APPENDIX

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

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	KALIMANTAN SELATAN			LATAN SURVE	Y YEAR: 198
Code No.	KECAMATAN NAME	CULTIVATED AREA : (PA)	YIELD	FARMER'S	CIRCULATED COMMODITY
01	CHAIT A. PANA			(AP)	(PG)
·*****	SUNGAI RAYA	2,922	4.4	9,820	2,100
0 <u>2</u> . 03	PADANG BATUNG	1,373	3.5	9,590	3,000
	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	9,480	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
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p						,		
		r,	r2	r3	r.q		FARMER'S CONSUMPTION : (Cp)	NON-AGRO REOUIRMENT : (NG)
A	NNUAL % VERAGE ROWTH RATE	5.1	2.0	3.0	5.0		0.26 Ton/head/year	0.015 Ton/

	SEDAN	BUS	TRUCK	MOTOR CYCLE	[AVERAGE	
RATE OF EACH VEHICLE TYPE %	20.22	0.97	15.25	63.56		FRE1GHT TONAGE	0.6 Ton/Truck

Appendix A-2 Engineering Data

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PROVINCE : Kalimantan Selatan

KABUPATEN: Hulu Sungai Selatan

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LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH T NAME & L		D 2014 D 12 0
NO.	(DESA NAME)	(DESA NAME)	(км)	KEC. NAME	LENGTH (KM)	- REMARKS
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	J1.May.Jend. Soetoyo		-	Kandangan	-	Dalam Kota
06	Pasar Kan- dangan		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 Teh- nik		-	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 Su- giarto		-	Kandangan	-	Dalam Kota
20	Panglima Ba- tur		1	Kandangan	1	Dalam Kota
21	Patigan	Gambir	6	Kandangan	6	
22	Sungai Pa- ring	Patigan	4	Kandangan	4	
23	Sungai Da- nang	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.

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<u>PROVINCE : Kalimantan Sela</u>tan

KABUPATEN: Hulu Sungai Selatan

LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LE		- RENARKS
NO.	(DESA NAME)	(DESA NAME)	(км)	KEC. NAME	LENGTH (KM)	
25	Amawang	Wasah Hulu	4	Kandangan Simpur	2	
26	May.Jend.D.I Panjaitan			Kandangan	-	-
2.7						
27 а	Jambu Hulu	Baluti	4	Kandangan	4	ILN.No. 142
28						
29	Baluti	Amawang	2	Kandangan	2	
29 a	Asam Cangkok	Hamalau	4	Kandangan Simpur Sungai Raya	1:3	ILN.No. 143
29 Ъ	Hamalau	Telaga Bida- dari	2	Simpur Sungai Raya		11LN.No. 144
29 c	Hamalau	Sarang Halang	1	Sungai Raya	1	ILN.No. 145
30	J1.Singakarsa			Kandangan		Dalam Kota
31	Sei.Kupang U- tara	Simpang Em- pat	6	Kandangan	6	
32	Tanayung	Sp.Ambarai	2	Padang Batung	2	
33	Bakarung	Rantauan	3	Kandangan	3	1
33 a	Taniran Sela- tan	Gambah Dalam	1	Kandangan	1	1LN.No. 147
34						
35						
36	Bakarung	Tabihi	3	Kandangan	3	
36 a	Kalang Jawa	Bakarung Se- latan	4	Kandangan	4	ILN.No. 148
37	Muara Banta	Karang Jawa	2	Kandangan	2	
38	Wasah Hulu	Wasah Hilir	7	Simpur	7	
39	Ulin	Amparaya	3	Simpur	3	1
40	Wasah Hilir	Telaga Bida- dari	5	Simpur	5	1
40 a	Wasah Tengah	Sungai Tarap	3	Simpur Sungai Raya	2.5 0.5	ILN.No. 149
4.0 Ъ	Sarang Halang	Wasah Hilir	2	Simpur Sungai Raya	1	ILN.No. 150

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	BEGINNING POINT	END POINT	LENGTH	THROUGH T NAME & LE		
NO.	(DESA NAME)	(DESA NAME)	(KM)	KEC. NAME	LENGTH (KM)	- REMARKS
41			r.			
42	Simpur	Simp.Bilui	1	Simpur Sungai Raya	0.5	
43	Bilui Pemuja- an	Simpur	2	Simpur Sungai Raya	1 1 1 1	
44	Kelumpang	Balímau	5	Kelumpang	5	<u>}</u>
45	Getek	Pantai Ulin	2	Kandangan	2	-
45 a	Sungai Hanyar	Sungai Paring	8	Simpur	8	ILN.No. 151
46	Tajun	Bilui Pemuja- an	6	Sungai Raya	6	
47	Sungaí Kali	Paring Agung	2	Sungai Raya	2	
48	Tanjungan	Batang Kulur Tengah	3	Sungai Raya	3	1
49	Sungai Raya Selatan	Sarang Halang	3	Sungai Raya	3	-
50	Batang Kulur Tengah	Tatas	3	Sungai Raya	3	
50 a	Sp. 10	Sp. Batang Kulur	3	Sungai Raya	3	ILN.No. 152
51	Sungai Kalí	Sp. Batang Kulur	2	Sungai Raya	2	
52	Bilui Pemuja- an	Sp. Batang Kulur	5	Sungai Raya	5	-
53	Batang Kulur Tengah	Jarau	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	Malutu	7	Sungai Raya Padang Batung	6	
57 a	Sungai Raya Selatan	Tanah Bang- kang	2	Sungai Raya	2	ILN.No. 153
58						
59	Pandulangan	Kalin Duku	4	Angkinang Padang Batung	2.5 1.5	-
60	Tirta Bahala- yung	Taniran Se- latan	7	Kandangan Angkinang	<u>6</u> 1	
61	Tawia	Angkinang Se- latan	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	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LE		- REMARKS	
NO.	(DESA NAME)	(DESA NAME)	(KM)	KEC. NAME	LENGTH (KM)		
62	Tawia	Kayu Abang	2	Angkinang	2		
63	Kayu Abang	Panggang Hi- jau	2	Angkinang	2		
64	Tangang	Bamban Sela- tan	1	Angkinang	1		
65	Angkinang	Telaga Lang~ sat	6	Angkinang Telaga Langsat	2.5 3.5		
66	Pakuan	Bamban Sela- tan	3	Telaga Langsat Angkinang	1 2	_	
67	Bamban utara	Langawang	2	Telaga Langsat Angkinang	1		
68	Kayu Abang	Angkinang	4	Angkinang	4		
68 a	Bamban Te- ngah	Lok Nyiur	2	Angkinang	2	ILN.No. 154	
69	Sp.Mandampa	Sp. Sungai Bungur	5	Angkinang Padang Batung	4	-	
70	Telaga Lang- sat	Pakuan	3	Telaga Lang-	3	1	
71	Langawang	Gumbil	2	Telaga Lang- sat	2	1	
72							
73	Mandampa	Langawang	3	Telaga Lang- sat	3		
74							
75	Gumbil	Masímpan	5	Telaga Lang~ sat	5		
76	Tabihi	Telaga Lang- sat	9	Telaga Langsat Padang Batung	3	-	
77	Telaga Lang- sat	Penyebrangan	6	Telaga Langsat	6	1	
78			····				
79	Karang Jawa	Tabihi	1	Kandangan	1		
80	Karang Jawa	Ambaraí	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.

7

ROAD LINK DATA

PROVINCE : Kalimantan Selatan KABUPATEN: Hulu Sungai Selatan

LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LE		ND14 DUG
NO.	(DESA NAME)	NAME) (DESA NAME) (K		KEC. NAME	LENGTH (KM)	REMARKS
85			2			
86	Mawangi	Bukuanin	6	Padang Batung	6	
87	Mendapai	Madang	8	Padang Batung	8	
88	Padang Batung	Mendapai	4	Padang Batung	4	
89						<u></u>
90	Kalereng	Sp. Padang Batung	6	Padang Batung	6	
91	Pagar Haur	Malutu	5	Padang Batung	5	
92						
93	Tumbukan Ba- nyu	Banua Hanyar	6	Daha Selatan	6	
94	Pakan Dalam	Bajayau	12	Daha Utara Daha Selatan	4 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.

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PROVINCE : Kalimantan Selatan

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KABUPATEN: Hulu Sungai Selatan

I.INK	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LE		REMARKS
NO.	(DESA NAME)	(DESA NAME)	(км)	KEC. NAME	LENGTH (KM)	- REPIARES
108	Siang Gantung	Samuda	3	Daha Selatan	3	
108 a	Keminting Ba- tu	Pakan Dalam	3	Daha Utara	3	ILN.No. 156
109	Jl. Negara	Murung Raya	3	Daha Utara	3	
110	Sungai Manda- la	Baruh Kembang	1	Daha Utara	1	
111	Sungai Manda- la	Pasungkan	10	Daha Utara	10	
112						
113						
114						
115	Kapuh	Baruh Kembang	1	Daha Utara	1	
116						
117						
118						
119						
120	Símpang Em- pat	Bangkau	6	Kandangan	6	
121	Kelumpang	Teratai	8	Simpur Kelumpang	5 3	-
122						
123	Simpang Em- pat	Bangkau	7	Kandangan	7	
124						
125	Amparaya	Simpur	1	Simpur	1	
126	Bage	Simpang Em- pat	7	Simpur Kelumpang	4 2	
• <u>•</u> ••••••••••••••••••••••••••••••••••				Kandangan	1	
127	Taal	Malutu	2	Sungai Raya	1	
128	Paku	Malutu	5	Sungai Raya Padang Batung	4	-]
129	Malutu	Tambak	4	Padang Batung		

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

PROVINCE : Kalimantan Selatan KABUPATEN: Hulu Sungai Selatan

LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LEI		REMARKS
NQ.	(DESA NAME)	(DESA NAME)	(KM)	KEC. NAME	LENGTH (KM)	KEPIAICKS
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	Getek	Simpang Em- pat	8	Kandangan	8	
136	Pahampangan Utara	Sp.Baluti	2	Kandangan	2	-
137	J1.Kamp.Jawa	J1.May.Jen.DI Panjaitan	······································	Kandangan		Dalam Kota
138	Gambah Luar	Gambah Dalam	2	Kandangan	2	
139						1
140	Ulin	Tanggul	5	Simpur	5	
141	Luaw	Sungai Bungur	3	Padang Batung	3	
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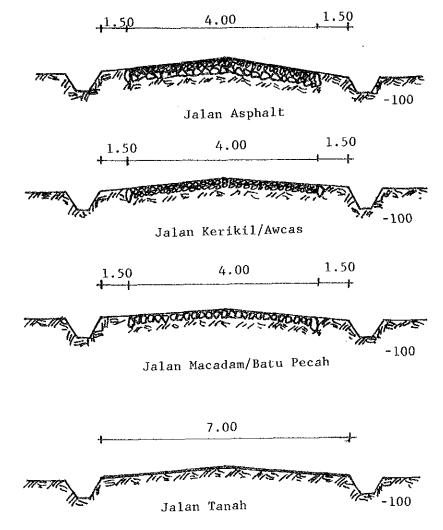
Please note the priority No. in the Remarks of this list for each links No. according to the each Kabupaten's development plan.

PROPINSI: Kalimantan Selatan KABUPATEN: Hulu Sungai Selatan

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.



E-03-(1)

KABUPATEN: Hulu Sungai LOCATION AND COSTS OF THE KABUPATEN

Selatan

ROADS CONSTRUCTED OR INPROVED IN 1980/1981

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1980/1981

LINK NO .: Nomor	LOCATION From - To	Lebar per- kerasan(m) Lebar	Type per- kerasan Type	LENGTH Panjang	COSTS Harga	REMARKS Keterang-
<u>Ruas</u> 24	(dari - ke) 3 Desember - Patigan	lembatan3.5	_lembatan Gravel	(KM) 3	(<u>Rp 10⁶)</u>	an
					14,725	
· 73	Mandampa - Longawang	3.5	Grave1	4.5	29,450	
81	Karang Jawa - Madang	3.5	Grave1	5	41,230	
			· · · · · · · · · · · · · · · · · · ·			44
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				-	-	
				-		

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

1. : Asphalt surface / penetrasi macadam

2. : Asphalt seal / pelaburan aspal

3. : Gravel / kerikil

ι

4. : Gravel /AWCAS / kerikil / japat

22-A-11

E-03-(2)

KABUPATEN:Hulu Sungai

Selatan

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1981/1982

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1981/1982

LINK NO .	LOCATION From - To	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang	COSTS Harga	REMARKS Keterang-
Nomor Ruas	(dari ~ ke)	Lebar _lembatan	Type Jembatan	(км)	(Rp 10 ⁶)	an
35 A	Bariang - Patigan	3.5	Gravel	3	18,050	, and and a second s
. 30.31	Kalian - Palas	3.5	Grave1	5	40,376	<u></u>
31 A	Sei Kupang - Tirta Baha- layung	3.5	Grave1	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	
			1		-	
	یر به می اور					

* 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

22-A-12

ថ

Selatan

KABUPATEN:Hulu Sungai

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1982/1983

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m) Lebar	Туре	LENCTH Panjang	COSTS Harga	REMARKS Keterang- an
40 C	Tajun - Sarang Halang	Jembatan3.5	Jembatan Gravel	(KM) 3	(Rp 10 ⁶) 25,650	
-40 D	Sarang Halang - Sei Kali	3.5	Gravel	3	26,220	
106	Panjampang - Bahagia	3.5	Gravel	3	46,075	an a
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 : Fls note the appropriate No. below.

1. : Asphalt surface / penetrasi macadam

2. : Asphalt seal / pelaburan aspal

3. : Gravel / kerikil

4. : Cravel /AWCAS / kerikil / japat

22-A-13

E-03-(3)

E-03-(4)

KABUPATEN:Hulu Sungai Selatan

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1983/1984

Biaya konstruksi penanganan

<u>jalan dan jembatan Kabupaten thn. 1983/1984</u>

LINK NO Nomor Ruas 138	LOCATION From ~ To (dari ~ ke) Kandangan Hulu - Parin- cahan	Lebar per- kerasan(m) Lebar .lembatan .3.5	Type per- kerasan Type Jembatan Gravel	LENGTH Panjang (KM) 5	COSTS Harga (Rp 10 ⁶) 82,650	REMARKS Keterang- an
109	Sei Garuda - Murung Raya	3.5	Gravel	2.25	53,200	· · · ·
57,129	Maharuangan - Malutu	3.5	Gravel	7	54,150	
	,					
	· ·	· .		,		
	مەم ئەرىلىلىغانىيەن بېھىلەردى بەر مەم بەر بەر بەر مەم <u>ھەر مەم بەر مەم مەم بەر مەر مەر مەر مەم مەم مەم مەر مەر م</u>					
·		-				· · ·

* 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

22-A-14

KABUPATEN: Hulu Sungai

Selatan

Sungai LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1984/1985

E-03-(5)

Biaya konstruksi penanganan

<u>jalan dan jembatan Kabupaten thn. 1984/1985</u>

LINK NO	LOCATION	Lebar per-	Type perr	LENGTH	COSTS	REMARKS
NO Nomor	From To	kerasan(m)		Panjang	Harga	Keterang;
Ruas	(dari ke)	Lebar Lembatan	Type <u>Jemharan</u> Asphalt Seal	(KM)	(Rp 10 ⁶)	an
•	Pd.Batung - Mawangi		Asphalt Seal	6.4	107,218	
	Luaw - Sei Bungur	3.5	Gravel	2.6	37,129	Filmler, gfickelse, gen yn yl al de en d_{ellin a} gen
	Ida Manggala - Padang Makmur	3.5	Gravel	5	29,850	
	Bamban - Longawang	3.5	Asphalt Seal	2	23,481	<u>مەرىمەر بەرمەر مەرمەر مەرم</u>
	Karang Jawa - Bakarung	3.5	Asphalt Seal	4.5	56,750	
	Kalumpang - Bago	3.5	Grave1	2.9	29,794	
		·				
	، موجود ساریو می با انتقابی ما از اور در این وسال در معروف واسی و در افغانی مراکز کرد. ا					
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* PAVENENT 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

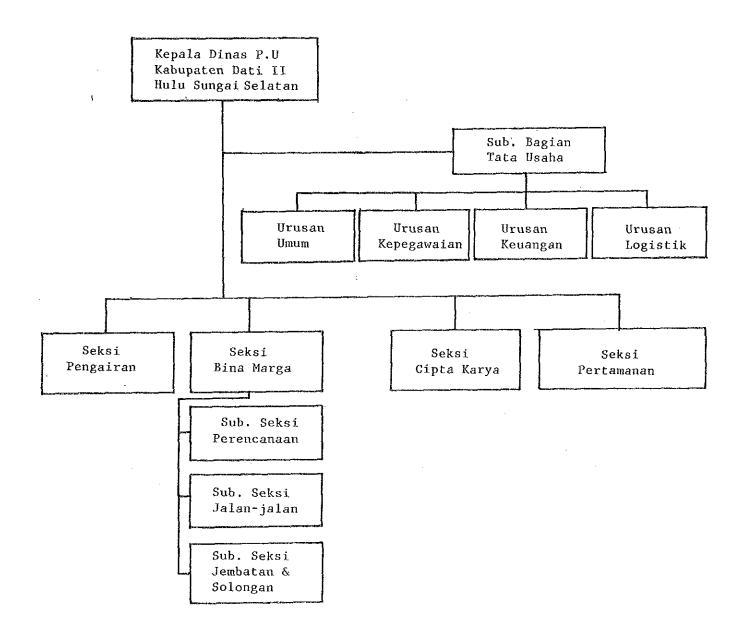
22-A-15

KABUPATEN:Hulu Sungai Selatan

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
CONTROLING STAFF Staff teknis PUK	(21)	
DPUK ENGINEED 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 Tukáng	8	
LABOUR Buruh / Pekerja	25	
OTHERS Lain-lain		
TOTAL / JUNLAN	102	

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

LOCATION AND AREA OF DPUK WORKSHOP

Lokasi Workshop DPUK PROPINSI : Kalimantan selatan

KABUPATEN: Hulu Sungai Selatan

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Sei Raya	20,000	-	Direncanakan
an la culture product analysis annu annu annu annu annu annu annu ann			

PROPINSI: Kalimantan Selatan

E-07

KABUPATEN: Hulu Sungai Selatan

LAND ACQUISITION COST Daftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Narga	REMARKS Keterangan
CITY/kota	M2	10,000	
VILLAGE / desa	<u>M2</u>	3,000	
RICE FIELD/sawah	M2	3,000	
DRY FIELD/ladang	N2	2,000	
MIX CROPS/panen	M2	3,500	
FOREST/hutan	M2	2,000	
SWAMP'/ rawa	<u>N2</u>	500	
OTHERS / lain-lain	M2	_	

22-A-18

E-06

KABUPATEN; Hulu Sungai Selatan

Classification of local contractors at Kabupaten level. The case is a state of the second

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	Ċ2	52,000,000	13	
56	63	21,000,000	10	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		**************************************		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			*****	
		·		
			ار میں اور میں اور	
				· · · · ·
₩₽₽ ^{₽₽} ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩				
				· · · · · · · · · · · · · · · · · · ·
•			· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·				
			· · · · · · · · · · · · · · · · · · ·	
-				
<u>kan un lun térnen a</u> t finansi <u>an an a</u>				

NOTE: DATI II

KABUPATEN Hulu Sungai Selatan

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

Name of contractor

NAME OF EQUIPMENT	EXISTIN	latan	REQUIRE - MENT / Ke-					
Jenis peralatan	TYPE/ Tipe	P.Y	NUMBI GOOD Baik	ER / Ju BAD Rusak	TOTAL	REASON OF BAD CONDI EION/Sebal Kerusakan	butuhan peralatan baru	
' Bulldozer				agour			· · · · · · · · · · · · · · · · · · ·	
Notor Grader	, , , , , , , , , , , , , , , , , , ,				- <u></u>	-		
Tyre Roller	م مستع <u>می اور میں میں میں میں میں میں م</u> عمد معنی ا	.			- <u></u>	-		
Steel Whell Roller	، د شان بی بر این این این این این این این این این این							
Vibration Roller						,	and the Party of the Control of the	
Wheel Loader								
Front End Loader and Backhoe	an a							
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	<u></u>							
Mechanic Rammer	and a second							
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								

PROPINSI: Kalimantan Selatan KABUPATEN:Hulu Sungai Selatan

LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT	EXISTI	NG CONI	DITION	/ Kondi	si Pera	latan	REQUIRE -
Jenis peralatan	TYPE/	P.Y	NUMB	ER / Ju	mlah	REASON OF BAD CONDT	MENT /Ke- butuhan
	Tipe		COOD Baik	BAD Rusak	TOTAL	l'ION/Sebal Kerusakan	peralatan baru
[•] Bulldozer	ۥ᠁᠃᠁᠃᠃			Rusak	Juntan	Kerusakan	······································
Motor Grader							a da anti a cana a c
Tyre Roller				-		· · · · · · · · · · · · · · · · · · ·	
Steel Whell Roller	-	80&83	6	1			3
Vibration Roller		-					
Wheel Loader							
Front End Loader and Backhoe	ana ginakiyon na kana gina siyan ana gi					AND TO CARD AND AND AND AND AND AND AND AND AND AN	
Nobile Crane							
Concrete Mixer							
Stone Crusher	4	1979		1	1		5
Portable Compressor			\	1			
Hydraulic Excavator							and younged and a first second sufficiently
Asphalt Paving Machine	<u> </u>						**** ***** ***************************
Asphalt Sprayer		1983	1	_	1		5
Asphalt Mixing Machine						· · ·	
Mobile Workshop							
Mechanic Rammer							
Plate Tamper	ŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ	1983	4	-	4		4
Pile Driver							
Leg Drill	and a first of the second s						
Nand Hammer							. \
Farm Tractor							
Dump Truck							
Water Tank Truck							
Fuel Tank Truck							
Pick Up		1981	1	_	1		4 ·
Jeep							
Notorcycle		1981	3		3		6
Generator							
Water Pump							
Others							

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

KAB : HULU SUNGAI SELATAN PROV : KALIMANTAN SELATAN LINK NO : 140 (IIIA) LENGTH : 5 Km UPGRADE : 7.0m road bed, 4.5m road with surface Dressing (2)

1 T E N	UNIT	QUANTITY	<<< UNIT Local	COST >>> Foreton		<<<<< CAL	COST Forelon	>>>>>> Total
Site Clearance in Light Bush	#2	0.0	165	91		0	0	0
Subgrade Preparation	n2	0.0	21	11		0	0	0
Rormal Fill	9 3	0.0	1,700	863		0	0	Ċ
Fill in Swamp	вJ	0.0	2,515	1,052		0	0	0
Normal Excavation to Spoil	#3	1050.0	997	522			548,100	
Sub Base Course	n3	1620.0	3,205	1,347			2,182,140	
Base Course	43	1800.0	4,401	2,299			4,130,200	12,060,000
Shoulder	#2	12500.0	296	146			1,825,000	5,525,000
Asphalt Patching	#2	0.0	3,568	1,579		0	0	0
Surface Dressing (Single)	#2	0.0	633	851		0	0	0
Surface Dressing (Double)	#2	22500.0	785	1,342	• •		0,195,000	
Earth Drain	đ	1000.0	842	119			119,000	961,000
Earth Drain in Swamp (by machine)	z 3	0.0	1,191	474		0	0	0
Pipe Culvert D80cm	ā	0.0	42,079	49,761		0	0	(
Nasonry Culvert (B0xB0cm)	6	0.0	57,789	39,894		0	0	0
Retaining Hall and Hing Hall (Timber)	a2	0.0	9,178	246		0	0	(
Retaining Hall and Wing Wall (Masonry)	#3		42,447	11,621		0	0	(
Gabion Protection	\$	0.0	13,027	120		0	0	1
Nen Bridge (Tiøber)	SET	1.0				0	0	(
New Bridge (Concrete)	SET	1.0				0	0	(
			Sub Total		36,365,	250 3	9,007,440	75,372,690
Overhead (15%)					5,454,	787	5,851,116	11,305,90
			TOTAL COST		41,8 20,	037 4	4,838,556	86,678,593
Manual routine maintenance of road	K.a.	5.0	135,144	7,248	675.	720	36,240	711,960
Routine maintenance of asphalt road	Kæ	5.0	356,800 Sub Total	157,900		000	789,500 825,740	
Haintenance of Timber Bridge (New)	n 2	0.0	6,531			0	. 0	
Haintenance of Concrete Bridge (New)	#2		•	2,961		0	0	
Kaintenance of Timber Bridge (Exist)	n 2	72.0		2,360		992	169,920	681,91
Naintenance of Concrete Bridge (Exist)	s 2	0.0	4,178	2,436		0	0	
······			Earthwork &	Pavosot		(Rp/X.a	••	17,335,71
			Tinber		Unit Cost	(Rp/m2		11399117
			Concrete		Unit Cost	(Ro/a2		
			Survived	Value	0011 0031	(Rp)		8,914,39
			Naintenance		ut Bridae	(2)	:	3.7
			Kew Bridge		en	(1)	, 1	211

LINK ND : 152 (IIIB-1) LENGTH : 3 Km

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

1 TEN	UNLT	QUANTETY	<<< UNIT Local	i COST >>> Foreign		<u> </u>	COST Fore 16H	>>>>> Total
	****				**********			
ite Clearance in Light Bush	a2	0.0	165	91		0	0	(
ubgrade Preparation	B 2	0,0	21	, i		0	ů	
ormal Fill	83	0.0	1,700	863		0	0	
ill in Swamp	83	0'0	2,515	1,052		0	0	
ormal Excavation to Spoil	# 3	0.0	997	522		0	0	
ub Base Course	#3	464.0	3,205	1,347	1,487,	120	625,008	2,112,12
ase Course	#3	810.0	4,401	2,299	3,696,		931,160	5,628,00
heulder	a2	12000.0	296	146	3,552,		,752,000	5,304,00
sphalt Patching	a 2	0.0	3,568	1,579	•••••	Û.	0	.,
urface Dressing (Single)	#2	12000.0	633	851	7,596,		,212,000	17,808,00
urface Dressing (Double)	#2	0.0	785	1,342	. []	0	0	17,200,00
arth Drain	a	0.0	842	119		0	0	
arth Drain in Swamp (by machine)	n3	0.0	1,191	474		0	0	
ipe Culvert D80c#	8	0.0	42,079	49,761		Ő	ů	
asonry Culvert (80x80c#)	ā	0.0	57,789	39,894		õ	õ	
etaining Wall and Wing Wall (Timber)	•2	0.0	9,178	246		õ	õ	
etaining Wall and Wing Wall (Masonry)	#3	0.0	42,447	11,621		õ	ů 0	
abion Protection	a3	0.0	13,027	120		Õ	ů 0	
ек Bridge (Tisber)	SET	1.0	10(021	120		0	ů 0	
ен Bridge (Concrete)	SET	1.0	•-			õ	ů Ú	
			Sub Total		16,331,	960 1-	1,520,168	30,852,12
verhead (15%)					2,449,	794	2,178,025	4,627,81
			TOTAL COST		10,781,	754 3	5,698,193	35,479,94
anual routine maintenance of road	 Ka	3.0	135,144	7,248	405,	432	21 ,744	427,17
outine maintenance of asphalt road	Ka	3.0	356,800	157,900	1,070,		473,700	1,544,10
			Sub Total	•	1,475,		495 444	1,971,27
aintenance of Timber Bridge (New)	# 2	0.0	6,531	1,032	· ·	0	0	
aintenance of Concrete Bridge (New)	# 2	0.0		2,961		0	0	
aintenance of Timber Bridge (Exist)	a2	43.2		2,360	307,	195	101,952	407,14
aintenance of Concrete Bridge (Exist)	#2	0.0	4,178	2,436		0	0	
			Earthwork k	Pavesont U	nit Cost	(Rp/).a		11,826,64
			limber		nit Cost	(Rp/m2		
			Concrete	,	nit Cost	IRp/a2		
			Survived	Value		(Rp)	:	2,604,08
				Rate withou	t Bridae	(2)		5.5
			New Bridge		,	(1)	1	

LINK ND : 125 (IIIB-2) LENGTH : 7 Km

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

] T E N	UNIT	QUANTITY	CCC UNIT LOCAL	COST >>> FOREIGN	LOC	<<<<< AL 	COST Foreign	>>>>>> TOTAL
Site Clearance in Light Bush	•2	0.0	165	91		0	0	0
Subgrade Preparation	n 2	35000.0	21	11	735,0	00	385,000	1,120,000
Normal Fill	a 3	0.0	1,700	863		0	0	0
Fill in Swamp	83	0.0	2,515	1,052		0	0	C
Normal Excavation to Spoil	a3	619.0	997	522			323,118	940,261
Sub Base Course	= 3	3326.0	3,205	1,347			480,122	
Base Course	83	1680.0	4,401	2,299	7,393,6	-	862,320	11,256,000
Shoulder	•2	21000.0	296	146	6,216,0	00 3,	066,000	9,282,000
Asphalt Patching	82	0.0	3,568	1,579		0	Û	(
Surface Dressing (Single)	a 2	0.0	633	851		0	0	0
Surface Dressing (Double)	a 2	0.0	785	1,342		0	0	(
Earth Drain	6	1400.0	842	119	L,179,8	00	166,600	1,345,400
Earth Drain in Swamp (by machine)	•3	0.0	1,191	474		Q	0	(
Pipe Culvert DBOcm	â	0.0	12,079	49,761		0	0	(
Nasonry Culvert (80x80cm)	8	0.0	57,789	39,894		0	0	(
Retaining Wall and Wing Wall (Timber)	#2	0.0	9,178	246		0	0	(
Retaining Wall and Wing Wall (Masonry)	•3	0.0	42,447	11,621		0	0	(
Gabion Protection	#3	0.0	13,027	120		0	0	(
Nen Bridge (Tieber)	SET	1.0				0	0	(
New Bridge (Concrete)	SET	1.0	~~			Û	0	(
			Sub Total		26,800,4	53 12	283,160	39,083,613
Dverhead (15%)					4,020,0	67 i.	842,474	5,862,54
			TOTAL COST		30,820,5	20 14,	125,634	44,946,15
Nanual routine maintenance of road	Ka	7.0	135,144	7,248	946.0	108	50,736	996,74
Routine maintenance of gravel road	Ka				-		616,329	-
undfilt antiteunit of digits (and			Sub Total		2,290,2		667,065	
Haintenance of Timber Bridge (New)	a2	0.0				0	΄ ο	
Maintenance of Concrete Bridge (New)	#2		1,663	2,961		0	0	
Naintenance of Timber Bridge (Exist)	a2		7,111			87	267,624	1,074,01
Maintenance of Concrete Bridge (Exist)	n 2	0.0	4,178	2,436		0	0	
			Earthwork &			(Rp/Ka)	1	6,420,87
					Init Cost	(Rp/=2)	1	
			Concrete		lnit Cost	(Rp/#2)	;	
				Value		(Rp)	1	7,569,97
			Maintenance		n gridde	(1)	1	6.5
			New Bridge	Lost Hate		(2)	;	

٦

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

UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

.

ITEN				cost >>	>	(((((COST	>>>>>>
	UNIT	QUANTETY	LOCAL	FORE16H	LOU	AL	FOREIGN	TOTA
Sile Clearance in Light Bush	∎2	0.0	165					
Subgrade Preparation	e2	0.0	21	91		0	0	
formal Fill	•3	0.0		11		0	0	
ill in Swamp	83	0.0	1,700	863		0	0	
lormal Excavation to Spoil	83 83	140.0	2,515	1,052		0	0	
Sub Base Course	83 83	257.0	997 7 705	522			73,080	212,66
lase Course	83 83	237.0	3,205	1,347	•		346,179	1,169,8/
Skoulder			4,401	2,299			643,720	1,876,00
Asphalt Patching	. <u>#2</u>		296	146			438,000	1,326,00
	•2		3,568	1,579		0	0	
Surface Dressing (Single)	#2	4000.0	633	851	1	000	3,404,000	5,936,00
Surface Dressing (Double)	¢2	0.0	785	1,342		Q	0	
Earth Drain Santh Drain (n Durum Abu anntéine)	A	0.0	842	119		0	0	
Earth Drain in Swamp (by machine)	•3	0.0	1,191	474		0	0	
Pipe Culvert D80cm	3	0.0	42,079	49,761		e	0	
lasonry Culvert (80x80cm)	4	0.0	57,789	39,894		0	0	
Retaining Wall and Wing Wall (Timber)	+2	0.0	9,178	246		0	0	
Retaining Wall and Wing Wall (Masonry)	#3	0.0	42,447	11,621		0	0	
Jabion Protection	43	0.0	13,027	120	I	0	0	
lew Bridge (Timber)	SET	1.0				0	0	
lew Bridge (Concrete)	SET	1.0				0	0	
			Sub Total		5,615,5	545	4,904,979	10,520,57
Iverhead (15%)					B42,3	31	735,746	1,578,07
			TOTAL COST		6,457,6	176	5,640,725	12,098,60
anual routine maintenance of road	Ke	1.0	135,144	7,248	135,	144	7,249	142,3
outine maintenance of asphalt road	Ka	1.0	355,800	157,900	356,9	000	157,900	514,7
-			Sub Total		491,		165,148	657,0
aintenance of Timber Bridge (Kew)	s2	0.0	6,531	1,032		0	0	
sintenance of Concrete Bridge (New)	n2	0.0		2,961		0	0	
laintenance of Timber Bridge (Exist)	#2	0.0		2,360		0	0	
laintenance of Concrete Bridge (Exist)	₽2	0.0	4,179	2,436	I	0	0	
	*		Earthwork &	Paupagak	Unit Fact	 Rp/Ka	······	12,098,6
					Unit Cost	(Rp/∎2		12,01010
				-	Unit Cost	(Rp/n2		
			Concrete	,	UNIL LOSE	•		1 101 1
			Survived	Value Rate witho	ut Bridan	(Rp) (X)		l,191,1 5,
			Naintenance		or arrode	(X) (X)	;	1,
			Hen Bridge	COSC RACE		(,,)	۲.	

LINK ND : 123 (IIIB-2) LENGTH : 7 Km

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

(Rp)

ITEN	UNIT	QUANTITY	<<< UNIT Local	COST >>> Foreign		<<<< COST Fore16N	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Site Clearance in Light Bush	e2	21000.0	165	91	3,465,000		5,376,000
Subgrade Preparation	#2	49000.0	21	11	1,029,000	539,000	1,568,000
Normal Fill	£3	0.0	1,700	863	0	0	(
Fill in Swamp	a3	0.0	2,515	1,052			1
Normal Excavation to Spoil	#3	486.0	997	522	484,542		738,23
Sub Base Course	e3	3920.0	3,205	1,347	12,563,600		17,843,84
Base Course	#3	1680.0	4,401	2,299	7,393,680		11,256,00
Shoul der	n2	21000.0	296	146	6,216,000	3,066,000	9,282,00
Asphalt Patching	a2	0.0	3,568	1,579	0	0	
Surface Dressing (Single)	s2	0.0	633	851		0	
Surface Dressing (Double)	# 2	0.0	785	1,342	0	0	(
Earth Drain		1400.0	842	119		166,600	1,345,40
Earth Drain in Swamp (by machine)	e3	0.0	1,191	474			
Pipe Culvert DBOcm		0.0	42,079	49,761		0	
Masonry Culvert (80x80ca)	-	0.0	57,789	39,894		0	•
Retaining Wall and Wing Wall (Timber)	o2		9,178	246			
Retaining Wall and Wing Wall (Masonry)	#3		42,447	11,621		0	
Gabion Protection	a3	0.0	13,027	120		Û	•
Nex Bridge (Timber)	SET				C C	0	1
lew Bridge (Concrete)	SET	1.0			C	Û	
			Sub Total		32,330,622	15,078,852	47,409,47
)verhead (15%)					4,849,593	2,261,827	7,111,42
			TOTAL COST		37,180,215	17,340,679	54,520,89
fanual routine maintenance of road	Ka	7.0	135,144	7,248	746,008	50,736	996,74
Routine maintenance of gravel road	Ke	7.0	192,036	88,047			1,960,58
•			Sub Total		2,290,260		2,957,32
laintenance of Timber Bridge (New)	s2	0.0	6,531	1,032			<i>,</i> .
faintenance of Concrete Bridge (New)	e2	0.0	1,663	2,961		0	
Maintenance of Timber Bridge (Exist)	a2	48.0	7,111	2,360		113,280	454,60
faintenance of Concrete Bridge (Exist)	e2	0.0	4,178	2,436			
					· · · · · · · · · · · · · · · · · · ·		
			Earthwork V			Rp/Km) ;	7,788,69
			lisber	8r i dge	Unit Cost 🛛	Rp/a21 r	
			Concrete	8r i dge	Unit Cost 🛛	Rp/a2) :	
			Survived	Value		(Rp) 1	8,921,92
			Naintenance	Rate witho	ut Bridge	(1) :	5.4
			New Bridge	Cast Data	-	(1) 1	

LINK ND : 121 (IIIB~2) LENGTH : B Km

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

ITEN	UNIT	DUANTETY	<<< UNIT LOCAL	COST >> FOREIGN		/COST</th <th></th>	
		*******			rooùr	FUNCTOR	IVINC
Site Clearance in Light Bush	#Z	0.0				_	
Subgrade Preparation	#2 #2	48000.0	165	91		-	
Normal Fill	ตวี		21	11	-1		
Fill in Swamp		0.0	1,700	963	-	•	-
Normal Excavation to Spoil	83	7.2	2,515	1,052			•
Sub Base Course	83 -7	879.0	997	572			
Base Course	63 - 7	4480.0	3,205	1,347			
Shoulder	£3	1920.0	4,401	2,299		• •	
	#2	16000.0	296	146		2,336,000	7,072,000
Asphalt Patching	#2	0.0	3,568	1,579		0	0
Surface Dressing (Single)	+2	0.0	633	851		0	0
Surface Dressing (Double)	42		785	1,342		0	(
Earth Drain	a		842	119	0	0	(
Earth Drain in Swamp (by machine)	a 3	19.0	1,191	474	1 21,438	8,532	29,970
Pipe Culvert D80cm	8	0.0	42,079	49,761	. 0	0	
Nasonry Culvert (80x80c#)	2	0.0	57,789	39,894	1 0	0	(
Retaining Wall and Wing Wall (Timber)	€2	0.0	9,178	246	, 0	0	(
Retaining Wall and Wing Wall (Nasonry)	#J	0.0	42,447	11,621	. 0	0	(
Gabion Protection	a3	0.0	13,027	120) ()	0	(
New Bridge (Timber)	SET	1.0			C	+ 0	(
Nex Bridge (Concrete)	SET	1.0		~~	0	0	(
			Sub Total		29,468,229	13,787,584	43,255,813
Overhead (15%)					4,420,234	2,068,137	6,488,37
			TOTAL COST		33,888,463	15,855,721	49,744,184
Nanual coutine maintenance of road	Ka	8.0	135 144	7,248	1,081,152	57,984	1,139,138
•	Ka Ka		135,144 192,036	88,047			• •
Routine maintenance of gravel road	い道	0.0	Sub Total		2,617,440		
Mainkagenes' of Tinkas Paidas (New)	e2	0.0	6,531	1,032			
Maintenance of Timber Bridge (New) Maintenance of Concrete Bridge (New)				2,961			
	•2					-	
Haintenance of Timber Bridge (Exist)	#2 - 2			2,360			
Maintenance of Concrete Bridge (Exist)	82	0.0	4,178	2,438	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	······
			Earthwork &	Pavement	Unit Cost (Rp/Ka) :	6,218,02
			Tinber			Rp/#2) :	
			Concrete			Rp/#2)	
			Survived	Value		(Rp) :	10,196,480
			Maintenance		ut Bridge	α :	6.7
			New Bridge		-	(1) :	

LINK NO : 91 (IIIC) LENGTH : 5 Km

UPGRADE : 7.0m road bed, 3.0m road with surface Subbase Cource

1 T E H	UNIT	QUANTITY	<<< UNII Local	(COST >>) Foretgn		<<< COST Foreign)))))) Total
Sile Clearance in Light Bush	•2	0.0	165	٩t	0	0	0
Subgrade Preparation	ø2	0.0	21	11	0	0	0
Normal Fill	ъŠ	0.0	1,700	863	0	0	¢
Fill in Swamp	#3	0.0	2,515	1,052	0	0	(
Normal Excavation to Spoil	n3	0.0	997	522	0	0	C
Sub Base Course	a3	144.0	3,205	1,347	461,520		655,488
Base Course	83	900.0	4,401	2,299	3,960,900	2,069,100	6,030,000
Shoulder	\$ 2	20000.0	296	146	5,920,000	2,920,000	6,840,000
Asphalt Patching	ø2	0.0	3,568	1,579	0	0	(
Surface Dressing (Single)	#?	0.0	223	851	0	0	Q
Surface Dressing (Double)	#2	0.0	785	1,342	. 0	0	C
Earth Drain	8	0.0	842	119	0	0	(
Earth Drain in Swamp (by machine)	a 3	0.0	1,191	474	0	0	C
Pipe Culvert D80ce	ä	0.0	42,079		0	0	C
Masonry Culvert (80x80cm)	8	0.0	57,789	39,894	0	0	(
Retaining Wall and Wing Wall (Timber)	ø2	0.0	9,178	246		0	(
Retaining Wall and Wing Wall (Masonry)	#3	0.0	42,447	11,621	0	0	(
Sabion Protection	2 Š	0.0	13,027	120	0	0	(
Kex Bridge (Timber)	SET	1.0			Q	0	(
New Bridge (Concrete)	SET	1.0			0	0	(
			Sub lotal		10,342,420	5,183,068	15,525,48
Overhead (15%)					1,551,363	777,460	2,328,82
			TOTAL COST		11,093,703	5,960,528	17,854,31
Manual routine maintenance of road	 Kn	5.0	135,144	7,248	675,720	36,240	711,96
Routine maintenance of gravel road	Ke		192,036		960,180	440,235	1,400,41
······································			Sub Total			476,475	
Naintenance of Timber Dridge (New)	#2	0.0			0		
Maintenance of Concrete Bridge (New)	#2	0.0	6,531 1,663	2,961	0	0	i
faintenance of Timber Bridge (Exist)	e2	54.0	7,111	2,360	383,994	127,440	511,43
laintenance of Concrete Bridge (Exist)	a2	0.0	4,178	2,436	0	0	
·		****			H_:L (L //	·····	10 ACZ C
			Earthwork &			Rp/K∎) : ™(−2) ·	3,570,86
			linber Dansente			(p/m2) :	
			Concrete	•	Unit Cost ()	{p/a2 :	
			Survived	Value Data with		(Rp) :	262,19
			Naintenance		nc prinde	(2) :	11.8
			New Bridge	LOST KALP		(2) :	

LINK NO : B7 (IIIB-1) LENGTH : B Km

UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

ITEN				COST >>>	(>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	UNIT	DUANTITY	LOCAL	FORE IGN	LOCA	- FOREIGN	TOTA
Site Clearance in Light Bush	a2	2000.0	165	91	330,00	0 192,000	510 00
Subgrade Preparation	a2	0.0	21	11	-	0 182,000 0 0	512,00
Normal Fill	n 3	0.0	1,700	863		•	
Fill in Swamp	n 3	0.0	2,515	1,052		•	
Normal Excavation to Spoil	#3	1120.0	497	522		•	1 101 00
Sub Base Course	#3	2140.0	3,205	1,347	1,116,64		1,701,28
Base Course	#3	2240.0	-	•	6,958,70		9,741,28
Shoulder	#2	24000.0	4,401 296	2,299	9,859,24		15,008,00
Asphalt Patching	#2			146	7,104,00	_	10,608,00
Surface Dressing (Single)	#2	0.0 32000.0	3,569	1,579		0	
Surface Dressing (Double)	#2 52		633	851	20,255,000		47,488,00
Earth Drain			785	1,342		0 0	
	日 1	11000.0	842	119	9,262,00		10,571,00
Earth Drain in Swamp (by machine)	#3	0.0	1,191	474		0 0	
Pipe Culvert D80cm	ę	5.0	12,079	49,761	210,39	5 248,805	459,20
Nasonry Culvert (80x80cm)	6	0.0	57,789	39,894	4	0 0	
Retaining Hall and Hing Wall (Timber)	a 2	0.0	9,178	246	() 0	
Retaining Wall and Wing Wall (Masonry)	a3	0.0	42,447	11,821	1	0 0	
Gabion Protection	æ3	0.0	13,027	120		0 0	
New Bridge (Tiøber)	SET	1.0				0 0	
Hex Bridge (Concrete)	SET	1.0	~~		1	0 0	
			Sub lotal		54,995,97	5 41,092,785	96,000,76
Overhead (15%)					8,249,39	6 6,163,917	14,413,31
			TOTAL COST		63,245,37	47,256,702	110,502,07
Manual routine maintenance of road		9.0	135,144	7,248	1,061,15	2 57,984	1,139,13
Routine maintenance of asphalt road	Ke	8.0	356,800	157,900	2,854,40		4,117,80
			Sub Total	1	3,935,55		5,256,73
Naintenance of Timber Bridge (New)	#2	0.0	6,531	1,032	• •	0 0	
Naintenance of Concrete Bridge (New)	•2	0.0		2,961		0 0	
Maintenance of Timber Bridge (Exist)	#2			2,360	742,38		
Mainlenance of Concrete Bridge (Exist)	•2	0.0	4,170	2,436	-	0 0	1
		·					
				Paveaent Un		(Rp/Ka) r	13,812,7
			Tinber			(Rp/#2) ±	
			Concrete		it Cøst	(Rp/a2) :	
			Survived	Value		(Rp) :	9,820,49
				Rate without	Bridge	(2) :	4.1
			New Bridge	Cost Rate		(X) :	

LINK NO : B3 (IIIB-1) LENGTH : 5 Km

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

.

1 T E N	UNIT	QUANTETY	<<< UNIT Local	COST >> Foreign	-	<<<<< AL	COST Foreign	>>>>>> Total
Site Clearance in Light Bush	a2	0.0	165	91		0	0	(
Subgrade Preparation	#2	0.0	21	11		0	0	(
Normal Fill	B3	0.0	1,700	863		0	6	(
Fill in Swamp	ßß	0.0	2,515	1,052		0	0	(
Normal Excavation to Spoil	øJ	0.0	997	522		0	0.	(
Sub Base Course	# 3	791.0	3,205	1,347	2,535,1	.55 l	065,477	3,800,833
Base Course	83	1275.0	4,401	2,299	5,391,2	25 2,	816,275	8,207,500
Shoulder	#2	20000.0	296	146	5,920,0	00 2,	920,000	8,840,000
Asphalt Patching	#2	0.0	3,568	1,579		0	0	(
Surface Dressing (Single)	#2	17500.0	633	851	11,077,5	ioo 14,	892,500	25,970,000
Surface Dressing (Double)	e2	0.0	785	1,342		0	0	(
Earth Drain	8	1000.0	842	119	B42,0	00	119,000	961,000
Earth Drain in Swamp (by machine)	a 3	0.0	1,191	474		0	0	(
Pipe Culvert DBOcm	8	0.0	42,079	49,761		0	Q	(
Masonry Culvert (80x80cm)	8	0.0	57,789	39,894		0	0	I
Retaining Hall and Wing Hall (Timber)	#2	0,0	9,178	246		0	0	I
Retaining Wall and Wing Wall (Masonry)	#3	0.0	42,447	11,621		0	0	4
Gabion Protection	e3	0.0	13,027	120		0	0,	
Hew Bridge (Timber)	SET	1.0				0	0	I
New Bridge (Concrete)	SET	1.0				0	0	I
			Sub Total		25,765,8	180 21,	813,252	47,579,13
Overhead (15%)					3,864,6	382 3 ,	271,987	7,136,86
			TOTAL COST		29,630,5	762 25,	,085,239	54,716,00
Manual routine maintenance of road		5.0	135,144	7,248	675.3	720	36,240	711,96
Routine maintenance of asphait road	Ka		356,800				789,500	•
martine wormeensmee of oppings root		010	Sub Total	•	2,459,5		825,740	
Maintenance of Timber Bridge (New)	s7	0.0	6,531			0	0	-11
Maintenance of Concrete Bridge (New)		0.0				0	0	
Kaintenance of Timber Bridge (Exist)	∎2				972,	784	322,848	1,295,63
Naintenance of Concrete Bridge (Exist)	#2		4,178	2,438		0	0	
			Earthwork &			(Rp/Ka)	:	10,943,20
			linber	-	Unit Cost	(Rp/m2)	;	
			Concrete	-	Unit Cost	(Rp/a2)	;	
			Sur vi ved	Value		(Rp)	I	1,161,91
			Naintenance		out Bridge	(\mathbf{n})	:	6.0
			New Bridge	Cost Rate		(χ)	:	

LINK NO : 82 (IIIB-1) LENGTH : 5 Km

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

3 T E M	UNIT	QUANTETY	KKK UNTI Local	COST >> Foreton		(((COST Foreign	>>>>> Total
···· ··· · · · · · · · ·							
Site Clearance in Light Bush	n 2	0.0	165	71	0	0	0
Subgrade Preparation	2 2	24000.0	21	11	504,000	264,000	768,000
Neraal Fill	B 3	0.0	1,700	863		•	, c
Fill in Swamp	a3	0.0	2,515	1,052	0	0	(
Normal Excavation to Spoil	a3	240.0	997	522	239,280	125,280	364,560
Sub Base Course	สวั	1680.0	3,205	1,347	5,384,400		7,647,360
Rase Course	n 3	840.0	4,401	2,299	3,696,840		5,628,000
Shoulder	a2	20000.0	296	146			8,840,000
Asphalt Patching	a2	20.0	3,568	1,579		· ·	102,940
Surface Dressing (Single)	s 2	20000.0	633	851		•	29,680,000
Surface Dressing (Double)	#2	0.0	785	1,342		•••	}
Earth Drain	9	0.0	B42	119			Ì
Earth Drain in Swamp (by machine)	•3	0.0	1,191	474	-		, (
Pipe Culvert D80cm	5	0.0	12,079	49,761	-	•	,
Nasonry Culvert (80x80cm)	4	0.0	57,789	39,894		-	
Retaining Hall and Wing Hall (Timber)	a2	0.0	9,178	246		-	
Retaining Wall and Wing Wall (Masonry)	 8]	0.0	42,447	11,621		•	
Gabion Protection	43 5	0.0	13,027	120		•	
New Bridge (Timber)	SET	1.0			0		ć
New Bridge (Concrete)	SET	1.0	~-		0	-	, i
nen bridge fobliereter	QL 1	3.0			v	v	,
			Sub Total		28,475,880	24,554,980	53,030,86
Overhead (15%)					4,271,382	3,683,247	7,954,62
			TOTAL COST		32,747,262	28,238,227	60,985, 4 89
Kanual routine maintenance of road		5.0	135,144	7,248	675,720	36,240	711,96
Routine maintenance of asphalt road	Ke	5.0	356,800	157,900	•	•	2,573,500
moverne mathematics of appliant thou	F1.98	317	Sub Total		2,459,720		3,285,46
Naintenance of Timber Bridge (New)	a2	0.0	6,531	1,032			olreed to
Haintenance of Concrete Bridge (New)	#2 #2	0.0		2,961			
Maintenance of Limber Bridge (Exist)	#2		7,111	2,360	-		
Maintenance of Concrete Bridge (Exist)	e2	72.0	4,178	2,436		•	476,20
			Earthwork &			Rp/Kal :	12,197,09
			linder			Rø/#21 1	
			Concrete	•	Unit Cost (Rp/#2) :	
			Survived	Value		(Rp) 2	6,478,75
			Maintenance		ut Bridge	(2) ;	5.3
			New Bridge	Cost Rate		(%) :	

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

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

TTEN	UNIT	QUANTLY		COST >> Foreign		{{{{{}}	COST Fore IGN	>>>>> Total
Site Clearance in Light Bush	•2		165	91		0	0	
Subgrade Preparation	#2	0.0	21	11		0	0	1
Normal Fill	83	0.0	1,700	863		0	0	
Fill in Swamp	n3	0.0	2,515	1,052		Ò	0	
Normal Excavation to Spoil	BJ	0.0	997	572		0	0	
Sub Base Course	83	143.5	3,205	1,347		917	193,294	653,21
Base Course	a3	245.0	4,401	2,299			563,255	1,641,50
Shoulder	•2	4000.0	296	146	•		584,000	1,768,00
Asphalt Patching	s2	0.0	3,568	1,579		0	0	
Surface Dressing (Single)	s2	3500.0	633	851		500	2,978,500	5,194,00
Surface Dressing (Double)	#2		785	1,342		0	0	
Earth Drain	5	0.0	842	119		0	0	
Earth Drain in Swamp (by machine)	•3	0.0	1,191	474		0	0	
Pipe Culvert DBOca	4	0.0	42,077	49,761		0	0	
Masonry Culvert (80x80cm)	周	0.0	57,789	39,894		0	0	
Retaining Wall and Wing Wall (Timber)	ø2	0.0	9,178	246		0	0	
Retaining Wall and Wing Wall (Masonry)	∎3	0.0	42 447	11,621		0	0	
Gabion Protection	e 3	0.0	13,027	120		0	0	
New Bridge (Timber)	SET	1.0				0	0	
New Bridge (Concrete)	SET	1.0				0	0	
			Sub Total		4,937	662	4,319,049	9,256,71
Dverhead (15%)					740	549	647,857	1,388,50
			TOTAL COST		5,678	311	4,966,906	10,645,21
fanual routine maintenance of road	K e	1.0	135,144	7,249	135		7,248	142,39
Routine maintenance of asphalt road	Ke	1.0	356,800	157,900		800	157,900	514,70
			Sub Total	•		944	165,148	657,01
faintenance of Timber Bridge (New)	a2	0.0	1 671	1,032		0	0	
faintenance of Concrete Bridge (New)	62			2,961		0	0	
laintenance of Timber Bridge (Exist)	a2			2,360		0	0	
faintenance of Concrete Bridge (Exist)	∎2			2,436		0	0	
·								
			Earthwork &			(Rp / Y.		10,645,2
			Timber	,	Unit Cost	(Rp/m		
			Concrete		Unit Cost	(Rp/e		
			Survived	Yalue		(Rp		785,5
			Maintenance		ut Bridge	(2)		6.
			Kew Bridge	Cost Rate		(2)	:	

LINK ND : 65 (1118-1) LENGTH : 6 Km

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

					******		(Rp)
ITEN	1914 F T	DUANTITY	<<< UNIT LDCAL			<<<< COST	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
		**************************************	LULHL	FOREIGN	LDCAL	FOREIGN	TOTAL
Sile Clearance In Light Bush	1 2	0.0	185	91			
Subgrade Preparation	#2	0.0	21	11	0	0	
Normal Fill	e3	0.0	1,700	663	0	U	I
Fill in Swamp	#3	0.0	2,515	1,052	0 0	•	
Normal Excavation to Spoil	#3	840.0	997	522	•	•	
Sub Base Course	e3	1507.0	3,205	1,347			1,275,96
Base Course	#3	1680.0	4,401		4,836,345		6,968,96
Shoulder	e2	12000.0	295	2,299 146		• •	11,256,00
Asphalt Patching	#2	0.0	3,569		3,552,000	• •	5,304,00
Surface Dressing (Single)	a2	24000.0		1,579	0	•	
Surface Dressing (Double)	82		633	851	15,192,000		35,616,00
Earth Drain		0.0	785	1,342	0 775 800	•	
Earth Drain in Swamp (by machine)	8 23	9900.0	842	119	8,335,800	• •	9,513,90
Pipe Eulvert DBOcm		0.0	1,171	474	-	•	
•	8	0.0	42,079	49,761	0	-	
Masonry Culvert (80x80cm)		0.0	57,799	39,894		•	
Retaining Wall and Wing Wall (Timber)	a2	360.0	۶,178	246	3,304,080		3,392,64
Retaining Wall and Wing Wall (Masonry)	#3	0.0	42,447	11,621	0	-	
Gabion Protection	B3	0.0	13,027	120	0		
New Bridge (Timber)	SET	1.0			0		ļ
New Bridge (Concrete)	SET	1.0			0	0	
			Sub Total		43,451,385	29,776,083	73,227,46
Overhead (15%)					6,517,707	4,466,412	10,984,11
			TOTAL COST		49 ₁ 969 ₁ 092	34,242,495	84,211,58
Nanual routine maintenance of road	Ke	6.0	135,144	7,248	810,864	43,488	854,35
Routine maintenance of asphalt road	Kas	6.0	356,800	157,900			3,088,20
			Sub Total		2,951,664		3,942,55
Naintenance of Timber Bridge (New)	aZ	0.0	6,531	1,032	, .		•}.(#]*•
Naintenance of Concrete Bridge (New)	#2	0.0	1,663	2,961		-	
Naintenance of Timber Bridge (Exist)	a2	0.0	7,111	2,360			
Naintenance of Concrete Bridge (Exist)	#2	79.2	₹,178	2,436		192,931	523,82
						~	
			Earthwork &	Pavenent L		Rp/Ke) :	14,035,26
			Tinber			Rp/∎2) :	
			Concrete	Bridge l	Jnit Cast (Rp/#2) :	
			Sur vi ved	Value		(Rp) :	7,059,47
			Maintenance	Rate withou	ut Bridge	(2) 1	4.6
			Ken Bridge	Cost Rate		(2) :	

(Rp)

.

LINK ND : 61 (IIIB~2) LENGTH : 5 Km

UPGRADE : 8.0m road bed, 4.0m road with surface Base Cource

ITEN	UNAT	QUANTITY	<<< UNIT Local	COST >> Foreign		({{ COST FORELGN	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Site Clearance in Light Bush	\$ 2	0.0	165	91		0	(
Subgrade Preparation	e2	40000.0	21	51	840,000	440,000	1,280,00
Normal Fill	#3	0.0	1,700	863	0	0	
Fill in Swamp	8 3	420.0	2,515	1,052	1,056,300	441,840	1,498,14
Rormal Excavation to Spoil	ø3	652.0	997	522	650,044	340,344	990,38
Sub Base Course	m 3	2800.0	3,205	1,347		3,771,600	12,745,60
Base Course	#3	1200.0	4,401	2,299		2,750,800	8,040,00
Shoulder	#2	20000.0	296	146	5,920,000	2,920,000	8,840,00
Asphalt Patching	•2	0.0	3,569	1,579	0	0	
Surface Dressing (Single)	a2	0.0	633	851	0	0	
Surface Dressing (Double)	a 2	0.0	785	1,342	0	0	:
arth Drain	8	400.0	842	119	336,800	47,600	384,40
Earth Drain in Swamp (by machine)	a 3	6000.0	1,191	474		2,844,000	9,990,00
Pipe Culvert DBOcm		12.0	42,079	49,761	504,948	597,132	1,102,08
iasonry Culvert (80x80cm)	6	0.0	57,789	39,894	0	0	
Retaining Wall and Wing Wall (Timber)	ø2	0.0	9,178	246		0	
Retaining Wall and Wing Wall (Masonry)	9 3	0.0	42,447	11,621	0	0	
Sabion Protection	e3	0.0	13,027	120		0	
len Bridge (limber)	SET	1.0			0	0	
lew Bridge (Concrete)	SET	1.0			0	0	
			Sub Total		30,709,292	14,161,318	44,870,60
iverhead (15%)					4,606,393	2,124,197	6,730,59
			TOTAL COST		35,315,605	16,205,513	51,601,19
lanual routine maintenance of road	Xw	5.0	135,144	7,246	675,720	36,240	711,96
outine maintenance of gravel road	Ka	5.0	192,036	88,047	-		•
			Sub Total	-	1,635,900		-
aintenance of Timber Bridge (New)	# 2	0.0	8,531	1,037		0	
isintenance of Concrete Bridge (New)	a2		1,663	2,961		Ó	
laintenance of Timber Bridge (Exist)	#2		7,111	2,360		0	
laintenance of Concrete Bridge (Exist)	a2	0.0	4,178	2,438		0	
			Earthwork &			lp/Ka) :	10,320,24
			Tinber			ip/#21 :	
			Concrete	Briðge	Unit Cost (I	(p/a2) :	
			Survived	Value		(Rp) :	6,372,80
			Maintenance		nut Bridge	(2) :	4.C
			New Bridge	Cost Rate		(2) :	

LINK NO : 60 (IIIB-1) LENGTH : 7 Km

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

ITEN				COST >>) (((((COST	>>>>>>
	UHIT	QUANTITY	LOCAL	FOREIGN	LOCA	L FO	REIGN	TOTAL
Site Clearance in Light Bush	#2	0.0	165	91		0	0	
Suborade Preparation	#2	40000.0	21	II II		-) 1. 200. 000
Normal Fill	n 3		1,700	863		ייט א י 10	0,000 0	1,280,000
Fill In Swamp	a3	0.0	2,515	1,052		0	0 0	(
Normal Excavation to Spoil	A3		997	522		•	3,640	
Sub Base Course	a3	3144.0	3,205	1,347			4,968	[4,311,48
Base Course	N3	1960.0	4,401	2,299		,	6,040	13,132,000
Shoulder	a2	28000.0	296	146			8,000	12,375,000
Asphalt Patching	0 2	0.0	3,568	1,579		0	0,000	1213101000
Surface Dressing (Single)	a2		633	651			8,000	41,552,000
Surface Dressing (Double)	#2	-	785	1,342		0 20102	0,000	11,101,100 (
Earth Drain	a		842	119		0	ŏ	(
Earth Drain in Swamp (by wachine)	£3		1,191	474		0	Č	(
Pipe Culvert DBOca	R		42,079	49,761		0 0	Ů	(
Hasonry Culvert (180x80cm)	3		57,789	39,894		0	õ	(
Retaining Wall and King Wall (Timber)	•2		9,178	246		0	Õ	, (
Retaining Wall and Wing Wall (Masonry)	83		42,447	11,621		0	Ň	
Gabion Protection	a3		•	120		0	õ	, (
Nes Bridge (Jimber)	SET					0	ò	(
New Bridge (Concrete)	SET	1.0				ů.	Ô	1
ten bisoge (boncieve)	011	110				-	·	
			Sub Total		46,172,62	20 37,42	0,648	83,593,26
Overhead (15%)					6,925,89	5,61	3,097	12,538,990
			TOTAL COST		53,098,51	13 43,03	3,745	96,132,258
Manual routine saintenance of road	Ke	7.0	135,144	7,248	946,00)8 5	10,736	996,74
Routine maintenance of asphalt road	Ka		356,800	157,900	•		5,300	3,602,90
active astrocationer as approve rody			Sub lotal	•	3,443,60		6,035	4,599,64
Haintenance of Timber Bridge (New)	#2	0.0	6,531	1,032		-	0	(
Naintenance of Concrete Bridge (Hew)	#2			2,961		0	Ö	
Kaintenance of Timber Bridge (Exist)	#2		7,111			20 20	8,152	835,34
Haintenance of Concrete Bridge (Exist)	42		4,178	2,43/		0	0	
*	*******							
			Earthwork &	Pavement	Unit Cost	(Rp/Kø)	:	13,733,18
			Timber	Bridge	Unit Cost	(8p/m2)	1	
			Cancrete		Unit Cost	(Rç/m2)	;	
			Survived	Value		(Rp)	:	12,644,44
			Naintenance	Rate with	out Bridge	(1)	;	4.7
			New Bridge	Cost Rate		(2)	1	

PROV : KALIMANTAN TENBAH KAB : BARITO UTARA

LINK ND : B (IIIC) LENGTH : 15 Km

UPGRADE : 6.0m road bed, 3.5m road with surface Subbase Cource

I T E H	1 E HU	QUANTITY	(((UNLT LOCAL	COST >>> FORELGN) 130J	((((()L	COST Foreign	>>>>>> TOTAL
Site Clearance in Light Bush	#2	37500.0	160	91	6,300,0	00 3,	412,500	¥,712,500
Subgrade Preparation	m 2	24000.0	21	11	504,0	00	264,000	768,000
Normal Fill	nĴ	0.0	1,739	863		0	0	0
Fill in Susap	n3	0.0	10,625	267		0	0	0
Normal Excavation to Spoil	B3	291.0	1,017	523	295,9	47	152,193	448,140
Cement Stabilizing	a]	2484.3	14,992	12,368	37,244,6	25 30,	725,822	67,970,447
Cement Stabillzing	B 3	2310.0	14,992	12,368	34,631,5	20 28,	,570,080	63,201,600
Shoulder	n2	37500.0	305	146	11,437,5		,475,000	16,912,500
Asphalt Patching	#Z	0.0	8,960	1,173	• •	0	0	0
Surface Dressing (Single)	#Z	0.0	1,189	725		Q	0	0
Surface Dressing (Double)	#2		1,689	1,139		0	0	0
Earth Drain	8		1,005	•	28,481,7	00 3.	,372,460	31,854,160
Earth Drain in Swamp (by waching)	a3		1,217	474		0	. , 0	
Fipe Culvert DBOcm	3		68,342	49,971		0	0	0
Nasonry Culvert (80x80cm)	5		96,528	37,061		0	0	G
Retaining Wall and Wing Wall (Timber)	#Z		10,847	246		0	0	0
Retaining Wall and Wing Wall (Masonry)	#3		65,583	10,457		0	0	G
Gabion Protection	#3		16,726	120		0	0	
New Dridge (lisber)	SET			•••	29,554,8	•	,070,330	32,635,189
New Bridge (Concrete)	SET				.,,	0	0	(
			Sub Total		148,460,1	51 75	,042,385	223,502,538
Overhead (15%)					22,269,0	11 527	,256,357	33,525,379
			TOTAL COST		170,729,1	73 86	,298,742	257,027,91
Nanual routine maintenance of road	Ke	15.0	161,616	7,248	2,469,2	10	108,720	2,577,960
Routine saintenance of gravel road	Ka		B41,405	12,661			639,960	
,			Sub Total	•	15,070,3		748,580	
Maintenance of Timber Bridge (New)	#2	252.0	7,934	1,232			310,464	2,284,63
Maintenance of Concrete Bridge (New)	=2		2,970	3.061		0	0	
Naintenance of limber Bridge (Exist)	n2		7,840	2,459		0	` 0	
Naintenance of Concrete Bridge (Exist)	#2	0.0	4,517	2,455		Q	0	
		*******		-	· · · · · ·			
			Earthwork &			(Rp/Ka)		14,633,16
			linber		Unit Cost	(Rp/a2)		148,93
			Concrete	•	Unit Cost	(Rp/#2)	t	
			Survived	Value	4	(Rp)	1	27,108,17
			Haintenance		ut Bridge	(%)	1	7.2
			New Bridge	Cost Aate		(X)	1	14.6

LINK ND : 57 (IIIC) LENGTH : 7 Km

UPBRADE : 8.0m road bed, 4.0m road with surface Subbase Cource (Rp)

********			*******				(Rp)
1 T E N	UNET	QUANTITY	<<< UNIT LOCAL	COST >>. Foreign		COST	>>>>>> Tota
Film Planesura in Linki Durk						******	
Site Clearance in Light Bush Subgrade Preparation	#2 - 2	0.0	165	91) 0	
Noreal Fill	42	0,0	21	11) 0	
-	•3	0.0	1,700	863) (
Fill in Swamp Manual Computing to Constit	83	0.0	2,515	1,052) 0	1
Normal Excavation to Spoil Sub Base Course	6 3	0.0	997	522) _0	
	M3	220.0	3,205	1,347			1,001,44
Rase Course	e3		4,401	2,299	• •		11,258,00
Shoul der	m2	28000.0	296	145	1 . 1	4,088,000	12,376,00
Asphalt Patching	n2	0.0	3,568	1,579	1	0 0	
Surface Dressing (Single)	n2	0.0	633	851) 0	
Surface Dressing (Double)	e3	0.0	785	1,342		0 0	
Earth Drain	8	0.0	842	117	4) 0	
Earth Drain in Swamp (by machine)	#]	0.0	1,191	474		0 0	
Pipe Culvert OBOcm	8	0.0	42,079	49,761	4) 0	
Hasonry Culvert (80x80cn)	8	0.0	57,789	39,894	I	0 0	
Retaining Wall and Wing Wall (Timber)	a2	0.0	9,178	246	4) (
Retaining Wall and Wing Wall (Nasonry)	•3	0.0	42,447	11,621	1	D 0	
Gabion Protection	n 3	0.0	13,027	120	4) (
Nex Bridge (Timber)	SET	1.0	~-	~-	4	0 0	
New Bridge (Concrete)	SET	1.0			() 0	
			Sub Total		16,386,78	0 8,246,660	24,633,44
Overhead 15%)					2,458,0)	7 1,236,999	3,695,01
			TOTAL COST		18,844,79	7 9,483,659	28,328,45
fanual routine maintenance of road		7.0	135,144	7,248	946,00	3 50,736	996,74
Routine maintenance of gravel road	Ke	7.0	192,036	8B,047			
werne wantenance of grates foad	NB.	1.v	Sub Total	ויסושט	2,290,26		
taintenance of Timber Bridge (Newl	n 2	0.0	6,531	1,032) 001,003	
Saintenance of Concrete Bridge (New)	#2 #2	0.0	1,663	2,961)) 0	
faintenance of Concrece Bridge (Texist)	#2 n2	10.8	7,111	2,369		•	
faintenance of Concrete Bridge (Exist)	#2 #2	0.0	4,178	2,435) 0	
			Earthwork &			(Rp/Km) :	4,046,92
			Tinber	,		(Rp/m2) :	
			Concrete		Unit Cost	(Rp/#2) :	
			Sur vi ved	Value		(Rp) :	400,51
			Kaintenance		ut Bridge	(2) :	10.4
			New Bridge	Cost Rate		(2) :	

.

LINK NO : 52 (IIIB-1) LENGTH : 5 Km

UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (1)

								(8.0.2
JIEH		611AN71TV	< UNIT</th <th>COST >> FORELEN</th> <th></th> <th><<<<<</th> <th>COST FOREIGN</th> <th>>>>>>>> Total</th>	COST >> FORELEN		<<<<<	COST FOREIGN	>>>>>>> Total
	UAT +	BUANTETY	LOGRL	r unc 1 an	LU	4442.		
Site Clearance in Light Bush	₽2	0.0	165	71		0	0	1
Subgrade Preparation	n2	0.0	21	11		0	0	
Normal Fill	#3	0.0	1,700	863		0	0	
Fill in Swamp	m3	0.0	2,515	1,052		0	0	
Normal Excavation to Spoil	e3	0.0	997	522		0	0	
Sub Pase Course	Ea	772.0	3,205	1,347	2,474,	260	1,039,884	3,514,14
Base Course	B3	1400.0	4,401	2,299	6,161,	400	3,218,600	9,380,00
Shoulder	e2	15000.0	296	146	• •		2,190,000	6,630,00
Asphalt Patching	B2	0.0	3,568	1,579	• •	0	· · o	
Surface Dressing (Single)	a2	20000.0	633	851		000 1	7,020,000	29,580,00
Surface Dressing (Double)	#2	0.0	785	1,342		0	0	
Earth Drain	4	2800.0	B42	119		600	333,200	2,690,80
Earth Drain in Swamp (by machine)	a 3	0.0	1,191	174		0	0	-11
Pipe Eulvert D80cm	A	0.0	42,079	49,761		0	0	
Hasonry Culvert (80x80cm)		0.0	57,789	39,894		0	0	
Retaining Wall and Wing Wall (Timber)		0.0	9,178	246		Ó	0	
Retaining Wall and Wing Wall (Nasonry)	83 8	0.0	42,447	11,621		õ	0	
Gabion Protection	a3	0.0	13,027	120		ò	0	
New Bridge (Tigber)	SET	1.0		***		õ	Ó	
New Bridge (Concrete)	SET	1.0				0	0	
new bisuge (concrete)	951	3.0				•	•	
			Sub Total		28,093,	260 2	23,801,684	51,894,94
Overhead (152)					4,213,	9B9	3,570,252	7,784,24
			TOTAL COST		32,307,	249	27,371,936	59,679,18
Manual routine maintenance of road	Kø	5.0	135,144	7,246	675,	720	36,240	711,96
Routine maintenance of asphalt road	Kø	5.0	356,800	157,900	1,784,	000	789,500	2,573,50
			Sub Total	•	2, 159,		825,740	3,285,40
Naintenance of Timber Bridge (New)	#2	0.0	6,531	1,032	• •	0	0	•
laintenance of Concrete Bridge (New)	.2	0.0	•	2,961		0	0	
laintenance of Timber Bridge (Exist)		43.2	7,111	2,360		195	101,952	409,14
Maintenance of Concrete Bridge (Exist)	#2	0.0	4,178	2,436		0	0	
				·····	Huit Duci	10- 14		
			Earthwork &			(Rp/Ke		11,935,8
			Tiaber		Unit Cost	(Rp/a)		
			Eoncrete	-	Unit Cost	{Rp/a/		1 776 04
			Survived	Value		(Rp)		4,335,90
			Maintenance		ut Bridge	(7)	:	5.5
			New Oridoe	Cost Rate		(1)	1	

•

LINK ND : 50 (IIIA) LENGTH : 3 Km

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

11 E H	INT	QUANTITY		COST >>		<<<< cost	>>>>>>
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		407311111	LOCAL	FOREIGN	LOCAL	FORELGH	TOTA
Site Clearance in Light Bush	•2	13500.0	185	PI	2,227,500	1 730 544	1 157 00
Subgrade Preparation	a2	0.0	21	11			3,458,00
Normal Fill	<b>a</b> 3	0.0	1,700	863	•		i
Fill in Swamp	.3	0.0	2,515	1,052	•		
Normal Excavation to Spoil	<b>a</b> 3	910.0	997	522		•	
Sub Base Course	я3	1173.0	3,205	1,347		•	1,382,29 5,339,49
Base Course	ø3	1080.0	4,401	2,279			7,236,00
Shoulder	a2	9000.0	296	146			
Asphalt Patching	#2	0.0	3,568	1,579			3,978,00
Surface Dressing (Single)	a2	0.0	633	851		•	
Surface Dressing (Double)	<b>n</b> 2	13500.0	785	1,342	-	•	
Earth Drain	8	0.0	842	1,512			28,714,50
Earth Drain in Swamp (by machine)		0.0	1,191	474	•	-	
Pipe Culvert 080cm	-10 R	0.0	42,079	49,751	•	•	
Hasonry Culvert (80x80cm)		0.0	57,789	39,894		•	
Retaining Hall and Hing Hall (Timber)	42	0.0	9,178	246		•	
Retaining Wall and Wing Wall (Masonry)	=3	0.0	42,447	11,621	•	•	
Gabion Protection	a3	0.0	13,027	120			
New Bridge (Timber)	SET	1.0			· · · · ·	•	
New Bridge (Concrete)	SET	1.0			0	•	
			Sub Total		24,900,815	25,197,471	50,106,28
Overhead (15%)					3,736,322	3,779,620	7,515,94
			TOTAL COST		28,645,137	28,977,091	57,622,22
Nanual routine maintenance of road	 Ka	3,0		7,248	405,432	21,744	427,17
Routine maintenance of asphalt road	Kø	3.0	356,800	157,900			1,544,10
• • • • • • • •			Sub Total		1,475,832		1,971,27
Naintenance of Timber Bridge (New)	a2	0.0	6,531	1,032		•	-1
Naintenance of Concrete Bridge (New)	#2	0.0	,	2,961			
Maintenance of Timber Bridge (Exist)	#2			2,360		[18,944	477,33
Naintenance of Concrete Bridge (Exist)	в2	0.0	4,178	2,436		0	-
			***				
			Earthwork &			Rp/Kal :	19,207,41
			Tieber	,		Rp/a2) ;	
			Concrete	1	Unit Cost (	Rp/a2) :	,
			Survived	Value		(Rp) 1	6,080,59
			Maintenance		iut Bridge	(7) :	3.4
			New Bridge	Cost Rate		(2) :	

(Rp)

LINK ND : 01 (1118-1) LENGTH : 2 Km

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

ITEN				COST >>			COST	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	UNIT	BUANTITY	LOCAL	FOREIGN	LOC	AL	FORELGN	TOTA
Site Clearance in Light Bush	∎2	0.0	165	91		0	0	
Subgrade Preparation	n2	0.0	21	11		0	0	I
Normal Fill	#3	0.0	1,700	863		0	Q	
Fill in Swamp	a3	0.0	2,515	1,052		0	0	
Normal Excavation to Spoil	#3	0.0	. 997	522		0	0	
Sub Base Course	<b>8</b> 3	340.0	3,205	1,347	1,089,7	00	457,980	1,547,68
Base Course	#3	560.0	4,401	2,299	2,464,5	60	1,287,440	3,752,00
Shouider	#2	4000.0	296	146	1,184,0	00	584,000	1,768,00
Asphalt Patching	#2	0.0	3,568	1,579	-	0	0	
Surface Dressing (Single)	<b>a</b> 2	8000.0	633	851	5,064,0	00	6,808,000	11,872,00
Surface Dressing (Double)	a2	0.0	785	E,342		0	0	
Earth Drain		400.0	842	119		00	47,600	384,40
Earth Drain in Swamp (by machine)	•3	0.0	1,191	474		0	0	•
Pipe Culvert D80cm		0.0	42,079	49,761		0	0	
Masonry Culvert (80x80cm)	8	0.0	57,789	39,894		0	0	
Retaining Wall and Wing Wall (Timber)	¢2	0.0	9,178	246		0	0	
Retaining Wall and Wing Wall (Masonry)	<b>a</b> 3	0.0	42,447	11,621		0	0	
Gabion Protection	a3	0.0	13,027	120		0	0	
New Bridge (Timber)	SET	1.0				0	0	
New Bridge (Concrete)	SET	1.0				0	0	
			Sub Iotai		10,139,0	60	9,185,020	19,324,08
Dverhead (15%)					1,520,8	59	1,377,753	2,898,61
			TOTAL COST		11,659,9	19 1	0,562,773	22,222,69
	*******			***	-*****	*	4	********
Nanual routine maintenance of road	Ka	2.0	135,144	7,249	270,2	89	14,496	284,76
Routine maintenance of asphalt road	Ka	2.0	356,800	157,900	713,6	00	315,000	1,029,40
			Sub Total		903,8	88	330,296	1,314,18
Haintenance of Timber Bridge (New)	<b>a</b> 2	0.0	6,531	L,032		0	0	
Maintenance of Concrete Bridge (New)	•2	0.0	1,663	2,961		0	0	
Naintenance of Timber Bridge (Exist)	a2	14.4	7,111	2,360	102,3	98	33,984	136,38
Maintenance of Concrete Bridge (Exist)	ø2	0.0	4,178	2,438		0	0	
			Earthwork &	Pavagont	lloit Cost	(Rp/Ka	1 :	11,111,3
			lantennurk a	-	Unit Cost	(Rp/s2		
			Concrete		Unit Cost	(Rp/#2		
			Survived	Brioge Value	<b>WALL COSE</b>	(Rp)		1 917 1
			Surviveo Maintenance		ut Dridan	(X)		1,833,7
			New Bridge		inc ai tođis	(1)	:	5.1
			NEW DELOGE	2051 Mate		(2)	:	

# LINK NO : 48 (IIIB-2) . LENGTH : 3 Km

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

ITEH	ז ואון	QUANTITY	<<< UNIT Local			~~~~	COST	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
······································	ent :		LULAL	FORE I SN	LOC	AL.	FORE I GH	101A
Site Clearance in Light Bush	n2	9000.0	165	91	1,485,0	00	819,000	2,304,000
Subgrade Preparation	R2	14000.0	21	ti i	294,0		154,000	448,001
Normal Fill	#3	0.0	1,700	863		0	0	110100
Fill in Swamp	Ea	0.0	2,515	1,052		ů	Ő	í
Normal Excavation to Spoil	<b>#</b> 3	275.0	997	522	274,1	•	143,550	417,72
Sub Base Course	a3	1377.0	3,205	1,347	4,413,2		,854,819	6,268,10
Pase Course	a3	720.0	4,401	2,299	3,169,7		655,280	1,824,00
Shoulder	a2	9000.0	296	146	2 664 0		314,000	3,978,00
Asphalt Patching	<b>a</b> 2	0.0	3,568	1,579		0	0	(
Surface Dressing (Single)	#2	0.0	633	851		0	0	(
Surface Dressing (Double)	#2	0.0	785	1,342		0	0	(
Earth Drain	ħ,	600.0	842	119	505,2		71,400	578,600
Earth Drain in Swamp (by machine)	<b>a</b> 3	0.0	1,191	474	- 1	0	, 0	
Pipe Culvert DBOcm	5	0.0	42,079	49,761		0	0	
Nasonry Culvert (80x80cm)	a	0.0	57,789	39,894		0	0	
Retaining Wall and Wing Wall (Timber)	•2	0.0	9,178	248		0	0	i
Retaining Wall and Wing Wall (Masonry)	n3	0.0	42,447	11,621		0	0	1
Gabion Protection	83	0.0	13,027	120		Ð	0	1
New Bridge (Timber)	SET	1.0				0	0	
New Bridge (Concrete)	SET	1.0				0	0	4
			Sub lotal		12,804,3	180 b	,012,049	18,818,42
Overhead (15%)					1,920,8	57	901,807	2,822,46
			TOTAL COST		14,725,0	)37 ð	,913,856	21,630,893
Nanual routine maintenance of road	Xa	3.0	135,144	7,248	105,4	132	21,744	427,17
Routine maintenance of gravel road	Ke	3.0	192,036	88,047	576,1		264,141	840,24
noutine waintenance of graves for	L B	510	Sub Total	201011	981,5		285,885	1,257,42
Naintenance of Timber Bridge (New)	<b>#</b> 2	0.0	6,531	1,032		0	0	
Naintenance of Concrete Bridge (New)	#2	0.0	1,663	2,961		0	Ð	i
Naintenance of Timber Bridge (Exist)	.2	36.0	7,111	2,360	255,5	-	84,960	340,95
Naintenance of Concrete Bridge (Exist)	#2	0.0	4,178	2,436		0	. 0	·
				Pave≢ent Un		(Rp/Kn)		7,212,98
			linber		it Cost	(Rp/#21		
			Concrete	Bridge Un	it Cost	(Rp/m2)		
			Survived	Value		(Rp)	:	3,134,05
				Rate without	Bridge	(2)	;	5.8
			New Bridge	Cost Rate		(2)	;	

.

(Rp)

.

LINK NO : 39 (III9-1) LENGTH : 3 Km

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

ITEN	1861 B T	QUANTLEY	<<< UNIT Local	COST >> Foreign		***	COST Foreign	>>>>>> Tota
		SORU ( 1	LUGRC	FURCION			+ UNL LUN	
Site Clearance in Light Bush	a2	0.0	165	91		0	0	1
Subgrade Preparation	#2	0.0	21	H		0	0	i
Noreal Fill	#3	0.0	1,700	863		0	0	
Fill in Swamp	ø3	0.0	2,515	1,052		0	0	
Hormal Excavation to Spoil	ø3	0.0	997	522		0	· 0	
Sub Base Course .	#3	325.5	3,205	1,347	1,043,2	27	438,448	L,481,67
Base Course	ø3	735.0	4,401	2,299		35	1,689,765	4,924,50
Shoulder	ø2	12000.0	296	146		)00	1,752,000	5,304,00
Asphalt Patching	ø2	0.0	3,568	1,579		0	0	-
Surface Dressing (Single)	s2	10500.0	633	851		i00	8,935,500	15,582,00
Surface Dressing (Double)	<b>5</b> 2	0.0	785	1,342	• •	0	0	
Earth Drain	8	0.0	842			0	0	
Earth Drain in Swamp (by machine)	5e	0.0	1,191	474		0	0	
Pipe Culvert D80cm	6	0.0	42,079	49,761		0	0	
Masonry Eulvert (BOxBOcm)	5	0.0	57,789	39,894		0	0	
Retaining Wall and Wing Wall (Timber)	a2	0.0	9,178	245		Ũ	0	
Retaining Wall and Bing Wall (Hasonry)	e3	0.0	42,447	\$1,621		0	0	
Gabion Protection	a3	0.0	13,027	120		0	0	
Hen Bridge (Timber)	SET	1.0				0	0	
New Bridge (Concrete)	SET	1.0				0	0	
		••••	Sub Total		14,476,4	162	12,815,713	27,292,17
			000 1000		• •			
Overhead (15%)					2,171,4		1,922,356	4,093,82
			TOTAL COST		16,647,	931 1	14,738,069	31,386,00
fanual routine maintenance of road	Ka	3.0	135,144	7,248	405,	132	21,744	427,13
Routine maintenance of asphalt road	Kn	3.0	356,800	157,900	1,070,	100	473,700	1,544,10
			Sub Total		E 475	832	495,444	1,971,2
faintenance of Timber Bridge (New)	#2	0.0	6,531	1,032		0	0	
taintenance of Concrete Bridge (New)	я2	0.0	1,663	2,961		0	0	
iaintenance of Timber Bridge (Exist)	32	0.0	7,111	2,360		0	Q	
Haintenance of Concrete Bridge (Exist)	<b>s</b> 2	0.0	4,178	2,436		0	0	
			Earthwork &			(Rp/K		10,462,0
					Unit Cost	(Rp/e)		
					Unit Cost	(Ro/m)		
			Survived	Value		(Rp		2,022,0
			Naintenance		ut Bridge	(1)		6.
			New Bridge	Cost Rate		(2)	:	

LINK ND : 25 (IIIB-2) LENGTH : 4 Km

.

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

ITEN	-	Allahysau		COST >>>		(((((	COST	>>>>>>
		DUANTITY	LOCAL	FOREIGN	LOC.	AL	FORELGN	TOTAL
Site Clearance in Light Bush	s2	0.0	165	91		0	0	,
Subgrade Preparation	a2	36000.0	21	11	756,0	-	396,000	( 1,152,000
loraal Fill	63	0.0	1,700	863	10010	0	0,010,000	1,152,000
ill in Swamp	₫Ĵ	0.0	2,515	1,052		ů	Ő	, I
format Excavation to Spoil	a3	492.0		522	490,5	-	256,824	747,34
Gub Base Course	#3	2240.0	3,205	1,347	7,179,2		017,280	10,196,48
ase Course	#3	960.0	4,401	2,299	4,224,9		207,040	6 432,00
ihovi der	e2	20000.0	296	146	5,920,0		920,000	8,840,00
Isphalt Patching	•2	0.0	3,560	1,579	- <b>,</b> ,.	0	0	
Surface Dressing (Single)	#2	0.0	633	851		0	0	,
Surface Dressing (Double)	#2	0.0	785	1,342		0	0	4
arth Drain	费	0.0	842	119		0	0	
arth Drain in Swamp (by wachine)	#3	0.0	1,191	474		0	Û	
Pipe Culvert 080cm	E	0.0	42,079	49,761		0	0	1
lasonry Culvert (80x80cm)	8	0.0	57,789	39,894		0	0	1
tetaining Hall and Hing Hall (Timber)	#2	0.0	9,178	246		0	0	
etaining Nall and Wing Wall (Masonry)	₩Ĵ	0.0	12, 117	11,621		0	0	
abion Protection	e3	0.0	13,027	120		0	0	
lew Bridge (Timber)	SET	1.0		~-		0	0	
lew Bridge (Concrete)	SET	1.0				0	0	
			Sub lotal		18,570,6	84 8	797,144	27,367,82
Iverhead ( 15% )					2,785,6	02 I,	319,571	4,105,17
			TOTAL COST		21,356,2	86 10	,116,715	31,473,00
lanual routine maintenance of road	Ka	4.0	135,144	7,248	540,5	76	28,992	569,56
outine maintenance of gravel road	Ka	4.0	192,036		768,1		352,188	1,120,33
			Sub Total		1,308,7		381,180	1,689,90
laintenance of Timber Bridge (New)	n2	0.0	6,531	1,032	, ,	0	. 0	•
laintenance of Concrete Bridge (Kew)	¤2	0.0	1,663	2,961		0	0	
aintenance of Timber Bridge (Exist)	#2	12.6	7,111	2 360	89,5	98	29,736	119,33
laintenance of Concrete Bridge (Exist)	€2	0.0	4,178	2,435		0	0	
			Earthwork &	Paypapni lin	it Cost	(Ro/Ka)	••	7,869,25
					it Cost	(Rp/m2)	,	
					it Cost	(Rp/a2)		
				Value on		(Rp)		5,098,24
			Naintenance		Bridae	(2)	1	5.3
			Hen Bridge			(2)	-	

# Appendix A-4 CONSTRUCTION AND MAINTENANCE QUANTITIES FOR ALL PROPOSED ROAD LINKS (CONSTRUCTION)

2 T E X	UNIT	( 1988 )	( 1989 )	< 1990 >	( 1991 )	( 1992 )	( TOTAL )
IIPHENT :							
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
Hotor Grader	hr	580.5	888.9	1694.3	967.4	0.0	4131.1
lland-guide Yib. 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	ħr	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
Fortable Crusher/Screening	hr	140.3	269.9	417.0	294.7	0.0	1121.9
Concrete Hixer	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	<u>0</u> .0	0.8		0.0	0.0	2.8
Asphalt Sprayer	hr	179.1	587.4	500.0	629.1	0.0	1895.6
OVR :		,					
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
Nason	aan day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	wan 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	san day	517.8	938.3	1722.4	988.3	0.0	4168,8
ERIAL :							
8itu∎en	1	36729.1	120437.4	117999.9	129006.1	0.0	404172.5
Asphalt Oil	1	7345.8	24087.5	17300.0	25795.8	0.0	74529.1
Kerosene	1	8779.1	28787.4	24099.9	30832.1	0.0	92498.5
Sand	n3	107.5	355.7	250.1	378.0	0.0	1092.3
Cevent	bag	0.0	12.5	30.0	0.0	0.0	42.5
River Stone	<b>a</b> 3	0.0	0.0	0.0	0.0	0.0	0.0
Steel Houlds	set	0.0	5.0	12.0	0.0	0.0	17.0
Tisber	a3	0.0	0.0	0.0	22.9	0.0	22.9
Paint	1	0.0	0.0	0.0	0.0	0.0	0.0
Reinforcing Steel	kg	0.0	159.5	385.8	0.0	0.0	542.3
Tying Wire	kg	0.0	1.4	3,4	0.0	0.0	4.8

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

I TEN	UNIT	/ LDDD \			***********		
•••••••••••••••••••••••••••••		< 190B >	< 1989 >	< 1990 }	< 1991 >	< 1992 >	< 101AL >
ULFKENT :							
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
Hotor 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	1014.5	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	h <b>r</b>	182.0	370.3	373.8	403.0	0.0	1327.1
Water Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Dump Truck	hr	1497.4	3212.0	3172.7	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	4389.5	0.0	14970.5
Portable Crusher/Screening	hr	91.3	186.0	188.3	203.1	0.0	668.7
Concrete Nixer	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
ABOUR :		,					
Nandur	man day	787,5	1634.3	1726.6	1836.3	0.0	5984.7
Skilled Labourer	pan day	702,5	1511.2	1711.2	1828,7	0.0	5753.6
Carpenter	man day	304.5	633.8	644.5	654 I	0.0	2236.9
Nason	san 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	nan day	1051,1	2184.6	2286,9	2392.4	0.0	7915.0
Oper ator	man day	235.2	472.0	451.0	465.9	0.0	1624.1
ATERIAL :							·
Bitumen	1	1822.5	4455.0	6885.0	8235.0	0.0	21397.5
Asphalt Oil	ł	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	i	202.5	495.0	765.0	915.0	0.0	2377.5
Sand	a.S	33,9	83.0	128.0	152.7	0.0	397.6
Cenent	bag	4.0	8.1	8.1	4,0	0.0	24.2
River Stone	aŝ	0.0	0.0	0.0	0.0	0.0	0.0
Steel Houlds	set	0,0	0.0	0,0	0.0	0.0	0.0
linber	£a.	27.6	57.4	58.4	59.4	0.0	202.8
Paint	1	196.8	409.6	416.5	423.2	0.0	1446.1
Reinforcing Steel	kg	20.8	11.6	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	аĴ	2579.9	5217.9	5297.4	5707.4	0.0	18834.6

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

I T E N	UNET	< 1980 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< 101AL >
NIPHENT :				·			
8úlldozer/Ripper	hr	107.9	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
Hutor Grader	hr	1103.8	1933.4	2671.3	1959.9		7668.4
lland-guide Vib. Roller	hr	202.5	498.4	773.3	939.8		2414.0
Tire Roller	hr	702.4	1631.9	1477.0	1621.6		5432.9
Vibratory Roller (D&T)	hr	442.2	617.9	1266.7	702.4	0.0	3027.2
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. <b>0</b>
Water Tank Truck	hr	280.3	337.6	756.2	425.1	0.0	1799.2
Dump Truck	hr	6594.2	11984.7	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 Hixer	ឯក	0.2	1.3	2.5	0.2		4.2
Water Puop	hr	0.2			0.2		4.2
Concrete Vibrator	hr		1.3		0.2		4.2
Asphalt Sprayer	hr	179.1	587.4	500.0	629.1	0.0	1895.6
80UR :							
Handur	san day	1072.0	2285.0	2692.8	2618.6	0.0	8668.4
Skilled Labourer	aan day	810.0	1867.1	2019.5	2502.7	0.0	7199.3
Carpenter	man day	304.5	634.0	645.1	917.7	0.0	2401.3
Hason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer		11136.5		27369.0	29224.1		93137.9
Driver	man day	2031.1	3954.5		4391.7		15646.9
Operator	nan day	755.0	1410.3	2173.4	1454.2	0.0	5792,9
TERTAL :							
Bitumen	1	38551.6	124892.4	124884.9	137241.1	0.0	425570.0
Asphalt Oil	1	7345.8	24087.5	17300.0	25795.8	0.0	74529.1
Kerosene	ļ	8981.6	29282.4	24864.9	31747.1	0.0	94876.0
Sand	<b>#</b> 3	141.4	439.7	378.1	530.7	0.0	1489.9
Cenent	bag	4,0	20.6	30.1	4.0	0.0	66.7
River Stane	สวี	0.0	0.0	0.0	0.0	0.0	0.0
Steel Houlds	set	0.0	5.0	12.0	0.0	0.0	17.0
linber	<b>M</b> 3	27.6	57.4	58.4	82.3	0.0	225.7
Paint	ł	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	a3	13195.0	19366.9	33746.2	22969.2	0.0	89477.3

# Appendix A-5

.

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

* * P is					*********		( 1000 Rp )
I T E H	UNIT	( 1988 )	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
QUIPHENT :		61,623	114,352	208,296	125,030	0	512,301
Bulldozer/Ripper	16224	3,048	6,546	13,985	5,824	0	27,403
Swamp Bulldozer	11917	2	. 0	166	0	ů 0	168
Motor Grader	13810	8,016	12,275		13,359	Ŏ	57,048
Hand-guide Vib. Roller	1574	0	<b>5</b>	13	39	Ŏ	57
lire Roller	11208	2,007		5,604		Õ	21,244
Vibratory Roller (D&I)	6879	3,041		8,713		0	20,835
Hydraulic Excavator; Wheel	13051	16	0	5,872	0	•	5,888
Wheel Loader	16964	11,593		37.943	20.714	0	
Hater Tank Truck	4105	1,150	1,386	3.104	1.745	0	87,516
Dump Truck	5569	28,384	48.298	87.696	20,714 1,745 54,232	0	7,305 218,610
Flat Bed Truck with Crane	5190	Q	20	49	169	0	218,810
Flat Bed Truck	3491	750		2,106	2.635	0	7,957
Portable Crusher/Screening	44642		12,048	18,615	13.155	Ŏ	50,081
Concrete Hixer	8675	0	6	17	0	Ŏ	23
Water Punp	489	0	0	0	. 0	0	25
Concrete Vibrator	324	0	0	ů O	Ŭ	0	0
Asphalt Sprayer	2031		1,193	-	1,277	Õ	3,848
ABOUR :		9,051	22,136	29,543	26,723	0	87,453
Həndur	2000	569	1,301	1,932	1,564	0	5,366
Skilled Labourer	2250	241	800	693	1,516	Ó	3,250
Carpenter	2500	0	Û	1	409	Û	410
Nason	2500	0	0	0 14,294 7,456	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
ATERIAL :		27,700	86,228	81,987	94,317	0	290,320
Bitumen	450	16,528	54,196	53,099	58,052	0	181,875
Asphalt Üil	800	5,876	19,270	13,840	20,636	0	59,622
Kerosene	250	2,194	7,195	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 Noulds	8000	0	40	76	0	0	136
linber	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
lying Wire	1200	0	I	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)

				***	( 1000 Rp )			
1 T E N	UNIT	( 1988 )	< 1989 >	< 1990 >	< 1991 >	< 1992 >	( TOTAL )	
QUIPHENT :		29,598	58,457	61,201	64,648	74,090	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	4,897	4,898	5,642	22,769	
Vibratory Roller (D&T)	6602	0	0	0	0	-,	0	
Hydraulic Excavator; Wheel		0	0	0	ů Ú	0	0	
Wheel Loader	16368	=	=	3,563	•	4,599	-	
Nater Tank Truck	3776	0	01000	01000	91121	0	30,114	
Dump Truck	5209	8,769	17,394	-		23,853		
Flat Bed Truck with Crane	4860	6,411	12,267	17,040	13,915	•	89,309 59,505	
Flat Bed Truck	3161				ננזן כנ רידר ם	14,495		
Portable Crusher/Screening	42658	4,180	0,258 4,457	8,544	8,732	10,023	39,737	
-		2,189		4,735	4,986	6,104	22,470	
Concrete Hixer	8630	í	1	2	3	3	10	
Nater Pump	459	0	0	0	0	0	0	
Concrete Vibrator	294	0	0	0	0	0	0	
Asphait Sprayer	1986	0	0	0	0	0	0	
ABOUR :		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	1,398	5,789	
Nason	3250	0	0	Û	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	
IATERIAL :		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	
Cenent	5000	16	21	21	32	32	128	
River Stone	10000	0	0	0	Û	0	0	
Steel Houlds	8000	0	0	0	0	0	0	
Tinber	80000	1,360	2,648	2,648	3,160	3,096	12,912	
Paint	2500	303	599	591	704	687	2,976	
Reinforcing Steel	1000	16	21	28	33	23	131	
Tying Wire	1200	0	0	0	0	0	0	
Equivalent Royalty	250	356	725	771	81 Î	995	3,658	

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

τ τ r u					*********		l 1000 Rp )
ITEH	UNIT	< 1908 >	< 19B9 >	< 1990 >	< 1991 >	< 1992 >	< 101AL >
QUIPHENT :		111,940	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	169
Notor Grader	13810	15,242	26,699	36,890	27,065	Ó	105,896
Hand-guide Vib. Roller	1574	318	784	1,217	1,479	0	3,798
fire Roller	11208	7,872	10,209	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	5,880
Hheel Loader	16964	14,670		44,204	27,550	0	112,061
Water Tank Truck	4106		1,386	3,104		0	7 385
Dump Truck	5569	36,723		108,706	77,884	0	289,498
Flat Bed Truck with Crane	5190			23,247		0	80,377
Flat Bed Truck	3491		17,339		17,955	0	60,217
Portable Crusher/Screening	44642			27,021	22,221	0	79,931
Concrete Nixer	8675	1	10	21	1	0	33
Water Pump	489	0	0	0	0	0	0
Concrete Vibrator	324	0	. 0	0	0	0	Û
Asphalt Sprayer	2031	363	1,193	1,015	1,277	Û	3,848
ABOUR :		31,555	68,931	79,128	79,391	0	259,005
Handur	2000	2,144		5,385	•	0	17,334
Skilled Labourer	2250	1,821		4,543	5,630	0	16,194
Carpenter	2500	761	1,584	1,612	2,044	0	6,001
Nason	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	\$,520	4,361	0	17,375
IATERIAL :		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 Dil	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
Cenent	4350	17	89	165	17	0	288
River Stone	7750	0	0	0 0	0	0 0	0 136
Steel Koulds linker	8000	0 2 070	40 4 305	96 4,380	6,172	0	16,927
linber	75000	2,070	4,305 860	4,380 874	888	0	3,035
Paint Reinforcing Steel	2100	413 20	860 200	423	20	0	51003 663
Reinforcing Steel Tying Wire	1000 1200	20 0	200	423	20	0	. 5
Equivalent Royalty	250	3,297	4,840	8,486	5,741	ů 0	22,364

PROV

### : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

L I NK No	BRIDSE	NAHE	Ka	From	(C TYPI (Exist)	 DESIGN LOAD	 LENGTH (a)	SPAN NO (nd)	SPAN Length (a)	₩1DTX (@)	AREA (EXIST) (n2)	AREA (NEW) (m2)	PIER (no)	ABUT (no)	ROAD Class
126	TANGGUL	1	2	BAGO	KK	 	 7.00	2	3.50	3.60	25.20		1	2	1118-2
	TANGGUL	2	3	9A60	KK		10.00	3	3.33	3.50	35.00		2	2	
	TARATÁI	1	3	BAGO	KK		B.00	2	4.00	3.50	28,00		1	2	
	TARATAI	2	4	BAGO	KK		7.00	2	3.50	3.40	25.20		l	2	
140	BAYUR		3	BAUR	KK	 	 20.00	4	5.00	3.60	72.00		3	2	IIIA
152	BT.KULU	2	1	BIKR	KK	 *********	 4.00	1	4.00	3.60	14.40		0	2	1118-1
	BT.KULUA	П	2	<b>BTKR</b>	KK		4.00	1	4.00	3.60	14.40		0	2	
	8T.KULUF	111	4	BTKR	KK		4.00	1	4.00	3.60	14.40		0	2	

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PROV : KALIMANTAN SELATAN KAB ; HULU SUNGAI SELATAN

L ENK No	BRIDGE NAHE	Ke	From	<pre> (EXIST) (NEM) </pre>	DESIGN Load C	SPAN LI Xass		NO	SPAN LENGTH	NLOTA	AREA (EXIST)	AREA (NEN)	PIER	ABUT	RDAD CLASS
							(;;)		(a)	(m)		(s2)	(no)	(na)	00100
25	ANAWANG	3	ANNG	KK			3.50	1	3.50		12.60	*****	0	2	1118-2
48	TANJUNGAN	2	SPIO	KK			10.00	2	5.00	3.60	36.00	****,0		2	III0-2
50	BTG KULUR	1	8KTS	KK			3.00	i	3.00	3,60	10.80		 0		J 1 1 A
	BTG KULUR2		BKTG	KK			11.00	3	3.67	3.60			2	2	
52	Азан		SIPR	KK			4.00		4.00	3.60	14.40		0		1118-1
	ASANI	2	SIPR	KK			4.00	1	4.00	3.60			ò	2	
	ASAH2	4	SIPR	KK			4.00	\$	4,00	3.60			Ô	2	
57	MALUTU	3	NLTU	KK			3.00	1	3.00	3.60	10.80		0	2	1110
60	TANTRAN	ł	TNRN	KK			13.00	3	4.33	3.60	46.80	********	2	2	 111B-1
	TANIRAN I	4	BKRG	KK			11.50	3	3.83		41,40		2	2	
65	NANDANPA	3	AGKG	GB			22.00	3	7.33		79.20		2	2	1118-1
81	NADANG	1	MDG	KK			4.00	1	4.00	3.60	14,40		0	2	JJ19-1
82	MANDAPAI I	1	NNDP	PB			4.00	1	4.00	3.60	14.40		0	2	1118-
	MANDAPAI II	1	NNDP	PB			6.00	2	3.00	3,60	21.60		1	2	
	Hanang] I		nndp	68			6.00	2	3.00	3.60	21.60		1	2	
	MAWANGI II		MNDP	PB			4,00	1	4.00	3.60	14.40		0	2	
	TANDUI I		MNDP	KK			6.00	2	3.00	3.60	21.60		1	2	
	TANDUL II		MNDP	KK			10.50	3	3.50	3.60	37.80		2	2	<b></b>
83	JELATANG I		PD81	KK			27.00	5	5.40	3.60			ŧ	2	1118-
	JELATANG II	_	PDBT	KK			3.00	t	3.00	3.60	10,80		0	2	
	JELATANG III		POBT	KK			3.00	1	3.00	3.60	10.80		0	2	
	JELATANG IV		PDBT	KK			4.00	1	4.00	3.60	14.40		0	2	
	JELATANG V	4	PD9T	KK			1.00	2	0.50	3.60	3.60		 	2	
87	JENBATAN I	1	MDPA	KK			12.00	4	3.00	3,60	43.20		3	2	111B-
	JEHBATAN II	2	HDPA	KK			9,50	3	3,17	3.60	34.20		2	2	
	JEHBATAN III	6	HDPA	KK			9.00	3	3.00	3.00	27,00		2	2	
91	JENBATAN I	1	PGHR	KK.			7.00	2	3.50	3.60	25.20		t	2	1110
	JEHBATAN II	4	P6HR	KK			8.00	2	4.00	3.60	28,00		1	2	
121	TANGGUL I		TEGL	ĸĸ			4.00	1	4.00	3.60			0	2	1118-2
	TANGGUL 2		TGGL	KK			7.00	2	3.50	3.60	25.20		1	2	
	TANGGUL 3		TEGL	KK			3.00	1	3.00	3.60	10.80		0	2	
	TANGGUL 4		166L	KK			3.00	1	3.00	3.60			0	2	
	TANGGUL 5		TGGL	KK			4.00	1	4.00	3.60			0	2	
	TANGGUL &	8	166L 	KK			3.00	۱ 	3.00	3.60	10.80		0	2	
123	PRTA BHLAYUNGI		PIBG	KK			4.00	1	4.00	3.00	12.00		0	2	1110-
	PRTA BHLAYUNG2		PT86	KK			4.00	1	4.00	3.00			0	2	
	FRTA BHLAYUNG3		PT96	KK			1.00	1	4.00	3.00			0	2 2	
	PRTA BHLAYUNGA	- 4	P186	KK			4.00	1	4.00	3.00	12.00		0	1	

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

PROV	£	KALIMAN	ITAN SELATAN	KAB	:	HULU	SUNGAI	SELATAN
LINK ND	:	25 (1)	(18~2)	LENGTH	4 *	4 Km		

							( Rp
I T E H	UNIT	QUANTITY		COST >>> FOREIGN	/////	COST FOREIGN	>>>>>> 101A
uperstructure (Timber;Span 3x;101)	a2	0.00	34,593	3,107	0	0	
uperstructure (Timber;Span 5m;101)	s2	0.00	38,306	3, 131	0	0	
uperstructure (Timber;Span Ba;10T)	∎2	0.00	50,736	4,509	0	0	
perstructure (Timber;Span 3m;BH50)	s2	0.00	42,802	3,842	0	0	
uperstructure (limber;Span 5m;BH50)	a2	0.00	46,813	4,165	Ó	0	
operstructure (Timber;Span 8m;8H50)	#2	0.00	59,371	5,273	0	0	
uperstructure (Concrete;Span 3#;BN50)	#2	0.00	41,322	105,105	0	0	
uperstructure (Concrete;Span 5#;8H50)	<b>B</b> 2	0.00	42,593	117,578	0	0	
operstructure (Concrete;Span B#;BN50)	o2	0.00	13 993	128,145	0	0	
operatructure (Concrete;Spanio#;BN50)	#2	0.00	48,214	145,655	0	0	
uperstructure (Concrete;SpaniSa;BNSO)	#2	0.00	52,212	171,719	0	0	
ubstructure (Pier;for Timber;10T)	KŪ	0.00	301,321	28,755	0	0	
ubstructure (Abut;for Timber;101)	NO	0.00	865,439	140,298	0	0	
ubstructure (Pier;for Timber;BN50)	NO	0.00	443,165	42,543	0 0	0	
ubstructure (Abut;for Timber;BNSO)	NO	0.00	972,620	155,128	O	0	
obstructure (Pier;for Concrete;8H50)	HÔ	0.00	1,617,523	464,086	0	0	
ubstructure (Abut;for Concrete;8850)	HO	0.00	3,382,742	977,597	0	0	
explicition of Bridge (Timber->Timber)	s2	0.00	9,818	1,231	Ô	0	
emolition of Bridge (Timber-)Concrete)	i2	0.00	9,818	1,231	Û	ů.	
emolition of Bridge (Concrete)	#2 #2	0.00	74,919	79,345	0	0	
aintenance of limber Bridge (New)	e2	0.00	6,531	1,032	0	0	
aintenance of Concrete Bridge (New)	42	0.00	1,663	2,961	0	0	
aintenance of Timber Bridge (Exist)	<b>a</b> 2	12.60	7,111	2,360	89,598	29,736	119,3
aintenance of Concrete Bridge (Exist)	a2	0.00	4,178	2,436	0.	0	
( Without Overhead )	 1	OTAL COST	(Ti≢ber Brid	 ne)		0	- <b></b>
	•		(Concrete Br		0	0	
	ו	OTAL COST	(without Nai	•	0	0	
( Overhead : 15% )	 1	OTAL COST	(Tímber Brid				
			(Concrete Br		0	0	
	1	OTAL COST	(without Hai	•	Ó	0	

PROV	Ē	KALIMANTAN SELATAN	КАВ	:	HULU SUNGAI SELATAN

LINK NO : 40 (IIID-2) LENGTH : 3 Km

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	*******						( Rp
ITEN	UNET	QUANTITY	<<< UNIT Local	COST >>> Foreign	>>>>>> Local	COST Foreign	>>>>> Totai
Superstructure (Timber;Span 3m;101)	#2	0.00	34,583	3,107	•		
Superstructure (Timber;Span Sm;101)	ø2	0.00	38,306	3,431	0	0	ĺ
Superstructure (Timber;Span Ba;101)	n2	0.00	50,736	4,509	0	0 0	4
Superstructure (limber;Span 3m;BH50)	62	0.00	42,802	3,842	0	•	i
Superstructure (Ilmber;Span 5m;BM50)	<b>2</b>	0.00	46,813	4,165	0	0	(
Superstructure (Timber;Span 8m;BH50)	•2	0.00	59,371	5,273	0	0	
Superstructure (Concrete;Span 3s;BH50)	2	0.00	41,322	105,105	0	0	
Superstructure (Concrete;Span 5m;BN50)	92	0.00	42,593	117,578	0	0	
Superstructure (Concrete;Span 8m;BNSO)	•2	0.00	43,993	128,145	0	0	
Superstructure (Concrete:Span10m;BN50)	#2	0.00	48,214	145,655	Ő	0	
Superstructure (Concrete;Span15#;BH50)	<b>n</b> 2	0.00	52,212	171,719	0	0	
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	20,755	õ	0	
Substructure (Abut;for Timber;101)	NO	0.00	865,439	140,298	ò	Ő	
Substructure (Pier;for Timber;8N50)	NO	0.00	443,165	42,543	ò	õ	
Substructure (Abut;for Timber;BNSO)	NO	0.00	972,620	155,128	0	ů 0	
Substructure (Pier;for Concrete;BN50)	NO	0.00	1,617,523	464,086	Ô	Ô	
Substructure (Abut;for Concrete;BN50)	NO	0.00	3,382,742	977, 597	0	0	
Demolition of Bridge (Timber-)Timber)	#2	0.00	9,818	1,231	0	0	
Demolition of Bridge (limber-)Concrete)	¤2	0.00	•	1,231	0	0	
Demolition of Bridge (Concrete)	<b>e</b> 2	0.00	74,919	79,345	0	0	
faintenance of Timber Bridge (New)	<b>#</b> 2	0.00	6,531	1,032	0	0	
laintenance of Concrete Bridge (New)	a2	0.00	1,663	2,961	0	0	i
laintenance of Timber Bridge (Exist)	•2	36.00	7,111	2,360	255,996	84,960	340,95
laintenance of Concrete Bridge (Exist)	#2	0.00	4,178	2,436	0	0	
{ Without Overhead }	ſ	OTAL COST	(Timber Bridg	2)	 Q	0	
			(Concrete Bri	dge)	0	0	I
	Ţ	OTAL COST	(without Main	tenance)	0	0	(
( Overhead : 15% )	т	DIAL COST	(Tieber Bridg		0	0	
	•		(Concrete Dri		ů 0	õ	
			(without Nain		Û	ň	

PROV : KALIMANTAN SELATAN KAB : HÜLU SUNGAI SELATAN LINK ND : 50 (IIIA) LENGTH : 3 Km

( Rp } -----<<< UNIT COST >>> ((((( COST I T E N UNIT QUANTITY LOCAL FORE1GN LOCAL FOREIGN TOTAL ____ ***************** 34,583 3,107 Superstructure (limber;Span 3#;101) a2 0.00 Û 0 Û Superstructure (Timber;Span 50;101) Û #2 0.00 38,306 3,131 0 0 Superstructure (limber;Span 8m;101) a2 0.00 50,736 4,509 0 0 Ô 3,842 Superstructure (Timber;Span 3m;BH50) 0 0.00 42,882 0 0 **a**2 Superstructure (limber;Span 5m;BH50) ×2 0.00 46,813 4,165 0 0 0 5,273 Superstructure (limber;Span 8m;BH50) 59,371 0 ۵ 0.00 ٥ 62 Superstructure (Concrete;Span 3a;BMSO) a2 0.00 41,322 105,105 0 0 Ô Superstructure (Concrete;Span Sm;BHSO) 0.00 42,593 117,578 0 0 Û #2 Superstructure (Concrete;Span 8m;BH50) 43,993 128,145 82 0.00 Q Û Ô 0.00 145,655 Superstructure (Concrete; Spanion; BN50) 48,214 0 0 ۵ ø2 Superstructure (Concrete; Span15a; BH50) 0.00 52,212 171,719 0 Q Û a2 Substructure (Pier; for Timber; 101) XO 0.00 301,321 28,755 0 0 0 Substructure (Abut;for limber;101) 0.00 865,439 140,298 0 0 ЯО Û Substructure (Pier;for Timber;8850) NO 0,00 443,165 42,543 0 0 Ô Substructure (Abut; for Timber; 8N50) NO 0.00 972,620 155,128 0 0 0 Substructure (Pier;for Concrete;BN50) NO 0.00 1,617,523 464,086 0 Û Ô Substructure (Abut; for Concrete; BN50) 977,597 0 0 ND 0.00 3,382,742 Ô Demolition of Bridge (limber-)limber) 0.00 9,918 1,231 0 Q Ð a2 Demolition of Bridge (Timber-)Concrete) 0.00 9,818 1,231 Û Q #2 Ð Demotition of Bridge (Concrete) 0.00 74,919 79,345 0 0 a2 £ 0.00 1,032 0 0 Û Maintenance of Timber Bridge (New) a2 6,531 Haintenance of Concrete Bridge (New) e2 0.00 1,663 2,951 0 0 Ø Naintenance of Timber Bridge (Exist) 50.40 7,111 2,360 358,394 118,944 477,338 ∎2 Naintenance of Concrete Bridge (Exist) 62 0.00 4,178 2,436 0 ô ( Without Overhead ) TOTAL COST (Timber Bridge) 0 0 ð (Concrete Bridge) 0 0 0 TOTAL COST (without Haintenance) 0 Ð 0 _____ TOTAL COST (Timber Bridge) ( Overhead : 15% ) Ô 0 0 (Concrete Bridge) 0 0 0 TOTAL COST (without Naintenance) 0 ٥ 0

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LINK NO : 52 (IIIB-1) LENGTH : 5 Km

17EN		*===+					( Rp
····	UNIT	QUANTITY	LOCAL	COST >>> Foreign	//////	COST Fore IGN	>>>>> Tota
Superstructure (Tløber;Span 3ø;101)	a2	0.00	34,503	3,107	•		
Superstructure (Timber;Span 5m;10T)	n2	0.00	38,305	3,431	0	0	
Superstructure (limber;Span Ba;101)	B2	0.00	50,735	4,509	0 0	0	
Superstructure (Timber;Span 3m;BHSO)	e2	0.00	42,882	3,842	0	v	
Superstructure (Tlaber;Span Sa;BH50)	62	0.00	46,813	4,165	0	0	
Superstructure (Timber;Span Bm;BM50)	ø2	0.00	59,371	5,273	0	0	
Superstructure (Concrete;Span 3ø;BM50)	=2	0.00	41,322	105,105	0	Ŭ	
Superstructure (Concrete;Span 5#;8N50)	•2	0.00	42,593	117,578	0	Ų A	
Superstructure (Concrete;Span 8#;BN50)	•2	0.00	43,993	128,145	v D	v D	
Superstructure (Concrete;Span10#;BN50)		0.00	48,214	145,655	0	•	
Superstructure (Concrete;Span15ø;BM50)	#2	0.00	52,212	171.719	0	0	
Substructure (Pier;for Timber;10T)	20	0.00	301,321	28,755		0	
Substructure (Abut;for Timber;107)	ND	0.00	865,439	140,298	0	0	
Substructure (Pier;for Timber;BH50)	NO	0.00	443,165	42,543	0	0	
Substructure (Abut;for Timber;9850)	NO	0.00	972,620	155,128	0	Q Q	
Substructure (Pier;for Concrete;8850)	NO	0.00	1,617,523	464,086	0	ů Ú	
Substructure (Abut;for Concrete;BNSO)	NO	0.00	3,382,742	977,597	0	0 0	
Demolition of Bridge (Timber~)Timber)	#2	0.00	9,818	1,231	0	0	
Demolition of Bridge (Timber-)Concrete)	a2	0.00	9,818	1,231	0	Ô	
Desolition of Bridge (Concrete)	42	0.00	74,919	79,345	0	0	
faintenance of Timber Bridge (Nex)	#2	0.00	6,531	1,032	Q	0	
laintenance of Concrete Bridge (New)	#2	0.00	1,663	2,961	0	0	
laintenance of Timber Bridge (Exist)	<b>a</b> 2	43.20	7,111	2,360	307,195	101,952	409,14
laintenance of Concrete Bridge (Exist)	e2	0.00	4,178	2,436	0	0	
( Without Overhead )		otal cost	(Tieber Bridg	16)	0		********
		•	(Concrete Bri		0	Ó	
	T	OTAL COST	(without Hair		0	0	
( Overhead : 15% )	 T	OTAL COST	(Tisber Bride	16)	0	0	
			(Concrete Øri	,	0	0	
	т	n161 CBS1	(without Mair	•	0	Ô	

FROV	1	KALIMANTAN	SELATAN	КАВ	t	HULU SUNGAI SELATAN

LINK NO : 57 (IIIC) LENGTH : 7 Km

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] T E H	UN!T	QUANTITY		COST >>> Foreign	<<<<< LOCAL	COST Foreign	<<<<<<>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Superstructure (Timber;Span 3m;10T)	a2	0.00	34,583	3,107	0	0	
Superstructure (lisber;Span 5e;101)	#Z	0.00	38,306	3,431	0	0	
Superstructure (Timber;Span 8a;101)	a2	0.00	50,736	4,509	0	0	
Superstructure (Timber;Span 3m;BNSO)	a2	0.00	42,882	3,842	0	0	
Superstructure (Timber;Span 5m;BN50)	a2	0.00	46,813	4,165	0	0	
Superstructure (Timber;Span 80;BH50)	a2	0.00	59,371	5,273	0	0	
Superstructure (Concrete;Span 3#;BHSO)	a2	0.00	41,322	105,105	0	0	
Superstructure (Concrete;Span 58;BNSO)	82	0.00	42,593	117,578	0	0	
Superstructure (Concrete;Span 8#;BM50)	#2	0.00	43,993	128,145	0	0	
Superstructure (Concrete;Spanlow;BM50)	#2	0.00	48,214	145,655	0	0	
Superstructure (Concrete;Spanism;BMSO)	a2	0.00	52,212	171,719	Ő	ů	
Substructure (Pier;for Timber;10T)	NO	0.00	301,321	28,755	0	ů 0	
Substructure (Abut;for Timber;101)	NO	0.00	865,439	•	0	0	
Substructure (Pier;for Timber;BN50)	NO	0.00		140,298	0	0	
			443,165	42,543	0	0	
Substructure (Abut;for Timber;BN50)	ND	0.00	972,620	155,128	0	0	
Substructure (Pier;for Concrete;BN50)	NO	0.00	1,617,523	464,086	0	0	
Substructure (Abut;for Concrete;DN50)	NO - 7	0.00	3,382,742	977,597	•	0	
Demolition of Bridge (Timber->Timber)	#2 - 2	0.00	9,818 5,810	1,231	0	•	
Demolition of Bridge (Timber-)Concrete)	a2 - 7	0.00	9,819 74 010	1,231	0	0 0	
Demolition of Bridge (Concrete)	¢2	0.00	74,919	79,345	0	U	
faintenance of Timber Bridge (New)	•2	0.00	6,531	1,032	0	0	
laintenance of Concrete Bridge (New)	#2	0.00	1,663	2,961	0	0	
Naintenance of Timber Bridge (Exist)	a2	10.80	7,111	2,360	76,798	25,48B	102,2
laintenance of Concrete Bridge (Exist)	42	0.00	4,178	2,436	0	0	
(Without Overhead)	 T	DIAL COST	(Tiøber Bridg	e)	0	0	*******
			(Concrete Bri		Ō	0	
	T	DTAL COST	(without Nain		0	0	
(Overhead : 15½)	1	DTAL COST	(Timber Bridg	e)		0	
			(Concrete Bri		0	0	
	T	NTAL COST	(without Main		0	0	

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LINK ND : 60 (IIIB-1) LENGTH : 7 Km

ITEN			/// BBFT		*****		(Ap
	UNIT	QUANTITY	LOCAL	FOREIGN	\\\\\ LOCAL	COST Foreign	>>>>>> 1017
Superstructure (Timber;Span 3m;10T)	a2	0.00	34,583	3,107	0		
Superstructure (Timber;Span 5#;101)	#2	0.00	38,306	3,431	-	0	
Superstructure (Timber;Span Ba;101)	#2	0.00	50,736	4,509	0	0	
Superstructure (limber;Span Jm;BH50)	a2	0.00	42,862	3,842	0	0	
Superstructure (Finber;Span 5n;BNSO)	#2	0.00	46,813	4,165	0	0	
uperstructure (Timber;Span Bm;BH50)	a2	0.00	59,371	5,273	0	0	
uperstructure (Concrete;Span 3m;BH50)	12	0.00	41,322	105,105	0	0	
uperstructure (Concrete;Span 5a;BM50)	e2	0.00	12,593	117,578	V	U	
uperstructure (Concrete;Span 8m;BHSO)	•2	0.00	43,993	128,145	0	0	
uperstructure (Concrete;Span10m;BH50)	±2	0.00	49,214	145,655	0	0	
Superstructure (Concrete;Span15a;BNSO)	s 2	0.00	52,212	171,719	0	v	
Substructure (Pier;for Timber;101)	NO	0.00	301,321	28,755	· 0	0	
ubstructure (Abut;for Timber;101)	RO	0.00	665,439	110,298	0	Û	
ubstructure (Pier;for Tieber:8H50)	NO	0.00	443,165	42,543	0	0 A	
ubstructure (Abut;for Timber;8N50)	HO	0.00	972,620	155,128	Û	0	
Substructure (Pier;for Concrete;BN50)	KO	0.00	1,617,523	464,086	0	0	
Substructure (Abut;for Concrete;BN50)	NO	0.00	3,382,742	977,597	0	0	
leaplition of Bridge (Timber-)Timber)	# 2	0.00	9,818	1,231	õ	0	
enolition of Bridge (Timber-)Concrete)	a2	0.00	9,818	1,231	ů Ú	v ۵	
emolition of Bridge (Concrete)	#2	0.00	74,919	79,345	Ŏ	Ő	
aintenance of limber Bridge (New)	#2	0.00	6,531	1,032	0	0	
aintenance of Concrete Bridge (New)	e2	0.00	1.663	2,961	0	0	
aintenance of lisber Bridge (Exist)	\$ 2	88.20	7 111	2,360	627,190	208,152	835,3
aintenance of Concrete Bridge (Exist)	8 2	0.00	4,178	2,436	0	0	
{ Without Overhead }		ATAL COST	(Tinber Bridg	p)		0	
	•		(Concrete Bri		0	0	
	T	OTAL COST	(without Hain	tenance)	0	0	
(Overhead : 15%)	 T	DIAL COST	(Timber Bridg	e)	0	0	
· ····································	•		(Concrete Bri		0	0	
	3	ntal Cost	Without Hain	•	0	0	

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LINK NO : 65 (IIIB-1) LENGTH : 6 Km

ITEN					>>>>>>	COST Foreign	>>>>> Tutai
**	UN11	9UANT LTY	LOCAL			FUXCION	
Superstructure (Timber;Span 3#;10T)	¢2	0.00	34,583	3,107	0	0	(
Superstructure (Timber;Span 5m;101)	e2	0.00	38,306	3,431	0	0	
Superstructure (Timber;Span 8m;10T)	9Z	0.00	50,736	4,509	0	0	1
Superstructure (Timber;Span 3m;8H50)	#2	0.00	42,8B2	3,842	0	0	I
Superstructure (Timber;Span 5m;BH50)	s2	0.00	16,813	4,165	0	0	1
Superstructure (limber;Span 8m;BMS0)	a2	0.00	59,371	5,273	0	0	
Superstructure (Concrete;Span 3æ;BNSO)	a2	0.00	41,322	105,105	0	0	
Superstructure (Concrete;Span 5#;BN50)	a2	0.00	42,593	117,578	0	0	
Superstructure (Concrete;Span 8m;BHSO)	s2	0.00	43,993	128,145	0	0	
Superstructure (Concrete;Span10#;BMSO)	a2	0.00	48,214		Û	0	1
Superstructure (Concrete;Span15s;BH50)	e2	0.00	52,212		0	0	
Substructure (Pier;for Timber;10T)	NO	0.00		28,755	0	0	
Substructure (Abut;for Timber;101)	XO	0.00	865,439		0	0	1
Substructure (Pier; for Timber; BN50)	NO	0.00	443,165		0	0	
Substructure (Abut; for Timber; BN50)	ND	0.00	972,620	155,128	0	0	
Substructure (Pier;for Concrete;BN50)	NO	0.00	1,617,523		0	0	
Substructure (Abut;for Concrete;BH50)	NO		3,382,742		0	0	
Demolition of Bridge (Timber->Timber)	e2	0.00	9,818		0	0	
Demolition of Bridge (Timber-)Concrete)	≥2		9,819	1,231	0	0	
Demolition of Bridge (Concrete)	#2		74,919		0	Õ	
Naintenance of Timber Bridge (New)	B2	0.00	6,531	1,032	0	0	
Maintenance of Concrete Bridge (New)	a2	0.00	1,663	2,961	0	0	
Maintenance of Timber Bridge (Frist)	#2	0.00	7,111	2,360	0	0	
Maintenance of Concrete Bridge (Exist)	n2	79.20	4,178	2,436	0 0 330,897	192,931	523,82
(Without Overhead)	 T	01AL COST	(Tieber Bridg		0		********
/ HICHUGE DACINEAD /	ť	01ML 0031	(Concrete Bri		0	Ŏ	
	7	1201 INTO	(without Mair		ů,	ò	
					·		
(Dverhead : 15%)	I	OTAL COST	(Ilober Bridg		0	0	
			(Concrete Bri		0	0	
	ſ	otal cost	(without Main	itenance)	0	0	

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LINK ND : 81 (IIIB-1) LENGTH : 2 Km

							(Rp
I T E H	UN] T	PUANTITY	<<< UNET Local	COST >>> Foreign	<<<<< Local	COST Foreign	>>>>>> tota
Superstructure (limber;Span Jm;107)	a2	0.00	34,583	3,107	0		
Superstructure (Timber;Span 5m;10T)	ø2	0.00	38,306	3,431	0	0 0	
Superstructure (Timber;Span Bm;10T)	#2	0.00	50,736	4,509	0	0	
Superstructure (Timber;Span 3m;BH50)	a2	0.00	42,882	3,842	0	0	
Superstructure (limber;Span 5m;BH50)	#2	0.00	46,813	4,165	0	0	
Superstructure (Timber;Span 8m;8H50)	\$ 2	0.00	59,371	5,273	0	U A	
Superstructure (Concrete;Span 3±;BM50)	a2	0.00	41,322	105,105	0	v	
Superstructure (Concrete;Span Sa;BM50)	#2	0.00	42,593	117,578	•	0	
Superstructure (Concrete;Span 8e;BNSO)	#2	0.00	43,993	128,145	0	0	
Superstructure (Concrete;SpanlOm;BNSO)	a2	0.00	48,214	145,655	0	0	
Superstructure (Concrete; Span15m; BM50)	42	0.00	52,212	1431833	0	0	
Substructure (Pier;for Tisber;10T)	NO	0.00	301,321	28,755		0	
Substructure (Abut;for Timber;10T)	NO	0.00	965,439	140,298	0	0	
Substructure (Pier;for Timber;BN50)	NO	0.00	443,165	42,543	0	0	
Substructure (Abut;for Timber;BM50)	NO	0.00	972,620	155,128	0	0	
Substructure (Pier;for Concrete;PNSO)	NO	0.00	1,617,523	464,086		•	
Substructure (Abut;for Concrete;BNSO)	NO	0.00	3,382,742	977,597	0	0	
Demolition of Bridge (Timber-)lisber)	#2	0.00	3,302,712 9,819	•	0	0	
Demolition of Bridge (Timber-)Concrete)	# <u>2</u>	0.00	7,818 9,818	1,231 1,231	0	0	
Denslition of Bridge (Concrete)	#2	0.00	74,919	79,345	0 0	0	
laintenance of Timber Bridge (New)	≩2	0.00	6,531	1,032	0	0	
laintenance of Concrete Bridge (New)	a2	0.00	1,663	2,961	ŏ	0	
laintenance of Timber Bridge (Exist)	•2		7,111	2,360	102,398	33,981	136,3
laintenance of Concrete Bridge (Exist)	#2	0.00	4,178	2,436	0	0	10010
(Without Overhead)	 1	OTAL COST	(Tinber Bridg	e)	0	0	********
			(Concrete Bri		0	0	
	ſ	OTAL COST	(without Main		0	0	
						 A	
(Overhead : 15%)	T	UTAL COST	(limber Bridg		0	0	
	τ	NTAL 1967	(Concrete Bri (without Main		0	0	
	1	UIRE LUST	(MICHORE USIA	(endarce)	v .	v	

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LINK NO : 82 (III8-1) LENGTH : 5 Km

1 T E H	UNTE	QUANTETY	KKK UNIT Local	COST >>> Foreign	\\\\\ \0CAL	COST Foreign	>>>>> Total
	*	********	******				
Superstructure (Timber;Span 3m;101)	\$ 2	0.00	34,583	3,107	0	0	(
uperstructure (limber;Span 50;101)	a2	0.00	38,306	3,431	0	0	(
Superstructure (linber;Span Ba;101)	82	0.00	50,736	4,509	0	ų	(
uperstructure (Timber;Span 3m;BM50)	a2	0.00	42,882	3,842	0	0	
uperstructure (Timber;Span 5m;BH50)	· •2	0.00	46,813	4,165	0	0	
uperstructure (Timber;Span 8m;BK50)	#2	0.00	59,371	5,273	U	0	(
uperstructure (Concrete;Span 3e;BH50)	¤2	0.00	41,322	105,105	0	Ç A	
uperstructure (Concrete;Span 5m;BH50)	#2	0.00	42,593	117,578	0	0	l
uperstructure (Concrete;Span 8m;BHSO)	#2	0.00	43,993	120,145	0	0	1
uperstructure (Concrete;Span10a;BH50)	a2	0.00	48,214	145,655	0	0	1
Superstructure (Concrete;Span15m;BH50)	#2	0.00	57,212	171,719	U .	0	
Substructure (Fier;for Timber;10T)	ND	0.00	301,321	28,755	0	0	
Substructure (Abut;for Timber;101)	NO	0.00	865,439	140,298	0	. 0	
ubstructure (Pier;for Timber;BN50)	NO	0.00	443,165	42,543	0	0	
Substructure (Abut;for Timber;8850)	HO	0.00	972,620	155,128	0	0	
Substructure (Pier;for Concrete;BM50)	KO	0.00	1,617,523	464,086	0	0	
Substructure (Abut;for Concrete;BN50)	NO	0.00	3,382,742	977,597	0	0	
lemolition of Bridge (limber-)limber)	#2	0.00	9,818	1,231	0	0	
Demolition of Bridge (Timber-)Concrete)	a2	0.00	9,818	1,231	0	0	
emolition of Bridge (Concrete)	ø2	0.00	74,919	79,345	0	0	
aintenance of Timber Bridge (New)	#2	0.00	6,531	1,032	0	0	
aintenance of Concrete Bridge (New)	o2	0.00	1,663	2,961	0	0	
laintenance of Timber Bridge (Exist)	a2	59.40	7,111	2,360	422,393	140,184	562,57
laintenance of Concrete Bridge (Exist)	#2	72.00	4,178	2,436	300,816	175,392	476,20
(Without Overhead)	I	OTAL COST	(Timber Bride	16}	0	0	
			(Concrete Bri		0	0	
	ĩ	OTAL COST	(without Main	•	0	0	
(Overhead : 15%)		DTAL COST	{Timber Bride	se)	0	0	
1 WYES NEEDE 1 10/1 1			(Concrete Br		Ő	Õ	
	T	07A) COST	Without Main		õ	ů	

LINK NO : 83 (1118-1) LENGTH : 5 Km

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ITEN	* *** ** ** **	********	277 IMIT	COST >>>			(Rp
	UNIT	QUANTITY	LOCAL	FOREIGN	\\\\\ Local	COST FOREIGN	>>>>> 1014
uperstructure (limber;Span 3m;101)	#2	0.00	34,583	3,107	0		
uperstructure (Timber;Span So;101)	#2	0.00	38,306	3,431	0	0	
uperstructure (Timber;Span Ba;107)	#2	0.00	50,736	4,509	0 0	0 0	
uperstructure (Timber;Span 3m;BH50)	#2	0.00	42,882	3,842	0	0 0	
uperstructure (limber;Span Sm;BHSD)	#2	0.00	16,813	4,165	0	0	
uperstructure (Timber;Span 8m;BKSO)	#2	0.00	59,371	5,273	0	v A	
operstructure (Concrete;Span 3m;BHSO)	a2	0.00	41,322	105,105	0	0 0	
uperstructure (Concrete;Span 5n;BM50)	a2	0.00	42,593	117.578	0	0	
operstructure (Concrete;Span 8m;BHSO)	a2	0.00	43,993	128,145	0	ů.	
uperstructure (Concrete;Span10a;BMSO)	#2	0.00	48,214	145,655	0	0	
uperstructure (Concrete;Span15a;BN50)	a2	0.00	52,212	171,719	0 0	Û Û	
ubstructure (Pier; for Timber; 10T)	NO	0.00	301,321	28,755	0	0	
ubstructure (Abut;for Timber;101)	NO	0.00	865,439	140,298	0	0	
ubstructure (Pier; for Timber; 8050)	NO	0.00	443,165	42,543	Ő	0	
ubstructure (Abut;for fimber;8850)	NO	0.00	972,620	155,128	0	Ŏ	
ubstructure (Pier;for Concrete;BN50)	NO	0.00	1,617,523	464,086	õ	0	
ubstructure (Abut;for Concrete;DNSO)	ND	0,00	3,382,742	977,597	v n	ů O	
esolition of Bridge (Timber-)Timber)	#2	0.00	9,818	1,231	0 0	Õ	
emolition of Bridge (Timber-)Concrete)	a2	0.00	9,818	1,231	U A	0	
eablition of Bridge (Concrete)	a2	0.00	74,919	79,345	0	0	
aintenance of Timber Bridge (New)	s 2	0.00	6,531	1,032	0	0	
aintenance of Concrete Bridge (New)	•2	0.00	1,653	2,961	0	D	
aintenance of Timber Bridge (Exist)	•2	136.80	7,111	2,360	972,784	322,848	1,295,6
aintenance of Concrete Bridge (Exist)	a 2	0.00	4,178	2,436	0	0	-11-
(Without Overhead)	 T	OTAL COST	(limber Bride	eł.	0		
			(Concrete Bri		0	0	
	T	OTAL COST	(without Mair		0	0	
ł Dunchurd - (EY)			(Tinha- 8-14-		0	0	
(Overhead : 15%)	1	OTHE CRAT	(limber Bridg (Concrete Bri		0	0	
	1	OTAL COST	(without Mair		0	0	

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LINK NO : 07 (IIIB-1) LENGTH : 8 Km

ITEN	UNIT	QUANTITY		COST >>> Foreion	////// 1 DCAL	COST Foreign	>>>>>> total
C	-7	A AA	74 607	7 107	٥	0	0
Superstructure (Vimber;Span 3m;10T) Superstructure (Vimber;Span 5m;10T)	a2 a2		34,583 70, 70/	3,107	0	Ů	0
			38,306	3,431	•	0	0
Superstructure (Timber;Span 8#;101)	#2 #2		50,736	4,509	0	0	0
Superstructure (Timber;Span 3m;8H5O) Superstructure (Timber;Span 5m;8H5O)	#2 #2	0.00 0.00	42,682 46,813	3,842	0	0	U A
Superstructure (Timber;Span J#;BNSO)	#£ 62			1,165	0	0	0
Superstructure (Concrete;Span 3m;SH50) Superstructure (Concrete;Span 3m;SH50)	62 92		59,371	5,273	0 0	0	0
Superstructure (Concrete;Span Sm;BNSO)	#2 #2		41,322	105,105 117,578	0	0	0
Superstructure (Concrete;span Sw;onSo) Superstructure (Concrete;Span Ba;BMSO)	62		42,593	•	0	0	0
			43,993	128,145	•	0	. 0
Superstructure (Concrete;Span10#;BN50) Superstructure (Concrete;Span15#;BN50)	a2 a2		48,214	145,655	0	U 0	ů v
Superstructure (Loncrete;Spanis#;Bnov) Substructure (Pier;for Timber;10T)	ND ND	0.00	\$2,212	171,719	Ŭ	U O	Ű
Substructure (Abut;for Timber;101)	NO	0.00	301,321	28,755	0	0	0
Substructure (Pier;for Timber;1917 Substructure (Pier;for Timber;BNSO)	NO ND	0.00	865,439	140,298 42,543	0	0	0
	NO		443,165	-	0	Û	0
Substructure (Abut;for Timber;BM50)		0.00	972,620	155,128	0	U O	0
Substructure (Pier;for Concrete;BNSO)	ND	0.00	1,617,523	464,086	0	0	0
Substructure (Abut;for Concrete;BN50)	NO - D	0.00	3,382,742	977,597	•	0	0
Demolition of Bridge (Timber->Timber)	a2		9,818	1,231	0	U 0	•
Demolition of Bridge (Timber-)Concrete)	s2		9,818	1,231	0	U 0	0
Demolition of Bridge (Concrete)	a2	0.00	74,919	79,345	0	Ű	0
Nalntenance of Timber Bridge (New)	e2	0.00	6,531	1,032	0	0	0
Maintenance of Concrete Bridge (New)	a2	0.00	1,663	2 961	0	0	0
Maintenance of Timber Bridge (Exist)	#2	104.40	7,111	2,360	742,388	246,384	988,772
Naintenance of Concrete Bridge (Exist)	#2	0,00	4,178	2,436	0	0	C
(Without Overhead)		1207 (ATA)	(Tisber Bridg	•••••	0	0	
T MICHOUL UYERNEAU P	,	aine cudi	(Concrete Bri		Ő	0	
	ſ	OTAL COST	(without Main	•	0	0	(
(Overhead : 15%)	 T	DTAL COST	(Tiøber Bridg		0	0	
	-		(Concrete Bri		0	0	(
	I	OTAL COST	(without Hain	itenance)	0	0	C

PROV

: KALIMANTAN SELATAN

LINK NO : 91

(IIIC)

N KAB : HL LENGTH : 5 Km

HULU SUNGAI SELATAN

(Rp) ----((((([0PM ITEN <<< UNIT COST >>> COST UNIT QUARTETY LOCAL FOREIGH LOCAL FOREISN IDIAL Superstructure (Timber;Span Ja:101) •7 0.00 34,583 3,107 0 0 0 Superstructure (Timber;Span 5m;(OT) •2 0.00 38,306 3 431 0 0 Ò Superstructure (Timber;Span Ba;101) 1,509 a2 0.00 50,736 0 Û. 0 Superstructure (Timber;Span 3m;BHSO) 3,842 4,165 a2 0.00 42,882 0 0 Ò Superstructure (Timber;Span 5m;BH50) •2 0.00 46,813 0 0 Û Superstructure (Timber;Span 8m;BN50) 5,273 ₩Z 0.00 59,371 Ô ð 0 Superstructure (Concrete;Span 3#;BM50) s2 0.00 41,322 105,105 0 0 Û Superstructure (Concrete; Span 5m; BH50) •2 0.00 42,593 117,578 0 Û Ò 128,145 Superstructure (Concrete;Span 8e;BNSO) e2 0.00 43,993 0 0 Û Superstructure (Concrete; Span10m; BM50) **6**2 0.00 48,214 145,855 0 Ð ð 171,719 Superstructure (Concrete;Span15e;BH50) •2 0.00 52,212 0 0 Ô Substructure (Pier; for Tisber; 101) NO 0.00 301,321 28,755 0 0 Ð Substructure (Abut; for Timber; 101) NO 0.00 865,439 110,298 Û 0 Ð Substructure (Pier;for Timber;BM50) 0.00 10 443,165 42,543 0 0 Ð Substructure (Abut;for Timber;BN50) NO 0.00 972,620 155,128 0 0 Û Substructure (Pier; for Concrete; 8850) NO 0.00 1,617,523 464,086 ð Û. ñ 977,597 Substructure (Abut;for Concrete;BH50) NO 0.00 3,382,742 0 Ō 0 Denolition of Bridge (Timber->Timber) a2 0.00 9,918 1,231 Ò 0 0 1,231 Demolition of Bridge (Timber-)Concrete) •2 0,00 9,818 0 0 0 Demolition of Bridge (Concrete) 79,345 e2 0,00 74,919 0 0 0 Maintenance of Timber Bridge (New) a2 0.00 6,531 1,032 0 0 ۵ Naintenance of Concrete Bridge (New) e2 0.00 1,663 2,961 û 0 ð Maintenance of Timber Bridge (Exist) 127,440 •2 54.00 7,111 2,360 383,994 511.434 Maintenance of Concrete Bridge (Exist) e2 0.00 4,178 2,436 0 0 Ô (Without Overhead) TOTAL COST (Timber Bridge) Ô 0 Ô (Concrete Bridge) Û Û Ó TOTAL COST (without Haintenance) Ô 0 Û 0 (Overhead : 15%) TOTAL COST (Timber Bridge) e 0 (Concrete Bridge) 0 Û Û TOTAL COST (without Maintenance) 0 0 0

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PROV : KALIMANTAN SELATAN KAB : HULU SUNGAI SELATAN

LINK ND : 121 (IIIB-2) LENGTH : 8 Km

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1 T E H	UNIT	QUANTITY	<<< UNIT Local	COST >>> Foreign	،//// Local	COST Fore Ign	>>>>> Tota
Superstructure (Timber;Span 3m;101)	#2	0.00	34,583	3,107	0	0	I
uperstructure (Timber;Span 5m;101)	a2	0.00	38,306	3,431	0	0	
Superstructure (Timber;Span Ba;10T)	"2	0.00	50,736	4,509	0	0	
Superstructure (Timber;Span 3#;BN50)	a2	0.00	42,882	3,642	0	0	
Superstructure (Timber;Span Sm;BN50)	#2	0.00	46,813	4,165	ů.	0	
operstructure (limber;Span Bn;BM50)	a2	0.00	59,371	5,273	0	0	
uperstructure (Concrete;Span 3a;BNSO)	#2	0.00	41,322	105,105	Ô	Ō	
uperstructure (Concrete;Span 5#;BHSO)	#2	0.00	42,593	117,578	0	0	
Superstructure (Concrete;Span 8a;BNSO)	a2	0.00	43,993	128,145	0	0	
operstructure (Concrete;Spanios;BNSO)	a2	0.00	48,214	145,655	0	ò	
Superstructure (Concrete;Span15#;BN50)	#2	0.00	52,212	171,719	õ	0	
ubstructure (Pier;for Timber;10T)	#2 NO	0.00	301,321	28,755	Ň	ò	
ubstructure (Abut;for Timber;101)	ол (),	0.00	865,439	140,298	ò	Ň	
lubstructure (Pier;for Timber;BN50)	NO	0.00	443,165	42,543	õ	Ô	
Austructure (Abut;for Timber;BN50)	NO	0.00	972,620	155,128	Å	0	
		0.00	•	464,086	Ň	Ó	
ubstructure (Pier;for Concrete;BNSO)	NO		1,617,523 3,392,742	977,597	۷ ۸	0	
ubstructure (Abut;for Concrete;BNSO)	NO - D	0.00 0.00	5,502,742 7,818	1,231	v ^	0	
esolition of Bridge (lieber-)lieber)	e2	0.00	7,818	1,231	0	0	
emolition of Bridge (Timber-)Concrete)	#2 - 7				Û	0	
enolition of Bridge (Concrete)	я2	0.00	74,919	79,345	v	v	
laintenance of Timber Bridge (Hew)	¢2	0.00	6,531	1,032	0	0	
aintenance of Concrete Bridge (New)	n 2	0.00	1,663	2,961	0	0	
laintenance of Timber Bridge (Exist)	s2	86.40	7,111	2,360	614,390	203,904	818,29
aintenance of Concrete Bridge (Exist)	#2	0.00	4,170	2,136	0	0	
(Without Overhead)	1	OTAL COST	(Timber Bridg	16}	0	0	
			(Concrete Bri		0	0	
	ĭ	DIAL COST	(without Hair		0	0	•
(Overhead : 15%)	T	OTAL COST	(Tieber Bridg	ie)	0	0	
			(Concrete Bri		0	0	
	ĩ	OTAL COST	twithout Hain	tenance)	0	0	

LINK NO : 123 (IIIB-2) LENGTH : 7 Km

ITEN Superstructure (Timber;Span 3m;101) Superstructure (Timber;Span 5m;101) Superstructure (Timber;Span 8m;101) Superstructure (Timber;Span 3m;8M50) Superstructure (Timber;Span 5m;8M50) Superstructure (Timber;Span 8m;8M50)	a2 s2 s2 s2 s2	QUANTITY 0.00 0.00	LOCAL 34,593	COST >>> FOREIGN 3,107	((((((LOCAL	COST Fore16x	>>>>> Total
uperstructure (Yimber;Span Sm;10T) Superstructure (Yimber;Span Bm;10T) Superstructure (Timber;Span 3m;BHSO) Superstructure (Timber;Span Sm;BHSO)	s2 s2 s2	0.00		7 147			
Superstructure (Timber;Span 8m;10T) Superstructure (Timber;Span 3m;8M5O) Superstructure (Timber;Span 5m;8M5O)	a2 a2				0	0	,
uperstructure (Timber;Span 3m;8H5O) Superstructure (Timber;Span 5m;BH5O)	a2		38,306	3,431	Û Û	0	(1
uperstructure (Timber;Span 3m;8H5O) Superstructure (Timber;Span 5m;BH5O)		0,00	50,736	4,509	0	U A	
		0.00	42,882	3,842	0	0	(
	# 2	0.00	16,813	1,165	ů ů	U A	(
	s2	0.00	59,371	5,273	0	U A	L
Superstructure (Concrete;Span 3e;BM50)	12	0.00	41,322	105,105	0	0	(
uperstructure (Concrete;Span Sa;BNSO)	a2	0.00	42,593	117,578	0	Ŭ	(
uperstructure (Concrete;Span 8#;BHSO)	a2	0.00	43,993	128,145	v	Ŷ	(
Superstructure (Concrete;Span10#;BH50)	a2	0.00	48 214	145,655	V O	•	(
Superstructure (Concrete;Spant5#;BM50)	a2	0.00	52,212	•	U A	0	t
abstructure (Pier; for Timber; 107)	NO	0.00	301,321	171,719 28,755	0	0	(
Substructure (Abut; for Timber; [0])	XO	0.00	85,439		0	0	(
ubstructure (Pier;for Timber;BN50)	KO	0.00	443,165	140,298 40 sat	0	0	(
ubstructure (Abut;for Fisber;BN50)	NO	0.00	972,620	42,543	0	0	(
ubstructure (Pier; for Concrete; BH50)	NO	0.00	1,617,523	155,128	0	0	(
ubstructure (Abut;for Concrete;BNSO)	NO	0.00	3,382,742	464,086 077 507	0	0	(
exolition of Bridge (limber-)limber)	a2	0.00	9,018	977,597 1,231	U D	0	(
easilition of Bridge (Ilaber-)Concrete)	42	0.00	9,818	•	0 0	0	(
emolition of Bridge (Concrete)	#2	0.00	74,919	1,231 79,345	0	0	(
laintenance of Timber Bridge (New)	s2	0.00	6,531	1,032	0	0	
aintenance of Concrete Bridge (New)	a2	0.00	1,663	2,961	0	0	(
aintenance of Tigber Bridge (Exist)	s2	48.00	7,111	2,360	341,328	113,280	454,600
aintenance of Concrete Bridge (Exist)	#2	0.00	4,178	2,436	0	0	
(Without Overhead)	T	OTAL COST	(Timber Bride	e}	0	0	
			(Concrete Øri		0	Ó	4
	T	OTAL COST	(without Hair		0	0	
(Overhead : 15%)	 t	otal coet	(Tinber Bride			0	
(UNEL HEAR : 134 1	•	UINC 0031	(Concrete Bri		0	U O	
	,	DTAL POPT	Without Hair		0	0	

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LINK NO : 126 (IIIB-2) LENGTH : 7 Km

(Rp)

I TEN				COST >>>	>>>>>>	COST	>>>>>>
		DUANTETY	LOCAL	FORE16N	LOCAL	FORELGN	101A
Superstructure (limber;Span 3m;101)	s2	0.00	34,583	3,107	0	0	
Superstructure (Timber;Span 5m;101)	e2	0.00	38,306	3,431	0	0	
lugerstructure (Timber;Span 8#;107)	#2	0.00	50,736	4,509	0	0	
uperstructure (Timber;Span 3m;BH50)	#2		42,082	3,842	0	0	
uperstructure (Timber;Span Sm;BH50)	82	0.00	46,813	4,165	0	0	
uperstructure (Timber;Gpan 8m;BH50)	82	0.00	59,371	5,273	0	0	
uperstructure (Concrete;Span 3a;BH50)	a2	0.00	41,322	105,105	0	0	
uperstructure (Concrete;Span 5#;BK50)	#2	0.00	42,593	117,578	Ó	0	
uperstructure (Concrete;Span 8#;BN50)	#2	0.00	43,993	129,145	0	0	
uperstructure (Concrete;Span10m;8H50)	#2	0.00	48,214	145,655	0	0	
uperstructure (Concrete;Span15#;BH50)	#2		52,212	171,719	Ó	0	
ubstructure (Pier;for Timber;10T)	NO	0.00	301,321	20.755	0	0	
Substructure (Abut; for Timber; 101)	NO	0.00	865,439	140,298	0	0	
Substructure (Pier;for Timber;BN50)	KO	0.00	443,165	42,543	0	0	
ubstructure (Abut;for Timber;BH50)	NO	0.00	972,620	155,128	0	0	
ubstructure (Pier;for Concrete;BNSO)	NO	0.00	1,617,523	464,086	Ö	0	
lubstructure (Abut;for Concrete;BH50)	NO	0.00	3,382,742	977,597	0	0	
lemolition of Bridge (Timber-)Timber)	ส2	0.00	9,818	1,231	0	0	
emolition of Bridge (limber-)Concrete)	s2	0.00	9,818	1,231	0	0	
exolition of Bridge (Concrete)	a2	0.00	74,919	79,345	0	0	
aintenance of Timber Bridge (New)	3 2	0.00	6,531	1,032	0	0	
aintenance of Concrete Bridge (New)	a2	0.00	1,663	2,961	0	0	
aintenance of Timber Bridge (Exist)	#2	113.40	7,111	2,360	806,387	267,624	1,074,0
aintenance of Concrete Bridge (Exist)	R2	0.00	4,178	2,436	0	0	
(Without Overhead)			(Timber Bridg			0	
t RICHOUL OVELNEAG /	4	vinc Cual	(Concrete Bri		ň	0	
	T	TOTAL CAST	Without Mair		Ő	ñ	
	•				• •		
(Overhead : 15%)	T	OTAL COST	(Timber Brid		0	0	
	_		(Concrete Bri	•	0	0	
	T	OTAL COST	Inithout Mair	itenance)	0	0	

LINK ND : 140 (IIIA) LENGTH : 5 Km

ITEN	Unit	QUANTITY	<<< UNIT LOCAL	COST >>> Foreign	\\\\\\ LOCAL	COST Fore Ign	>>>>>> 701AL
	****				,		
Superstructure (Timber;Span 3m;10T)	e2	0.00	34,583	3,107	0	0	c
Superstructure (Timber;Span 5m;101)	n2	0.00	38,306	3,431	ů.	õ	ſ
Superstructure (Timber;Span Bm;10T)	a2	0.00	50,736	1,509	0	ů	Č
Superstructure (Timber;Span 3m;BM50)	8 2	0.00	42,882	3,842	0	å	(
Superstructure (Timber;Span 5m;BM50)	e2	0.00	46,813	4,165	0	ò	Ì
Superstructure (Timber;Span 8m;BHSO)	e2	0.00	59,371	5,273	0	õ	í
Superstructure (Concrete;Span 3m;BNSO)	a2	0.00	41,322	105,105	0	Ő	
Superstructure (Concrete;Span Sm;BN50)	B2	0.00	42,593	117,578	Õ	ů	(
Superstructure (Concrete;Span 8#;8M50)	#2	0.00	43,993	128,145	• 0	0	(
Superstructure (Concrete;Span10s;9M50)	#2	0.00	48,214	145,655	Ő	Ň	· · · · · · · · · · · · · · · · · · ·
Superstructure (Concrete;Span15a;BM50)	•2	0.00	52,212	171,719	ð	Ň	(
Substructure (Pier;for Timber;101)	KO	0.00	301,321	28,755	ő	ò	, (
Substructure (Abut;for Timber;101)	NŒ	0.00	865,439	140,298	0	0	(
Substructure (Pier;for Timber;8N50)	NO	0.00	443,165	42,543	õ	Ň	, I
Substructure (Abut;for Timber;BNSO)	NO	0.00	972,620	155,128	ů.	0	(
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,617,523	464,086	0	U A	, I
Substructure (Abut;for Concrete;BN50)	NO	0.00	3,382,742	977,597	0	Ó	(
De≰olition of Bridge (Timber-)Timber)	s2	0.00	9,818	1,231	ň	۰ ۸	
Demolition of Bridge (Timber~)Concrete)	•2	0.00	9,819	1,231	0	v n	
Demolition of Bridge (Concrete)	8 2	0.00	74,919	79,345	Ö	Ő	(
Naintenance of Timber Bridge (Hew)	n2	0.00	6,531	1,032	0	0	l
Maintenance of Concrete Bridge (New)	#2	0.00	1,663	2,961	0	0	
Maintenance of limber Bridge (Exist)	.2	72.00	7,111	2,360	511,992	169,920	681,917
Naintenance of Concrete Bridge (Exist)	# 2	0.00	4,178	2,436	0	0	(
(Without Overhead)	 I	OTAL COST	(Timber Bridg		0	0	
			(Concrete Bri		0	0	(
	T	DTAL COST	(without Mair	itenance)	0	0	
(Overhead : 15%)	t	OTAL COST	(Timber Bridg		Q	0	(
			(Concrete Bri		0	0	
	Ŧ	OTAL COST	(without Hain	itenance)	0	0	i

LINK ND : 152 (IIIB-1) LENGTH : 3 Km

ITEN			T140 555	COST >>>	›››››››	COST	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
F F E H	UNIT	QUANTITY		FORELGN	LOCAL	FORELGN	IOTA
Superstructure (Timber;Span 3m;101)	#2	0.00	34,583	3,107	0	0	
Superstructure (Timber;Span 5m;10T)	a2	0.00	38,306	3,431	0	0	
Superstructure (Timber;Span 80;101)	#2	0.00	50,736	4,509	Ò	0	
Superstructure (Timber;Span 3m;BH50)	s2	0.00	42,682	3,842	0	0	
Superstructure (Ilmber;Span 5m;BNSO)	•2	0.00	46,013	4,165	0	0	
Superstructure (Timber; Span 80; BM50)	ø2	0.00	59,371	5,273	0	0	
Superstructure (Concrete;Span 3m;BN50)	#2	0.00	41 322	105,105	0	0	
Superstructure (Concrete;Span Sm;BMSO)	n2	0.00	42,593	117,578	0	0	
Superstructure (Concrete:Span 8m;8MSO)	42	0.00	43,993	128,145	0	0	
Superstructure (Concrete;Span10m;BM50)	#2	0.00	48,214	145,655	0	0	
Superstructure (Concrete;Span15#;BH50)	•2	0.00	52,212	171,719	0	0	
Substructure (Pier;for Timber;101)	NO	0.00	301,321	28,755	0	0	
Substructure (Abut;for Timber;10T)	NO	0.00	865,439	140,298	0	0	
Substructure (Pier;for Timber;BN50)	NO	0.00	443,165	42,543	0	0	
Substructure (Abut;for Timber;8N50)	NO	0.00	972,620	155,120	0	0	
Substructure (Pier;for Concrete;8850)	NO	0.00	1,617,523	464,086	0	0	
Substructure (Abut;for Concrete;BN50)	NO	0.00	3,382,742	977,597	0	0	
Demolition of Bridge (Timber-)Timber)	a2	0.00	9,818	1,231	0	0	
Demolition of Bridge (Timber-)Concrete)	•2	0.00	9,818	1,231	0	0	
Demolition of Bridge (Concrete)	m2	0.00	71,919	79,345	0	0	
Naintenance of Timber Bridge (New)	#2	0.00	6,531	1,032	0	0	
Maintenance of Concrete Bridge (New)	s2	0.00	1,663	2,961	Q	Q	
Maintenance of Timber Bridge (Exist)	e2	43.20	7,111	2,360	307,195	101,952	407,14
Haintenance of Concrete Bridge (Exist)	#2	0.00	4,178	2,436	0	0	
(Without Overhead)	1	OTAL COST	(Timber Bridg	je)	0	0	
			(Concrete Bri		0	0	
	1	OTAL COST	(without Hair	itenance)	0	0	
{ Overhead : 15% }	r	OTAL COST	(Tisber Bridg	je)	0	0	
			(Cancrete Bri		0	0	
	ī	OTAL COST	(without Main	-	0	0	

