

APPENDIX

Appendix A-1 FOR ESTIMATION OF THE PRODUCER'S SURPLUS BENEFIT

PRV. : KALIMANTAN SELATAN

KAB. : HULU SUNGAI SELATAN

SURVEY YEAR: 1984

Code No.	KECAMATAN NAME	CULTIVATED AREA : (PA)	YIELD RATE : (Y)	FARMER'S POPULATION : (AP)	CIRCULATED COMMODITY : (PG)
01	SUNGAI RAYA	2,922	4.4	9,820	2,100
02	PADANG BATUNG	1,373	3.5	9,590	3,000
03	TELAGA LANGSAT	2,229	5.8	5,250	2,600
04	ANGKINANG	3,252	4.6	9,140	3,800
05	KANDANGAN	2,440	4.8	23,300	1,600
06	SIMPUR	2,576	3.5	9,980	530
07	DAHA SELATAN	2,607	3.1	21,130	30
08	DAHA UTARA	634	3.5	15,400	30
09	KELUMPANG	2,273	3.5	4,340	400
10	LOK SADO	1,721	2.0	4,000	420

	r ₁	r ₂	r ₃	r ₄	FARMER'S CONSUMPTION : (Cp)	NON-AGRO REQUIREMENT : (NG)
ANNUAL AVERAGE GROWTH RATE %	5.1	2.0	3.0	5.0	0.26 Ton/head/year	0.015 Ton/ton

	SEDAN	BUS	TRUCK	MOTOR CYCLE	AVERAGE FREIGHT TONAGE
RATE OF EACH VEHICLE TYPE %	20.22	0.97	15.25	63.56	0.6 Ton/Truck

Appendix A-2 Engineering Data

ROAD LINK DATA

PROVINCE : Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
01	A. Yani	Simpang Lima	-	Kandangan	-	Dalam Kota
02	Jl. Pangeran Antasari		1	Kandangan	1	Dalam Kota
03	Jl. Let. Jend. S. Parman		-	Kandangan	-	Dalam Kota
04	Jl. Let. Jend. Soeprapto		-	Kandangan	-	Dalam Kota
05	Jl. May. Jend. Soetoyo		-	Kandangan	-	Dalam Kota
06	Pasar Kandangan		1	Kandangan	1	Dalam Kota
07	Ade Irma Nasution		-	Kandangan	-	Dalam Kota
08	Let. Jend. MT. Haryono		-	Kandangan	-	Dalam Kota
09	Kapten Piere Tendean		-	Kandangan	-	Dalam Kota
10	KS. Tubun		-	Kandangan	-	Dalam Kota
11	Anggrek		-	Kandangan	-	Dalam Kota
12	Kenanga		-	Kandangan	-	Dalam Kota
13	Sekolah Teknik		-	Kandangan	-	Dalam Kota
14	Aluh Idut		1	Kandangan	1	Dalam Kota
15	Niaga		1	Kandangan	1	Dalam Kota
16	Kandangan Hulu	Parincahan	4	Kandangan	4	Dalam Kota
17	Halayung	Hantarukung	2	Simpur	2	
18	Brig. Jend. Katamso		-	Kandangan	-	Dalam Kota
19	Kolonel Sugiarto		-	Kandangan	-	Dalam Kota
20	Panglima Batur		1	Kandangan	1	Dalam Kota
21	Patigan	Gambir	6	Kandangan	6	
22	Sungai Paring	Patigan	4	Kandangan	4	
23	Sungai Darnang	Amawang Kiri	3	Kandangan	3	Dalam Kota
24	Amawang Muka	Getek	2	Kandangan	2	Dalam Kota

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

ROAD LINK DATA

PROVINCE : Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
25	Amawang	Wasah Hulu	4	Kandangan	2	
				Simpur	2	
26	May. Jend. D. I Panjaitan		-	Kandangan	-	
27						
27 a	Jambu Hulu	Baluti	4	Kandangan	4	ILN.No. 142
28						
29	Baluti	Amawang	2	Kandangan	2	
29 a	Asam Cangkok	Hamalau	4	Kandangan	1.3	ILN.No. 143
				Simpur	1.3	
				Sungai Raya	1.4	
29 b	Hamalau	Telaga Bidadari	2	Simpur	1	ILN.No. 144
				Sungai Raya	1	
29 c	Hamalau	Sarang Halang	1	Sungai Raya	1	ILN.No. 145
30	Jl. Singakarsa			Kandangan		Dalam Kota
31	Sei. Kupang Utara	Simpang Empat	6	Kandangan	6	
32	Tanayung	Sp. Ambarai	2	Padang Batung	2	
33	Bakarung	Rantauan	3	Kandangan	3	1
33 a	Taniran Selatan	Gambah Dalam	1	Kandangan	1	ILN.No. 147
34						
35						
36	Bakarung	Tabihi	3	Kandangan	3	
36 a	Kalang Jawa	Bakarung Selatan	4	Kandangan	4	ILN.No. 148
37	Muara Banta	Karang Jawa	2	Kandangan	2	
38	Wasah Hulu	Wasah Hilir	7	Simpur	7	
39	U l i n	Amparaya	3	Simpur	3	
40	Wasah Hilir	Telaga Bidadari	5	Simpur	5	
40 a	Wasah Tengah	Sungai Tarap	3	Simpur	2.5	ILN.No. 149
				Sungai Raya	0.5	
40 b	Sarang Halang	Wasah Hilir	2	Simpur	1	ILN.No. 150
				Sungai Raya	1	

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

ILN = Input Link Number

ROAD LINK DATA

PROVINCE : Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
41						
42	Simpur	Simp. Bilui	1	Simpur	0.5	
43	Bilui Pemuja-an	Simpur	2	Sungai Raya	0.5	
				Simpur	1	
44	Kelumpang	Balimau	5	Sungai Raya	1	
				Kelumpang	5	
45	G e t e k	Pantai Ulin	2	Kandangan	2	
45 a	Sungai Hanyar	Sungai Paring	8	Simpur	8	ILN.No. 151
46	T a j u n	Bilui Pemuja-an	6	Sungai Raya	6	
47	Sungai Kali	Paring Agung	2	Sungai Raya	2	
48	Tanjungan	Batang Kulur Tengah	3	Sungai Raya	3	
49	Sungai Raya Selatan	Sarang Halang	3	Sungai Raya	3	
50	Batang Kulur Tengah	T a t a s	3	Sungai Raya	3	
50 a	Sp. 10	Sp. Batang Kulur	3	Sungai Raya	3	ILN.No. 152
51	Sungai Kali	Sp. Batang Kulur	2	Sungai Raya	2	
52	Bilui Pemuja-an	Sp. Batang Kulur	5	Sungai Raya	5	
53	Batang Kulur Tengah	J a r a u	4	Sungai Raya	4	1
54						
55	Sp. Batang Kulur	Mungkur Galah	3	Sungai Raya	3	
56	Tanjungan	Pahampangan	3	Sungai Raya	3	
57	Sungai Raya Selatan	M a l u t u	7	Sungai Raya	6	
				Padang Batung	1	
57 a	Sungai Raya Selatan	Tanah Bangkang	2	Sungai Raya	2	ILN.No. 153
58						
59	Pandulangan	Kalin Duku	4	Angkinang	2.5	
				Padang Batung	1.5	
60	Tirta Bahala-yung	Taniran Selatan	7	Kandangan	6	
				Angkinang	1	
61	T a w i a	Angkinang Selatan	5	Angkinang	5	

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 :Kalimantan Selatan

KABUPATEN:Hulu Sungai Selatan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
62	T a w i a	Kayu Abang	2	Angkinang	2	
63	Kayu Abang	Panggung Hijau	2	Angkinang	2	
64	Tangang	Bamban Selatan	1	Angkinang	1	
65	Angkinang	Telaga Langsat	6	Angkinang	2.5	
				Telaga Langsat	3.5	
66	P a k u a n	Bamban Selatan	3	Telaga Langsat	1	
				Angkinang	2	
67	Bamban utara	Langawang	2	Telaga Langsat	1	
				Angkinang	1	
68	Kayu Abang	Angkinang	4	Angkinang	4	
68 a	Bamban Tengah	Lok Nyiur	2	Angkinang	2	ILN.No. 154
69	Sp.Mandampa	Sp. Sungai Bungur	5	Angkinang	4	
				Padang Batung	1	
70	Telaga Langsat	P a k u a n	3	Telaga Langsat	3	
71	Langawang	G u m b i l	2	Telaga Langsat	2	1
72						
73	Mandampa	Langawang	3	Telaga Langsat	3	
74						
75	G u m b i l	Masimpan	5	Telaga Langsat	5	
76	T a b i h i	Telaga Langsat	9	Telaga Langsat	3	
				Padang Batung	6	
77	Telaga Langsat	Penyebrangan	6	Telaga Langsat	6	1
78						
79	Karang Jawa	T a b i h i	1	Kandangan	1	
80	Karang Jawa	Ambarai	1	Padang Batung	1	
81	Madang	Ambarai	2	Padang Batung	2	
82	Mendapai	Sungai Tandui	5	Padang Batung	5	
83	Padang Batung	Pagar Haur	5	Padang Batung	5	
84	Pagar Haur	Batu Laki	2	Padang Batung	2	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 : Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
85						
86	Mawang	Bukuanin	6	Padang Batung	6	
87	Mendapai	Madang	8	Padang Batung	8	
88	Padang Batung	Mendapai	4	Padang Batung	4	
89						
90	Kalereng	Sp. Padang Batung	6	Padang Batung	6	
91	Pagar Haur	M a l u t u	5	Padang Batung	5	
92						
93	Tumbukan Banyu	Banua Hanyar	6	Daha Selatan	6	
94	Pakan Dalam	Bajayau	12	Daha Utara	4	
				Daha Selatan	8	
95	Bayanan	Pihanin	3	Daha Selatan	3	
96						
97						
98						
99						
100						
100 a						
101						
102						
103						
104						
105	Mangaris	Limau Manis	5	Sungai Raya	5	
106	Panyampang	Bahagia	6	Simpur	6	
107						

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 : Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
108	Siang Gantung	S a m u d a	3	Daha Selatan	3	
108 a	Keminting Batu	Pakan Dalam	3	Daha Utara	3	ILN.No. 156
109	Jl. Negara	Murung Raya	3	Daha Utara	3	
110	Sungai Mandala	Baruh Kembang	1	Daha Utara	1	
111	Sungai Mandala	Pasungkan	10	Daha Utara	10	
112						
113						
114						
115	K a p u h	Baruh Kembang	1	Daha Utara	1	
116						
117						
118						
119						
120	Simpang Empat	Bangkau	6	Kandangan	6	
121	Kelumpang	Teratai	8	Simpur	5	
				Kelumpang	3	
122						
123	Simpang Empat	Bangkau	7	Kandangan	7	
124						
125	Amparaya	Simpur	1	Simpur	1	
126	B a g e	Simpang Empat	7	Simpur	4	
				Kelumpang	2	
				Kandangan	1	
127	T a a l	Malutu	2	Sungai Raya	1	
128	P a k u	Malutu	5	Sungai Raya	4	
				Padang Batung	1	
129	Malutu	Tambak	4	Padang Batung	4	

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 : Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
130	Tibung Muka	Hamalau	3	Sungai Raya	3	
131	Sp.Hamalau	Taluk Pinang	2	Kandangan	0.5	
132				Sungai Raya	1.5	
133	Pagat Batu	Muara Hariang	4	Padang Batung	4	
134	Muara Hariang	Bayumbung	5	Padang Batung	5	
135	G e t e k	Simpang Empat	8	Kandangan	8	
136	Pahampangan Utara	Sp.Baluti	2	Kandangan	2	
137	Jl.Kamp.Jawa	Jl.May.Jen.DI Panjaitan		Kandangan		Dalam Kota
138	Gambah Luar	Gambah Dalam	2	Kandangan	2	
139						
140	U l i n	Tanggul	5	Simpur	5	
141	L u a w	Sungai Bungur	3	Padang Batung	3	

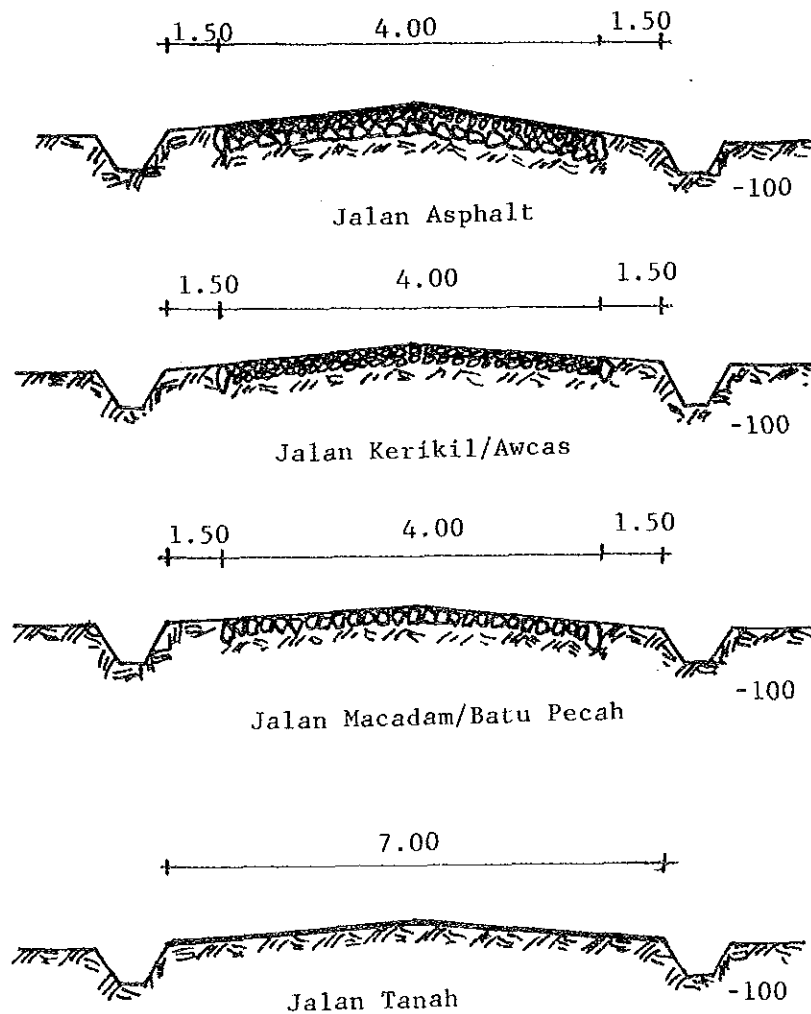
Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

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.



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			
24	3 Desember - Patigan	3.5	Gravel	3	14,725	
73	Mandampa - Longawang	3.5	Gravel	4.5	29,450	
81	Karang Jawa - Madang	3.5	Gravel	5	41,230	

* 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

PROPINSI: Kalimantan Selatan

KABUPATEN: Hulu Sungai

Selatan

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 Keterang- an
		Lebar Jembatan	Type Jembatan			
35 A	Bariang - Patigan	3.5	Gravel	3	18,050	
30.31	Kalian - Palas	3.5	Gravel	5	40,376	
31 A	Sei Kupang - Tirta Baha- layung	3.5	Gravel	3	31,171	
80 B	Tanayung - Ambarai	3.5	Gravel	1.5	9,107	
44	Bago - Balimau	3.5	Gravel	4	28,500	
106 A	Muara Bago - Tanggul	3.5	Gravel	5	43,700	

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

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

LINK NO. Nomor Ruas	LOCATION From - To (dari - ke)	Lebar perkerasan(m)	Type perkerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
40 C	Tajun - Sarang Halang	3.5	Gravel	3	25,650	
40 D	Sarang Halang - Sei Kali	3.5	Gravel	3	26,220	
106	Panjampang - Bahagia	3.5	Gravel	3	46,075	
106	Bahagia - Hanau	3.5	Gravel	3.5	32,992	
106	Hanau - Sei Hanyar	3.5	Gravel	2.5	27,333	
45 A	Sei Paring - Pantai	3.5	Gravel	2.5	23,513	

* 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	LENGTH Panjang	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan	(KM)		
138	Kandangan Hulu - Parincahan	3.5	Gravel	5	82,650	
109	Sei Garuda - Murung Raya	3.5	Gravel	2.25	53,200	
57,129	Maharuangan - Malutu	3.5	Gravel	7	54,150	

* 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

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			
	Pd. Batung - Mawang	4	Asphalt Seal	6.4	107,218	
	Luaw - Sei Bungur	3.5	Gravel	2.6	37,129	
	Ida Manggala - Padang Makmur	3.5	Gravel	5	29,850	
	Bamban - Longawang	3.5	Asphalt Seal	2	23,481	
	Karang Jawa - Bakarung	3.5	Asphalt Seal	4.5	56,750	
	Kalumpang - Bago	3.5	Gravel	2.9	29,794	

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

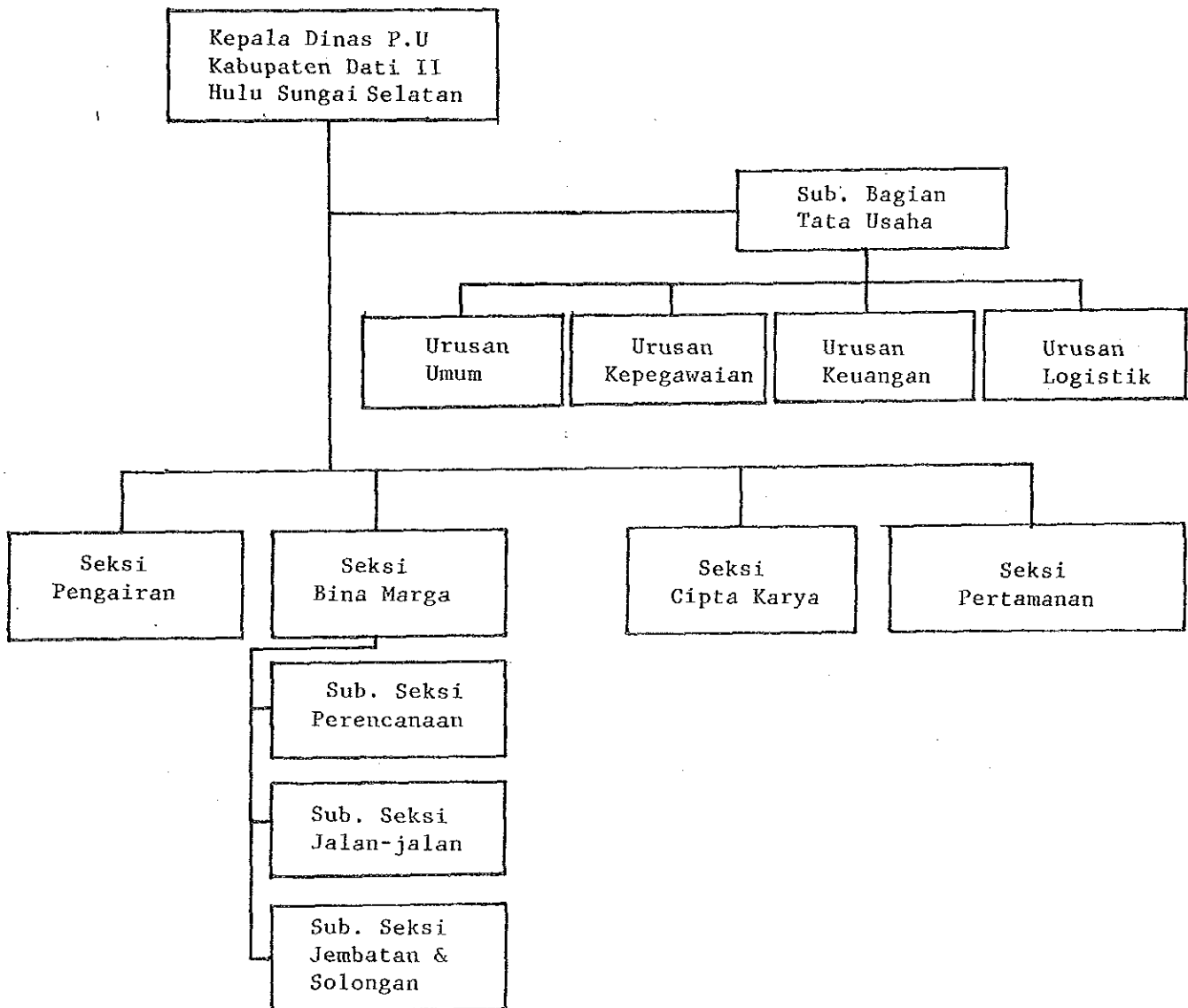
- 1. : Asphalt surface / penetrasi macadam
- 2. : Asphalt seal / pelaburan aspal
- 3. : Gravel / kerikil
- 4. : Gravel /AWCAS / kerikil / japat

EXISTING ORGANIZATION IN KABUPATEN

Structur Organisasi yang ada dari P.U Kabupaten

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

Harap digambar bagan organisasi dari DPUK.



EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATEN

Tenaga Dinas PUK yang ada

PROPINSI: Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

DESCRIPTION / Uraian	NUMBER / Jumlah	REMARKS Keterangan
CONTROLLING STAFF Staff teknis PUK	(21)	
DPUK ENGINEER Sarjana Teknik	-	
ASSISTANT ENGINEER Sarjana Muda Teknik	-	
TECHNICIAN STAFF Staff Teknik (STM)	21	
ADMINISTRATION Tenaga Administrasi	10	
SUPERVISOR Tenaga Pengawas	30	
WORKING FORCE Tenaga Pelaksana Lapangan	(41)	
OPERATORS Operators	3	
DRIVERS Supir	2	
MECHANICS Mechanic	3	
TRADESMAN Tukang	8	
LABOUR Buruh / Pekerja	25	
OTHERS Lain-lain		
TOTAL / JUMLAH	102	

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

LOCATION AND AREA OF DPUK WORKSHOP

E-06

Lokasi Workshop DPUK

PROPINSI : Kalimantan selatan

KABUPATEN: Hulu Sungai Selatan

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Sei Raya	20,000	-	Direncanakan

PROPINSI: Kalimantan Selatan

E-07

KABUPATEN: Hulu Sungai Selatan

LAND ACQUISITION COST

Daftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	10,000	
VILLAGE / desa	M2	3,000	
RICE FIELD/sawah	M2	3,000	
DRY FIELD/ladang	M2	2,000	
MIX CROPS/panen	M2	3,500	
FOREST/hutan	M2	2,000	
SWAMP / rawa	M2	500	
OTHERS / lain-lain	M2	-	

PROPINSI: Kalimantan Selatan

E-08

KABUPATEN: Hulu Sungai Selatan

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
1	B2	100,000,000	12	
2	C1	72,500,000	14	
7	C2	52,000,000	13	
56	C3	21,000,000	10	

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							
Motor Grader							
Tyre Roller							
Steel Whell Roller							
Vibration Roller							
Wheel Loader							
Front End Loader and Backhoe							
Mobile Crane		1970	2	-	2		
Concrete Mixer		1971	50	-	50		
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		1980	60	-	60		
Farm Tractor							
Dump Truck		1980	15	-	15		
Water Tank Truck							
Fuel Tank Truck							
Pick Up		1981	66	-	66		
Jeep		1980	16	-	16		
Motorcycle		1979	100	-	100		
Generator		1982	20	-	20		
Water Pump		1980	70	-	70		
Others							

LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

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							
Motor Grader							
Tyre Roller							
Steel Whell Roller		80&83	6	1	7		3
Vibration Roller							
Wheel Loader							
Front End Loader and Backhoe							
Nobile Crane							
Concrete Mixer							
Stone Crusher		1979	-	1	1		5
Portable Compressor							
Hydraulic Excavator							
Asphalt Paving Machine							
Asphalt Sprayer		1983	1	-	1		5
Asphalt Mixing Machine							
Mobile Workshop							
Mechanic Rammer							
Plate Tamper		1983	4	-	4		4
Pile Driver							
Leg Drill							
Hand Hammer							
Farm Tractor							
Dump Truck							
Water Tank Truck							
Fuel Tank Truck							
Pick Up		1981	1	-	1		4
Jeep							
Motorcycle		1981	3	-	3		6
Generator							
Water Pump							
Others							

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

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 140 (IIIA) LENGTH : 5 Km

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

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL																														
			LOCAL	FOREIGN	LOCAL	FOREIGN																															
Site Clearance in Light Bush	m ²	0.0	165	91	0	0	0																														
Subgrade Preparation	m ²	0.0	21	11	0	0	0																														
Normal Fill	m ³	0.0	1,700	863	0	0	0																														
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0																														
Normal Excavation to Spoil	m ³	1050.0	497	522	1,046,850	548,100	1,594,950																														
Sub Base Course	m ³	1620.0	3,205	1,347	5,192,100	2,182,140	7,374,240																														
Base Course	m ³	1800.0	4,401	2,299	7,921,800	4,138,200	12,060,000																														
Shoulder	m ²	12500.0	296	146	3,700,000	1,825,000	5,525,000																														
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0																														
Surface Dressing (Single)	m ²	0.0	633	851	0	0	0																														
Surface Dressing (Double)	m ²	22500.0	785	1,342	17,662,500	30,195,000	47,857,500																														
Earth Drain	m	1000.0	842	119	842,000	119,000	961,000																														
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0																														
Pipe Culvert Ø80cm	m	0.0	42,079	49,761	0	0	0																														
Masonry Culvert 180x80cm	m	0.0	57,789	39,894	0	0	0																														
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0																														
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0																														
Gabion Protection	m ³	0.0	13,027	120	0	0	0																														
New Bridge (Timber)	SET	1.0	--	--	0	0	0																														
New Bridge (Concrete)	SET	1.0	--	--	0	0	0																														
			Sub Total		36,365,250	39,007,440	75,372,690																														
Overhead (15%)					5,454,787	5,851,116	11,305,903																														
			TOTAL COST		41,820,037	44,858,556	86,678,593																														
Manual routine maintenance of road	Km	5.0	135,144	7,248	675,720	36,240	711,960																														
Routine maintenance of asphalt road	Km	5.0	356,800	157,900	1,784,000	789,500	2,573,500																														
			Sub Total		2,459,720	825,740	3,285,460																														
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0																														
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0																														
Maintenance of Timber Bridge (Exist)	m ²	72.0	7,111	2,360	511,992	169,920	681,912																														
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0																														
<table border="0"> <tr> <td>Earthwork & Pavement</td> <td>Unit Cost</td> <td>(Rp/Km)</td> <td>:</td> <td>17,335,719</td> </tr> <tr> <td>Timber Bridge</td> <td>Unit Cost</td> <td>(Rp/m²)</td> <td>:</td> <td></td> </tr> <tr> <td>Concrete Bridge</td> <td>Unit Cost</td> <td>(Rp/m²)</td> <td>:</td> <td></td> </tr> <tr> <td>Survived Value</td> <td></td> <td>(Rp)</td> <td>:</td> <td>8,914,392</td> </tr> <tr> <td>Maintenance Rate without Bridge</td> <td></td> <td>(%)</td> <td>:</td> <td>3.79</td> </tr> <tr> <td>New Bridge Cost Rate</td> <td></td> <td>(%)</td> <td>:</td> <td></td> </tr> </table>								Earthwork & Pavement	Unit Cost	(Rp/Km)	:	17,335,719	Timber Bridge	Unit Cost	(Rp/m ²)	:		Concrete Bridge	Unit Cost	(Rp/m ²)	:		Survived Value		(Rp)	:	8,914,392	Maintenance Rate without Bridge		(%)	:	3.79	New Bridge Cost Rate		(%)	:	
Earthwork & Pavement	Unit Cost	(Rp/Km)	:	17,335,719																																	
Timber Bridge	Unit Cost	(Rp/m ²)	:																																		
Concrete Bridge	Unit Cost	(Rp/m ²)	:																																		
Survived Value		(Rp)	:	8,914,392																																	
Maintenance Rate without Bridge		(%)	:	3.79																																	
New Bridge Cost Rate		(%)	:																																		

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 152 (IIIB-1) LENGTH : 3 Km
 UPGRADE : 8.0m road bed, 4.0m road with surface Dressing (1)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	0.0	165	91	0	0	0	
Subgrade Preparation	m ²	0.0	21	11	0	0	0	
Normal Fill	m ³	0.0	1,700	863	0	0	0	
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m ³	0.0	997	522	0	0	0	
Sub Base Course	m ³	464.0	3,205	1,347	1,487,120	625,008	2,112,128	
Base Course	m ³	840.0	4,401	2,299	3,696,840	1,931,160	5,628,000	
Shoulder	m ²	12000.0	296	146	3,552,000	1,752,000	5,304,000	
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m ²	12000.0	633	851	7,596,000	10,212,000	17,808,000	
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0	
Earth Drain	m	0.0	842	119	0	0	0	
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0	
Pipe Culvert 80cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0	
Gabion Protection	m ³	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					16,331,960	14,520,168	30,852,128	
Overhead (15%)					2,449,794	2,178,025	4,627,819	
					TOTAL COST	18,781,754	16,698,193	35,479,947

Manual routine maintenance of road	Km	3.0	135,144	7,248	405,432	21,744	427,176
Routine maintenance of asphalt road	Km	3.0	356,800	157,900	1,070,400	473,760	1,544,160
				Sub Total	1,475,832	495,444	1,971,276
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	43.2	7,111	2,360	307,195	101,952	409,147
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Ya)	:	11,826,649
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	2,604,089
Maintenance Rate without Bridge (ZI)	:	5.56
New Bridge Cost Rate (Z)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 126 (IIIB-2) LENGTH : 7 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 ²	0.0	165	91	0	0	0	
Subgrade Preparation	m ²	35000.0	21	11	735,000	385,000	1,120,000	
Normal Fill	m ³	0.0	1,700	863	0	0	0	
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m ³	619.0	997	522	617,143	323,118	940,261	
Sub Base Course	m ³	3326.0	3,205	1,347	10,659,830	4,480,122	15,139,952	
Base Course	m ³	1680.0	4,401	2,299	7,393,680	3,862,320	11,256,000	
Shoulder	m ²	21000.0	296	146	6,216,000	3,066,000	9,282,000	
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m ²	0.0	633	851	0	0	0	
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0	
Earth Drain	m	1400.0	842	119	1,178,800	166,600	1,345,400	
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0	
Pipe Culvert 80cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0	
Gabion Protection	m ³	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total			
						26,800,453	12,283,160	39,083,613
Overhead (15%)						4,020,067	1,842,474	5,862,541
					TOTAL COST	30,820,520	14,125,634	44,946,154

Manual routine maintenance of road	Km	7.0	135,144	7,248	946,008	50,736	996,744
Routine maintenance of gravel road	Km	7.0	192,036	88,047	1,344,252	616,329	1,960,581
			Sub Total		2,290,260	667,065	2,957,325
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	113.4	7,111	2,360	806,387	267,624	1,074,011
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	6,420,879
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	7,569,976
Maintenance Rate without Bridge (%)	:	6.58
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 125 (IIB-1) LENGTH : 1 Km
 UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	165	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,700	863	0	0	0
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0
Normal Excavation to Spoil	m3	140.0	997	522	139,580	73,080	212,660
Sub Base Course	m3	257.0	3,205	1,347	823,685	346,179	1,169,864
Base Course	m3	280.0	4,401	2,299	1,232,280	643,720	1,876,000
Shoulder	m2	3000.0	296	146	888,000	438,000	1,326,000
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m2	4000.0	633	851	2,532,000	3,404,000	5,936,000
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0
Earth Drain	m	0.0	842	119	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0
Pipe Culvert D80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0
Gabion Protection	m3	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		5,615,545	4,904,979	10,520,524
Overhead (15%)					842,331	735,746	1,578,077
			TOTAL COST		6,457,876	5,640,725	12,098,601

Manual routine maintenance of road	Km	1.0	135,144	7,248	135,144	7,248	142,392
Routine maintenance of asphalt road	Km	1.0	356,800	157,900	356,800	157,900	514,700
			Sub Total		491,944	165,148	657,092
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,111	2,360	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	12,098,603
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	1,194,104
Maintenance Rate without Bridge (%)	:	5.43
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 123 (IIIB-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	21000.0	165	91	3,465,000	1,911,000	5,376,000
Subgrade Preparation	m2	49000.0	21	11	1,029,000	539,000	1,568,000
Normal Fill	m3	0.0	1,700	863	0	0	0
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0
Normal Excavation to Spoil	m3	486.0	997	522	484,542	253,692	738,234
Sub Base Course	m3	3920.0	3,205	1,347	12,563,600	5,280,240	17,843,840
Base Course	m3	1680.0	4,401	2,299	7,393,680	3,862,320	11,256,000
Shoulder	m2	21000.0	296	146	6,216,000	3,066,000	9,282,000
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m2	0.0	633	851	0	0	0
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0
Earth Drain	m	1400.0	842	119	1,178,800	166,600	1,345,400
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0
Pipe Culvert 80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0
Gabion Protection	m3	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	32,330,622	15,078,852	47,409,474
Overhead (15%)					4,849,593	2,261,827	7,111,420
				TOTAL COST	37,180,215	17,340,679	54,520,894

Manual routine maintenance of road	Km	7.0	135,144	7,248	946,008	50,736	996,744
Routine maintenance of gravel road	Km	7.0	192,036	88,047	1,344,252	616,329	1,960,581
			Sub Total		2,290,260	667,065	2,957,325
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	48.0	7,111	2,360	341,328	113,280	454,608
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	7,788,699
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	8,921,920
Maintenance Rate without Bridge		(%)	:	5.42
New Bridge Cost Rate		(%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 121 (IIIB-2) LENGTH : 8 Km
 UPGRADE : 6.0m 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	m2	0.0	165	91	0	0	0	
Subgrade Preparation	m2	48000.0	21	11	1,008,000	528,000	1,536,000	
Normal Fill	m3	0.0	1,700	863	0	0	0	
Fill in Swamp	m3	7.2	2,515	1,052	18,108	7,574	25,682	
Normal Excavation to Spoil	m3	879.0	997	522	876,363	458,838	1,335,201	
Sub Base Course	m3	4480.0	3,205	1,347	14,358,400	6,034,560	20,392,960	
Base Course	m3	1920.0	4,401	2,299	8,447,920	4,414,080	12,864,000	
Shoulder	m2	16000.0	296	146	4,736,000	2,336,000	7,072,000	
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m2	0.0	633	851	0	0	0	
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0	
Earth Drain	m	0.0	842	119	0	0	0	
Earth Drain in Swamp (by machine)	m3	18.0	1,191	474	21,438	8,532	29,970	
Pipe Culvert 800cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0	
Gabion Protection	m3	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					29,468,229	13,787,584	43,255,813	
Overhead (15%)					4,420,234	2,068,137	6,488,371	
					TOTAL COST	33,888,463	15,855,721	49,744,184

Manual routine maintenance of road	Km	8.0	135,144	7,248	1,081,152	57,984	1,139,136
Routine maintenance of gravel road	Km	8.0	192,036	88,047	1,536,288	704,376	2,240,664
					Sub Total	2,617,440	3,379,800
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	86.4	7,111	2,360	614,390	203,904	818,294
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	6,218,023
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	10,196,480
Maintenance Rate without Bridge		(%)	:	6.79
New Bridge Cost Rate		(%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINE NO : 91 (IIIC) LENGTH : 5 Km
 UPGRADE : 7.0m road bed, 3.0m road with surface Subbase Course
 (Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in light Bush	m ²	0.0	165	91	0	0	0	
Subgrade Preparation	m ²	0.0	21	11	0	0	0	
Normal Fill	m ³	0.0	1,700	863	0	0	0	
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m ³	0.0	997	522	0	0	0	
Sub Base Course	m ³	144.0	3,205	1,347	461,520	193,968	655,488	
Base Course	m ³	900.0	4,401	2,299	3,960,900	2,069,100	6,030,000	
Shoulder	m ²	20000.0	296	146	5,920,000	2,920,000	8,840,000	
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m ²	0.0	633	851	0	0	0	
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0	
Earth Drain	m	0.0	842	119	0	0	0	
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0	
Pipe Culvert D80cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0	
Gabion Protection	m ³	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					10,342,420	5,183,068	15,525,488	
Overhead (15%)					1,551,363	777,460	2,328,823	
					TOTAL COST	11,893,783	5,960,528	17,854,311

Manual routine maintenance of road	Km	5.0	135,144	7,248	675,720	36,240	711,960	
Routine maintenance of gravel road	Km	5.0	192,036	88,047	960,180	440,235	1,400,415	
					Sub Total	1,635,900	476,475	2,112,375
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0	
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0	
Maintenance of Timber Bridge (Exist)	m ²	54.0	7,111	2,360	383,994	127,440	511,434	
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0	

					Earthwork & Pavement Unit Cost (Rp/Km)	:	3,570,862	
					Timber Bridge Unit Cost (Rp/m ²)	:		
					Concrete Bridge Unit Cost (Rp/m ²)	:		
					Survived Value (Rp)	:	262,195	
					Maintenance Rate without Bridge (Z)	:	11.83	
					New Bridge Cost Rate (Z)	:		

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : B7 (IIIB-1) LENGTH : 8 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	2000.0	165	91	330,000	182,000	512,000	
Subgrade Preparation	m ²	0.0	21	11	0	0	0	
Normal Fill	m ³	0.0	1,700	863	0	0	0	
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m ³	1120.0	997	522	1,116,640	584,640	1,701,280	
Sub Base Course	m ³	2140.0	3,205	1,347	6,858,700	2,882,580	9,741,280	
Base Course	m ³	2240.0	4,401	2,299	9,850,240	5,149,760	15,000,000	
Shoulder	m ²	24000.0	296	146	7,104,000	3,504,000	10,608,000	
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m ²	32000.0	633	851	20,256,000	27,232,000	47,488,000	
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0	
Earth Drain	m	11000.0	842	119	9,262,000	1,309,000	10,571,000	
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0	
Pipe Culvert 80cm	m	5.0	42,079	49,761	210,395	248,805	459,200	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0	
Gabion Protection	m ³	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	54,995,975	41,092,785	96,088,760
Overhead (15%)						8,249,396	6,163,917	14,413,313
					TOTAL COST	63,245,371	47,256,702	110,502,073

Manual routine maintenance of road	Km	8.0	135,144	7,248	1,081,152	57,984	1,139,136	
Routine maintenance of asphalt road	Km	8.0	356,800	157,908	2,854,400	1,263,200	4,117,600	
					Sub Total	3,935,552	1,321,184	5,256,736
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0	
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0	
Maintenance of Timber Bridge (Exist)	m ²	104.4	7,111	2,360	742,388	246,384	988,772	
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0	

Earthwork & Pavement Unit Cost (Rp/Km)	:	13,812,759
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	9,820,496
Maintenance Rate without Bridge (%)	:	4.76
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : B3 (IIB-1) LENGTH : 5 Km
 UPGRADE : 7.5m road bed, 3.5m 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	165	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,700	863	0	0	0	
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m3	0.0	997	522	0	0	0	
Sub Base Course	m3	791.0	3,205	1,347	2,535,155	1,065,477	3,600,632	
Base Course	m3	1225.0	4,401	2,299	5,391,225	2,816,275	8,207,500	
Shoulder	m2	20000.0	296	146	5,920,000	2,920,000	8,840,000	
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m2	17500.0	633	851	11,077,500	14,892,500	25,970,000	
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0	
Earth Drain	m	1000.0	842	119	842,000	119,000	961,000	
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0	
Pipe Culvert 800cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0	
Gabion Protection	m3	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	25,765,880	21,813,252	47,579,132
Overhead (15%)						3,864,882	3,271,987	7,136,869
					TOTAL COST	29,630,762	25,085,239	54,716,001

Manual routine maintenance of road	Km	5.0	135,144	7,248	675,720	36,240	711,960
Routine maintenance of asphalt road	Km	5.0	356,800	157,900	1,784,000	789,500	2,573,500
				Sub Total	2,459,720	825,740	3,285,460
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	136.8	7,111	2,360	972,784	322,848	1,295,632
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	10,943,200
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	4,161,942
Maintenance Rate without Bridge (%)	:	6.00
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 02 (IIIB-1) LENGTH : 5 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	m2	0.0	165	91	0	0	0	
Subgrade Preparation	m2	24000.0	21	11	504,000	264,000	768,000	
Normal Fill	m3	0.0	1,700	863	0	0	0	
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m3	240.0	997	522	239,280	125,280	364,560	
Sub Base Course	m3	1680.0	3,205	1,347	5,384,400	2,262,960	7,647,360	
Base Course	m3	840.0	4,401	2,299	3,696,840	1,931,160	5,628,000	
Shoulder	m2	20000.0	296	146	5,920,000	2,920,000	8,840,000	
Asphalt Patching	m2	20.0	3,568	1,579	71,360	31,580	102,940	
Surface Dressing (Single)	m2	20000.0	633	851	12,660,000	17,020,000	29,680,000	
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0	
Earth Drain	m	0.0	842	119	0	0	0	
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0	
Pipe Culvert D80cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0	
Gabion Protection	m3	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					28,475,880	24,554,980	53,030,860	
Overhead (15%)					4,271,382	3,683,247	7,954,629	
					TOTAL COST	32,747,262	28,238,227	60,985,489

Manual routine maintenance of road	Km	5.0	135,144	7,248	675,720	36,240	711,960	
Routine maintenance of asphalt road	Km	5.0	356,800	157,900	1,784,000	789,500	2,573,500	
					Sub Total	2,459,720	825,740	3,285,460
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0	
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0	
Maintenance of Timber Bridge (Exist)	m2	59.4	7,111	2,360	422,393	140,184	562,577	
Maintenance of Concrete Bridge (Exist)	m2	72.0	4,178	2,436	300,816	175,392	476,208	

Earthwork & Pavement Unit Cost (Rp/Km)	:	12,197,098
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	6,478,752
Maintenance Rate without Bridge (%)	:	5.39
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

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

UPGRADE : 7.5m road bed, 3.5m 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	165	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,700	863	0	0	0
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0
Normal Excavation to Spoil	m3	0.0	997	522	0	0	0
Sub Base Course	m3	143.5	3,205	1,347	459,917	193,294	653,211
Base Course	m3	245.0	4,401	2,299	1,078,245	563,255	1,641,500
Shoulder	m2	4000.0	296	146	1,184,000	584,000	1,768,000
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m2	3500.0	633	851	2,215,500	2,978,500	5,194,000
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0
Earth Drain	m	0.0	842	119	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0
Pipe Culvert Ø80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0
Gabion Protection	m3	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	4,937,662	4,319,049	9,256,711
Overhead (15%)					740,649	647,857	1,388,506
				TOTAL COST	5,678,311	4,966,906	10,645,217
Manual routine maintenance of road	Km	1.0	135,144	7,248	135,144	7,248	142,392
Routine maintenance of asphalt road	Km	1.0	356,800	157,900	356,800	157,900	514,700
				Sub Total	491,944	165,148	657,092
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,111	2,360	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0
				Earthwork & Pavement Unit Cost (Rp/Km)	:	10,645,218	
				Timber Bridge Unit Cost (Rp/m2)	:		
				Concrete Bridge Unit Cost (Rp/m2)	:		
				Survived Value (Rp)	:	785,547	
				Maintenance Rate without Bridge (%)	:	6.17	
				New Bridge Cost Rate (%)	:		

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 65 (11IB-1) LENGTH : 6 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	165	91	0	0	0
Subgrade Preparation	m2	0.0	21	11	0	0	0
Normal Fill	m3	0.0	1,700	863	0	0	0
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0
Normal Excavation to Spoil	m3	840.0	997	522	837,480	438,400	1,275,880
Sub Base Course	m3	1509.0	3,205	1,347	4,836,345	2,032,623	6,868,968
Base Course	m3	1680.0	4,401	2,299	7,393,680	3,862,320	11,256,000
Shoulder	m2	12000.0	296	146	3,552,000	1,752,000	5,304,000
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m2	24000.0	633	851	15,192,000	20,424,000	35,616,000
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0
Earth Drain	m	9900.0	842	119	8,335,800	1,170,100	9,513,900
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0
Pipe Culvert 80x80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	360.0	9,178	246	3,304,080	88,560	3,392,640
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0
Gabion Protection	m3	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		43,451,385	29,776,083	73,227,468
Overhead (15%)					6,517,707	4,466,412	10,984,119
			TOTAL COST		49,969,092	34,242,495	84,211,587

Manual routine maintenance of road	Km	6.0	135,144	7,248	810,864	43,488	854,352
Routine maintenance of asphalt road	Km	6.0	356,800	157,900	2,140,800	947,400	3,088,200
			Sub Total		2,951,664	990,888	3,942,552
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,111	2,360	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	79.2	4,178	2,436	330,897	192,931	523,828

Earthwork & Pavement Unit Cost (Rp/Km)	:	14,035,265
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	7,059,477
Maintenance Rate without Bridge (%)	:	4.68
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 61 (IIIB-2) LENGTH : 5 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	m ²	0.0	165	91	0	0	0
Subgrade Preparation	m ²	40000.0	21	11	840,000	440,000	1,280,000
Normal Fill	m ³	0.0	1,700	863	0	0	0
Fill in Swamp	m ³	420.0	2,515	1,052	1,056,300	441,840	1,498,140
Normal Excavation to Spoil	m ³	652.0	997	522	650,044	340,344	990,388
Sub Base Course	m ³	2800.0	3,205	1,347	8,974,000	3,771,600	12,745,600
Base Course	m ³	1200.0	4,401	2,299	5,281,200	2,758,800	8,040,000
Shoulder	m ²	20000.0	296	146	5,920,000	2,920,000	8,840,000
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m ²	0.0	633	851	0	0	0
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0
Earth Drain	m	400.0	842	119	336,800	47,600	384,400
Earth Drain in Swamp (by machine)	m ³	6000.0	1,191	474	7,146,000	2,844,000	9,990,000
Pipe Culvert Ø80cm	m	12.0	42,079	49,761	504,948	597,132	1,102,080
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0
Gabion Protection	m ³	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		30,709,292	14,161,316	44,870,608
Overhead (15%)					4,606,393	2,124,197	6,730,590
			TOTAL COST		35,315,685	16,285,513	51,601,198

Manual routine maintenance of road	Km	5.0	135,144	7,248	675,720	36,240	711,960
Routine maintenance of gravel road	Km	5.0	192,036	88,047	960,180	440,235	1,400,415
			Sub Total		1,635,900	476,475	2,112,375
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	7,111	2,360	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	10,320,240
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	6,372,800
Maintenance Rate without Bridge (Z)	:	4.09
New Bridge Cost Rate (Z)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 60 (IIIB-1) LENGTH : 7 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	165	91	0	0	0
Subgrade Preparation	m ²	40000.0	21	11	840,000	440,000	1,280,000
Normal Fill	m ³	0.0	1,700	863	0	0	0
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0
Normal Excavation to Spoil	m ³	620.0	997	522	618,140	323,640	941,780
Sub Base Course	m ³	3144.0	3,205	1,347	10,076,520	4,234,960	14,311,480
Base Course	m ³	1960.0	4,401	2,299	8,625,960	4,506,040	13,132,000
Shoulder	m ²	28000.0	296	146	8,288,000	4,088,000	12,376,000
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m ²	28000.0	633	851	17,724,000	23,828,000	41,552,000
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0
Earth Drain	m	0.0	842	119	0	0	0
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0
Pipe Culvert Ø80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0
Gabion Protection	m ³	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	46,172,620	37,420,648	83,593,268
Overhead (15%)					6,925,893	5,613,097	12,538,990
				TOTAL COST	53,098,513	43,033,745	96,132,258

Manual routine maintenance of road	Km	7.0	135,144	7,248	946,008	50,736	996,744
Routine maintenance of asphalt road	Km	7.0	356,800	157,900	2,497,600	1,105,300	3,602,900
				Sub Total	3,443,608	1,156,036	4,599,644
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	88.2	7,111	2,360	627,190	208,152	835,342
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	13,733,180
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	12,644,441
Maintenance Rate without Bridge (%)	:	4.78
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN TENGAH KAB : BARITO UTARA
 LINK NO : B (IIIC) LENGTH : 15 Km
 UPGRADE : 6.0m road bed, 3.5m 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	37500.0	168	91	6,300,000	3,412,500	9,712,500
Subgrade Preparation	m2	24000.0	21	11	504,000	264,000	768,000
Normal Fill	m3	0.0	1,738	863	0	0	0
Fill in Swamp	m3	0.0	10,625	267	0	0	0
Normal Excavation to Spoil	m3	291.0	1,017	523	295,947	152,193	448,140
Cement Stabilizing	m3	2484.3	14,992	12,368	37,244,625	30,725,822	67,970,447
Cement Stabilizing	m3	2310.0	14,992	12,368	34,631,520	28,570,080	63,201,600
Shoulder	m2	37500.0	305	146	11,437,500	5,475,000	16,912,500
Asphalt Patching	m2	0.0	8,960	1,173	0	0	0
Surface Dressing (Single)	m2	0.0	1,189	725	0	0	0
Surface Dressing (Double)	m2	0.0	1,689	1,139	0	0	0
Earth Drain	m	28340.0	1,005	119	28,481,700	3,372,460	31,854,160
Earth Drain in Swamp (by machine)	m3	0.0	1,247	474	0	0	0
Pipe Culvert 80cm	m	0.0	68,342	49,971	0	0	0
Masonry Culvert 180x80cm	m	0.0	96,528	37,061	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,847	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	65,583	10,457	0	0	0
Gabion Protection	m3	0.0	16,726	120	0	0	0
New Bridge (Timber)	SEf	1.0	--	--	29,564,859	3,070,330	32,635,189
New Bridge (Concrete)	SEf	1.0	--	--	0	0	0
				Sub Total	148,460,151	75,042,385	223,502,536
Overhead (15%)					22,269,022	11,256,357	33,525,379
				TOTAL COST	170,729,173	86,298,742	257,027,915

Manual routine maintenance of road	Km	15.0	144,616	7,248	2,469,240	108,720	2,577,960
Routine maintenance of gravel road	Km	15.0	841,405	42,664	12,621,075	639,960	13,261,035
			Sub Total		15,090,315	748,680	15,838,995
Maintenance of Timber Bridge (New)	m2	252.0	7,834	1,232	1,974,168	310,464	2,284,632
Maintenance of Concrete Bridge (New)	m2	0.0	2,970	3,061	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,840	2,459	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,517	2,455	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,633,163
Timber Bridge	Unit Cost	(Rp/m2)	:	148,930
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	27,188,178
Maintenance Rate without Bridge		(%)	:	7.22
New Bridge Cost Rate		(%)	:	14.60

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 57 (IIC) LENGTH : 7 Km

UPGRADE : 8.0m 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	0.0	165	91	0	0	0	
Subgrade Preparation	m ²	0.0	21	11	0	0	0	
Normal Fill	m ³	0.0	1,700	863	0	0	0	
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m ³	0.0	997	522	0	0	0	
Sub Base Course	m ³	220.0	3,205	1,347	705,100	296,340	1,001,440	
Base Course	m ³	1680.0	4,401	2,299	7,393,680	3,862,320	11,256,000	
Shoulder	m ²	28000.0	296	146	8,288,000	4,088,000	12,376,000	
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m ²	0.0	633	851	0	0	0	
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0	
Earth Drain	m	0.0	842	119	0	0	0	
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0	
Pipe Culvert 800cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0	
Gabion Protection	m ³	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	16,386,780	8,246,660	24,633,440
Overhead (15%)						2,458,017	1,236,999	3,695,016
					TOTAL COST	18,844,797	9,483,659	28,328,456

Manual routine maintenance of road	Km	7.0	135,144	7,248	946,008	50,736	996,744
Routine maintenance of gravel road	Km	7.0	192,036	88,047	1,344,252	616,329	1,960,581
				Sub Total	2,290,260	667,065	2,957,325
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	10.8	7,111	2,360	76,798	25,488	102,286
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	4,046,922
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	400,576
Maintenance Rate without Bridge (%)	:	10.44
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 52 (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	m ²	0.0	165	91	0	0	0	
Subgrade Preparation	m ²	0.0	21	11	0	0	0	
Normal Fill	m ³	0.0	1,700	863	0	0	0	
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m ³	0.0	997	522	0	0	0	
Sub Base Course	m ³	772.0	3,205	1,347	2,474,260	1,039,884	3,514,144	
Base Course	m ³	1400.0	4,401	2,299	6,161,400	3,218,600	9,380,000	
Shoulder	m ²	15000.0	296	146	4,440,000	2,190,000	6,630,000	
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m ²	20000.0	633	851	12,660,000	17,020,000	29,680,000	
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0	
Earth Drain	m	2800.0	842	119	2,357,600	333,200	2,690,800	
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0	
Pipe Culvert 80cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0	
Gabion Protection	m ³	0.0	13,027	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	28,093,260	23,801,684	51,894,944
Overhead (15%)						4,213,989	3,570,252	7,784,241
					TOTAL COST	32,307,249	27,371,936	59,679,185

Manual routine maintenance of road	Km	5.0	135,144	7,248	675,720	36,240	711,960
Routine maintenance of asphalt road	Km	5.0	356,800	157,900	1,784,000	789,500	2,573,500
			Sub Total		2,459,720	825,740	3,285,460
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	43.2	7,111	2,360	307,195	101,952	409,147
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	11,935,837
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	4,335,900
Maintenance Rate without Bridge (%)	:	5.51
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 50 (IIIA) LENGTH : 3 Km
 UPGRADE : 7.5m road bed, 4.5m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	13500.0	165	91	2,227,500	1,228,500	3,456,000	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,700	863	0	0	0	
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0	
Normal Excavation to Spoil	m3	910.0	997	522	907,270	475,020	1,382,290	
Sub Base Course	m3	1173.0	3,205	1,347	3,759,465	1,580,031	5,339,496	
Base Course	m3	1080.0	4,401	2,299	4,753,080	2,482,920	7,236,000	
Shoulder	m2	9000.0	296	146	2,664,000	1,314,000	3,978,000	
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0	
Surface Dressing (Single)	m2	0.0	633	851	0	0	0	
Surface Dressing (Double)	m2	13500.0	785	1,342	10,597,500	18,117,000	28,714,500	
Earth Drain	m	0.0	842	119	0	0	0	
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0	
Pipe Culvert 80cm	m	0.0	42,079	49,761	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0	
Babion Protection	m3	0.0	13,827	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	24,908,815	25,197,471	50,106,286
Overhead (15%)						3,736,322	3,779,620	7,515,942
					TOTAL COST	28,645,137	28,977,091	57,622,228

Manual routine maintenance of road	Km	3.0	135,144	7,248	405,432	21,744	427,176	
Routine maintenance of asphalt road	Km	3.0	356,800	157,900	1,070,400	473,700	1,544,100	
					Sub Total	1,475,832	495,444	1,971,276
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0	
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0	
Maintenance of Timber Bridge (Exist)	m2	50.4	7,111	2,360	358,394	118,944	477,338	
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0	

Earthwork & Pavement Unit Cost (Rp/Km)	:	19,207,410
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	6,080,596
Maintenance Rate without Bridge (%)	:	3.42
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 48 (IIIB-2) LENGTH : 3 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	9000.0	165	91	1,485,000	819,000	2,304,000
Subgrade Preparation	m2	14000.0	21	11	294,000	154,000	448,000
Normal Fill	m3	0.0	1,700	863	0	0	0
Fill in Swamp	m3	0.0	2,315	1,052	0	0	0
Normal Excavation to Spoil	m3	275.0	997	522	274,175	143,550	417,725
Sub Base Course	m3	1377.0	3,205	1,347	4,413,285	1,854,819	6,268,104
Base Course	m3	720.0	4,401	2,299	3,168,720	1,655,280	4,824,000
Shoulder	m2	9000.0	296	146	2,664,000	1,314,000	3,978,000
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m2	0.0	633	851	0	0	0
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0
Earth Drain	m	600.0	842	119	505,200	71,400	576,600
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0
Pipe Culvert Ø80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0
Gabion Protection	m3	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
					Sub Total		
					12,804,380	6,012,049	18,816,429
Overhead (15%)					1,920,657	901,807	2,822,464
					TOTAL COST		
					14,725,037	6,913,856	21,638,893

Manual routine maintenance of road	Km	3.0	135,144	7,248	405,432	21,744	427,176
Routine maintenance of gravel road	Km	3.0	192,036	88,047	576,108	264,141	840,249
			Sub Total		981,540	285,885	1,267,425
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	36.0	7,111	2,360	255,996	84,960	340,956
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	7,212,964
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	3,134,052
Maintenance Rate without Bridge (%)	:	5.86
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 39 (IIB-1) LENGTH : 3 Km

UPGRADE : 7.5m road bed, 3.5m 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 ²	0.0	165	91	0	0	0
Subgrade Preparation	m ²	0.0	21	11	0	0	0
Normal Fill	m ³	0.0	1,700	863	0	0	0
Fill in Swamp	m ³	0.0	2,515	1,052	0	0	0
Normal Excavation to Spoil	m ³	0.0	997	522	0	0	0
Sub Base Course	m ³	325.5	3,205	1,347	1,043,227	438,448	1,481,675
Base Course	m ³	735.0	4,401	2,299	3,234,735	1,689,765	4,924,500
Shoulder	m ²	12000.0	296	146	3,552,000	1,752,000	5,304,000
Asphalt Patching	m ²	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m ²	10500.0	633	851	6,646,500	8,935,500	15,582,000
Surface Dressing (Double)	m ²	0.0	785	1,342	0	0	0
Earth Drain	m	0.0	842	119	0	0	0
Earth Drain in Swamp (by machine)	m ³	0.0	1,191	474	0	0	0
Pipe Culvert Ø80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m ²	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	42,447	11,621	0	0	0
Gabion Protection	m ³	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					14,476,462	12,815,713	27,292,175
Overhead (15%)					2,171,469	1,922,356	4,093,825
TOTAL COST					16,647,931	14,738,069	31,386,000

Manual routine maintenance of road	Km	3.0	135,144	7,248	405,432	21,744	427,176
Routine maintenance of asphalt road	Km	3.0	356,800	157,900	1,070,400	473,700	1,544,100
Sub Total					1,475,832	495,444	1,971,276
Maintenance of Timber Bridge (New)	m ²	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	7,111	2,360	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	10,462,000
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	2,022,072
Maintenance Rate without Bridge (%)	:	6.28
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 25 (IIB-2) LENGTH : 4 Km
 UPGRADE : 9.0m 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	165	91	0	0	0
Subgrade Preparation	m2	36000.0	21	11	756,000	396,000	1,152,000
Normal Fill	m3	0.0	1,700	863	0	0	0
Fill in Swamp	m3	0.0	2,515	1,052	0	0	0
Normal Excavation to Spoil	m3	492.0	997	522	490,524	256,824	747,348
Sub Base Course	m3	2240.0	3,205	1,347	7,179,200	3,017,280	10,196,480
Base Course	m3	960.0	4,401	2,299	4,224,960	2,207,040	6,432,000
Shoulder	m2	20000.0	296	146	5,920,000	2,920,000	8,840,000
Asphalt Patching	m2	0.0	3,568	1,579	0	0	0
Surface Dressing (Single)	m2	0.0	633	851	0	0	0
Surface Dressing (Double)	m2	0.0	785	1,342	0	0	0
Earth Drain	m	0.0	842	119	0	0	0
Earth Drain in Swamp (by machine)	m3	0.0	1,191	474	0	0	0
Pipe Culvert 80cm	m	0.0	42,079	49,761	0	0	0
Masonry Culvert (80x80cm)	m	0.0	57,789	39,894	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	9,178	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	42,447	11,621	0	0	0
Gabion Protection	m3	0.0	13,027	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	18,570,684	8,797,144	27,367,828
Overhead (15%)					2,785,602	1,319,571	4,105,173
				TOTAL COST	21,356,286	10,116,715	31,473,001

Manual routine maintenance of road	Km	4.0	135,144	7,248	540,576	28,992	569,568
Routine maintenance of gravel road	Km	4.0	192,036	88,047	768,144	352,188	1,120,332
			Sub Total		1,308,720	381,180	1,689,900
Maintenance of Timber Bridge (New)	m2	0.0	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	12.6	7,111	2,360	89,598	29,736	119,334
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,178	2,436	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	7,868,251
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	5,098,240
Maintenance Rate without Bridge (%)	:	5.37
New Bridge Cost Rate (%)	:	

Appendix A-4

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

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	187.9	403.5	862.0	359.0	0.0	1812.4
Swamp Bulldozer	hr	0.2	0.0	14.0	0.0	0.0	14.2
Motor Grader	hr	580.5	888.9	1694.3	967.4	0.0	4131.1
Hand-guide Vib. Roller	hr	0.0	3.4	8.3	24.8	0.0	36.5
Tire Roller	hr	179.1	587.4	500.0	629.1	0.0	1895.6
Vibratory Roller (D&I)	hr	442.2	617.9	1266.7	702.4	0.0	3029.2
Hydraulic Excavator; Wheel	hr	1.3	0.0	450.0	0.0	0.0	451.3
Wheel Loader	hr	682.8	1136.3	2236.7	1221.1	0.0	5276.9
Water Tank Truck	hr	280.3	337.6	756.2	425.1	0.0	1799.2
Dump Truck	hr	5096.8	8672.7	15747.2	9738.2	0.0	39254.9
Flat Bed Truck with Crane	hr	0.0	4.0	9.6	32.7	0.0	46.3
Flat Bed Truck	hr	215.0	706.4	603.3	755.0	0.0	2279.7
Portable Crusher/Screening	hr	140.3	269.9	417.0	294.7	0.0	1121.9
Concrete Mixer	hr	0.0	0.8	2.0	0.0	0.0	2.8
Water Pump	hr	0.0	0.8	2.0	0.0	0.0	2.8
Concrete Vibrator	hr	0.0	0.8	2.0	0.0	0.0	2.8
Asphalt Sprayer	hr	179.1	587.4	500.0	629.1	0.0	1895.6
LABOUR :							
Handur	man day	284.5	650.7	966.2	782.3	0.0	2683.7
Skilled Labourer	man day	107.5	355.9	308.3	674.0	0.0	1445.7
Carpenter	man day	0.0	0.2	0.6	163.6	0.0	164.4
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	2418.3	7313.1	8168.3	8727.4	0.0	26627.1
Driver	man day	980.0	1769.9	2982.7	1999.3	0.0	7731.9
Operator	man day	519.8	938.3	1722.4	988.3	0.0	4168.8
MATERIAL :							
Bitumen	l	36729.1	120437.4	117999.9	129006.1	0.0	404172.5
Asphalt Oil	l	7345.8	24087.5	17300.0	25795.8	0.0	74529.1
Kerosene	l	8779.1	28787.4	24099.9	30832.1	0.0	92498.5
Sand	m ³	107.5	356.7	250.1	378.0	0.0	1092.3
Cement	bag	0.0	12.5	30.0	0.0	0.0	42.5
River Stone	m ³	0.0	0.0	0.0	0.0	0.0	0.0
Steel Moulds	set	0.0	5.0	12.0	0.0	0.0	17.0
Timber	m ³	0.0	0.0	0.0	22.9	0.0	22.9
Paint	l	0.0	0.0	0.0	0.0	0.0	0.0
Reinforcing Steel	kg	0.0	159.5	382.8	0.0	0.0	542.3
Tying Wire	kg	0.0	1.4	3.4	0.0	0.0	4.8
Equivalent Royalty	m ³	10615.1	14119.0	28648.8	17259.8	0.0	70642.7

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

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
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	523.3	1044.5	977.0	992.5	0.0	3537.3
Hand-guide Vib. Roller	hr	202.5	495.0	765.0	915.0	0.0	2377.5
Tire Roller	hr	523.3	1044.5	977.0	992.5	0.0	3537.3
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	182.0	370.3	373.8	403.0	0.0	1329.1
Water Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Dump Truck	hr	1497.4	3212.0	3772.7	4247.1	0.0	12729.2
Flat Bed Truck with Crane	hr	2115.9	4398.0	4469.9	4461.6	0.0	15445.4
Flat Bed Truck	hr	2098.3	4260.6	4223.1	4388.5	0.0	14970.5
Portable Crusher/Screening	hr	91.3	186.0	188.3	203.1	0.0	668.7
Concrete Mixer	hr	0.2	0.5	0.5	0.2	0.0	1.4
Water Pump	hr	0.2	0.5	0.5	0.2	0.0	1.4
Concrete Vibrator	hr	0.2	0.5	0.5	0.2	0.0	1.4
Asphalt Sprayer	hr	0.0	0.0	0.0	0.0	0.0	0.0
LABOUR :							
Mandur	man day	787.5	1634.3	1726.6	1836.3	0.0	5984.7
Skilled Labourer	man day	702.5	1511.2	1711.2	1828.7	0.0	5753.6
Carpenter	man day	304.5	633.8	644.5	654.1	0.0	2236.9
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	8718.2	18095.2	19200.7	20496.7	0.0	66510.8
Driver	man day	1051.1	2184.6	2286.9	2392.4	0.0	7915.0
Operator	man day	235.2	472.0	451.0	465.9	0.0	1624.1
MATERIAL :							
Bitumen	l	1822.5	4455.0	6885.0	8235.0	0.0	21397.5
Asphalt Oil	l	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	l	202.5	495.0	765.0	915.0	0.0	2377.5
Sand	m ³	33.9	83.0	128.0	152.7	0.0	397.6
Cement	bag	4.0	8.1	8.1	4.0	0.0	24.2
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	27.6	57.4	58.4	59.4	0.0	202.8
Paint	l	196.8	409.6	416.5	423.2	0.0	1446.1
Reinforcing Steel	kg	20.8	41.6	41.6	20.8	0.0	124.8
Tying Wire	kg	0.1	0.3	0.3	0.1	0.0	0.8
Equivalent Royalty	m ³	2579.9	5247.9	5297.4	5709.4	0.0	18834.6

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

PROV : KALINANTAN SELATAN KAB : HULU SUNGAI SELATAN

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	187.9	403.5	862.0	359.0	0.0	1812.4
Swamp Bulldozer	hr	0.2	0.0	14.0	0.0	0.0	14.2
Motor Grader	hr	1103.8	1933.4	2671.3	1959.9	0.0	7668.4
Hand-guide Vib. Roller	hr	202.5	498.4	773.3	939.8	0.0	2414.0
Tire Roller	hr	702.4	1631.9	1477.0	1621.6	0.0	5432.9
Vibratory Roller (D&T)	hr	442.2	617.9	1266.7	702.4	0.0	3029.2
Hydraulic Excavator; Wheel	hr	1.3	0.0	450.0	0.0	0.0	451.3
Wheel Loader	hr	864.8	1506.6	2610.5	1624.1	0.0	6606.0
Water Tank Truck	hr	280.3	337.6	756.2	425.1	0.0	1799.2
Dump Truck	hr	6594.2	11084.7	19519.9	13985.3	0.0	51984.1
Flat Bed Truck with Crane	hr	2115.9	4402.0	4479.5	4494.3	0.0	15491.7
Flat Bed Truck	hr	2313.3	4967.0	4826.4	5143.5	0.0	17250.2
Portable Crusher/Screening	hr	231.6	455.9	605.3	497.8	0.0	1790.6
Concrete Mixer	hr	0.2	1.3	2.5	0.2	0.0	4.2
Water Pump	hr	0.2	1.3	2.5	0.2	0.0	4.2
Concrete Vibrator	hr	0.2	1.3	2.5	0.2	0.0	4.2
Asphalt Sprayer	hr	179.1	587.4	500.0	629.1	0.0	1895.6
LABOUR :							
Handur	man day	1072.0	2285.0	2692.8	2618.6	0.0	8668.4
Skilled Labourer	man day	810.0	1867.1	2019.5	2502.7	0.0	7199.3
Carpenter	man day	304.5	634.0	645.1	817.7	0.0	2401.3
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	11136.5	25408.3	27369.0	29224.1	0.0	93137.9
Driver	man day	2031.1	3954.5	5269.6	4391.7	0.0	15646.9
Operator	man day	755.0	1410.3	2173.4	1454.2	0.0	5792.9
MATERIAL :							
Bitumen	l	38551.6	124892.4	124884.9	137241.1	0.0	425570.0
Asphalt Oil	l	7345.8	24087.5	17300.0	25795.8	0.0	74529.1
Kerosene	l	8981.6	29282.4	24864.9	31747.1	0.0	94876.0
Sand	m ³	141.4	439.7	378.1	530.7	0.0	1489.9
Cement	bag	4.0	20.6	38.1	4.0	0.0	66.7
River Stone	m ³	0.0	0.0	0.0	0.0	0.0	0.0
Steel Moulds	set	0.0	5.0	12.0	0.0	0.0	17.0
Timber	m ³	27.6	57.4	58.4	82.3	0.0	225.7
Paint	l	196.8	409.6	416.5	423.2	0.0	1446.1
Reinforcing Steel	kg	20.8	201.1	424.4	20.8	0.0	667.1
Tying Wire	kg	0.1	1.7	3.7	0.1	0.0	5.6
Equivalent Royalty	m ³	13195.0	19366.9	33946.2	22969.2	0.0	89477.3

Appendix A-5

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

PROV : KALIMANTAN SELATAN

KAB : HULU SUNGAI SELATAN

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		64,623	114,352	208,296	125,030	0	512,301
Bulldozer/Ripper	16224	3,048	6,546	13,985	5,824	0	29,403
Swamp Bulldozer	11917	2	0	166	0	0	168
Motor Grader	13810	8,016	12,275	23,398	13,359	0	57,048
Hand-guide Vib. Roller	1574	0	5	13	39	0	57
Tire Roller	11208	2,007	6,583	5,604	7,050	0	21,244
Vibratory Roller (D&I)	6879	3,041	4,250	8,713	4,831	0	20,835
Hydraulic Excavator; Wheel	13051	16	0	5,872	0	0	5,888
Wheel Loader	16964	11,583	19,276	37,943	20,714	0	89,516
Water Tank Truck	4106	1,150	1,386	3,104	1,745	0	7,385
Dump Truck	5569	28,384	48,298	87,696	54,232	0	218,610
Flat Bed Truck with Crane	5190	0	20	49	169	0	238
Flat Bed Truck	3491	750	2,466	2,106	2,635	0	7,957
Portable Crusher/Screening	44642	6,263	12,048	18,615	13,155	0	50,081
Concrete Mixer	8675	0	6	17	0	0	23
Water Pump	489	0	0	0	0	0	0
Concrete Vibrator	324	0	0	0	0	0	0
Asphalt Sprayer	2031	363	1,193	1,015	1,277	0	3,848
LABOUR :		9,051	22,136	29,543	26,723	0	87,453
Handur	2000	569	1,301	1,932	1,564	0	5,366
Skilled Labourer	2250	241	800	693	1,516	0	3,250
Carpenter	2500	0	0	1	409	0	410
Mason	2500	0	0	0	0	0	0
Labourer	1750	4,232	12,797	14,294	15,272	0	46,595
Driver	2500	2,450	4,424	7,456	4,998	0	19,328
Operator	3000	1,559	2,814	5,167	2,964	0	12,504
MATERIAL :		27,788	86,228	81,987	94,317	0	290,320
Bitumen	450	16,528	54,196	53,099	58,052	0	181,875
Asphalt Oil	800	5,876	19,270	13,840	20,636	0	59,622
Kerosene	250	2,194	7,196	6,024	7,708	0	23,122
Sand	5000	537	1,783	1,250	1,890	0	5,460
Cement	1350	0	54	130	0	0	184
River Stone	7750	0	0	0	0	0	0
Steel Moulds	8000	0	40	96	0	0	136
Timber	75000	0	0	0	1,717	0	1,717
Paint	2100	0	0	0	0	0	0
Reinforcing Steel	1000	0	159	382	0	0	541
Wiring Wire	1200	0	1	4	0	0	5
Equivalent Royalty	250	2,653	3,529	7,162	4,314	0	17,658

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

PROV : KALIMANTAN SELATAN

KAB : TAPIN

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		29,598	58,457	61,201	64,648	74,098	288,002
Bulldozer/Ripper	15446	0	0	0	0	0	0
Swamp Bulldozer	11326	0	0	0	0	0	0
Motor Grader	13198	3,121	6,217	6,207	6,208	7,166	28,919
Hand-guide Vib. Roller	1529	825	1,613	1,798	1,720	2,213	8,369
Tire Roller	10392	2,457	4,895	4,887	4,888	5,642	22,769
Vibratory Roller (D&T)	6602	0	0	0	0	0	0
Hydraulic Excavator; Wheel	12316	0	0	0	0	0	0
Wheel Loader	16368	1,646	3,355	3,563	3,751	4,599	16,914
Water Tank Truck	3776	0	0	0	0	0	0
Dump Truck	5209	8,769	17,394	19,048	20,245	23,853	89,309
Flat Bed Truck with Crane	4860	6,411	12,267	12,417	13,915	14,495	59,505
Flat Bed Truck	3161	4,180	8,258	8,544	8,732	10,023	39,737
Portable Crusher/Screening	42658	2,188	4,457	4,735	4,988	6,104	22,470
Concrete Mixer	8630	1	1	2	3	3	10
Water Pump	459	0	0	0	0	0	0
Concrete Vibrator	294	0	0	0	0	0	0
Asphalt Sprayer	1986	0	0	0	0	0	0
LABOUR :		21,831	42,909	45,339	47,867	54,179	212,125
Handur	3000	1,938	3,814	4,033	4,232	4,815	18,832
Skilled Labourer	2500	1,775	3,458	3,665	4,126	4,403	17,427
Carpenter	3250	610	1,185	1,189	1,417	1,388	5,789
Mason	3250	0	0	0	0	0	0
Labourer	2000	14,712	28,958	30,718	31,993	36,689	143,070
Driver	3000	2,346	4,590	4,813	5,162	5,781	22,692
Operator	4000	450	904	921	937	1,103	4,315
MATERIAL :		3,927	7,670	8,152	9,106	9,875	38,730
Bitumen	275	1,336	2,611	2,910	3,109	3,582	13,548
Asphalt Oil	700	0	0	0	0	0	0
Kerosene	250	135	263	294	314	361	1,367
Sand	4500	405	792	883	943	1,087	4,110
Cement	5000	16	21	27	32	32	128
River Stone	10000	0	0	0	0	0	0
Steel Moulds	8000	0	0	0	0	0	0
Timber	80000	1,360	2,648	2,648	3,160	3,096	12,912
Paint	2500	303	589	591	704	689	2,876
Reinforcing Steel	1000	16	21	28	33	33	131
Tying Wire	1200	0	0	0	0	0	0
Equivalent Royalty	250	356	725	771	811	995	3,658

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

PROV : KALIMANTAN SELATAN

KAB : HULU SUNGAI SELATAN

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		111,040	211,434	307,643	229,329	0	860,246
Bulldozer/Ripper	16224	3,048	6,546	13,985	5,824	0	29,403
Swamp Bulldozer	11917	2	0	166	0	0	168
Motor Grader	13810	15,242	26,699	36,890	27,065	0	105,896
Hand-guide Vib. Roller	1574	318	784	1,217	1,479	0	3,798
Tire Roller	11208	7,872	18,289	16,554	18,173	0	60,888
Vibratory Roller (D&T)	6879	3,041	4,250	8,713	4,831	0	20,835
Hydraulic Excavator; Wheel	13051	16	0	5,872	0	0	5,888
Wheel Loader	16964	14,670	25,557	44,284	27,550	0	112,061
Water Tank Truck	4106	1,150	1,386	3,104	1,745	0	7,385
Dump Truck	5569	36,723	66,185	108,706	77,884	0	289,498
Flat Bed Truck with Crane	5190	10,981	22,845	23,247	23,324	0	80,397
Flat Bed Truck	3491	8,075	17,339	16,848	17,955	0	60,217
Portable Crusher/Screening	44642	10,338	20,351	27,021	22,221	0	79,931
Concrete Mixer	8675	1	10	21	1	0	33
Water Pump	489	0	0	0	0	0	0
Concrete Vibrator	324	0	0	0	0	0	0
Asphalt Sprayer	2031	363	1,193	1,015	1,277	0	3,848
LABOUR :		31,555	68,931	79,128	79,391	0	259,005
Handur	2000	2,144	4,569	5,385	5,236	0	17,334
Skilled Labourer	2250	1,821	4,200	4,543	5,630	0	16,194
Carpenter	2500	761	1,584	1,612	2,044	0	6,001
Mason	2500	0	0	0	0	0	0
Labourer	1750	19,488	44,463	47,895	51,141	0	162,987
Driver	2500	5,077	9,885	13,173	10,979	0	39,114
Operator	3000	2,264	4,230	6,520	4,361	0	17,375
MATERIAL :		31,991	95,322	92,570	105,820	0	325,703
Bitumen	450	17,348	56,200	56,197	61,757	0	191,502
Asphalt Oil	800	5,876	19,270	13,840	20,636	0	59,622
Kerosene	250	2,244	7,319	6,215	7,936	0	23,714
Sand	5000	706	2,198	1,890	2,653	0	7,447
Cement	4350	17	89	165	17	0	288
River Stone	7750	0	0	0	0	0	0
Steel Moulds	8000	0	40	96	0	0	136
Timber	75000	2,070	4,305	4,380	6,172	0	16,927
Paint	2100	413	860	874	888	0	3,035
Reinforcing Steel	1000	20	200	423	20	0	663
Tying Wire	1200	0	1	4	0	0	5
Equivalent Royalty	250	3,297	4,840	8,486	5,741	0	22,364

Appendix A-6

QUANTITIES OF BRIDGE ON PROPOSED ROAD LINKS

PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO	BRIDGE NAME	Km	From	<< TYPE >>		DESIGN LOAD CLASS	SPAN LENGTH (m)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (m)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)						(EXIST)	(NEW)			
126	TANGGUL 1	2	BAGO	KK		7.00	2	3.50	3.60	25.20			1	2	111B-2
	TANGGUL 2	3	BAGO	KK		10.00	3	3.33	3.50	35.00			2	2	
	TARATAI 1	3	BAGO	KK		8.00	2	4.00	3.50	28.00			1	2	
	TARATAI 2	4	BAGO	KK		7.00	2	3.50	3.60	25.20			1	2	
140	BAYUR	3	BAUR	KK		20.00	4	5.00	3.60	72.00			3	2	111A
152	BT.KULUR I	1	BTKR	KK		4.00	1	4.00	3.60	14.40			0	2	111B-1
	BT.KULUR II	2	BTKR	KK		4.00	1	4.00	3.60	14.40			0	2	
	BT.KULUR III	4	BTKR	KK		4.00	1	4.00	3.60	14.40			0	2	

PROV : KALIMANTAN SELATAN

KAB : HULU SUNGAI SELATAN

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)			
25	ANAHANG	3	AMWG	KK				3.50	1	3.50	3.60	12.60		0	2	IIIB-2
48	TANJUNGAN	2	SPIO	KK				10.00	2	5.00	3.60	36.00		1	2	IIIB-2
50	BTG KULUR	1	BKTG	KK				3.00	1	3.00	3.60	10.80		0	2	IIIA
	BTG KULUR2	1	BKTG	KK				11.00	3	3.67	3.60	39.60		2	2	
52	ASAM	1	SIPR	KK				4.00	1	4.00	3.60	14.40		0	2	IIIB-1
	ASAM1	2	SIPR	KK				4.00	1	4.00	3.60	14.40		0	2	
	ASAM2	4	SIPR	KK				4.00	1	4.00	3.60	14.40		0	2	
57	MALUTU	3	MLTU	KK				3.00	1	3.00	3.60	10.80		0	2	IIIC
60	TANIRAN	1	TNRN	KK				13.00	3	4.33	3.60	46.80		2	2	IIIB-1
	TANIRAN I	4	BKRG	KK				11.50	3	3.83	3.60	41.40		2	2	
65	MANDAMPA	3	AGKG	GB				22.00	3	7.33	3.60	79.20		2	2	IIIB-1
81	MADANG	1	MDS	KK				4.00	1	4.00	3.60	14.40		0	2	IIIB-1
82	MANDAPAI I	1	MNDP	PB				4.00	1	4.00	3.60	14.40		0	2	IIIB-1
	MANDAPAI II	1	MNDP	PB				6.00	2	3.00	3.60	21.60		1	2	
	MAWANGI I	2	MNDP	PB				6.00	2	3.00	3.60	21.60		1	2	
	MAWANGI II	3	MNDP	PB				4.00	1	4.00	3.60	14.40		0	2	
	TANDUI I	4	MNDP	KK				6.00	2	3.00	3.60	21.60		1	2	
	TANDUI II	5	MNDP	KK				10.50	3	3.50	3.60	37.80		2	2	
83	JELATANG I	1	PDBT	KK				27.00	5	5.40	3.60	97.20		4	2	IIIB-1
	JELATANG II	2	PDBT	KK				3.00	1	3.00	3.60	10.80		0	2	
	JELATANG III	3	PDBT	KK				3.00	1	3.00	3.60	10.80		0	2	
	JELATANG IV	3	PDBT	KK				4.00	1	4.00	3.60	14.40		0	2	
	JELATANG V	4	PDBT	KK				1.00	2	0.50	3.60	3.60		1	2	
87	JEMBATAN I	1	MDPA	KK				12.00	4	3.00	3.60	43.20		3	2	IIIB-1
	JEMBATAN II	2	MDPA	KK				9.50	3	3.17	3.60	34.20		2	2	
	JEMBATAN III	6	MDPA	KK				9.00	3	3.00	3.00	27.00		2	2	
91	JEMBATAN I	1	PGHR	KK				7.00	2	3.50	3.60	25.20		1	2	IIIC
	JEMBATAN II	4	PGHR	KK				8.00	2	4.00	3.60	28.80		1	2	
121	TANGGUL 1	1	TGGL	KK				4.00	1	4.00	3.60	14.40		0	2	IIIB-2
	TANGGUL 2	3	TGGL	KK				7.00	2	3.50	3.60	25.20		1	2	
	TANGGUL 3	5	TGGL	KK				3.00	1	3.00	3.60	10.80		0	2	
	TANGGUL 4	5	TGGL	KK				3.00	1	3.00	3.60	10.80		0	2	
	TANGGUL 5	5	TGGL	KK				4.00	1	4.00	3.60	14.40		0	2	
	TANGGUL 6	8	TGGL	KK				3.00	1	3.00	3.60	10.80		0	2	
123	PRTA BHLAYUNG1	2	PTBG	KK				4.00	1	4.00	3.00	12.00		0	2	IIIB-2
	PRTA BHLAYUNG2	3	PTBG	KK				4.00	1	4.00	3.00	12.00		0	2	
	PRTA BHLAYUNG3	4	PTBG	KK				4.00	1	4.00	3.00	12.00		0	2	
	PRTA BHLAYUNG4	4	PTBG	KK				4.00	1	4.00	3.00	12.00		0	2	

Appendix A-7

CONSTRUCTION AND MAINTENANCE COST OF BRIDGES
ON PROPOSED ROAD LINKS

PROV : KALIMANTAN SELATAN KAB : HULLU SUNGAI SELATAN

LINK NO : 25 (IIB-2) LENGTH : 4 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m ²	0.00	34,583	3,107	0	0	0
Superstructure (Timber; Span 5m; 10T)	m ²	0.00	38,306	3,431	0	0	0
Superstructure (Timber; Span 8m; 10T)	m ²	0.00	50,736	4,509	0	0	0
Superstructure (Timber; Span 3m; BM50)	m ²	0.00	42,882	3,842	0	0	0
Superstructure (Timber; Span 5m; BM50)	m ²	0.00	46,813	4,165	0	0	0
Superstructure (Timber; Span 8m; BM50)	m ²	0.00	59,371	5,273	0	0	0
Superstructure (Concrete; Span 3m; BM50)	m ²	0.00	41,322	105,105	0	0	0
Superstructure (Concrete; Span 5m; BM50)	m ²	0.00	42,593	117,578	0	0	0
Superstructure (Concrete; Span 8m; BM50)	m ²	0.00	43,993	128,145	0	0	0
Superstructure (Concrete; Span 10m; BM50)	m ²	0.00	48,214	145,655	0	0	0
Superstructure (Concrete; Span 15m; BM50)	m ²	0.00	52,212	171,719	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier; for Timber; BM50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut; for Timber; BM50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier; for Concrete; BM50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut; for Concrete; BM50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m ²	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m ²	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m ²	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m ²	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	12.60	7,111	2,360	89,598	29,736	119,334
Maintenance of Concrete Bridge (Exist)	m ²	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 4B (IIIB-2) LENGTH : 3 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BM50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BM50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BM50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BM50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BM50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BM50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;BM50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;BM50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BM50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BM50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BM50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BM50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	36.00	7,111	2,360	255,996	84,960	340,956
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 50 (IIIA) LENGTH : 3 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BH50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BH50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BH50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BH50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BH50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BH50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;BH50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;BH50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	50.40	7,111	2,360	358,394	118,944	477,338
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 52 (IIIB-1) LENGTH : 5 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,503	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BH50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BH50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BH50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BH50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BH50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BH50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;BH50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;BH50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	43.20	7,111	2,360	307,195	101,932	409,147
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 57 (IIIC) LENGTH : 7 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BM50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BM50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BM50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BM50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BM50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BM50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;BM50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;BM50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BM50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BM50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BM50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BM50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	10.80	7,111	2,360	76,798	25,488	102,286
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 60 (IIB-1) 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	34,583	3,107	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3a;BH50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5a;BH50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8a;BH50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3a;BH50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5a;BH50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8a;BH50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10a;BH50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15a;BH50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	88.20	7,111	2,360	627,190	208,152	835,342
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 65 (IIIB-1) LENGTH : 6 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber; Span 3m; BNSO)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber; Span 5m; BNSO)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber; Span 8m; BNSO)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete; Span 3m; BNSO)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete; Span 5m; BNSO)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete; Span 8m; BNSO)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete; Span 10m; BNSO)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete; Span 15m; BNSO)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier; for Timber; 10T)	N0	0.00	301,321	28,755	0	0	0
Substructure (Abut; for Timber; 10T)	N0	0.00	865,439	140,298	0	0	0
Substructure (Pier; for Timber; BNSO)	N0	0.00	443,165	42,543	0	0	0
Substructure (Abut; for Timber; BNSO)	N0	0.00	972,620	155,128	0	0	0
Substructure (Pier; for Concrete; BNSO)	N0	0.00	1,617,523	464,086	0	0	0
Substructure (Abut; for Concrete; BNSO)	N0	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,111	2,360	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	79.20	4,178	2,436	330,897	192,931	523,828
<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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : B1 (III B-1) LENGTH : 2 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BMSO)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BMSO)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BMSO)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BMSO)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BMSO)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BMSO)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;BMSO)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;BMSO)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BMSO)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BMSO)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BMSO)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BMSO)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	14.40	7,111	2,360	102,398	33,984	136,382
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : B2 (IIIB-1) LENGTH : 5 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;101)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5a;101)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8a;101)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3a;BH50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5a;BH50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8a;BH50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3a;BH50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5a;BH50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8a;BH50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10a;BH50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15a;BH50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;101)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;101)	NO	0.00	885,439	140,298	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	59.40	7,111	2,360	422,393	140,184	562,577
Maintenance of Concrete Bridge (Exist)	m2	72.00	4,178	2,436	300,816	175,392	476,208

(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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : B3 (IIB-1) LENGTH : 5 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;IOT)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5m;IOT)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;IOT)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BMSO)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BMSO)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BMSO)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BMSO)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BMSO)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BMSO)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;BMSO)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;BMSO)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;IOT)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;IOT)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BMSO)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BMSO)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BMSO)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BMSO)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	136.80	7,111	2,360	972,784	322,848	1,295,632
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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
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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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK NO : 07 (III-B-1) LENGTH : 8 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;8M50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;8M50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;8M50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;8M50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;8M50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;8M50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;8M50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;8M50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;8M50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;8M50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;8M50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;8M50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	104.40	7,111	2,360	742,388	246,384	988,772
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 91 (IIC) LENGTH : 5 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3a;BM50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5a;BM50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8a;BM50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3a;BM50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5a;BM50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8a;BM50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10a;BM50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15a;BM50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	m0	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	m0	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BM50)	m0	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BM50)	m0	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BM50)	m0	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BM50)	m0	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	54.00	7,111	2,360	383,994	127,440	511,434
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 121 (IIIB-2) LENGTH : 8 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3a;BMSO)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5a;BMSO)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8a;BMSO)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3a;BMSO)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5a;BMSO)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8a;BMSO)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10a;BMSO)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15a;BMSO)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BMSO)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BMSO)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BMSO)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BMSO)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	86.40	7,111	2,360	614,390	203,904	818,294
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 123 (IIIB-2) LENGTH : 7 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,593	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BM50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BM50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BM50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BM50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BM50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BM50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span 10m;BM50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span 15m;BM50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BM50)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BM50)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BM50)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BM50)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	48.00	7,111	2,360	341,328	113,280	454,608
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN BELATAN KAB : HULU SUNGAI SELATAN
LINK NO : 126 (IIIB-2) LENGTH : 7 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	301,321	28,755	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	865,439	140,298	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	443,165	42,543	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	972,620	155,128	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,617,523	464,086	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	113.40	7,111	2,360	806,387	267,624	1,074,011
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULLU SUNGAI SELATAN
 LINK NO : 140 (IIIA) LENGTH : 5 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;BMSO)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5m;BMSO)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8m;BMSO)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3m;BMSO)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5m;BMSO)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8m;BMSO)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span10m;BMSO)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span15m;BMSO)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	M0	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	M0	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BMSO)	M0	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BMSO)	M0	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BMSO)	M0	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BMSO)	M0	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	72.00	7,111	2,360	511,992	169,920	681,912
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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 : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN
 LINK NO : 152 (IIB-1) LENGTH : 3 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	34,583	3,107	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	38,306	3,431	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	50,736	4,509	0	0	0
Superstructure (Timber;Span 3a;BH50)	m2	0.00	42,882	3,842	0	0	0
Superstructure (Timber;Span 5a;BH50)	m2	0.00	46,813	4,165	0	0	0
Superstructure (Timber;Span 8a;BH50)	m2	0.00	59,371	5,273	0	0	0
Superstructure (Concrete;Span 3a;BH50)	m2	0.00	41,322	105,105	0	0	0
Superstructure (Concrete;Span 5a;BH50)	m2	0.00	42,593	117,578	0	0	0
Superstructure (Concrete;Span 8a;BH50)	m2	0.00	43,993	128,145	0	0	0
Superstructure (Concrete;Span 10a;BH50)	m2	0.00	48,214	145,655	0	0	0
Superstructure (Concrete;Span 15a;BH50)	m2	0.00	52,212	171,719	0	0	0
Substructure (Pier;for Timber;10T)	m0	0.00	301,321	28,755	0	0	0
Substructure (Abut;for Timber;10T)	m0	0.00	865,439	140,298	0	0	0
Substructure (Pier;for Timber;BH50)	m0	0.00	443,165	42,543	0	0	0
Substructure (Abut;for Timber;BH50)	m0	0.00	972,620	155,128	0	0	0
Substructure (Pier;for Concrete;BH50)	m0	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BH50)	m0	0.00	3,382,742	977,597	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	9,818	1,231	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	74,919	79,345	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,663	2,961	0	0	0
Maintenance of Timber Bridge (Exist)	m2	43.20	7,111	2,360	307,195	101,952	409,147
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,178	2,436	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

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