Appendix A-2 Engineering Data

ROAD LINK DATA

PROVINCE : Kalimantan Selatan

KABUPATEN: Tapin

LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LEI		
NO.	(DESA NAME)	(DESA NAME)	(KM)	KEC. NAME	LENGTH (KM)	REMARKS
01	Tambarangan	Serawi	12	Tapin Selatan	5	.
<u></u>				<u>Tapin Tengah</u> Tapin Utara	<u>5</u> 2	<u> </u>
02	Serawi	Bakarangan	4	Tapin Utara	1	
03	Bakarangan	Paul	4	Bakarangan Tapin Utara	$\frac{3}{2.5}$	·····
04	Perintis	Karatau	5	Bakarangan Tapin Utara Bakarangan	$\frac{1.5}{3}$	······
05	Walang	Gadung	4	Tapin Utara Bakarangan	$\frac{2}{2}$	
06	Kapayang	Parigi	3	Tapin Tengah Bakarangan	<u>1</u> 2	
07	Pauh	Anim Sahibar	2	Tapin Utara	2	·
08	Bungur	Padang Buntu	6	Tapin Tengah Tapin Utara	2 4	
09	Serawi	Mandurian	2	Tapin Utara	2	
10	Mandurian	Teluk Mesjid	1	Tapin Utara	1	
11	Tirik	Labung	5	Tapin Tengah Tapin Utara	2	······
12	Tambaruntung	Pandahan	4	Tapin Tengah	4	
13	Rantau	Banua Halat	3	Tapin Utara	3	
14	Sawang	Timbaan	4	Tapin Selatan	4	
15	Timbaan	Cintawari	2	Tapin Selatan	2	
16	Pandulangan	Ampera	4	Tapin Selatan Tapin Tengah	1 3	
17	Kulur	Matang Ramba	i 1	Tapin Tengah	1	
18	Harapan Masa	Pantai Cabi	14	Tapin Utara Piani	<u>10</u> 4	-
19	Tamponang	Timbung	5	Tapin Utara	5	· ·
20	Tambarangan	Hatungan	24	Binuang Tapin Selatan	8 6	
		1		Tapin Utara	10	· · · · · · · · · · · · · · · · · · ·
21	Sumintin	Kumpai	3	Tapin Selatan	3	
22	Binuang	Pantai Belan	ti 5	Binuang	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

1.1

PROVINCE : Kalimantan Selatan

KABUPATEN: Tapin

LINK BEGINNING POINT		1 1 .	LENGTH	THROUGH THE KEC. NAME & LENGTH		REMARKS	
NO.	(DESA NAME)	(DESA NAME)	(км)	KEC. NAME	LENGTH (KM)	KEHANKS	
23	Haruban	Gunung Batu	4	Binuang	4		
24	Binuang	Batu Hapu	13	Binuang	- 13	· .	
25	Bumbun	Burakai	7	Binuang	7		
26	Kembang Kuning	g Batu Hapu	6	Binuang	6		
27	Rantau Kesuma Giri	Translok	. 7	Tapin Utara	7		
28	Tatakan	Tandui	3	Tapin Selata	n 3		
29	Dulang	Lumbu	3	Tapin Utara	3		
30	Rantau	Linuh	17	Tapin Utara Piani	11 6		
31	Karatau	Garis Halat	8	Bakarangan	8		
32	Sabah	Ayunan Papan	5	Tapin Utara	5		
33	Bitahan	Miawa	17	Tapin Utara Piani	9 8		
34	Rantau	······································	3	Tapin Utara	3	Dalam Kota	
35	Datu Sanggul	Sp.Kembang Habang	5	Tapin Selata	n 5		
-36	Binderang	Translok	. 4	Tapin Utara	4		
37	Parandakan	Beramban	11	Tapin Utara Piani	5		
38	Lokpaikat	Mungkur Gala	n 5	Tapin Utara	5		
39	Tatakan	Kembang Haba	ng 10	Tapin Selata Tapin Utara	3		
40	Pandahan	Parigi Kecil		Tapin Tengah Bakarangan	3 1 5		
[′] 41	Miawa	Batu Ampar	5	Piani	5		
42	Suato	Kembang Ha- bang	4	Tapin Utara	4		
43	Pantai Cabi	Gunung Pakan	6	Piani	6		
44	Gadung	Karatau	2	Bakarangan	2		
45	Parigi	Tangkawang	• 7	Tapin Tengah Bakarangan	3 4		
⁻ 46	Hatungun	Asam Randah	8	Binuang	8		

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: Tapin

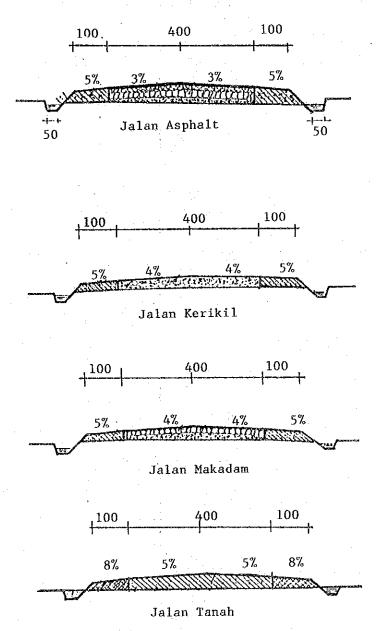
LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH THE KEC. NAME & LENGTH		
NO.	(DESA NAME)	(DESA NAME)	(KM)	KEC. NAME	LENGTH . (KM)	REMARKS
47	Kampung Baru	Nes III	8	Binuang Tapin Selatan	2	
48	Soato Tatakan	Sp.Kembang Habang	6	Tapin Selatan		
49	Padang Sari	Nes III	5	Binuang	5	
50	Pulau Pinang	Transad	6	Binuang	6	
51	A.Yani	Nes III	5	Binuang	5	
52	Gunung Batu	Sarang Samut	3	Binuang	3	
53	Batu Ampar	Batung	18	Piani	18	
54	Lokpaikat	Bataratat	7	Tapin Utara	.7.	
		_				
				······································	<u></u>	
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<u></u>]
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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.

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.



KABUPATEN: Tapin

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1984/1985

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1984/1985

LINK NO Nomor Ruas	LOCATION From To (dari ke)	Lebar per- kerasan(m) Lebar	Type per⊢ kerasan Type	LENGTH Panjang	COSTS Harga	REMARKS Keterang- an
·	Dati II	_lemhatan	_Jembatan	(KM)	(Rp 10 ⁶)	au
24	Binuang - Bumbun	4	Asphalt	4	37,500	
24	Bumbun - Hatungun/Tarungin	4	Asphalt/Grave	5/3	77,981	***** * ******************************
					- <u></u>	
	<u>Penun jangan</u>					
1.	Serawi - Labung	3.5	2	3.6	41,765	
	Harapan Masa - Lampinit	4	A'sphalt/Grave	1 2/3	63,056	
	Perintis - Keratau	3.5	Asphalt/Grave	1 2/3	49,285	
	Miawa - Batu Ampar	4	Gravel	5	48,340	
	Rangda - Kuranji	4	Awcas	4	68,995	
	Pandulangan - Ampera	4	Gravel	3.3	13,559	
•		•				
		مىسى ھىلى يەرىپى يېرىنى بىرىنى بى				
	· · · · · · · · · · · · · · · · · · ·					
		An				

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

1..: Asphalt surface / penetrasi macadam

2. : Asphalt seal / pelaburan aspal

3. : Gravel / kerikil

4. : Gravel /AWCAS / kerikil / japat

KABUPATEN: Tapin

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	LOCATION From - To	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang	COSTS Harga	REMARKS Keterang;
Nomor Ruas	(dari - ke)	Lebar Jembatan	Type Jembatan	(KM)	(Rp 10 ⁶)	an
	Dati II	[* • 1				
1.	Dulang - Lumbu	4	Gravel	2.7		
	Simpang Tiga Tirik	3	Asphalt	4.8		
3.	Simpang Bungur - P.Buntu	3	Asphalt	5		
4.	Patinting - M. Galah	4	Gravel	4		
5.	Pemeliharaan Kec.C.L.U.900m	3	Awcas	0.9		
			Jumlah		160,000	
	<u>Pendn jangan</u>					
· • • • • • • • • • • • • • • • • • • •						
1.	Souato -Kamb.Habang	4	Gravel	4		
2.	Rangda - Translok	3,5	Asphalt	5	•	
3.	Pandahan - Kapayang	• 4	Gravel	4		
	Parigi Kacil					
4.	Jembatan Ulin	4	Kayu Ulin	24 m		
5.	Lapis Ulin 40 m Desa Gadung					
6.	Parandakan - Beramban	4	3	5		*
			Jumlah		201,000	

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

1. : Asphalt surface / penetrasi macadam

2. : Asphalt seal / pelaburan aspal

3. : Gravel / kerikil

4. : Gravel /AWCAS / kerikil / japat

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E-03-(4)

KABUPATEN: Tapin

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1982/1983

Blaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO .: Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m) Lebar	kerasan Type	LENGTH Panjang (KM)	COSTS 'Harga (Rp 10 ⁶)	REMARKS Keterang; an
	Dati II	Jembatan	.Jembatan	<u>(((((((((((((((((((</u>		
1.	Datu Sanggul-Kambang Haban					
2.	Translok - Miawa	a ranja, mya, muto dan kana di murga data.	na mangana kalaman kal Reference	· · · · · · · · · · · · · · · · · · ·		······
3.	Jln.Dulang - Telaga Padi					
4.	Rumintin ~ Kumpai					
5.	Pemeliharaan Jalan Kota					••••••••••••••••••••••••••••••••••••••
			Jumlah	·	160,000	
	<u>Penun jangan</u>					
1.	Sawang - Timbaan .					
2.	Tibung - Lampinit					•
3.	Sidodadi - Translok		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
4.	Sei.Bamban - Mt. Batas					
5.	Kembang Kuning - B. Hapu		1			
			Jumlah		195,700	
						· .

* 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

21-A-9

E-03-(3)

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KABUPATEN: Tapin

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 ₇
Nomor Ruas	(dari - ke)	Lebar _lembatan	Type Jewbatan	(KM)	(Rp 10 ⁶)	an
•	Dati II			•		
1.	Walang - Gadung		•			
2.	Tambaruntung - Pinang babaris					
3.	Bitahan Translok - Miawa					
4.	Lumbu - Jln. Pembangunan					
5.	Baringin					
6.	Dulang				160,000	
			Jumlah		150,000	
	Penunjangan					
1.	Keraton - Rantau					
2.	Pasar Binuang-Pt. Belanti					
3.	P. Buntu - Jln. Negara					
4.	Labung - Tlk. Mesjid Jln. Negara		t			
5.	Pandulangan - Labung					
6.	Rangda - Labuhan					·
7.	Puting Waringin-Keladan					
			Jumlah Dana		146,240	

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

1. : Asphalt surface / penetrasi macadam

2. : Asphalt seal / pelaburan aspal

3. : Gravel / kerikil

4. : Cravel /AWCAS / kerikil / japat

KABUPATEN: Tapin

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1980/1981

Blaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1980/1981

LINK NO .: Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m) Lebar	kerasan Type	LENGTH Panjang	COSTS Harga	REMARKS Keterang; an
1.	Tambarangan - Lawahan- Tambaruntung	.lembatan	Jembaran	(KM)	<u>(Rp 10⁶)</u>	
2	Simpang Mesjid Jami Rantau					
3.	Simpang Paul		ann an tha a	900000300-9639 494 806 806 975		
4.	Jalan S.M.A. Dulang					
5.	Desa Keladan C.L.U	-	-		-	
6.	Pemeliharaan Jalan dalam Kota					
· · · ·		I	ana Seluruhnya		100,000	
	<u>Penun jangan</u>	,		-1 <u>-2</u> 101 , 2 172422,444 <u>2</u> 41		
1.	Binuang - Hatungun		· · · · · · · · · · · · · · · · · · ·			
2.	Binuang - Sei Binuang					· · · · · · · · · · · · · · · · · · ·
			Jumlah Dana		86,000	
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" 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

21-A-11

E-03-(1)

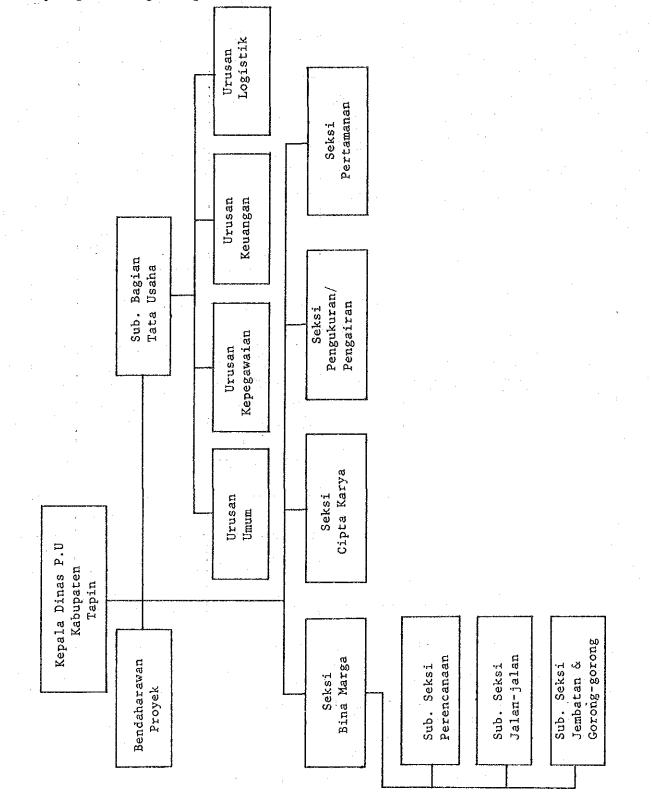
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KABUPATEN: Tapin

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

KABUPATEN: Tapin

PROPINSI:Kalimantan Selatan

DESCRIPTION /Uraian	NUMBER / Jumlah	RENARKS Keterangan
CONTROLING STAFF Staff teknis PUK	(28)	(10)
DPUK ENGINEED Sarjana Teknik	-	
ASSISTANT ENGINEER Sarjana Muda Teknik	-	
TECHNICIAN STAFF Staff Teknik (STM)	28	10
ADMINISTRATION Tenaga Administrasi	9	
SUPERVISOR Tenaga Pengawas	1'4	
·		999 - 199
WORKING FORCE Tenaga Pelaksana Lapangan	(31)	
OPERATORS Operators	2	
DRIVERS Supir	2	
MECHANICS Mechanic	2	
TRADESMAN Tukang	5	
L A B O U R ["] Buruh / Pekerja	20	
OTHERS Lain-lain		
TOTAL / JUMLAN	82	. 10

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

LOCATION AND AREA OF DPUK WORKSHOP

Lokasi Workshop DPUK PROPINSI : Kalimantan Selatan

KABUPATEN: Tapin

LOCATION	AREA (m2)	NUMBER	REMARKS
Lokasi	Luas	Jumlah	Keterangan
Tapin Selatan	20.000 m ²	l Lokasi	Lokasi Tersedia
			۵۰۰۰۰۰۰ کی میں اور دیکھی کی میں کر میں ک میں اور

PROPINSI: <u>Kalimantan Sel</u>atan

KABUPATEN: Tapin

LAND ACQUISITION COST Daftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	4,000	Harga Sample
VILLAGE / desa	M2	1,500	
RICE FIELD/sawah	M2	750	
DRY FIELD/ladang	M2	500	
MIX CROPS/panen	M2	300	
FOREST/hutan	M2	150	
SWAMP / rawa	M2	100	
OTHERS / lain-lain	M2		

E-07

<u>PROPINSI: Kalimantan Selatan</u>

KABUPATEN: Tapin

۰.

Classification of local contractors at Kabupaten level.

Klasifikasi kontraktor di Kabupaten

C3	34.797.000		
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	and a second	an a	
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	-10-10-10-10-10-10-10-10-10-10-10-10-10-		
			1

NOTE: DATI II

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E-08

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KABUPATEN: Tapin

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

Name of contractor

NAME OF EQUIPMENT	EXISTIN	G COND	ITION/	Kondi	si Peral	atan	REQUIRE -
Jenis peralatan	TYPE/ Tipe	P.Y	NUMBE GOOD Baik	R / Ju BAD Rusak	TOTAL	REASON OF BAD CONDT CION/Sebal Kerusakan	5 A 1411
'Bulldozer							y de la cale
Motor Grader			1				
Tyre Roller							· · · · · · · · · · · · · · · · · · ·
Steel Whell Roller							
Vibration Roller	en al an anna an an Anna an Ann			·			
Wheel Loader							
Front End Loader and Backhoe							
Mobile Crane							
Concrete Mixer	·						
Stone Crusher	•						
Portable Compressor	L.						
Hydraulic Excavator							
Asphalt Paving Machine		·····					
Asphalt Sprayer							
Asphalt Mixing Machine							
Mobile Workshop	•	:					
Mechanic Rammer							
Plate Tamper			· · ·				
Pile Driver							
Leg Drill				:			
Hand Hammer		·	41	-	41		1
Farm Tractor	MF 290	1981	1		2	-	
Dump Truck	Toyota	1983	5		5		
Water Tank Truck							
Fuel Tank Truck							
Pick Up	-	-	5	2	7	_	
Jeep	Toyota	-	7		7		
Motorcycle	-	-	12	_	12		
Generator		-	4	-	4		
Water Pump	-	-	8	-	8		
Others	-	-	-		-		

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KABUPATEN: Tapin

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LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT	EXISTIN	IG CON	DITION	/ Kondi	si Pera	latan	REQUIRE -
Jenis peralatan	TYPE/	P.Y		ER / Ju		REASON OF BAD CONDT	MENT /Ke- butuhan
₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	Tipe		GOOD Baik	BAD Rusak	TOTAL Jumlah	FION/Sebal Kerusakan	peralatan baru
'Bulldozer							· 2
Motor Grader						-	
Tyre Roller							2
Steel Whell Roller	•		6		6		2
Vibration Roller			2	1	3		1
Wheel Loader							2
Front End Loader and Backhoe							
Mobile Crane		1			a na parta da de la casa de la ca		1
Concrete Mixer	· .						1
Stone Crusher				1	1		_2
Portable Compressor	`				· · · · · · · · · · · · · · · · · · ·		1
Hydraulic Excavator							2
Asphalt Paving Machine							1
Asphalt Sprayer	DAS 200		1		_1		1
Asphalt Mixing Machine							1
Mobile Workshop							1
Mechanic Rammer			4		4		· ·
Plate Tamper							2
Pile Driver							1
Leg Drill				•			1
Hand Hammer							<u>` 1</u>
Farm Tractor							1
Dump Truck							5
Water Tank Truck							1
Fuel Tank Truck			-				1
Pick Up	L.300		1_1_	<u> </u>	1		1.
Jeep							2
Notorcycle	Honda		3		3		3
Generator							
Water Pump					ļ		2
Others			<u> </u>	· · · ·	ļ		

21-A-17

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

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LINK ND : 26 (1	(IIC)		LENGT	H : 6	Km		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
UPGRADE : 8,0m r	•			v			nur de (Rp)
11EH		RUANTITY	KKK UNI	COSE >>>	{{{{	<< COST	>>>>>> TOTAL
	- 100 000				*****		
Site Clearance in Light Bush	•2	0.0		91	0		. 0
Subgrade Preparation	t n2	8000.0			160,000		248,000
Normal Fill	· #3	0.0	• .		0	• • • • •	Û
fill in Swamp	#3	0.0	2,445	1,052	0	0	0
Normal Excavation to Spoil	∎3	· .	956	522		50,112	
Sub Base Course	` n 3	854.0		. L ₁ 347 -			3,794,322
Pase Course	#3	1200.0	4,238	2,299		2,758,800	
houlder	. #2	24000.0		146	• • •	3,504,000	10,416,000
Asphalt Fatching	: #2	0.0	3,663	1,343	0	0	0
Surface Dressing (Single)	#2 		574	552	0	0	0
Surface Dressing (Double)	#2	0.0	742	969		0	0
arth Drain	£	1800.0	909	474	1,636,200	214,200	1,850,400
arth Drain in Swamp (by gachine)	a3	0.0	1,165		V		
Pipe Culvert DBOca	. A	0.0	· · · · ·	51,386	U A	· · · 0	
lasonry Culvert (80x80cm)	6	0.0	63,563	41,554 246	. V		Ű
Retaining Wall and Wing Wall (Timber)	: a2 a3	0.0 0.0	10,244	11,868	· N	v N	
Retaining Wall and Wing Wall (Masonry)	. a3	0.0	47,464	11,000	. 0	ν Δ.	v
labion Protection lew Bridge (Timber)	SET	1.0	131931		· · · · ·	0	. O
len Bridge (Concrete)	SET	1.0		· •	. 0	. 0	. 0
ica bridge (concreter			·	· ·		4.4 L	
	1		Sub Total	· . ·	16,529,560	7,765,450	24,295,010
lverhead (15%)	:	· · · ·		•	2,479,434	1,164,817	3,644,251
		· .	TOTAL COST		19,008,994	8,930,267	27,939,261
lanual routine maintenance of road	Ke	4.0	148,684	7,248	892,104	43,488	935,592
outine maintenance of gravel road	. Ka	5.V	184 800	88.047	1,108,800	528,282	
a contraction of grates stab		267	Sub Total		2,000,904	571,770	2,572,674
aintenance of Timber Bridge (New)	12	0.0	7,203	1,121	0	0	0
laintenance of Concrete Bridge (New)	n2	0.0	1,752	3,135	0	0	0
aintenance of Timber Bridge (Exist)	82	28.0	7,217	2,404	202,076	67,312	269,388
laintenance of Concrete Bridge (Exist)	a2	0.0	3 966	2,471		. 0	. 0
· · · · · · · · · · · · · · · · · · ·							
÷				Pavenent Un)/Ka) 3	1,656,514
			Tinber			1/#2) 1	:
	• •		Concrete		•)/#2) :	
н. -	•		Sur vi ved	Value		(Rp) s	1,517,728
• • • • • • • • • • • • • • • • • • •				Rate without		(2) :	9.21
	• •		New Bridge	LOST HATE		(7) :	

PROV : KALIMANTAN BELATAN KAB : TAPIN

LINK NO : 25 (IIIB-2)

UPBRADE : 8.0m road bed, 4.0m road with surface Dase Cource

LENGTH : 7 Km

(Rp)

			************				*******	
ITEN	19117	QUANTITY		COST >>>		<u>{</u> {{{{}}}	COST	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
		Ankut 111	LOCAL	FOREIGN	LOCA	L 	ORELON	ATOTA
ite Clearance in Light Bush	2	. 0.0	159	. 91		0	0	
ubgrade Preparation	92	16000.0	20	11	320,00		176,000	496,00
ormal Fill	#3	0.0	1,635	863		0	0	1
ill in Swamp	. a3	0.0	2,445	1,052		0	0	
ormal Excavation to Spoil	±3	318.0	956	522	304,00	8	165,996	470,0
ub Base Course	#3	1981.2	3,096	1,347	6,133,79		668,676	8,802,4
ase Course	· #3	1680.0	4,238	2,299	7,119,84		862,320	10,992,1
houlder	\$ 2	28000.0	298	146	8,064,00		088,000	12,152,0
sphalt Patching	•2		3,663	1,343		o '	0	
urface Dressing (Single)	ø2	0.0	594	552		0 .	0	
urface Dressing (Double)	a2	0.0	742	898		0	0	
arth Drain		4280.0	909	119	3,890,52	0	509,320	4,399,8
arth Drain in Swamp (by machine)	#3	0.0	1,165	474	.1	0	0	-13-
ipe Culvert DBOcm	 A	0.0	43,974	51,386		0	0	
asonry Culvert (80x80cm)	e e	0.0	63,563	41,554		0	0	
etaining Wall and Wing Wall (Timber)	e2	0.0	10,244	246		0	0	
etaining Wall and Wing Wall (Masonry)	#3	0.0	47 464	11,868		0	ů.	
abion Protection	N3	0.0	15,591	120		0	0	
en Bridge (Tigber)	5ET		101011			0	Ð	
en bridge (Concrete)	SET	1.0				0	. 0	
en briuge (concreter	001	1.0				•	•	
			Sub Total		25,832,10	53 II.	470,312	37,302,4
verhead (15%)					3,874,82	24 1,	720,546	5,595,1
			TOTAL COST		29,705,91	87 13,	190,858	42,897,8
anual routine maintenance of road	Ke	7.0	148,684	7,249	1,040,7	88	50,736	1,091,
outine maintenance of gravel road	Ka		184,800	88,047	1,293,6		616,329	1,909,
OUCINE BAINCENANCE OF GEBTEL LOGO	n a		Sub Total		2,334,3		667,065	3,001,
aintenance of Timber Bridge (New)	n2	0.0	7,203	1,121	- 1 1 -	0	0	
laintenance of Concrete Bridge (New)	=2		1,752	3,135		G	. 0	
laintenance of limber Bridge (Exist)	#2		7,217	2,404		84	125,008	500,
laintenance of Concrete Bridge (Exist)	#2 #2		3,966	2,471	•	0	0	

			Earthwork &			(Rp/Ka) (Re/c1)	1	6,128,
			Tinber		Jnit Cost	(Rp/s2)	1	
	. :		Concrete		Unit Cost	(Ro/a2)	1	1 101
			Survived	Value		(Rp)	1	4,401,
			Haintenance	Rate witho	ut urloge	(1)	1	1
			Nen Bridge	cost Rate		(2)	1	

: KALIMANTAN SELATAN

LINK NO : 24 (IIIB-1) LENOTH : 13 Km

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

						`		(Rp)
THER STATE		- 11017	QUANTITY	<<< UNIT	COST >> Fore Lgn		<<<< COST Forelon	>>>>>> TOTA
<u></u>			800000					
Site Clearance in Light Bush		#2	0.0	159	91	C		_ :
Subgrade Preparation	} •	#2	7000.0	* 20	ः <u>ग</u>	140,000	77,000	217,00
		#2 #3	0.0		853	•		****
Normal Fill				1,635			_	
Fill in Swamp		aš	0.0	2,445	1,052			1 010 1
Normal Excavation to Spoil		£3	1332.0	956	522			1,968,65
Sub Base Course		W3	930.0	3,096	1,347			4,131,99
Base Course		B 3	1120.0	4,238	2,299			7,321,4
Shoulder		ø2	39000.0	288	146	• •		16,926,00
Asphalt Patching		₽2	225.0	3,663	1,343			1,126,35
Surface Dressing (Single)		∎2	52000.0	594	552	30,888,000	28,704,000	59,592,00
Surface Dressing (Double)		a2	0.0	742	868	(
Earth Drain		Ű.	2000.0	909	117	1,818,000	238,000	2,055,00
Earth Drain in Swamp (by machine)		#3	0.0	1,165	- 474			
Pipe Culvert D80cm		8	0.0	43,874	51,386	() 0	
fasonry Eulvert (80x80cm)		a	0.0	63 563	41,554	() 0	
Retaining Wall and Wing Wall (Timber)		s 2	750.0	10,244	246	7,683,000	184,500	7,867,50
Retaining Wall and Wing Wall (Masonry)		. #3	0.0	47,464	11,868			•
Jabion Protection	•	a3	0.0	15,591	120		· · · · ·	
	1.1	SET		10,071			, , , , , , , , , , , , , , , , , , ,	
New Bridge (Timber)						(,	e e al
New Bridge (Concrete)	÷	SET	1.0			· · ·	• • • •	
			2°	Sub Total		61,484,407	39,722,569	101,206,97
Overhead (15%)						9,222,661	5,958,385	15,181,0
			11 1	TOTAL COST		70,707,060	45,680,954	116,388,02
lanual routine maintenance of road		Ka	13.0	148,684	7,248	1,932,89	94,224	2,027,1
Routine maintenance of asphalt road		Ka	13.0	366,300	134,300			6,507,8
southe sumchance of apprait () as		11.00	1010	Sub Total	1011000	6,694,79		8,534,9
laintenance of limber Bridge (New)	1	#2	0.0	7,203	1,121			
		#Z			•			•
Taintenance of Concrete Bridge (New)			0.0	1,752	3,135			2,001,1
taintenance of Timber Bridge (Exist)		. #2	208.0	7,217	2,404			
Naintenance of Concrete Bridge (Exist)		#2	121.3	3,966	2,471	480,91	299,633	780,5
								4====================================
$(1, 1, \dots, n) = \frac{1}{2} \left[\frac{1}{$	· .			Earthwork &	Pavenent	Unit Cost	(Rp/Ka) :	8,952,9
i	•			Tinber			(Rp/n2) :	
	ŀ			Concrete			(Rp/a2) :	
			•	Survived	Value		(Rp) :	4,356,6
· · · · · · · · · · · · · · · · · · ·	25.0			Maintenance		ut Aridon	(1) 1	7.1
· · ·				Nathlenance New Bridge		ut vituye	{2}	1
				nts 011002	LUSI Ndl2		147 1	

PROV : KALIMANTAN SELATAN KAB : TAPIN LINK NO : 20 (IIIB-1) LENGTH : 24 Km

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

(Rp)

ITEN	UNIT	QUANTETY	<<< UNIT Local	COST >>> Foreign	>> Local	<<<< COST Foreign	>>>>>> Total
			<		···*		
Site Clearance in Light Bush	#2		159	. 91	Q		. (
Subgrade Preparation	e2	47000.0	20	11	780,000	539,000	1,519,000
lornal Fill	n 3	0.0	1,635	863	C	0	
Fill in Swamp	#3	0.0	2,445	1,052	C		(
formal Excavation to Spoil	N3	671.0	956	522	641,478	350,262	991,73
Gub Base Course	n 3	4460.0	3,096	1,347	13,808,160		19,815,78
Pase Course	. #3	3090.0	4,238	2,297	13,053,040		20,133,96
Shoulder	ø2	72000.0	288	146	20,736,000	10,512,000	31,248,00
Asphalt Patching	i #2	963.0	3,663	1,343	3,527,465	1,293,309	4,820,77
Surface Dressing (Single)	. #2	96000.0	574	552	57,024,000	52,992,000	110,016,00
Surface Dressing (Double)		0.0	742	988	() (
Earth Drain	6	1100.0	909	119	999,900	130,900	1,130,80
arth Drain in Swamp (by machine)	aĵ	0.0	1,165	474		0 0	
fipe Culvert D80cm	4	0.0	43,874	51,386	() 0	
Hasonry Culvert (80x80cm)	6	0.0	63,563	41,554	. () (
Retaining Wall and Wing Wall (Timber)	a2	0,0	10,244	246	() 0	
Retaining Wall and Wing Wall (Masonry)	'a3	0.0	47,464	11,868	1	0.0	
Sabion Protection	a3	0.0	15,591	120	. 4) (
New Bridge (Timber)	SET	1.0				0 0	
lew Bridge (Concrete)	SET			~-	4	0 0	
	· .		Sub Total		110,770,04	5 78,905,011	189,676,0
Overhead (15%)					16,615,50	6 11,835,901	28,451,40
			TOTAL COST		127,385,55	1 90,741,912	218,127,48
		***********				, ing apr	
Nanual routine maintenance of road	Ka			7,248	3,568,41		
Routine maintenance of asphalt road	Ka	24.0	366,300	134,300	8,791,20		
	-		Sub Total	1 191	12,359,61	o a, str, i az 0 0	talinati
Haintenance of Timber Bridge (New)	a2		7,203	1,121		0 0	
Naintenance of Concrete Bridge (New)	#2			3,135		-	4,074,4
Haintenance of Timber Bridge (Exist)	#2		7,217	2,404		0 0	141161
Kaintenance of Concrete Bridge (Exist)	a2	0,0	3,966	2,471		•	***
			Earthwork &	Davoanat	Init Cost	(Rp/Km) s	9,088,6
			Earcoxorx × Timber		Init Cost	(Rp/a2) 1	
					Jnit Cost	(Rp/a2) t	
			Concrete	Øridge U Value	mit onar	(Rp) +	17,897,8
			Surviveó Naintenance		ut Aridan	(2) 1	7,
	-		New Bridge		ar niinde	(2) :	.,
			usa prinĝa	COST NUTE			

PROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 18 (IIIB-1) LENGTH : 14 Km

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

ITER I TER	UNIT	QUANTITY		COST >>> Foreign		<<<< COST Foreign	>>>>>> Total

Site Clearance in Light Bush	e 2	0.0	159	. 91	1		
Subgçade Preparation 🦾 💡	: B2	54480.0	20+	. a 11	1,089,600	599,280	1,698,680
Normal Fill	e3	0.0	1,635	863			19.11) (
Fill in Swamp	n3	696.0	2,445	1,052	1,701,720	732,192	2,433,91
Normal Excavation to Spoil	: n 3	600.0	956	522			
Sub Base Course	#3	4050.6	3,096				17,996,81
Base Course	a3	2695.0					17,617,21
Shoulder	#2	63000.0	-200	146			27,342,00
Asphait Patching	•2	40.0	3,663	1,343			
Surface Dressing (Single)	o2		594				56,154,000
Surface Dressing (Double)	a2	. 0.0	742	868			
Earth Drain	÷∎	2380.0	909			•	2,446,64
Earth Drain in Swamp (by machine)	a3	4800.0		474		2,275,200	
Pipe Culvert D80cm	ਿ	18.0	43,874	51,386	789,732	924,948	1,714,68
Hasonry Culvert (80x80cm)	8	0.0	63,563	41,554			
Retaining Wall and Wing Wall (Timber)	: a 2	0.0	10,244	245			
Retaining Wall and Wing Wall (Masonry)	æ3	3.2	47,464	11,866	151,884	- 37 ₁ 977	189,85
Gabion Protection	a3	0.0	15,591	120	() 0	
New Bridge (Finber)	SET	1.0		· •••	() . Q.	4
New Bridge (Concrete)	SET	1.0		·		0	
			Sub Total	:	83,420,543	53,117,700	135,538,24
Overhead (15%)					12,513,081	7,967,655	20,480,73
			TOTAL COST		95,933,62	61,085,355	157,018,97
				. 			
Nanual routine gaintenance of road	: Ka	14.0					
Routine maintenance of asphalt road	. Ka	14.0	•	134,300			
			Sub Total	· · · ·	7,209,776		9,191,44
Maintenance of Timber Bridge (New)	s2	0.0	7,203	1,121		-	
Naintenance of Concrete Bridge (New)	#Z	0.0	1,752	3,135), , 0	
Kaintenance of Timber Bridge (Exist)	÷	89.0	7,217	2,404			
Naintenance of Concrete Bridge (Exist)	#2	0.0	3,966	2,471	()	* . * *
			-*********				
· · · · · · · · · · · · · · · · · · ·	• 1		Earthwork &	Paveaent 1	Unit Cost	(Rp/Km) :	11,215,64
e statione i						(Rp/m2) :	- •
					1	(Rp/#2) :	
*			Survived	Value		(Rp) :	16,121,21
· · · · · · · · · · · · · · · · · · ·			Haintenance	Rate witho	ut Bridge	(1) :	5.8

: KALIMANTAN GELATAN

KAB : TAPIN

(Rp)

LENGTH : 4 Km

LINK NO : 12 (1118-2)

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

ITEN (COST >>>		uu	COST	ົ້
	UNIT	QUANTETY	LOCAL	FOREIGN	LOCAL	.	FOREIGN	TOTA

ite Clearance in Light Bush	#Z	0.0	159	91	()	0	
ubgrade Preparation	a2	5475,6	20	. 11	109,512	!	60,231	169,74
ormal Fill	e3	0.0	1,635	863	()	0	
ill in Swamp	n3	598.1	2,445	1,052	1,437,904	ł i	618,681	2,056,59
ormal Excavation to Spoil	m3	1050,0	958	522	1,003,800) '	548,100	1,551,90
ub Base Course	#3	938.0	3,096	1,347	2,904,048	3 1,	263 486	4,167,53
ase Course	E 3	0.0	4,238	2,299	()	0	
houlder	₿2	8000.0	289	146	2,304,000) 1,	168,000	3,472,00
sphalt Patching	P2	753,0	3,863	1,343	2,750,23		011,279	3,769,51
urface Dressing (Single)	s2	0,0	594	552)	. O.	•
urface Dressing (Double)	# 2	0,0	742	966		0 .	0	
arth Drain	5	1800.0	909		1,636,200)	214,200	1,850,40
arth Drain in Swamp (by machine)	a3	4056.0	1,165	474			922,514	6 647 7
ipe Culvert DBOcm	4	0.0	43,874	51,386		0	0	• •
asonry Culvert (80x80cm)		0.0	63,563	41,551		0	Ó	
etaining Wall and King Wall (Timber)	#2	110.0	10,244	246	1,126,84	0	27,060	1,153,9
letaining Hall and Wing Wall (Hasonry)	#J		47,464	11,840		ο. Ο	0	-11
abion Protection	กวั		15,591	120		Ň	Ō	
en Bridge (Tigher)	SET					ò	Ň	
	SET		·			n	ň	
ен Bridge (Concrete)	מבו	140					v	
			Sub Total		18,005,78	3 6,	833,581	24,839,3
verhead (15%)					2,700,86	7 L	025,037	3,725,9
			TOTAL COST		20,706,65	07	858,618	28,565,2
					*******			• h # 4 u # 4 m # 4 - 4
anual routine maintenance of road	Ka	4.0	148,684	7,248			28,992	623,7
outine maintenance of gravel road	Ka	4.0	184 ₁ 800	88,047			352,188	1,091,3
			Sub Total	•	1'333'83		381,180	1,715,1
aintenance of Timber Bridge (New)	a2	0.0	7,203	1,121		0	0	
aintenance of Concrete Bridge (Hew)	a2	0.0	,	3,135		0	0	
laintenance of lisber Bridge (Exist)	. a2		7,217	2,404			849,001	404,0
laintenance of Concrete Bridge (Exist)	s2	Q.O	3,966	2,471		0	0	
		* 4 * = * = ;* * * = 4				*******	******	
			Earthwork &		Unit Cost	(Rp/)te)	1	7,141,
			Tinber	-	Unit Cost	(Rp/m2)		
			Concrete		Unit Cost	(Rp/#2)		9 607
			Sur vi ved	Value		(Rp)	1	2,083,
			Kaintenance	Rate witho	ut Oridge	(X)	1	6
			Nex Bridge	Cost Rate		{2}	1	

: KALIMANTAN BELATAN KAB : TAPIN

LINK NO : 2 (TIIC) LENGTH :

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

4 Km

					· ·		e e e e e e e e e e e e e e e e e e e		(Kh)
I T E M		********	******	• • • • • • • • • • • • • • • • • • •		COST >>>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	COST	>>>>>>
		N 1	UNIT	QUANTITY	LOCAL	FOREIGN		FOREIGN	TOTA

lite Clearance	in Light Bus	sh	•2	4000.0	159	91	636,000	364,000	1,000,00
Subgrade Prepar		4 4	12	4050.0	20		81,000	44,550	125,55
formal Fill			#3	0.0	1,635	863	0	0	•
ill in Swamp			•3	930.0	2,445	1,052	2,273,850	978,360	3,252,21
ormal Excavati	inn fo Spail			1000.0	956	522	956,000	522,000	1,478,0
ub Rase Coursi		• .	a3	299.8	3,096	1,347	928,180	403,830	1,332,0
ase Course			e3	840.0	4,238	2,299	3,559,920	1,931,160	5,491,01
houlder		1 - A - A - A - A - A - A - A - A - A -	•2	10000.0	288	146	2,880,000	1,460,000	4,340,0
sphalt Patchi			#2 #2	0.0	3,663	1,343	£10001000	11001000	ייןטרפור
			#Z #2			552	0	0	1994 - N
urface Dressin				0.0	594		· V	0	
urface Dressin	id inanoisi		a2	0.0	742	848	V 000 171 V	471 AAA	# 115 A
arth Drain				4000.0	909	119	3,636,000	476,000	4,112,0
arth Drain in		ichinel	£3	3000.0	1,165	474		1,422,000	4,917,0
ipe Culvert D			1 A	0.0	43,874	51,386	0	U	
asonry Culver			۵	0.0	63,563	41,554	0	0	
etaining Wall			n2	152.0	10,244	246	1,557,088	37,392	1,594,4
etaining Wall		(1 (Nasonry)	j a3	0.0	47,464	11,868	0	0	
ioion Protecti			a]	0.0	15,591	120	0	0	
an Bridge (1	(inder)		SET	1.0			0	. 0	
en Bridge (((oncrete)		SET	1.0	'	`	0	0	
		- 19 - 19 - 3 1			Sub Total		20,003,038	7,639,292	27,642,3
verhead (1	15% 1						3,000,455	1,145,893	4,146,3
·		1997 - 19			TÒTAL COST		23,003,493	8,785,185	31,788,6
							·····		·
anual routine	aaintenance	of road	Ko	4.0	148,684	7,240	594,736	28,992	623,7
nutine mainter	iance of grav	/el road	Ke	4.0	184,800	88,047	739,200	352,180	1,091,3
				· ·	Sub Total		1,333,938	381,180	1,715,1
intenance of	Timber Bride	ge (New)	n2	0.0	7,203	1,121	0	. 0	
intenance of			#2	0.0	1,752	3,135	0	0	
intenance of			a2	52.0	7,217	2,404	375,284	125,008	500,2
intenance of			* #2	0.0	3,965	2,471	0	0	
<u></u>									
	÷ •	· · · · · · · · · · · · · · · · · · ·	ţ		Earthwork &	Pavement L	Jnit Cost (Rp/K	a) :	7,947,1
	÷						Init Cost (Rp/#		
F .		a an			Concrete		hit Cost (Rp/m		
									C17 0
 					Surviven	Value	i (Rn) :	332.0
 		**		-	Survived Maintenance	Value Rate withou	(Rp st Bridge (X)		532,8 5.

LENGTH : 12 Km

LINK ND :

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

: KALIMANTAN SELATAN

1 (1118-1)

I T E H	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> Foreign	<<< LOCAL	<<< CI Fore	15T 16H	>>>>>> Total
			44A4646886 8 #1		*****			
Site Clearance in Light Bush	a2	0.0	159	- 91	0		0	0
Subgrade Preparation	aŻ	0.0	20	11	0		Ô	0
lormal Fill	a3	0.0	1,635	863	0		9	0
ill in Swamp	a3	0.0	2,445	1,052	. 0		0	Q
formal Excavation to Spoil	#3	2530.0	956	522	2,418,680	1,320,	660	3,739,340
Sub Base Course	a3	1330.0	3,096	1,347	4,117,690	1,791,	510	5,909,190
Base Course	e3	0,0	4,238	2,299	0		0	(
Shou I der	ค2	30000.0	288	146		4,3B0,	000	13,020,000
Asphalt Patching	m2	987.0	3,663	1,343				
Surface Dressing (Single)	n2		594	552				
Surface Dressing (Double)	1 2		712	868			0	
Earth Drain	9		909	119			040	164,48
Earth Drain In Swamp (by machine)	a.3		1,165	474			0	
Pipe Culvert OBOca	4		43,874	51,386			0	-
Hasonry Eulvert (80x80ca)		0.0	63,563	41,554			Ō	
	s2		10,244	246			608	
Retaining Wall and Wing Wall (Timber)	ar a3			11,868			0	01000100
Retaining Wall and Wing Wall (Masonry)			47,464				ŏ	
Sabion Protection	a3		15,591	120	0		0	
New Bridge (Timber)	SET				0		v A	
New Bridge (Concrete)	SET	1,0		~~	U		v	
			Sub Total		51,014,093	35,418,	359	86,432,45
Overhead { 157. }					7,652,113	5,312	753	12,964,86
			TOTAL COST		58,666,206	40,731	,112	99,397,31

Nanual routine maintenance of road	Ke	17.0	148,684	7,248	1,784,208		,976	
Routine maintenance of asphalt road	Ka	12.0	366,300	134,300	4,395,600	1,611	,600	6,007,20
······································			Sub Total		6,179,808	I,698 I	,576	7,878,31
Haintenance of Tløber Brldge (New)	a2	0.0	7,203	1,121	C	ł	Q	
Maintenance of Concrete Bridge (New)	#2	0.0	1,752	3,135	0		0	
Haintenance of Timber Bridge (Exist)	o2		-	2,404		235	,592	942,8
Maintenance of Concrete Bridge (Exist)	a 2		3,966	2,471)	0	·

			Earthwork &	Pavement	Unit Cost	(Rp/Xo)	1	8,283,1
			linber		Unit Cost	(Rp/m2)	t	
			Concrete	•	Unit Cost	(Rp/a2)	1	
· · ·			Survived	Value		(Rp)	\$	4,136,4
			Naintenance		nut Brłdge	(1)	1	j.
·		1	Hew Bridge		•	(7)		

LINK NO : 50 (IIIC) LENGTH : 6 Km

UPGRADE : 9.0m road bed, 4.0m road with surface Subbase Cource (Rp)

ITEN	())) 1 T	QUANTITY		COST >>> FORE1GN	>>> Local	COST FOREIGN	>>>>>> Total
a galanda a sana ang		408NTTTT	LULHL	FURETON	LUGHL	function	
Site Clearance in Light Bush	a 2	0.0	159	91	Û		
Subgrade Preparation	R2	54000.0	. 20	11	1,080,000	594,000	1,674,000
Normal Fill	•3	0.0	1,635	863	0	0	(
Fill in Swamp	n3	0.0	2 445	1,052	0	0	
Normal Excavation to Spoil	¥3	548.0	956	522	523,808	286,056	809,94
Sub Base Course	a3	3840.0		1,347	11,888,640	5,172,480	17,061,12
Pase Course	a3	0.0	4,238	2,299	0	0	
Shoulder	•2	30000.0	288	146	8,640,000	4,380,000	13,020,00
Asphalt Patching	•2	0.0	3,663	1,343	0	0	
Surface Dressing (Single)	#2	0.0	594	552	0	. 0	1
Surface Dressing (Double)	12	0.0	742	868	0	. 0	
Earth Drain	. 6	0.0	909	119	0	0	
Earth Drain in Swamp (by machine)	R3	0.0	1,165	474	0	. 0	
Fipe Culvert DBOcn	. 8	0.0	43,874	51,386	0	0	
Nasonry Culvert (80x80cm)		0.0	63 563	41,554	0	. 0	· · · ·
Retaining Wall and Wing Wall (Timber)	a2	0.0		246	0	0	4
Retaining Hall and Wing Wall (Hasonry)	•3	0.0	47,464	11,868	0	. 0	
Sabion Protection	a3		15,591	120	. 0	. 0	
New Dridge (Timber)	SET	1.0			ů.	0	
New Bridge (Concrete)	SET	1.0			0	0	:
a an an at the state of the			Sub Total		22,132,528	10,432,536	32,565,06
Overhead (152)					3,319,879	1,564,880	4,884,75
an a		-	TOTAL COST		25,452,407	11,997,416	37,449,82
houst putting estimation of post	Ka	 ٤ ٥	149 494	7 74R	872,104	43,400	935,59
Hanual routine maintenance of road	Ka Ka	6.0 6.0	149,684 184 000	7,248 88,047			1,637,08
Routine maintenance of gravel road	, Vit	0.0	184,900 Sub Total	001047	1,108,800 2,000,904		2,572,67
detailing of Fight Bridge (News)	-1		· · ·	1,121			- r12/r10/
Maintenance of Timber Bridge (New)	#2 	0.0			. 0	0	
Maintenance of Concrete Bridge (New)	•2 -7	0.0	1,752	3,135		•	192,42
Haintenance of Timber Bridge (Exist)	nZ	20.0		2,404	144,340	48,090	112,92
taintenance of Concrete Bridge (Exist)	. 12	0.0	3,966	2,471	V	v	1. J. 1.
			··································				
			Earthwork &			Rp/Km) :	6,241,63
			Tieber			8p/a2) :	
	-		Concrete	Bridge U	lnit Cost 🛛 (I	Rp/a2) :	
		•	Sur vi ved	Value		(Rp) :	
	-	•		Value Rate withou	ıt Bridge	(Rp) : (X) : (Z) :	6,824,44 6.8

PROV : KALIMANTAN SELATAN KAB : TAPIN

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

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

			10-1
			(Rp)
·	 		

B T E K	list p T	1110111111		COST >>>			CUST	>>>>>
		QUANTITY	LOCAL	FORELGN	LOCA	IL 	FOREIGN	TOTAL
Site Clearance in Light Bush	я2	0.0	159	91		0	5 O	Q
Subgrade Preparation	#2	11000.0	20	- 11	280,00		154,000	434,800
Normal Fill	a3	0.0	1,635	863		0	0	0
Fill in Swamp	#3	0.0	2,445	1,052		0	Ó	
Normal Excavation to Spoil	# 3	459.0	956	522		•	239,598	678,402
Sub Base Course	a3	1120.0	3,096	1,347			508,640	4,976,160
Base Course	#3	480.0	4,239	2,299			103,520	3,137,760
Shoulder	e2	6000.0	288	146			876,000	2,604,000
Asphalt Patching	a2	0.0	3,663	1,343		0	0	(
Surface Dressing (Single)	#2	0.0	594	552		Ô	0	í
Surface Dressing (Double)	#2	0,0	742	848		0	. 0	í
Earth Drain		2000.0	909	119		M	238,000	2,055,000
Earth Drain in Swamp (by machine)	a3	0.0	1,165	474		0	0	-111-1
Pipe Culvert DBOca	1. A	0.0	43,874	51,385		0	Ů	1
Hasonry Culvert (80x80cm)	a a	0.0	63,563	41,554		ò	ò	
Retaining Wall and Wing Wall (Timber)	82	450,0	10,244	246		00	\$10 ₁ 700	4,720,50
Retaining Wall and Wing Wall (Nasonry)	#J	•	47,464	11,868		0	0	
Gabion Protection	a3	0.0	15,591	120		n i	0	
New Bridge (lisber)	SET	1.0			8,251,5	71	898,467	9,153,03
New Bridge (Concrete)	SET				0120110	0	0	
new bridge (concrete)	9C ł	140				•	•	
			Sub Total		22,630,9	35 5	128,925	27,759,86
Overhead (15%)					3,394,6	40	769 339	4,163,97
			TOTAL COST		26,025,5	75 5	,998,263	31,923,83
					****		*9 * -\$****	*****
Manual routine maintenance of road	X.D		148,684	7,248			14,496	311,86
Routine maintenance of gravel road	Ka	2.0	184,800	88,047			176,074	545,89
			Sub Total		666,9		190.590	857,5
Naintenance of Timber Bridge (New)	a2		7,203	1,121			100,890	749,10
Naintenance of Concrete Bridge (New)	a2	0.0	1,752	3,139		0	0	
Haintenance of Timber Bridge (Exist)	÷2	0.0	7,217	2,404		0	0	
Haintenance of Concrete Bridge (Exist)	# 2	0,0	3,966	2,471		0	0	
	еч инын е е				Unit Pual	/Dn /V-1		10,698,9
			Earthwork k			(Rp/Km)		10,010,7
			Tinber		Unit Cost	(Rp/a2)		
			Cancrete	Øridge	Unit Cost	(Rp/#2) (Pa)	' 1	2,488,0
			Survived	Vaiue	k. Badda-	(Rp)	1	£99009V 1.
			Naintenance New Bridge		ouc Brioge	(X) (X)	*	32.

PROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 37 (ILIC) LENOTH : 11 Km

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

	•			(R	p	}		
 **	÷	~ -	-	.	۰	•••		

Site Clearance in Light Bush a2 0.0 159 91 0 0 Subgrade Preparation a2 20000.0 20x-, 11 400,000 220,000 620,0 Norial Fill a3 0.0 1,633 663 0 0 Hormal Excavation to Spoil a3 100.0 956 522 95,600 52,200 147,8 Sub Base Course a3 1664.0 3,096 1,347 5,151,744 2,721,408 7,373,1 Base Course a3 1664.0 3,096 1,347 5,151,744 2,721,408 7,373,1 Sholder a2 6600.0 288 146 19,008,000 9,654,000 28,644,0 Sorface Dressing (Single) a2 0.0 3,653 1,343 0 0 Surface Dressing (Double) a2 0.0 742 868 0 0 2,727,000 357,000 3,084,0 Earth Drain a3 0.0 1,165 147 0 0 0 64,63,63 41,635 64,73 64,73 64,73 64,73 <t< th=""><th>ITEN</th><th></th><th></th><th></th><th>COST >></th><th></th><th>/////</th><th>COST</th><th></th></t<>	ITEN				COST >>		//// /	COST		
Subgrade Preparation a2 20000.0 20x 1 11 400,000 220,000 620,0 Morai Fill a3 0.0 1,433 883 0 0 Morai Fill a3 0.0 2,445 1,652 0 0 Morai Eccavation to Spoil a3 100.0 955 522 95,600 52,200 147,8 Sub Base Course a3 1664.0 3,096 1,347 5,151,744 2,241,408 7,935,400 47,458,840 14,119,9 Shoif der a2 0.0 3,663 1,433 0 0 50rface Dressing (Single) a2 0.0 3,663 14,333 0 0 50rface Dressing (Souble) a2 0.0 7,42 860 0 0 50rface Dressing (Souble) a3 0.0 1,165 147,40 0 0 767,33 164,30 0 0 6 6 0 6 6 0 0 6 6 0 0 6	<u></u> Υ	UNIT	ANUANTITY	LUCAL	FUREIGN	LUCA		ruke lun	TOTA	
Bubgage Preparation ns 20000.0 200.1 11 400,000 220,000 620,0 Morial Fill a3 0.0 1,433 883 0 0 Morial Fill a3 0.0 2,445 1,632 0 0 Moral Excavation to Spoil a3 100.0 955 522 95,600 52,200 147,8 Sub Base Course a3 1664.0 3,096 1,347 5,15,744 2,247 9,154,000 4,263,840 14,119,9 Shoif der a2 66000.0 288 164 19,008,000 9,634,900 28,444,0 Surface Dressing (Single) a2 0.0 3,645 14,537 0 0 Surface Dressing (Boule) a2 0.0 742 860 0 0 Earth Brain a 300.0 1,145 14,554 10 0 0 Retaining Wall and Wing Mail (Tiaber) a2 0.0 10,244 246 0 0 Retaining Wal								·		
Norsal Fill a3 0.0 1,435 B43 0 0 Fill in Swap a3 0.0 2,445 1,052 0 0 Sub Base Course a3 1664.0 3,096 1,347 5,167,444 2,741,408 7,732,41 Sho Base Course a3 1664.0 3,096 1,347 5,161,444 2,741,408 7,732,41 Sho Base Course a3 1664.0 3,096 1,347 5,161,444 2,741,408 7,953,801 14,119,9 Sho Jace Corssing (Single) a2 0.0 3,653 1,313 0 0 28,644,0 Surface Dressing (Single) a2 0.0 742 660 0 0 27,7000 357,000 3,644,0 Resoury Cluvert 1000ce a 5.0 43,874 51,386 219,570 254,923 476,3 Resoury Cluvert 1000ce a 5.0 43,874 51,386 219,570 0 846,3 Resoury Cluvert 1000ce a 5.0 474,44 14,464 0 0 0 Restaining Mail and Wing Wall							0			
Fill in Swamp a3 0.0 2,445 1,052 0 0 Moraal Excavation to Spoil a3 100.0 958 522 95,600 522,200 147,8 Sub Base Course a3 1664.0 3,096 1,317 5,151,744 2,221,408 7,333,1 Base Course a3 166.0 3,096.0 4,935,840 14,119,9 Shoider a2 0.0 3,685 1,313 0 0 Surface Dressing (Double) a2 0.0 742 686 0 0 Earth.Brain Boolder a 3000.0 909 119 2,727,000 357,000 3,084,0 Farth.Brain Base Course Dobce a 5.0 43,642 51,346 219,370 256,930 476,3 Hasonry Culvert (B0xB0ca) a 0.0 1,165 474 0 0 0 Retaining Mail and Ming Mail (Hisborr) a 0.0 1,254 206 0 0 Retaining Mail and Ming Mail (Hisborr) a 0.0 17,651 17,061 0							10	220,000	620,00	
111 in Jonap 20 9.0 147.6 1,00 100							0	0	· · ·	
Sub Base Course a3 16.64.0 3,0% 1,347 5,151,774 2,741,406 7,7351,11 Base Course a3 2160.0 4,238 2,297 9,151,080 4,958,840 14,119,9 Aspläit Patching a2 0.0 3,653 1,343 0 9 Sub face Dressing (Single) a2 0.0 3,645 1,343 0 0 Surface Dressing (Single) a2 0.0 744 646 0 0 Earth Drain in Swap (by eachine) a3 0.0 1,165 974 0 0 Earth Drain in Swap (by eachine) a3 0.0 1,165 174 0 0 Retaining Mall and Hing Hall (Tieber) a2 0.0 10,244 246 0 0 Retaining Mall and Wing Wall (Hasonry) a3 0.0 15,591 120 0 0 Retaining Mall and Wing Wall (Hasonry) a3 0.0 15,591 120 0 0 Retaining Mall and Wing Wall (Hasonry) a3 0.0 15,591 120 0 0 Reta		-					•	•	· · · · · · · · · · · · · · · · · · ·	
Base [Course #3 2160.0 4,238 2,299 9,151,080 4,955,840 14,119,9 Shou'ider #2 66000.0 288 146 19,008,000 9,654,10 5444,0 Shou'ider #2 0.0 3,653 1,313 0 0 Suriace Dressing (Boole) #2 0.0 7,464 1552 0 0 Suriace Dressing (Boole) #2 0.0 7,42 868 0 0 Earth Drain #3 0.0 1,165 474 0 0 167,000 3,084,0 Earth Drain #3 0.0 1,165 474 0 0 176,336 219,370 256,930 476,3 Bisonry Cluvert 18000cal # 0.0 16,264 128 0 0 176,356 11,351 0 0 176,356 11,351 10 0 0 136,355 11,354 0 0 165,357 146,356 176,356 11,354 0 0 166,37,356 11,355 10,356 11,356 10,36,357,356 1,356 <										
Shoulder e2 66000.0 286 146 19,008,000 9,635,000 28,644,0 Repfail Patching n2 0.0 3,663 1,313 0 0 Surface Dressing (Bingle) n2 0.0 742 868 0 0 Surface Dressing (Double) n2 0.0 742 868 0 0 Earth Drain n 3000.0 909 119 2,727,000 357,000 3,084,0 Pipe Culvert DB0cs n 3.0 0.165 747 0 0 0 Retaining Wall and Ming Wall (Haber) n 0.0 63,563 41,554 0 0 Retaining Wall and Wall (Habory) n3 0.0 1,591 120 0 0 Retaining Wall and Ming Wall (Habory) n3 0.0 15,591 120 0 0 Retaining Wall and Ming Wall (Habory) s3 0.0 15,591 120 0 0 Retaining Wall and Wing Wall (Habory) s3 0.0 15,591 120 0 0 Retaining Wall and Ming Wal	Sub Base Course	- 3	1664.0		1,347					
hsphält Patching n2 0.0 3,653 1,343 0 0 Surface Dressing (Single) 42 0.0 574 552 0 0 Earth Brain a 3000.0 909 119 2,727,000 357,000 3,084,0 Earth Brain a 3000.0 909 119 2,727,000 357,000 3,084,0 Earth Brain basing (by aachine) a 0.0 1,165 174 0 0 Retaining Mail and Ming Mail (Tisber) a 0.0 163,563 41,554 0 0 Retaining Mail and Ming Mail (Tisber) a 0.0 10,244 246 0 0 Retaining Mail and Ming Wail (Masonry) a 0.0 15,591 120 0 0 Retaining Mail and Ming Wail (Masonry) Still 1.0 0 0 0 Retaining Mail and Ming Wail (Masonry) Still 1.0 0 0 0 Retaining Mail and Ming Wail (Masonry) Still 1.0 0 0 0	Base, Cour se	- <u>∎</u> 3	2160.0							
Surface Dressing (Single) #2 0.0 594 552 0 0 Surface Dressing (Double) #2 0.0 742 868 0 0 Earth Drain # 3000.0 909 119 2,727,000 357,000 3,084,0 Earth Drain # 3000.0 909 119 2,727,000 357,000 3,084,0 Earth Drain # 300.0 1,165 474 0 0 0 Earth Drain # 30.0 1,165 474 0 0 0 Retaining Kall and Wing Wall (Timber) #2 0.0 63,563 41,554 0 0 Retaining Kall and Wing Wall (Hasonry) #3 0.0 47,464 11,868 0 0 Gabion Protection #3 0.0 15,551 120 0 0 New Bridge (Concrete) SET 1.0 - 0 0 New Bridge (Concrete) SET 1.0 148,684 7,248 1,635,574 79,728 54,1485,1 Gverhead (15%) <	Shoulder	•2	66000.0		146	19,008,00	0 9	636,000	28,644,00	
Surface Dressing (Double) a2 0.0 742 B668 0 0 Earth Drain a 3000.0 909 119 2,727,000 357,000 3,084,0 Earth Drain a 300.0 1,165 474 0 0 0 Earth Drain a 300.0 43,874 51,386 219,370 258,930 476,3 Hasonry Dulvert (800ca) a 0.0 63,563 41,554 0 0 Retaining Mail and Wing Wall (Masonry) a3 0.0 17,464 11,868 0 0 Retaining Mail and Wing Wall (Masonry) a3 0.0 15,591 120 0 0 Retaining Mail and Wing Wall (Masonry) a3 0.0 15,591 120 0 0 Retaining Mail and Wing Wall (Masonry) s3 0.0 15,591 120 0 0 Retaining Mail and Wing Wall (Masonry) s3 0.0 15,591 120 0 0 Retaining Mail and Wing Wall (Masonry) s3 0.0 15,591 120 0 0	Asphalt Patching		0.0	3,882	1,343		0	0	· · ·	
Earth Drain a 3000.0 909 119 2,727,000 357,000 3,084,0 Earth Drain in Swape (by machine) a 3 0.0 1,165 474 0 0 Pipe Cuivert 080ca a 5.0 43,874 51,386 219,370 256,930 476,3 Hasomry Cuivert 180x80ca1 a 0.0 63,565 41,354 0 0 0 Retaining Wall and Wing Wall (Hisber) n2 0.0 10,244 246 0 0 Retaining Wall and Wing Wall (Hasonry) n3 0.0 47,464 11,869 0 0 Retaining Wall and Wing Wall (Hasonry) n3 0.0 15,591 120 0 0 Retaining Wall and Wing Wall (Hasonry) s3 0.0 15,591 120 0 0 New Bridge (Iisber) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 New Bridge (Concrete Groad Km 11.0 148,684 7,249 1,635,574 79,778 14,175,2 Routine m	Surface Dressing (Single)	#2	0.0	594	552		0	0		
Earth Drain in Swamp (by machine) m3 0.0 1,165 174 0 0 Pipe Eulvert DBOce m 5.0 43,874 51,386 219,370 256,930 476,3 Hasonry Culvert (B0xBOce) m 0.0 63,563 41,554 0 0 Retaining Wall and Wing Wall (Hisber) m2 0.0 10,244 246 0 0 Retaining Wall and Wing Wall (Hasonry) m3 0.0 47,464 11,869 0 0 Gabina Protection m3 0.0 15,571 120 0 0 New. Bridge (Concrete) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 Nanoal routine maintenance of road Km 11.0 149,684 7,249 1,635,524 79,728 1,715,72 Routine maintenance of Gravel road Km 11.0 149,684 7,249 1,635,524 79,728 1,715,72	Surface Dressing (Double)	a 2	0.0	742	868		0	0	-	
Pipe Cuivert D80cs s 5.0 43,874 51,386 219,370 258,930 476,3 Hasonry Cuivert (80x80ca) a 0.0 63,563 41,554 0 0 Retaining Mail and Hing Mail (Viaber) p.2 0.0 10,244 246 0 0 Retaining Mail and Hing Wall (Masonry) p.3 0.0 47,164 11,868 0 0 Retaining Mail and Hing Wall (Masonry) p.3 0.0 47,164 11,868 0 0 Gabion Protection m.3 0.0 15,591 120 0 0 New Bridge (Tisher) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 New Bridge (152) Sub Total 36,755,794 17,729,378 54,485,17 Overhead (152) Sub Total 36,097 2,059,406 8,172,7 Manual routine esintenance of road Ka 11.0 149,684	Earth Drain	. 8	3000.0	909	119	2,727,00	0	357,000	3,084,00	
Pipe Eulvert D80cs s 5.0 43,874 51,386 219,370 256,930 476,3 Hasonry Eulvert D80xBocal s 0.0 63,553 41,554 0 0 Retaining Mail and Hing Mail (Visber) p.2 0.0 10,244 246 0 0 Retaining Kail and King Wall (Masonry) p.3 0.0 47,454 11,868 0 0 Retaining Kail and King Wall (Masonry) p.3 0.0 47,454 11,868 0 0 Retaining Kail and King Wall (Masonry) p.3 0.0 15,591 120 0 0 Retaining Kail and King Wall (Masonry) p.3 0.0 15,591 120 0 0 Retaining Kail and King Wall (Masonry) p.3 0.0 15,591 120 0 0 New Bridge (Tisber) SET 1.0 0 0 0 New Bridge (Concrete) SET 1.0 0 0 0 Naver head (15%) Stats 5,513,355 2,659,406 8,172,7 7,728 <t< td=""><td></td><td>•3</td><td></td><td>t 165</td><td>474</td><td></td><td>-</td><td>. Q -</td><td>a de fer</td></t<>		•3		t 165	474		-	. Q -	a de fer	
Hasonry Culvert (80x80ca) a 0.0 63,563 41,554 0 0 Retaining Wall and Wing Wall (Hisborr) #2 0.0 10,244 246 0 0 Retaining Wall and Wing Wall (Hisborr) #3 0.0 15,551 120 0 0 Retaining Wall and Wing Wall (Hisborr) #3 0.0 15,551 120 0 0 New Bridge Tilsber) SET 1.0 0 0 New Bridge Tilsber) SET 1.0 0 0 New Bridge Torrete) SET 1.0 0 0 New Bridge Torrete) SET 1.0 0 0 Overhead (152) 5,513,359 2,659,406 8,172,7 7 7,728 1,715,2 Nanual routine saintenance of road Ka 11.0 148,604 7,248 1,635,524 79,778 1,715,2 Routine saintenance of road Ka 11.0 148,604 89,047 2,032,000 968,517 3,001,3 M		, A			1.1		0	256,930	476,30	
Retaining Wall and Wing Wall (Hisber) n2 0.0 10,244 246 0 0 Retaining Wall and Wing Wall (Hasonry) n3 0.0 47,164 11,060 0 0 Gabian Protection n3 0.0 15,591 120 0 0 New Bridge (Timber) SET 1.0 - 0 0 New Bridge (Concrete) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 Overhead (152.) 5,513,367 20,398,784 62,657,9 Manual routine maintenance of road Km 11.0 149,684 7,240 1,635,524 79,728 1,715,2 Routine maintenance of gravel road Km 11.0 149,684 7,240 1,653,524 79,728 1,715,2 Routine maintenance of gravel road Km 11.0 149,684 7,240 1,653,524 79,728 1,715,2 Routine maintenance of gravel road Km 11.0 149,684 7,240 1,650,324 1,049,245 4,715,5 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>•</td></td<>							-	-	•	
Retaining Wall and Wing Wall (Hasomry) #3 0.0 47,464 11,868 0 0 Gabion Protection #3 0.0 15,591 120 0 0 New. Bridge (Tisber) SET 1.0 0 0 New. Bridge (Concrete) SET 1.0 0 0 New. Bridge (Concrete) SET 1.0 0 0 New. Bridge (Concrete) SET 1.0 0 0 Overhead (152) Sub Total 36,755,774 17,729,378 54,485,17 Overhead (152) 5,513,367 2,659,406 8,172,7 TOTAL COST 42,269,163 20,398,784 62,657,9 Manual routine maintenance of road K# 11.0 148,684 7,248 1,635,524 79,728 1,715,2 Routine maintenance of Gravel road K# 11.0 148,684 7,248 1,648,324 1,014,245 4,716,5 Maintenance of Concrete Bridge (Mewl #2 0.0 1,752 3,135 0 0		ø2					0	0	· .	
Gabian Protection #3 0.0 15,591 120 0 0 New Bridge Timber) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 Sub Total 36,755,794 17,729,378 51,485,1 Overhead (152) 5,513,369 2,659,406 8,172,7 TOTAL COST 42,269,163 20,388,784 62,657,9 Manual routine maintenance of road Km 11.0 148,684 7,249 1,635,524 79,728 1,715,2 Maintenance of Timber Bridge (New) m2 0.0 7,203 1,121 0 0 Maintenance of Concrete Bridge (New) m2 0.0 1,752 3,135 0 0 Maintenance of Concrete Bridge (Exist) m2 16.0 7,217 2,404 837,172 270,864 1,116,0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,965 2,471 0 0 Eart							Ō.	0.		
New Bridge (Timber) SET 1.0 0 0 New Bridge (Concrete) SET 1.0 0 0 Overhead (152) Sub Total 36,755,794 17,729,378 54,485,1 Overhead (152) 5,513,367 2,659,406 8,172,7 TOTAL COST 42,269,163 20,388,784 62,657,9 Nanual routine maintenance of gravel road Km 11.0 148,684 7,249 1,635,524 79,728 1,715,2 Nanual routine maintenance of gravel road Km 11.0 148,684 7,249 1,635,524 79,728 1,715,2 Naintenance of Timber Bridge (New) m2 0.0 7,203 1,121 0 0 Maintenance of Concrete Bridge (New) m2 0.0 1,752 3,135 0 0 Maintenance of Concrete Bridge (Exist) m2 116.0 7,217 2,404 837,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,786 2,471 0 0 Kaintenance of Concrete Bridge (Exist) m2							0	0		
New Bridge (Concrete) SET 1.0 0 0 Sub Total 36,755,794 17,729,378 54,485,1 Overhead (15%) 5,513,367 2,659,406 8,172,7 TOTAL COSI 42,269,163 20,388,784 62,657,9 Hanual routine maintenance of road Km 11.0 148,684 7,248 1,635,524 79,728 1,715,2 Routine maintenance of gravel road Km 11.0 148,694 7,248 1,635,524 79,728 1,715,2 Maintenance of Limber Bridge (Rew) m2 0.0 7,203 1,121 0 0 Maintenance of Concrete Bridge (Rew) m2 0.0 7,217 2,404 B37,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,966 2,471 0 0 Kaintenance of Concrete Bridge (Exist) m2 0.0 3,966 2,471 0 0 Kaintenance of Concrete Bridge (Exist) m2 0.0 3,966 2,471 0							0	0		
Overhead (15%) 5,513,369 2,659,406 8,172,7 TOTAL COSI 42,269,163 20,308,784 62,657,9 Hanual routine maintenance of road Km 11.0 149,684 7,240 1,635,524 79,728 1,715,2 Routine maintenance of gravel road Km 11.0 149,684 7,240 1,635,524 79,728 1,715,2 Maintenance of gravel road Km 11.0 184,800 88,047 2,032,800 968,517 3,001,3 Sub Total 3,669,324 1,048,245 4,716,5 0 0 Maintenance of Timber Bridge (Rem) N2 0.0 7,203 1,121 0 0 Naintenance of Timber Bridge (Rem) N2 0.0 1,752 3,135 0 0 Maintenance of Timber Bridge (Exist) N2 0.0 3,966 2,471 0 0 Kaintenance of Concrete Bridge (Exist) N2 0.0 3,966 2,471 0 0 Kaintenance of Concrete Bridge (Exist) N2 0.0 3,966 2,471 0 0 Kaintenance of Concrete Bridge (Exist)				- 			0	. 0.		
TOTAL COST42,269,16320,388,78462,657,9Hanual routine maintenance of roadKm11.0148,6847,2401,635,52479,7281,715,2Routine maintenance of gravel roadKm11.0148,6847,2401,635,52479,7281,715,2Sub Total3,668,3241,01,3Sub Total3,668,3241,048,2454,716,5A faintenance of Concrete Bridge (Hew)n20,01,7223,13500A faintenance of Concrete Bridge (Kew)n20,01,7272,404B37,172278,8641,116,0A faintenance of Concrete Bridge (Exist)n20,03,9862,47100Earthwork & Pavement Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost <th colspan<="" td=""><td></td><td></td><td>;</td><td>Sub Total</td><td></td><td>36,755,75</td><td>74 17,</td><td>729,378</td><td>54,485,13</td></th>	<td></td> <td></td> <td>;</td> <td>Sub Total</td> <td></td> <td>36,755,75</td> <td>74 17,</td> <td>729,378</td> <td>54,485,13</td>			;	Sub Total		36,755,75	74 17,	729,378	54,485,13
TOTAL COST42,269,16320,388,78462,657,9Hanual routine maintenance of roadKm11.0148,6847,2401,635,52479,7281,715,2Routine maintenance of gravel roadKm11.0148,6847,2401,635,52479,7281,715,2Sub Total3,668,3241,01,3Sub Total3,668,3241,048,2454,716,5A faintenance of Concrete Bridge (Hew)n20,01,7223,13500A faintenance of Concrete Bridge (Kew)n20,01,7272,404B37,172278,8641,116,0A faintenance of Concrete Bridge (Exist)n20,03,9862,47100Earthwork & Pavement Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost(Rp/Km)5,696,1Timeber Bridge Unit Cost <th colspan<="" td=""><td>Overhead (15%)</td><td></td><td></td><td></td><td></td><td>5,513,38</td><td>172,</td><td>659,406</td><td>8,172,7</td></th>	<td>Overhead (15%)</td> <td></td> <td></td> <td></td> <td></td> <td>5,513,38</td> <td>172,</td> <td>659,406</td> <td>8,172,7</td>	Overhead (15%)					5,513,38	172,	659,406	8,172,7
Hanual routine maintenance of road Km 11.0 148,684 7,248 1,635,524 79,728 1,715,2 Routine maintenance of gravel road Km 11.0 184,800 88,047 2,032,800 968,517 3,001,3 Sub Total 3,668,324 1,048,245 4,716,5 Maintenance of timber Bridge (Mem) B2 0.0 7,203 1,121 0 0 Maintenance of Concrete Bridge (Mem) B2 0.0 1,752 3,135 0 0 Maintenance of Timber Bridge (Exist) B2 116.0 7,217 2,404 837,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) B2 0.0 3,966 2,471 0 0 Maintenance of Concrete Bridge (Exist) B2 0.0 3,966 2,471 0 0 Maintenance of Concrete Bridge (Exist) B2 0.0 3,966 2,471 0 0 Kantenance of Concrete Bridge (Exist) B2 0.0 3,966 2,471 0 0 Kantenance of Concrete Bridge (Exist) B2 0.0 3,966 2,471	· · ·				· · ·			101 005	19 157 6	
Routine maintenance of gravel road Km 11.0 184,800 88,047 2,032,800 768,517 3,001,3 Bub Total 3,668,324 1,048,245 4,716,5 Maintenance of Timber Bridge (Kew) m2 0.0 7,203 1,121 0 0 Maintenance of Concrete Bridge (Kew) m2 0.0 1,752 3,135 0 0 Maintenance of Timber Bridge (Exist) m2 116.0 7,217 2,404 837,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,7865 2,471 0 0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,7865 2,471 0 0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,7865 2,471 0 0 Earthwork & Pavement Unit Cost (Rp/Km) : 5,696,1 1				1018L 2051		441202110	13 ZV	12001104	0101111	
Routine maintenance of gravel road Routine maintenance of gravel road Maintenance of Timber Bridge (Hew) Maintenance of Concrete Bridge (Hew) Maintenance of Concrete Bridge (Exist) Maintenance Bridge Unit Cost Maintenance Bridge Unit Cost Maintenance Bridge Unit Cost Maintenance Rate without Bridge Maintenance (Rp) Maintenance (Rp) Maintenance Rate without Bridge Maintenance (X) Maintenance (X) Maintenanc										
Bub Total 3,669,324 1,048,245 4,716,5 Maintenance of Timber Bridge (Hew) m2 0.0 7,203 1,121 0 0 Maintenance of Concrete Bridge (Hew) m2 0.0 1,752 3,135 0 0 Maintenance of Concrete Bridge (Exist) m2 116.0 7,217 2,404 837,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,965 2,471 0 0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,965 2,471 0 0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,965 2,471 0 0							24		1,715,2	
Maintenance of Timber Bridge (Нем) в2 0.0 7,203 1,121 0 0 Maintenance of Concrete Bridge (Нем) n2 0.0 1,752 3,135 0 0 Maintenance of Timber Bridge (Exist) n2 116.0 7,217 2,404 837,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) n2 0.0 3,965 2,471 0 0 Earthwork & Pavement Unit Cost (Rp/Km): 5,696,1 Timber Bridge Unit Cost (Rp/Km): 5,696,1 Earthwork & Pavement Unit Cost (Rp/m2): Concrete Bridge Unit Cost (Rp/m2): Survived Value (Rp): 2,957,2 Maintenance Rate without Bridge (Z): : 7.	Routine eaintenance of gravel road	, Ku	11.0		88,047					
Maintenance of Concrete Bridge (Hew) p2 0.0 1,752 3,135 0 0 Maintenance of Timber Bridge (Exist) p2 116.0 7,217 2,404 837,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,965 2,471 0 0 Earthwork & Pavement Unit Cost (Rp/Km) : 5,696,1 Timber Bridge Unit Cost (Rp/Km) : 5,696,1 Timber Bridge Unit Cost (Rp/m2) : Concrete Bridge Unit Cost (Rp/m2) : Survived Value (Rp) : 2,957,2 Maintenance Rate without Bridge (Z) : 7.							24 E i	048,245	4,716,5	
Maintenance of Timber Bridge (Exist) m2 116.0 7,217 2,404 837,172 278,864 1,116,0 Maintenance of Concrete Bridge (Exist) m2 0.0 3,965 2,471 0 0 Earthwork & Pavement Unit Cost (Rp/Km) : 5,696,1 Timber Bridge Unit Cost (Rp/Km) : 5,696,1 Timber Bridge Unit Cost (Rp/m2) : Concrete Bridge Unit Cost (Rp/m2) : Survived Value Maintenance Rate without Bridge (Z) :		82	0.0				0	0	1.1	
Maintenance of Concrete Bridge (Exist) #2 0.0 3,965 2,471 0 0 Earthwork & Pavement Unit Cost (Rp/Km) : 5,696,1 Timber Bridge Unit Cost (Rp/m2) : Concrete Bridge Unit Cost (Rp/m2) : Survived Value (Rp) : 2,957,2 Maintenance Rate without Bridge (Z) : 7.	Naintenance of Concrete Bridge (New)	n2	0.0	1,752	3,135		-	0		
Earthwork & Pavement Unit Cost (Rp/Km) : 5,696,1 Timber Bridge Unit Cost (Rp/m2) : Concrete Bridge Unit Cost (Rp/m2) : Survived Value (Rp) : 2,957,2 Maintenance Rate without Bridge (X) : 7.	Naintenance of Timber Bridge (Exist)	e2	116.0	7,217	2,404	837,17	2	278,864	1,116,0	
Timber Bridge Unit Cost (Rp/m2) : Concrete Bridge Unit Cost (Rp/m2) : Survived Vatue (Rp) : 2,957,2 Naintenance Rate without Bridge (%) : 7.	Maintenance of Concrete Bridge (Exist)	a2	0.0	3,965	2,471		0	0		
Timber Bridge Unit Cost (Rp/m2) : Concrete Bridge Unit Cost (Rp/m2) : Survived Vatue (Rp) : 2,957,2 Naintenance Rate without Bridge (%) : 7.						••••••••••				
Timber Bridge Unit Cost (Rp/m2) : Concrete Bridge Unit Cost (Rp/m2) : Survived Vatue (Rp) : 2,957,2 Naintenance Rate without Bridge (%) : 7.				Earthwork &	Pavement	Unit Cost	(Rp/Ka)	;	5,696,1	
Concrete Bridge Unit Cost {Rp/#2} : Survived Value (Rp) : 2,957,2 Naintenance Rate without Bridge {%) : 7.								:		
Survived Vatue (Rp) : 2,957,2 Naintenance Rate without Bridge (%) : 7.								:		
Maintenance Rate without Bridge (%) : 7.			· · ·		3				2.957.2	
						ut Bridno		,		
	•		•			or orinĝe		;	/	

FROV

KALIMANTAN SELATAN KAB : TAPIN

LINK ND : 31 (IIIB-1) LENGTH : B Km

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

ITEN	UNIT	QUANTITY	<<< UNIT Local	COST >>> Foreign	() Loca		COST Etgn	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
***************************************								****
ite Clearance in Light Bush	•2	0,0	159	91		0	۵	
ubgrade Preparation	a2	56000.0	20	ļį.	1,120,00	v 0 414	,000	1,736,00
lormal Fill	- ∎3	0.0		863		0	100¥	*******
ill in Swamp	#3	0.0	2,445	1,052		0	Ň	
lormal Excavation to Spoil	n 3	824.0	956	522	707,74	•	128	1,217,07
ub Base Course	a 3	4480.0	3,096	1,347				19,904,6
ase Course	#3	2240.0	4,238	2,299	9 493 12			14,642,8
houlder	#2	24000.0	288	146	6,912,00			
sphalt Patching	#2	0,0	3,663	1,343		0 31304	1000	10,416,00
urface Dressing (Single)	#2	32000,0	594	552	19,008,00			71 195 40
urface Dressing (Double)	#2	0.0	742	869	111000100	0 17,664	1000	36,672,00
arth Drain	4	0.0	909	117		0	~	
arth Drain in Swamp (by machine)	= =3	0,0	1,165	474		0	0	
ipe Culvert D80cm		0,0	43,874			ν. Λ	V .	
asonry Culvert (80x80ca)	6	0.0	63,563	51,386		ů O	~	
etaining Wall and Wing Wall (Timber)	a2	0,0	10,244	41,554 246		0	V A	
etaining Kall and Wing Kall (Hasonry)	#3	0,0	47,464	11,868		0	v 	
abion Protection	5 a3	0.0	15,591	120		0	~	
ex Bridge (Tigber)	SET	1.0	19/911			0	Å	
ew Bridge (Concrete)	SET	1,0				0	0	
		.,.			·	•	v	
			Sub Total		51,190,94	4 33,398	448	84,589,3
verhead (15%)					7,678,64	1 5,009	767	12,689,40
			TOTAL COST		58,869,58	5 38,408	,215	97 <mark>,277,</mark> 8
			****		********	*-**		
anual routine maintenance of road	Kn	8.0	148,684	7,248	1,189,47	2 57	994	1,247,4
outine maintenance of asphalt road	,Ka	8,0	366,300 Sub Total	134,300	2,930,40 4,119,87			4,004,8 5,252,2
aintenance of Timber Bridge (Hew)	a2	0.0	7,203	1,121		0.	0	- -
aintenance of Concrete Bridge (New)	a2	0.0	1,752	3,135		0	Ô	
aintenance of Timber Bridge (Exist)	n2	100.0	7,217	2,404	721,70		400	962,1
aintenance of Concrete Bridge (Exist)	a2	0.0	3,966	2,471		0	0	·
					** ** * * * * * * * *	¥ = 1 + 4 + 4 + 4 + 4 + 4	<i></i>	**********
			Earthwork &			{Rp/K#}	ł	12,159,7
						(Rp/#21	1	
			Concrete	Bridge Un	ift Cost	(Rp/m2)	\$	
				Value		(Rp)	ŧ.	16,861,8
			Maintenance		: Bridge	(2)	ŧ	5.
· · ·			New Bridge	Cost Rate		(2)	\$	

KALIMANTAN SELATAN PROV KAB ٤. TAPIN

EINK NO (1118-1) LENOTH : 10 Km 39 1

3 13

I'TEB

Normal Fill

Fill in Swamp

Shoulder

Earth Drain

Base Course

Asphalt Patching

Gabion Protection

: 10.0m road bed, 4.0m road with surface Dressing (1) UPGRADE

-----COST <u>}}})}</u> **(((((LOCAL FOREIGN TOTAL UNIT QUANTITY LOCAL FOREIGN ***** -----_____ Site Clearance in Light Bush 0.0 159 91 0 0 . 82 880,000 2,480,000 Subgrade, Preparation .: #2 B0000.0 111,600,000 20 0 0 . 863 0 0.0 1,635 · #3 1,052 0 **#**3 0.0 2,445 0 Normal Excavation to Spoil 528.0 956 522 501,768 275,616 780,384 **#**3 22,983,639 Sub Rase Course 16,015,608 6,968,031 ะ สวี 5173.0 3,076 1,347 4,238 6,437,200 18,303,600 2,299 11,866,400 2800.0 · #3 60000.0 288 146 17,280,000 8,760,000 26,040,000 #2 1,343 0. . 0 : #2 0.0 3,663 0 22,080,000 594 552 23,760,000 45,840,000 Surface Dressing (Single) ₽Ż 40000.0 742 869 · 0 0 Surface Dressing (Double) **£**2 0.0 Ū 345,100 2,981,200 2900.0 909 119 2,636,100 đ . ¢ 0 Earth Drain in Swamp (by machine) 1,165 474 #3 0.0 Û 43,874 Q Pipe Culvert 080ca 0.0 51,386 0 - 5 63,563 41,554 0 0 Hasonry Culvert (R0x80cm) 0.0 6 Retaining Wall and Wing Hall (Timber) 10,244 246 Q Û #2 0.0 47,464 11,969 •0 0 Retaining Wall and Wing Wall (Masonry) 0,0 . #3 83 0.0 15,591 120 0 0 Hew Bridge (Timber) SET 1.0 . -----0 0 --0 SET -New Bridge (Concrete) 1.0 0 Total 73,662,876 45,745,947 119,408,823 Sub 17,911,323 11,049,431 6,861,892 Overhead 🗧 (15%). 👘

84,712,307

52,607,939

(Rp)

0

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0

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137,320,146

Nanual routine maintenance of road		Ka	10.0	149,684	7,249	1,485,	840	72,480	1,559,32
Routine maintenance of asphalt road		Ke	10.0	366,300	134,300	3,663,	000 1	,343,000	5,006,00
				Sub Total		5,149,	840 1	,415,480	6,565,32
Naintenance of Timber Bridge (New)		82	0.0	7,203	1,121		. 0	0.	
faintenance of Concrete Bridge (New)		#2	0.0	1,752	3,135	1.1	0	0	
laintenance of Timber Dridge (Exist)		\$ 2	0.0	7,217	2,404		0	0	
laintenance of Concrete Bridge (Exist)		s2	0.0	3,966	2,471		0	Û	
	÷	t.		Earthwork &	Pavenent U	nit Cost	(Rp/Ka)	:	13,732,0
(1) 1. (1) 1.				Timber	Bridge U	nit Cost	(Rp/m2)	1	
							10-1-31	•	
· · · · · · · · · · · · · · · · · · ·	•			Concrete	Bridge U	nit Cost	(Rp/s2)	•	
				Concrete Survived	Bridge U Value	nit Cost	(Rp)	:	19,749,2
				Survived			•	:	19,749,2

TOTAL COST

PROV : KALIMANTAN SELATAN

KAB : TAPIN

LINK ND : 28 (IIIC) LENGTH : 3 Km

(Rp)

UPGRADE : 6.0m road bed, 3.0m road with surface Subbase Cource

ITEN				COST >>		‹ ‹‹‹	COST	>>>>>
	UN11	QUANTITY	LOCAL	FORELON	LOC	AL.	FOREIGN	IOIA
Site Clearance in Light Bush	#2	4000.0	159	91	171 0	0.6	7/8 000	1
Subgrade Preparation	02	18000.0	20	11			364,000	1,000,00
Norgal Fill	n3	0,0	1,635	# 1 1963			198,000	558,00
Fill in Swamp	#3					0	0	
Normal Excavation to Spoil	#3 #3	1780.0	2,445	i,052			781,110	2,596,52
Sub Base Course	#3	1440.0	956	522			929,160	2,630,84
Base Course	. nJ	0.0	3,096	1,347			,939,680	6,397,92
Shoulder	. nZ		4,238	2,299		0	0	
Asphalt Fatching		9000.0	288	146			,314,000	3,906,00
		0.0	•	1,343		0	0	
Surface Dressing (Single)	a2	0.0	594	552		0	.0	· •
Surface Dressing (Double)	· a2	0,0		896		0	0	
Earth Drain	8	2000.0	909	. 119			238,000	2,056,00
Earth Drain in Swamp (by machine)	a3	3300.0	1,165	474			564,200	5,408,70
Pipe Culvert D80cm	. 2	2.0	43,874	51,386		48	102,772	190,52
Hasonry Culvert (B0xB0cm)	ő	0.0	63,563	41,554		0	0	
Retaining Wall and Wing Wall (Timber)	¤2	0.0	10,244	246	i	0	0	
Retaining Wall and Wing Wall (Masonry)	a 3	0,0	47,464	11,968)	0	0	
Gabion Protection	nĴ	0,0	15,591	120	F	0	0	
Yew Bridge (Timber)	SET	1,0				0	0	
lew Bridge (Concrete)	SET	1,0		. 		0	0	
			Sub Total		17,313,5	180 7	,430,922	24,744,50
Iverhead (15%)					2,597,0	37 1	,114,638	3,711,67
			TOTAL COST		17,910,6	17 8	,545,560	28,456,17
fanual routine maintenance of road	 Ka	3.0	148,694	7,248	446,0	52	21,744	467,79
Routine maintenance of gravel road	Ka	3.0	184,800	88,047			264,141	818,54
			Sub Total	• •	1,000,4		285,885	1,286,33
laintenance of Timber Bridge (New)	a2	0.0	7,203	1,121		0	0	
faintenance of Concrete Bridge (New)	#Z	0.0		3,135		0	Û	
faintenance of Timber Bridge (Exist)		22.0		2,404		74	52,888	211,66
faintenance of Concrete Bridge (Exist)	#2	0,0	3,966	2,471		0	0	
					, , , , , , , , , , , , , , , , , , ,			
			Earthwork &		Unit Cost	(Rp/)(a) (Ro/a)	1	9,485,39
			Tinber	-	Unit Cost	(Rp/m2)	i -	
		;	Concrete	-	Unit Cost	(Rp/m2)	1	4 EEA +/
			Survived	Value		(Rp)	\$	2,559.14
		÷	Maintenance		nnt ertoðe	(%)	ł	· 4.5
			New Bridge	Cost Rate		(%)	Ŧ	

PROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 27 (IIIB-2) LENGTH : 7 Km

UPGRADE : 7.0m road bed, 3.5m road with surface Base Cource

(Rp)

	UNIT	DUANTITY	CCC UNIT	ECOST >>> Fore ign	>>>> Local	KKK COST Foreign	>>>>> Totai
	*			******			
Site Clearance in Light Bush	a2	0.0	159	9 t	0	0	
Subgrade Preparation	n2	202.5		·	4,050	2,227	8,27
formal Fill	e3	0.0	1,635	863	0	0	· · · ·
Fill in Swamp	≜3	5.2	2,445	1,052		5,470	18,18
formal Excavation to Spoil	a 3	215.0	956	522	205,540	112,230	317,77
Gub Base Course	#3	152.0	3,096	1,347	470,592	204,744	675,33
lase Course	H 3	0.0	4,238	2,299	. 0	0	
Shoulder	e2	24500.0	288	146	7,056,000	3,577,000	10,633,00
Asphalt Patching	a2	1047.0	3,663	1,343	3,835,161		5,241,28
Surface Dressing (Single)		0.0	594	552	0	0	
Surface Dressing (Double)	b2	0.0	742	868	. 0	0	с — С. — А.
arth brain		800.0	909	119	727,200	95,200	822,40
Farth Drain in Swamp (by machine)	· #2	150.0	1,165	474	174,750	71,100	245,85
Pipe Culvert DBOcm	2 20	0.0	43,874	51,386	0	0	
Hasonry Culvert (Box80cm)		0.0		41,554	۵	0	
Retaining Wall and Wing Wall (Timber)	e2	75.0	10,244	246	768,300	18,450	786,75
Retaining Wall and Wing Wall (Masonry)		0.0	47,464	11,869	1001000	0	100110
Sabion Protection	•: a3	0.0		11,000	ò	ů 0	
len Sridge (Timber)	SET	1.0	101011	120	Ŷ		
lew Bridge (Concrete)	SET	1.0	·		, o	, ů	
ien bringe (concreter	341				Ŷ	•	
		:	Sub Total		13,254,307	5,492,542	18,746,84
Iverhead (15X)					1,980,146	823,881	2,812,02
			TOTAL COST		15,242,453	6,316,423	21,558,87
lanual routine esintenance of road	Ka	7:0	148,684	7,249	1,040,788	50,736	1,091,52
Routine maintenance of gravel road	Ka	7.0	184,800	8B,017	1,293,600	616,329	1,909,92
			Sub Total	-1	2,334,388	667,065	3,001,45
laintenance of fimber Bridge (New)	a2	0.0	7,203	1,121	0	0	
laintenance of Concrete Bridge (New)	±2		1,752	3,135	.0	0	
faintenance of Timber Bridge (Exist)	#2		7,217	2,404	1 327,928	442,336	1,770,26
faintenance of Concrete Bridge (Exist)		0.0	3;966	2,471	0	0	
				********		***	
<pre>{</pre>	1	,	Earthwork &	Pavement (init Cost (Rj	p/Kal :	3,079,83
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		linber			p/a2} :	• •
•	tagen and see		Concrete	-		p/a2) :	
			Survived	Value		(Rp) :	337,68
1			Naintenance			(%)	13.9
:			New Bridge			(1) :	1411
and the second			then of roge			· • ·	1

PROV :

* KALIMANTAN SELATAN KAB * TAPIN

LINK NO : 53 (IIIC)

LENGTH : 18 Km

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

ITEN	TINU	DUANTITY	<<< UNIT	COST >>: Foreign		(((((AL	COST Foreign	>>>>> Total
			********				*********	
Site Clearance in Light Bush	•2	72000.0	159	91	11,448,0	100 6	,552,000	18,000,000
Subgrade Preparation	2	108000.0	20	ii ii			188,000	3,348,000
Normal Fill	ē3	0.0	1,635	863		0	1.00,000	01010100
Fill in Swamp	a3		2,445	1,052		ů	ů.	, ,
Normal Excavation to Spuil	#3	1440.0	956	5?2			751,600	2,128,32
Sub Base Course		11520.0	3,096		1 1 -		517,440	
Rase Course	ы3		4,238	2,299		0 10	0	114101410
Shoul der			288	146		•	-	
Asphalt Patching	a2		3,663	L ₁ 343	10120010	00 J	256,000	15,624,00
Surface Dressing (Single)	m2	0.0	574			V	U Q	
Surface Dressing (Double)	44 #2			552		0	. 0	
Earth Drain			742	868		0	Q	
Earth Drain in Swamp (by machine)	₿ -7	35640.0		119			,241,160	36,637,92
	•3	• •	1,165	474		0	0	
Pipe Culvert DBOce	. 8		•	51,386		96 10	482,744	19,433,04
Masonry Culvert (B0xB0ca)	8		63,563	41,554		0	0	1
Retaining Wall and Wing Wall (Timber)	a2			246		0.	0	. (
Retaining Wall and Wing Wall (Masonry)	a 3		47,464	11,960	2,733,9	26	693 596	3,417,52
Sabion Protection	63	0.0	15,591	120		0	• \$	
Yen Bridge (Tisber)	SET	1.0			9,974,7	56 1	,059,421	11,034,17
łew Bridge (Concrete)	SET	1,0				9 .	0	, i
			Sub Total		115,074,2	98 45	732,041	160,808,33
Overhead (15%)					17,261,1	44 6	859,806	24,120,95
			TOTAL COST		132,335,4	142 52	,591 ₁ 847	184,927,28
		*****		~				
fanual routine maintenance of road		18.0		7,249			130,464	
Routine saintenance of gravel road	Ke	18,0	184,800	88,047			,584,846	4,911,24
	_		Sub Total		6,002,7		,715,310	7,718,02
laintenance of Timber Bridge (New)	#2.			1,121		36	125,552	932,28
laintenance of Concrete Bridge (New)	#2	0,0		3,135		0	. 0	
faintenance of Timber Bridge (Exist)	#2			2,404		Q .	0	
faintenance of Concrete Bridge (Exist)	e 2	0,0	31966	2,471		0	0	
	*	4********	***********					
			Earthwork &			(Rp/Ka)		9,568,77
			liaber		Unit Cost	(Rp/#2)		113,29
			Concrete	Bridge	Unit Cost	(Rp/#2)	1	
			Survived	Value		(Rp)	t	20,473,34
			Naintenance	Rate witho	ut Øridge	(2)	1	4.4
			New Bridge		-	(2)	1	6.8

PROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 3 (IIIB-1) LENGTH : 4 Km

UPGRADE : 6.0m road bed, 3.5m road with surface Dressing (1)

(NITER) (S) Martin (SITER) Anterna (SITER)	UNI	I QUANTETY	KKK UNIT Edcal	FOREIGN		COST Foreign	>>>>> total
ite Clearance in Light Bush	8	2 0.0	159	91	0	0	0
Subgrade Preparation		2 0.0	2	· 11	. 0	0	0
lormal Fill		3 0.0	1,635	863	0	0	0
ill in Swamp	R	3 0.0	2,445	1,052	0	0	0
lormal Excavation to Spoil		3 0.0	956	522	0	0	0
ub Base Course		463.8	3,096	1,347	1,435,924	624,738	2,060,662
ase Course		3 735.0	4,238	2,299	3,114,930	1,689,765	4,804,695
houlder	. a	10000.0	288	146	2,880,000	1,460,000	4,340,000
sphalt Patching	, e	2 140.0	3,663	1,343	512,820	188,020	700,840
urface Dressing (Single)	H)	2 14000.0	594	552	8,316,000	7,728,000	16,044,000
urface Dressing (Double)	8	2 0.0	742	868	0	0	0
arth Drain		0.0	909	L19	0	0	0
arth Drain in Swamp (by machine)	a.	3 0.0	1,165	474	0	0	0
ipe Culvert DBOcm		0.0	43,874	51,386	0	0	0
asonry Culvert (80x80cm)	- 1 I	0.0	63,563	41,554	0	0	0
etaining Wall and Wing Wall (Timber)	A .		10,244	246	0	0	0
etaining Hall and Wing Hall (Hasonry)	8		47,464		0	0	0
abion Protection	1	-	15,591	120	0	0	0
ew Bridge (Timber)	<u>S</u> I		*		0	· • 0	. 0
lew Bridge (Concrete)	SE	[1.0	·		0	··· 0	0
$\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2}$			Sub Total		16,259,674	11,690,523	27,950,197
verhead (15%)					2,438,951	1,753,578	4,192,529
 A second sec second second sec			TOTAL COST		18,698,625	13,444,101	32,142,726
anual routine maintenance of road	K			7,248	594,736	28,992	
outine maintenance of asphalt road	K	a 4.0			1,465,200		2,002,400
			Sub lotal		2,059,936	566,192	
aintenance of fimber Bridge (Rew)		2 0.0	- 1 ,	1,121	0	0	. 0
aintenance of Concrete Bridge (New)		2 0.0		3,135	0	: 0	0
aintenance of Timber Bridge (Exist)		2 54.0	•	2,404	389,718	129,816	519,534
aintenance of Concrete Bridge (Exist)		2 0.0	3,966	2,471	0	• 0	0

			Earthwork &	Pavement U			8,035,682
• • •			Tinber		nit Cost (Rp/)		
			Concrete	Bridge Un	nlt Cost (Rp/)	2) :	
x			Survived	Value	(Rp) :	2,403,402
				Rate without	t Bridge (%)	:	8.17
			New Bridge	Cost Rate	(7)	1	

Appendix A-4

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

***************************************		*****	****				
ITEN	UNIT	(1988)	< 1989 >	(1990)	< 1991 >	< 1992 }	(TOTAL)
JIPHENT 1							
Bulldozer/Ripper	hr	259,3	462.9	684.2	816.2	762.2	2901.8
Swamp Buildozer	hr	0.0	19.6	31.1	0.0	47.9	78.6
Notor Grader	hr	794.6	674.1			1518.0	5641.5
lland-guide Vib. Roller	hr		{45.0	414.7		28.9	1108.8
Tire Roller	hr	266.6	819.9		599.9		2757,9
Vibratory Roller (DLT)	hr	647.1	491.8	802.3	1237.5		4305.6
Hydraulic Excavator; Wheel	hr	0.0	304.2	236.2		607.5	1147.9
Wheel Loader	hr .		956.8		1920.5	1700.5	6751.4
Water Tank Truck	hr	381.7	210.3		669.0	535,7	2701.2
Dump Truck	hr	6168.5	7918.7		15620.1	13348.3	
Flat Bed Truck with Crane			220.3		154.3	22.0	591.9
Flat Bed Truck	hr	320.0			771.2	658.6	
Portable Crusher/Screening		t08.0	172.3	148 0	771.C 705 A	270,3	1000.4
Concrete Mixer	hr	0.0	0.0	34.6		6.1	
Nater Puep	hr	0,0				5,4	
Concrete Vibrator	hr	0.0				4.2	
Asphalt Sprayer	hr	266.6	819.9		599,9		
OUR :		,			<i>u</i> ////	411+0	210111
Mandara -							
Nandur Skilled Labourer	man day	355.5	996.4	1258.8	1364.6	963.1	4938,4
	nan day	160.0	2665.7	1403.7	964.4	346.3	5541.1
Carpenter	ean day	0,0		474.0	268.6	1.4	1826,9
Hason Labourer	∎an day	0,0	0.0	28.8	28.8	3.2	8,08
	man day		8229.9		15015.8	9218.5	47003.9
Oriver Operator	wan day [:]	1203.0 658.3	1740.Y 898.7	2339.7	3059.8 1587.0	2564.1	10907.5 5865.1
operator	man uay	03013	670.7	1172.0	330710	1347+1	2003+1
ERIAL :							
Bitumen	1	54666,6	170850.5	110804,5	123649.9	111095.6	571067.1
Asphalt Oil	1	10933.3	33620.0	21730.0	24600.0	22208.3	113091.6
Kerosene	1	13066.6	40485.5	26209.3	29472.1	26547,6	135781.1
Sand	#3	160,0	542.9	452.8	466.9	348.0	1970.6
Ceaent	bag	0.0	0.0	265.9	265.9	63,7	595,5
River Stone	n3	0,0	0.0	28.8	28.8	3.2	60.8
Steel Houlds	set	0.0	0.0	102.0	102.0	25,0	229.0
linber	m3	0.0	130.2	52.5	23.8	0,0	206.5
Paint	1	0.0	247.9	[48,1	148.1	0.0	544.1
Reinforcing Steel	kg	0,0	0.0	3253.8	3253.8	797.5	7305.1
Tying Nire	kg	0.0	0.0	29,5	29.5	7,2	66.2
Equivalent Royalty	#3 #3	13044.9	10192.4	15952.1	24786.8	19926.7	83702.9

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

PROV : KALIMANTAN SELATAN KAB WARTAPIN

Contract I T E House				(1989)			< 1992 >	< 101AL >
			8 44 44 44 Fe 4 44 44 gr 44		ن نے _ح ی (10 m m m m m m m m m m m m m m m m m m m			
EDUIPHENI :							;	
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
Notor: Grader		hr .	236.5	471.1	470.3	470.4	543.0	2191.3
Hand-quide Vib. Rolle	r	hr	540.0	1055.2	1176.0	1256.2	1447.5	5474.9
Tire Roller		hr	236.5	471.1	470.3	470.4	543.0	2191.3
Vibratory Roller (D&T		hr	0.0	0.0	0.0	0.0	0.0	0.0
Hydraulic Excavator;		hr	0.0		0.0	0.0	0,0	0.0
Wheel Loader			1.0.0	205.0	217.7	229.2	281.0	· · · · · · · · · · · · · · · · · · ·
Hater Tank Truck		hr	0.0	0.0		0.0	0,0	0.0
Dump Truck	2		1683.6	3339.3		3886.7	4579.2	17145.7
Flat Bed Truck with C		hr	1319.2		2555.1	2863.2	2982.6	12244.3
				2612.5		2762.5	3171.1	12571.6
Portable Crusher/Scre		hr	51.3	104.5		116.9		526.8
Concrete Mixer		hr	0.2	0.2.	0.3	0.4	0.4	- 1.5
Näter Puop		hr.	0.2		0.3	0.4		
Concrete Vibrator		hr	0.2	0.2				1.5
Asphalt Sprayer			0.0			0.0		0.0
nspitare oprayer			0.0	V.U	. 0.0	0.0	0.0	0.0
LABOUR :								
Handur	R	an day	646.0	1271.4	1344.4	1410.B	1805.0	6277.6
Skilled Labourer		an day	710.2		1466.3			6971.7
Carpenter		an day	187.8		366.0		427.1	1781.9
Nason	· · · ·	an day	0.0		0.0		0.0	0.0
Labourer		an day.	7356.3	14479.3		15996.5	18344.8	71536.1
Oriver	. 8	an ɗay	782.0	1530.0	1604.4		1927.0	7561.2
Operator .		an day				234.3	275.7	1079.4
-		·				· ·		
4410141							·	
HATERIAL :								49274.9
IATERIAL : Ditunen		1	4860.0	9497.2	10584.0	11306.2	13027.5	1767 117
		1	4860.0 0.0		10584.0	11306.2 0.0	13027.5 0.0	0.0
Ditumen		•			0.0			
Bitumen Asphalt Oil .		1	0.0	0.0	0.0	0.0	0.0	0.0
Bitumen Asphalt Dil . ,Kerosene		1	0.0 540.0	0.0 1055.2	0.0	0.0 1256.2	0.0 1447.5	0.0 5474.9
Ditumen Asphalt Oil . , Kerosene Sand		1 1 83	0.0 540.0 90.2	0.0 1055.2 176.0	0.0 1176.0 (96.3 5.5	0.0 1256.2 209.7 6.5	0.0 1447.5 241.6 6.5	0.0 5474.9 913.8 25.9
Bitumen Asphalt Oil . , Kerosene Sand Cement		l 1 ø3 bag	0.0 540.0 90.2 3.2 0.0	0.0 1055.2 (76.0 4.2 0.0	0.0 1176.0 (96.3 5.5 0.0	0.0 1256.2 209.7	0.0 1447.5 241.6 6.5 0.0	0.0 5474.9 913.8 25.9 0.0
Bitumen Asphalt Oil . ,Kerosene Sand Cement River Stone		l n3 bag n3 set	0.0 540.0 70.2 3.2 0.0 0.0	0.0 1055.2 (76.0 4.2 0.0 0.0	0.0 1176.0 196.3 5.5 0.0 0.0	0.0 1256.2 209.7 6.5 0.0 0.0	0.0 1447.5 241.6 6.5 0.0 0.0	0.0 5474.9 913.8 25.9 0.0 0.0
Bitumen Asphalt Oil Kerosene Sand Cement River Stone Steel Houlds		l n3 bag n3	0.0 540.0 90.2 3.2 0.0 0.0 17.0	0.0 1055.2 (76.0 4.2 0.0 0.0 33.1	0.0 1176.0 (96.3 5.5 0.0 0.0 33.1	0.0 1256.2 209.7 6.5 0.0 0.0 39.5	0.0 1447.5 241.6 6.5 0.0 0.0 38.7	0.0 5474.9 913.8 25.9 0.0 0.0 161.4
Bitumen Asphalt Oil Kerosene Sand Cement River Stone Steel Houlds Timber Paint		l ø3 ø3 set ø3	0.0 540.0 90.2 3.2 0.0 0.0 17.0 121.3	0.0 1055.2 (76.0 4.2 0.0 0.0 33.1 235.9	0.0 1176.0 (96.3 5.5 0.0 0.0 33.1 236.4	0.0 1256.2 209.7 6.5 0.0 0.0 39.5 201.7	0.0 1447.5 241.6 6.5 0.0 0.0 38.7 275.9	0.0 5474.9 913.8 25.9 0.0 161.4 1151.2
Asphalt Oil . ,Kerosene Sand Cement River Stone Steel Houlds Timber		l nJ nJ set nJ	0.0 540.0 90.2 3.2 0.0 0.0 17.0	0.0 1055.2 (76.0 4.2 0.0 0.0 33.1	0.0 1176.0 (96.3 5.5 0.0 0.0 33.1	0.0 1256.2 209.7 6.5 0.0 0.0 39.5	0.0 1447.5 241.6 6.5 0.0 0.0 38.7	0.0 5474.9 913.8 25.9 0.0 0.0 161.4

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

· · ·

		والمشاوية فالمستركة					
ITEH	UNIT	< 1988 >	(1989)	(1990)		< 1992 >	< TOTAL >
UIPHENI :							
Bulldozer /Ripper	h	758 3	440.0				
Skamp Bulldozer	ħŗ 	259.3	462.9	684,2	818.2	767.2	798 4. 8
Notor Grader	hr hr	0.0	19.6	31.1	0.0	47.9	98,6
lland-quide Vib. Roller	hr t-	103].1	1145.2	1496.0	2099.5	2061.0	7032,0
Tire Roller	hr	540.0	1500.2	1570.7	1476.4	1476,4	6583.7
	hr hr	503.1	1291.0		1076.3	1084.6	4949.2
Vibratory Roller (D&T)	hr	647,1	491.8	802.3	1237.5	1126.9	4305.6
Hydraulic Excavator: Wheel	ħr Ŀ	0.0	304.2	236.2	0.0	607.5	1147.9
Wheel Loader Water Tank Truck	hr	898.5	1161.8	1593.4		1981.5	7784,9
	hr	301.7	210.3	404.5	669.0	535.7	2201.2
Duap Truck	hr	7852.1	11158.0	15389.6	19506.8	17927.5	71834.0
Flat Bed Truck with Crane	hr	1319.2	2744.5		3017.5	3004.6	12036,2
Flat Bed Truck	hr	1642.5	3614.0	3390.2	3533.7	3029.7	6010.1
Portable Crusher/Screening	hr	159.3	276.8	275,0	401.9	413.4	1527 2
Concrete Hixer	hr	0.2	0.2	34.9	35.0	6.5	76.8
Water Pump	hr	0.2	0.2	29.2	29.3	5.0	64.7
Concrete Vibrator	hr	0.2	0.2	17.7	17.8	4,6	40,5
Asphalt Sprayer	hr	266.6	819.9	529.9	599.9	541.6	2757,9
BOUR :		• et also est					
Kandur	man day	1001,3	2267.8	2603.2	2775.4	2568.1	11216+0
Skilled Labourer	nan day	870.2	4050.2	2870.0	2614,9	2107.5	12512.9
Carpenter	man day	187,8	1447.8	840.0	704.7	428,5	3608.8
Hason	aan day	0,0	0.0	28.8	28.8	3.2	60.8
Labourer	man day	10087.6	22709.2	29167.6	31012.3	27563.3	120540.0
Driver	man day	1985.0	3270.9	3944. L	4780.6	4491.1	18471,7
Operator	man day	77 1. 0	1124.9	1402.3	1821.3	1925.0	6944,5
TERIAL :							
Bitumen	1	59526.6	180347.7	121388.5	134956.1	124123.1	620342,0
Asphalt Oil	í	10933.3	33620.0	21730.0	24600.0	22208.3	113091.6
Kerosene	1	13606.6	41540.7	27385.3	30728,3	27995.1	141256.0
Sand	a3	250.2	718.9	649.1	676.6	589.6	2884,4
Ceaent	bag	3.2	4.2	271.4	272.4	70.2	621,4
River Stone	#3	0.0	0.0	28.9	28.8	3,2	60.8
Steel Houlds	set	0.0	0.0	102.0	102.0	25.0	229.0
Tinber	20. 23	17,0	163.3	85.6	63.3	38.7	367.9
Paint	-0	121.3	483.8	384.5	429.0	275.9	1695.3
Reinforcing Steel	kg	16.7	21.7	3202.2	3287.2	830.9	7438,7
Tying Wire	kg	0.1	0.1	29,7	29.8	7.5	67.2
Equivalent Royalty	a3	14471,7	13096.1	19036 1	28034.5	23906.8	98545,2

21-A-37

Appendix A-5

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

.

PROV : KALIMANT	FIIN 1.255-26-4	T E T F"H ¥	KAB	N	1 1000 Rp			
€	UNIT	< 1988 >	< 1989 >	(1990)	< 1991 >	< 1992 >	< TOTAL >	
EQUIPHENT :		74,313	102,851	135,480	181,021	167,173	660,830	
Bull Poozer / Ripper	15446	4,005	7,149	10,569	12,607	11,772	46,101	
	11326	. 0 :	221	352			1,115	
Hotor Grader	13198	10,487	8,894	13,537	21,500	20,034	74,454	
Hand-guide Vib. Roller	1529	0	680	634	336		1,694	
Tire Roller	10392	2.770	8,520	5.506	6,234	5,628	28,659	
Vibratory Roller (OLT)	6607	4,272	3,246	5,296	241 B			
Hydraulic Excavator; Hheel	12316	0	3,746	2.909	. 0	7.481	14.155	
Nheel Loader	1636B	13.060	13,000	26,011	31,434	27,833	110,504	
Water Tank Truck	3776	1,441	794	1.527	2.526	2,022	8,310	
Dump Truck	5209	32,131		61.115	81.365	69.531	284,869	
Flat Bed Truck with Crane	1960	0	1,070	949	749	105	2.871	
Flat Bed Truck	3161	1,011	3,165	2,172	749 2,437 12,157	2,08i	10,966	
Portable Crusher/Screening	42658	4,607	7,349	7,030	12,157	11,530	42,673	
Concrete Hixer	B630	· 0	. O	298			648	
Water Pump	459	0	0		13	2	28	
Concrete Vibrator	294	0	0	`.	5	1	11	
Asphalt Sprayer	1986	529	1,628	1,052	1,191	1,075	5,475	
ABOUR :		13,170	38,449	48,241	53,027	36,093	188,980	
Handur	3000	1,066	2,989	3,776	4,093	2,899	14,813	
Skilled Labourer '	2500	400		3,509	2,411		13,951	
Carpenter	3250	· • 0	3,519	1,540	872	. 4	5,935	
Hason	3250	0	0	93	93	10		
Labourer	2000	5,462	16,459	27,616	30,031	18,437	98,005	
Driver	3000	3,609	5,222	7,019	9,179	7,692	32,721	
Oper ator •	4000	2,633	3,594	7,019	6,348	6,196	23,459	
IATERIAL :		29,933	96,664	69,550	74,803	60,634	330,664	
8itunen -	275	15,033		30,471	34,003	30,551	157,041	
Asphalt Oil	700	7,653	23,534	15,211	17,220	15,515	79,163	
Keròsene	250 ·	3,266	10,121	6,552	7,368	6,636	33,943	
Sand	4500	720	2,443	2,037	2,101	1,566	8,867	
Cerent	5000	0	0	L ₁ 329	1,329	318	2,976	
River Stone	10000	· Q	0.	208	288	32	803	
Steel Houlds	8000	0	0	816	816	200	1,832	
Tinber	80000	0	10,416	4,200	1,904	0	16,520	
Paint	2500	• 0	619	370	370	0	1,359	
Reinforcing Steel	1000	0	0	3,253	3,253	797	7,303	
Tying Nire	1200	. 0	0	35	35	8	78	
Equivalent Royalty	250	3,261	2,548	3,988	6,196	4,981	20,974	

21-A-38

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

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		****		***		(1000 Rp)			
ITEN	UNIT	(1988)	< 1989 >	(1990)	< 1991 >	{ 1992 >	(101AL)		
NUIPHENT :		47,217	97,082	99,347	104,299	0	347+945		
Bulldazer/Ripper	16224	0	0	. 0	0	0	0		
Swamp Bulldozer	11917	0	0	Ó	0	0	ů		
Hotor Grader	13810	7,226	14,424	13,492	13,706	ů 0	48,848		
Hand-guide Vib. Roller	1574	318	779	1,204	1,440	0	3,741		
Tire Roller	11208	5,865	11,706	10,950	11,123	Ő	39,644		
Vibratory Roller (D&T)	6879	. 0	0	0	0	0	0 0		
Hydraulic Excavator; Wheel	13051	0	Ó	Ō	Ő	Õ	0		
Wheel Loader	16964	3,087	6,281	6,341	6,836	0	-		
Water Tank Truck	4106	0	0	0	01000	0	22,545 0		
Dump Truck	5569	8,339	17,887	21,010	23,652	0	χ0,88β		
Flat Bed Truck with Crane	5190	10,981		23,198	23,155	•			
Flat Bed Truck	3491	7,325	14,873	14,742	15,320	0	80,159		
Portable Crusher/Screening	44642	4,075	8,303	8,406	9,066	0	52,260		
Concrete Nixer	8675	.,	4	4	11700	0	27,850		
Nater Pump	489	• 0	0	0	0		10		
Concrete Vibrator	324	ő	ŏ	0	, V A	Q	· •		
Asphalt Sprayer	2031	0	Ö	0	0	0 0	0		
BUVR :		22,504	46,795	491585	52,669	0	171,552		
Handur	2000	1,575	3,268	3,453	3,672	0	11,968		
Skilled Labourer	2250	1,580	3,400	3,850	4,114	0	12,944		
Carpenter	2500	761	1,584	1,611	1,635	Û	5,591		
Nason	2500	0	0	0	0	0	. 0		
Labour er	1750	15,256	31,666	33,601	35,869	0	116,392		
Driver	2500	2,627	5,461	5,717	5,981	0	19,786		
Operator	3000	705	1,416	1,353	L;397	0	4,871		
TERIAL :		4,203	9,094	10,583	11,503	Û	35,383		
Bituaen	450	820	2,004	3,098	3,705	0	9,621		
Asphalt Dil	800	0	0	0	0	0	0		
Kerosene	250	50	123	191	220	0	592		
Sand	5000	169	415	640	763	0	1,987		
Cement	4350	17	35	35	17	0	104		
River Stone	7750	0	0	0	0	0	Q		
Steel Houlds	8000	0	0	0	0	0	0		
Tisber	75000	2,070	4,305	4,380	4,455	0	15,210		
Paint	2100	413	860	874	888	0	3,035		
Reinforcing Steel	1000	20	41	41	20	Q	122		
Tying Wire	1200	0	0	0	0	0	0		
Equivalent Royalty	250	644	1,311	1,324	1,427	0	4,705		

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

ана ца 1 				and the second		and the second		
		UNIT	< 1988 X	(1989)) (1990)	(1991)	< 1992 >	< TOTAL >
						***********	*********	
OUTPHENT	А,		103,911	161,308	196,601	245,669	241,271	748,840
Bulldozer/Ripper		15446	4,005	7,149			11,772	46,101
Swamp Bulldozer		11326			. 352			1,115
Hotor Grader		13198	13,608	15,113	17,744	27,708	27,200	103,373
Hand-guide Vib. Roller		1529	825	2,293	2,432	2,256	2,257	10,063
fire Roller		10392	5,227	13,415	10,393	11,122	11,270	51,427
Vibratory Roller (D&T)			4,272	3,246	5,295	8,169	7.439	28,422
Hydraulic Excavator; Wh						0		
Wheel Loader	÷	16368	14.706	19.015	26.080	35,185	32.432	127.418
Water Tank Truck		3776	1.441	794	1.527	2.526	2.022	8.310
Dump Jruck		5209	40.900	58.121	80.163	101.610	93.384	374 178
Flat Bed Truck with Cra	ine	4860	6.411	13.337	13.366	14.664	14.601	62.379
Flat Bed Truck		3161	5_101	41.473	10,000	2,526 101,610 14,664 11,169 17,143	17.104	50.603
Portable Crusher/Screen	inn	47459	1.705	11.804	11.745	17-147	17.634	65.143
Concrete Nixer	s ng	8630	1	11,000	2 II,700 700	301	55	101110
Hater Punp		459	. 0	0	13		2	28
Concrete Vibrator		294			5	. 5		
Asphalt Sprayer	÷			1 420	1 147	1,191		
uzhnare ohrañsi		(700	171	1,820	1,002	្រ ពួរព	5,073	9419
ABDUR 1. ; ; ;			35,001	81,358	93,580	100,894	90,272	401,105
Nandur		3000				8,325		
Skilled Labourer		2500	2,175	10,124	7,174	6,537	5,268	
Carpenter	÷ .	3250	610	4,704	2,729	2,289	1,392	11,724
Hason		3250				93		195
Labourer	÷.,	2000	20,174	45,417	58,334	62,024	55,126	241,075
Driver		3000	5,955	9,812	11,832	14,341	13,473	55,413
Operator		4000				7,285		
ATERIAL 'I			33,860	104,334	76,702	83,989	70,509	369,394
Bitumen	. 1	275	16.369	49.594	33,381	37.117	34,133	170,589
Asphalt Oil		700	7.453	23.534	15.711	17,220	15.545	79,163
Kerosene			3,401	10.384	6 . R4A	7,682	6.997	
Sand	-	4500	•			3,044		12,977
Cenent		5000			1,356			3,104
River Stone		10000			288		32	608
Steel Noulds		8000	. 0	_		816	200	1,932
Timber:		80000	1,360		6,848		3,096	29,432
Paint		2500			961		-	4,235
	1	1000					689 870	
tying Wire					•		9 30	7,434
Equivalent Royalty		1200 250		3,273		35 7,007	8 5,976	78 24,632

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Appendix A-6

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PROV

KALIMANTAN BELATAN

KAB TAPIN

INK ND	BRIDGE NAME	Ka	Free	(TYPE (Exist)	E >> IXEW)	DESIGN Lond	span Class	LENGTH			NIDTH	AREA (EXIST)	AREA (NEW)	PIER	ABUT	ROAD
			******					- {a}	(na)	(a)		(#2)	(a2)	(na)	(na)	
26	KBG KUNING I	1	KKNG	KK		· !		4.00	1	4.00	4.00	16.00		A	277	1116
	KBB KUNING 2		KKNG	KK				3.00	1	3,00		12.00		Ŏ	2	
27	SALAK		PLTA	KK			4	5.00	1	5.00	4.00	20.00	P4609404	۰۰۰۰۹ ۵	 2	111B-2
	SALAK	1	PLTA	KK				26.00	5	5.20	4.00	104.00		4	2	**** •
	RANGDA	2	PLTA	. KK				2.00	5	0.40		8.00		i	2	
	TARANTANG	3	PLTA	KK				13.00	3	4.33		52.00		2	2	
28	TATAKAN	l	TTKN	KK				5.50	1	5,50	4,00	22.00		0	 ? ?	1110
31	N. I	2	KRTU	KK				6.00	2	3.00	4.00	24.00	******	······	2	111B-
	N. I	5	KRTU	KK				6.00	2	3.00	4.00	24.00		Ť	2	11
	BAGAT		KRTU	KK				13.00	3	4,33	4.00	52.00		2	2	
37	KUJANG		PRDK	KK	* 17 \$2 14 14	******		8.00	2	4.00	4.00	32.00	*******	 1	2	1110
	PARANDAKAN I	4	PROK	KK				6.00	2	3.00	4,00	24.00		1	2	,
	PARANDAKAN II	4	PROK	KK				6.00	2	3.00	4.00	24.00		1	2	
	BERAHBAN	10	PRDK	KK		,		9.00	2	4.50	4.00	36.00	:	į,	2	
44	TAPIN	240	GDB	KK	TN	lot	(C)	22.50	3	7,50	4.00	45.00	90.00	2	2	1118-
50	PADANG SARI	5	PPNG	KK				5.00	2	2.50	4,00	20.00		1	2	1110
53	SUNGAI TAPIN	0	BAXP	KK	TH	107	{C}	28.00		7.00	4.00	56.00	112.00	3	2	1110

21-A-41

PROV

: KALIMANTAN SELATAN

KAB : TAFIN

INK No	BRIDGE NAME	Ke	From	((TYPE) (EXIST) (NE		CLASS		NO	SPAN LENGTH (m)		AREA (EXIST) (#2)	(NEW)	PIER (no)	ABUT (no)	CLASS
1	KALUTANG		TNOR	KK			4.00		4.00	4.00	16.00	~ ~ ~ ~ ~ ~ ~ ~	0	2	111B-1
	LANAHAN	4	TNBR	KK			8.50	2	4.25	4.00	34.00		1	2	
• • •	N.1	. B.	THUR	KK			4.00	1 L	4.00	4.00	16.00		0	2	· · ·
	Н. 1	10	TN8R	kκ.			4.00	2	2.00	4.00	16.00	. 1	1	2	
	N 1	11	TNDR	KK	•		4.00	1 I	4.00	4.00	16.00		0	2	
			2	<u></u>		. <u>.</u>							***		
2.	SINBAR	1	SNDR	KK			7.00	2	3.50	4.00	28.00		1	2	1110
	SINBAR	2	SHBR	KK			3.00	1	3.00	4.00	12.00		0	. 2	
• *	PARIGI	2	SMBR	KK		- -	3.00	1	3.00	4.00	12.00		0	2	
3	PHT TUNGKAP	1	BKGN	KK			4.00	. 1	4.00	4.00	16.00		0	2	1118-1
	PEHATANG	I	BKGN	KK (3.50	1	3.50	4.00	14.00		0	2	
	PAUL -		BKGN	KK			6.00	1	6.00	4.00	24.00		· . 0	2	
12 .	TATASURA	2	 TX96	KK			4.00	 1	4.00	4.00	16.00		0	2	1110-2
	PINANG BABARIS		THBG	KK			6.50	2	3.25	4.00	26.00		1	2	ہ ایک کے ا
18	HARAPAN MASA	 i	HASA	KK			7.00	3	3.00	4.00	36.00		2	2	1118-
••	DURALT		HASA	 КК	• •		11.00	· 1	11.00	4.00	44.00		0	2	
	`N. I		HASA	KK			3.00	۰ ۱	3.00	3.00	9.00	· .	0	2	
	SALAN BBRS	 k	TNBR ¹	KK	*******		5.00	2	2.50	5.00	25.00			2	1118-
	SALAN BBRS2		THER	KK			4.00	2	2.00	5.00	20,00		i	2	
	•		THUR	^E KK			5.00	··· 2	2.50	5.00	25.00		1	2	
- 1 -	PANTAL CABE		THER	KK			3.50	ī	3.50	5.00	17.50		Ó	2	
	SUATO 1		TNBR	KK			5.00	2	2.50	5.00	25.00		1	2	
	SUATO 2		TNBR	KK			6.00	2	3.00	5.00	30.00		1	2	
	SUATO 3		THBR	KK			6.00	2	3.00	5.00	30.00		1	2	
	SUATO 4		TNBR	KK			4.00	i	4.00	5.00	20.00		G	2	
	SUATO 5		THBR	KK			8.00	2	4.00	5.00			1	2	
	KBG HADANG 1		TNBR	KK			5.00	1	6.00	4.50	27.00		Ó	2	
	KBG HABANG 2		TMBR	KK			8.00	i	8.00	4.50	36.00		0	2	
	KBG HABANG 3		THOR	KK			4.00	i	4.00	4.00	16.00		0	2	
	BATU HAPU		TMBR	KK	٠		10.00	3	3.33	4.00	40.00		2	2	•
	ANAK BT HAPU		THDR	KK			5.00	1	5,00	4.00	20.00		. 0	2	
	DURIAN JOH I		THBR	KK			5.00	1	5.00	4.00	20,00		0	2	
	DURIAN J6H 2	23	THBR	KK			4.00	1	4.00	4.00	16.00		0	. 2	
	DURIAN JOH 3		THBR	KK			4.00	1	4.00	4.00	16.00		0	2	
24	IRIGRASI	 1	BNG	 KB			3.90	i	3.90	3.40	13.26		0	2	IIIB-
	TRANSAD	3	BNG	KK			3.00	1	3.00	4.00	12.00		0	2	
	PATUAKAN 1	3	BNG	KK			14.00	4	3.50	4.00	56.00		3	2	
	PATUAKAN 2	4	BNG	KK			5.00	· }	5.00	4.00	20.00		0	2	
	PATUAKAN 3	5	BNG	RB			27.00	2	13,50	4.00	108.00		i	2	
	BUNGUR	6	BNG	KK			4.00	2	2.00	4.00	16.00		i	2	
	KMB KUNING 1	7	BNG	KK			6.00	2	3.00	4.00	21.00		1	2	
	KMB KUNING 2	8	BNG	KK			6.00	2	3.00	4,00	24.00		1	2	
	Sahah	11	BNG	KK			6.00	2	3.00	4.00	24.00		1	2	
	HATUNGUN	11	BNG	KK			8.00	2	4.00	4.00	32.00		1.	2	
25	BUMBUN I	1	BBUN	ĸĸ			7.00	3	2.33	4.00	28.00		2	2	1118-1
	8UNBUN 2	2	89UH	KK (6.00	3	2.00	4.00	24.00		2	2	

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

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FRDV : KALINA	NTAN	SELAT	AN KA	AB : T	AFIN		
LINK NO : 1 (II	10-1)	• •	LENGTH	÷			
				ı .			{ Rp
I T E 8	UNIT	DUVNIIIA	<<< UNIT LOCAL	COST >>> Foreign	\\\\\ Local	CQST Fore Ign	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Superstructure (Timber;Span 3m;101)	82	0.00	10 011	7 541			,
Superstructure (limber;Span Sm;101)	a2		39,013	3,541	0	0	
Superstructure (Timber;Span BarloT)		0.00	43,213	3,910	0	0	
Superstructure (Timber;Span 3m;BHSO)	4Ž	0.00	57,235	5,136	0	Ô	
	82	0.00	48,375	4,378	0	0	
Superstructure (Timber; Span 5m; BM50) Superstructure (Timber; Span 8m; BM50)	•2	0.00	52,010	4,745	0	0	
Superstructure (Timber; Span Bm; 8H30)	#2	0.00	66,977	6,006	Û	0	
Superstructure (Concrete; Span 3m; BM50)	e2	0.00	46,053	107,965	- 0	0	
Superstructure (Concrete;Span 5m;BNSO)	#2	0.00	47,428	120,694	0	0	
Superstructure (Concrete;Span 8a;BH50)	a2	0.00	18,951	131,491	Û	0	
Superstructure (Concrete; Spanion; 8850)	=2	0,00	53,850	149,376	0	0	
Superstructure (Concrete;Span15a;BM50)	62	0,00	59,035	176,007	Ö	0	
Substructure (Pier;for Timber;10T)	NO	0.00	339,916	32,859	0	0	
Substructure (Abut; for Timber; 101)	NO	0.00	964,092	151,362	· Q	Q	
Substructure (Pier;for Timber;BH30)	HO	0,00	499,927	48,627	0	0	
Substructure (Abut;for Timber;BH50)	朷	0 ,00	1,084,991	171,532	¢	0	
Substructure (Pier;for Concrete;8850)	NO	0.00		477,161	.0	0	
Substructure (Abut; for Concrete; 8450)	KO	0,00	3,755,081	999,497	0	0	
Demolition of Bridge (Timber->Timber}	e2	0.00	11,007	1,373	0	0	
Demolition of Bridge (limber-)Concrete)	₽ 2	0.00	11,009	1,573	٥	0	
Demolition of Bridge (Concrete)	•2	0.00	83,389	B1,377	Ŷ	0	
Haintenance of Timber Bridge (New)	82	0.00	7,203	1,121	0	0	
Haintenance of Concrete Bridge (New)	a2	0.00	1,752	3,135	0	0	
Maintenance of Timber Bridge (Exist)	#2	98.00		2,404	707,266	235 ,5 92	942,8
Haintenance of Concrete Bridge (Exist)	a?	0.00	3,966	2,471	0	0	
{ Without Overhead }	1	OTAL COST	(Timber Bridg	e)	0	0	207224 4
			(Concrete Bri		Q	, Q	
	1	IOTAL COST	(without Main	-	0	0	
	*******				,# 8 11 10 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17		********
(Overhead : 15%)	T	OTAL COST	tTieber Bridg	e)	0	0	
		.0.1	(Concrete Bri		0	0	
	T	OTAL COST	(without Main		0	0	

e

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PROV : KALIMANTAN SELATAN KAB : TAPIN

· · · · ·

LINK NO : 2 (IIIC) LENGTH : 4 Km

	Ro	

			1.		 		(Rp)
in the second	UNIT	QUANTETY	KKK UNIT LOCAL	COST >>> Foreign	<<<<<	COST Foreign	>>>>>> total
					*****	****	
Superstructure (Timber;Span 3m;101)	82	0.00	39,013	3,511	0	0	
uperstructure (Himber;Span 5m;101)		0.00		3,910		0	. 0
uperstructure (limber;Span Bm;101)	52	0.00	57,235	5,136	0	0	
uperstructure (Timber;Span 3m;BH50)	a2	0.00	48,375	4,378	0	0	
uperstructure (Timber;Span 5m;BNSO)	•2	0.00		4,745	0	· 0	. S
uperstructure (limber;Span Bm;BN50)	•2	0.00		6,006	٥	0	
Auperstructure (Concrete;Span 3m;BNSO)	#2	0.00		107,965	0	0	
uperstructure (Concrete;Span 5a;BH50)	. p2	0.00		120,694	0	0	·
Superstructure (Concrete;Span Ba;BHSO)	#2	0.00		131,491	0	0	i
Superstructure (Concrete;Spanion;BH50)	#2	0.00		149,376	0	0	1
Superstructure (Concrete;SpantSe;BHSO)	2	0.00	58,035	176,007	0	0	4
ubstructure (Pier;for Timber;101)	NO	0.00	339,916	32,059	0	0	
ubstructure (Abut;for Timber;10T)	NO		964 092	154,362	0	0	
ubstructure (Pier; for Timber; BN50)	, NO	0.00		40,627	. 0	0	
ubstructure (Abut;for Timber;BN50)	NO	0.00	1,084,991	171,532		Ō	
ubstructure (Pier;for Concrete;BN50)	NO	0.00	1,821,504	477,161	0	0	
Substructure (Abut;for Concrete;BN50)	NO	0.00	3,755,081	999,497	0	. 0	
emolition of Bridge (Timber-)Timber)	#2	0.00		1,373	0	0	
emolition of Bridge (Timber~)Concrete)	#2	0.00	11,009	1,373	0	0	
emolition of Bridge (Concrete)	#2	0.00	83, 389	81,377	0	0	
windowners of timber Oridon (New)		0.00	7,203	1,121	0	. 0	
laintenance of Timber Bridge (New)	= = 2 = 2		1,752	3,135	0	. 0	
laintenance of Concrete Bridge (New) laintenance of Timber Bridge (Exist)	#2 #2			2,404	375,284	125,008	500.29
					3/J1201	123,000	200,11
aintenance of Concrete Bridge (Exist)	B2	9.09	3,966	2,471	v	. V	
t Without Overhead)	T	OTAL COST	(Timber Bridg		0	0	
٠		1	(Concrete Bri	dge)	0	0	
	ĩ	DTAL COST	(without Hair	tenance)	0	0	:
(Overhead : 15%)	т	0141 6081	(Tisher Dride		. 0	. 0	
(UYERNEAU : IJA)	ſ	UNE COST	(Timber Bridg		. v	0	
	,	0741 0007	(Concrete Bri (without Hair		· •	0	
		BIRE CUSE	WITHOUT NALS	rrenancei	v	v	

PROV : KALIMANTAN SELATAN KAB ; TAFIN

LINK ND : 3 (IIIB-1) LENGTH : 4 Km

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1 T E H	UNIT	QUANTITY	CCC UNIT	COST >>> Foreign	/////	COST Fore16x	>>>>>> 1014
Superstructure (Timber;Span 3m;101)	N 2	0.00	70.017			*********	*****
Superstructure (Timber;Span 5m;101)	a2		39,013	3,541	0	0	
Superstructure (Timber;Span Ba;10T)	82	0.00 0.00	43,213	3,910	0	0	
Superstructure (Timber;Span Jm;BH50)	a2	0.00	57,235	5,136	0	0	
Superstructure (Timber;Span 5m;BN50)	#2 #2	0.00	40,375	4,378	Q	0	
Superstructure (Tisber;Span Ba;BN50)	=/ =2		52,810	4,745	0	Q	
Superstructure (Concrete;Span 3m;BN50)	•4 #2	0.00	66,977	6,006	0	0	
Superstructure (Concrete;Span Sm;BX50)		0,00		107,965	0	Û	
Superstructure (Concrete;Span 8#;BHSO)	a2 - 7	0.00	47,428	20,694	0	0	
Superstructure (Concrete;Spaniom;BNSO)	e2	0,00	48,954	131,491	0	0	
Superstructure (Concrete;Spanion;Bh30)	#2 • 2	0.00	53,650	149,376	0	0	
	#2	0.00	\$8,035	176,007	0	Q	
Substructure (Pier; for Timber; 107)	NO.		339,916	32,859	0	0	
Substructure. (Abut; for Timber; 101)	NO	0.00		154,362	Q	0	
Substructure (Pier;for Timber;BN50)	M	0.00	499,927	48,627	0	0	
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,084,991	171,532	0	0	
Substructure (Pier;for Concrete;BMSO)	NO	0,00	1,821,504	477,161	C	0	
Substructure (Abut;for Concrete;BNSO)	NO .	0.00	3,755,081	999,497	0	0	
emolition of Bridge (Timber-)Timber)	#2	0,00	11,009	1,373	0	0	
Penolition of Bridge (Timber-)Concrete)	57			1,373	0	0	
lemolition of Bridge (Concrete)	· #2	0.00	83,389	B1,377	Q	0	
laintenance of Timber Bridge (New)	∎2	0.00	7,203	1,121	0	0	
laintenance of Concrete Bridge (New)	#2	0,00	1,752	3,135	0	0	
laintenance of Timber Bridge (Exist)	#2	54,00	7,217		309,718	129,816	519,5
laintenance of Concrete Bridge (Exist)	e2	0,00	3,966	2,471	Û	0	•
(Without Overhead)	******	NTAL ENGT	(Tieber Bridg		0	<i></i> ,,	
t nethode Grennedd (,	- 1114 DUBI	(Concrete Bri		ŏ	ů	
	1	otal, çost	(without Mair		Õ	0	
(Overhead : 15%)	*******	ntal cost	(Tieber Bridg				
i Overnedu i 104 /	•	orns evel	(Concrete Bri		õ	۲ Ó	
	. 1	DTAL COST	(without Hain		Ŷ	0 [°]	

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PROV : KALIMANTAN BELATAN KAB : TAPIN

LINK ND : 12 (IIIB-2) LENGTH : 4 Km

							{ Rp
ITEN		- -	UNIT	COST >>>		COST	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
· · · · · · · · · · · · · · · · · · ·	UNIT	QUANTITY	LOCAL	FOREIGN	LOCAL	FOREIGN	TOTA
	· .			· · · · ·			
uperstructure (Timber;Span 3m;101)	-2	0.00	39,013	3,541	0	0	•
uperstructure (Timber;Span 5#;101)	#2	0.00	43,213	3,910	. 0.	0	•
uperstructure (Timber;Span 8m;101)	•2	0.00		-5,136	. 0	0	
uperstructure (Timber;Span 3m;BN50)	#2	0.00	48,375	4,370	0	0	
uperstructure (Timber;Span S#;BNSO)	#2	0.00		4,745	0	0	
uperstructure (Timber;Span 8m;8H50)	#2	0.00		6,006	. 0	0	
uperstructure (Concrete;Span 3ø;BH50)		· · · · · ·		107,965	, Q.	0	
operstructure (Concrete;Span Sa;BNSO)	#2 [°]	0.00	47,428	120,694	. 0	0	
uperstructure (Concrete;Span Bm;BH50)	#2	0.00	40,954	131,491	0	0	
uperstructure (Concrete;SpanlOm;BN50)	ø2	0.00	53,650	149,376	0	0	1997 - 19
uperstructure (Concrete;Span15±;DHSO)	. e2	0.00		176,007		·	
ubstructure (Pier;for Timber;10T)	NO	0.00	339,916	32,859	0	0	
ubstructure (Abut;for Timber;10T)	NO	0.00	954,092	154,362	0	0	
ubstructure (Pier;for Timber;BNSO)	NO	0.00	499,927	49,627	0	0	
ubstructure (Abut;for Timber;BNSO)	NO	0.00	1,084,991	171,532	0	÷Ð	
ubstructure (Pier;for Concrete;8850)	NQ	0.00	1,821,504	477,161	. 0	0	
ibstructure (Abut;for Concrete;8H50)	NO	0.00	3,755,081	999,497		· Q	
emolition of Bridge (Timber->Timber)	e2	0.00	11,007	1,373	0	. 0	
emolition of Bridge (Timber-)Concrete)	#2	0.00	11,009	1,373	0	. 0	
emolition of Bridge (Concrete)	a 2	0.00	83,389	Bi,377	0	0	۰.
aintenance of Timber Bridge (New)	a2	0.00	7,203	1,121	0	. 0	
sintenance of Concrete Bridge (New)	•2	0.00	1,752	3,135	.0	0	
aintenance of Timber Bridge (Exist)	n2	42.00	7,217	2,404	303,114	100,968	404,08
aintenance of Concrete Bridge (Exist)	· a2	0.00	3,966	2,471	, Q	0	
(Without Overhead)	 T	OTAL CUST	(Timber Bridg	ie)		0	
	•		(Concrete Bri		0	0 0	
	I		Without Main		0	0	
(Overhead : 15%)	T	OTAL COST	(Timber Bride		0	0	
			(Concrete Bri		0	0	
	т	DYAL COST	Iwithout Hair	tessoral	0	0	

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PROV		KALIMANTAN SELATAN	KAB	ŧ	TAPIN
LINK NO	t	10 (TTID-1)	LENGTH	:	14 K.m

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J T E N	UNIT	QUANTLIY	<<< UNIT Local	COST >>> Foreign	\\\\\ Local	COST FOREIGN	>>>>>> TOTA
			*************			*********	*********
Superstructure (Timber;Span 3m;10T)	R2	0.00	39,013	3,541	0	٥	
Superstructure (Timber;Span 5#;101)	#2	0.00	43,213	3,910	0	Q Q	
Superstructure (Timber;Span Bm;101)	#2	0.00	57,235	5.136	v	v D	
uperstructure (Timber;Span 3m;BN50)	n 2	0.00	4B,375	4,378	v	0	
operstructure (Timber;Span 5m;BMSO)	•2	0.00	52,810		۰ ۸	0	
uperstructure (Timber;Span 8m;SH50)	#2	0.00	66,977	6,006	0	р р	
uperstructure (Concrete;Span 3a;BN50)	a2	0.00	46,053	107,965	Ŷ		
Superstructure (Concrete;Span 5m;BN50)	a2	0.00	47,428	120.674	. 0	0 0	
Superstructure (Concrete;Span Ba;BN50)	#2	0.00	48,954	131 491	۰.v	· · · · · · · · · · · · · · · · · · ·	
Superstructure (Concrete;Span10a;8H50)	#2	0,00	53,650	149,376	4	ι	
Superstructure (Concrete;Span15#;BN50)	#2	0.00	58,035	176,007	V 0	پ	
Substructure (Pier;for Timber;101)	NO	0.00	339,916	32,859	0	Ŭ Û	
Substructure (Abut;for Timber;101)	NO		961,092	154,362	v 0	0	
ubstructure (Pier;for Timber;BH50)	NO	0.00	499,927	48,627	. 0	0	
ubstructure (Abut;for Timber;BN50)	KO	0.00	1.081,991	171,532	Ň	. 0	
ubstructure (Pier; for Concrete; BN50)	HO	0.00	1,821,504	477,161	0	. y	
Substructure (Abut;for Concrete;BN50)	ND	0,00	3,755,001	999 497	Ŷ	0	
emolition of Bridge (Timber-)Timber)	a2	0,00	11,009	1,373	۰ ۸	ò	
emolition of Bridge (Timber-)Concrete)	82	0.00	11,009	1,373	۰ ۸	ň	
lemolition of Bridge (Concrete)	#2	0,00	83,399	B1 377	õ	Ŏ	
laintenance of Timber Bridge (New)	#2	0,00	7,203	1,121	0	0	
aintenance of Concrete Bridge (Hew)	•2	0.00	1,752	3,135	0	0	
aintenance of Timber Bridge (Exist)	-2	89.00	7,217	2,404	642,313	213,956	856,74
laintenance of Concrete Bridge (Exist)	a2	0,00	•	2,471	0	0	
(Without Overhead)	*********	•	(Tiaber Bridg		-r ^		
, AFFUGAL GIGINEAA 1	I	onne opat	(Concrete Bri		0	ń	
	ī	OTAL COST	(without Main		ŏ	ò	
	•Fa-44		·····	······································	***********	***********	
(Overhead : 15%)	ī	OTAL COST	(Tinber Bridg	e)	0	0	
			(Concrete Bri	dge)	0	0	
	I	NTAL COST	(without Main		Û	0	

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FROV : KALIMANTAN SELATAN KAB : TAPIN

LINK ND : 20 \times (IIIB-1) LENGTH : 24 Km

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		,					(Rp)
THEN, THE REAL PROVIDENT	UNIT	DUANTITY	CCC UNIT	COST >>> Foreign	>>>>>> Local	COST Foreign	>>>>> Total
Superstructure (Timber;Span 3m;101)	#2	0.00	39,013	3,541		Ó	
Superstructure (Timber;Span 5m;101)	e2	0.00	43,213	3,910	Ô	0	i i i
Superstructure (Timber;Span 80;101)	'a2	0.00	57,235	5,136	Ô	0	
Superstructure (Timber;Span Jm;BH50)	•2	0.00	46,375	4,378	. 0	ō	Ċ
Superstructure (Timber;Span 54;BN50)	• •2	0.00	52,810	4,745	0		· · · ·
Superstructure (Timber;Span 8m;BN50)	a2	0.00	66,977	6,005	0	0	í
Superstructure (Concrete;Span 3#;BN50)	. #2	0.00		107,965	0	0	í
Superstructure (Concrete;Span 5#;BNSO)	2	0.00	47,428	120,694	0	0	
Superstructure (Concrete;Span 8a;BHSO)	· s2	0.00	48,954		0	Ő	· (
Superstructure (Concrete;Spanio#;BM50)	n 2	0.00	53,650	149,376	0	0	
Superstructure (Concrete;Span13+;BH50)	e2		58,035	176;007		0	. 4
Substructure (Pier;for Timber;10T)	NO		339,916	32,859	0	0	
Substructure (Abut;for Timber;101)	'NO	0.00	964,092	154,362	0	0	
Substructure (Pier;for Timber;BN50)	NO	0.00	499,927	48,627	ů	. 0	
Substructure (Abut;for Timber;BN50)	. KO	0.00	1,084,991		Q	ō	
Substructure (Pier; for Concrete; 8850)	NO	0.00	1,821,504	477,161	0	.0	
Substructure (Abût;for Concrete;8850)	NO	0.00	3,755,081	999,497	ů	ů.	
Deadlition of Bridge (Timber-)Timber)	é2	0.00	11,007	1,373	0	0	
Desolition of Bridge (Timber-)Concrete)	2	0.00	11,009	1,373	0	0	
Demolition of Bridge (Concrete)	s2	0.00	83,389	81,377	0	ů.	
Naintenance of Timber Bridge (Hew)	#2	0.00	7,203	1,121	0	0	
Maintenance of Concrete Bridge (New)	2		1,752	3,135	0	0	i. i (
Maintenance of Timber Bridge (Exist)	62		•	2,404	3,056,399	1,018,074	4,074,49
Maintenance of Concrete Bridge (Exist)	a2	0.00		2,471	0	0	

(Without Overhead)	T		(Timber Bride		0	0	
	-		(Concrete Bri		- 0	0	4
		BIAL CUST	(without Hain	tenancel	0	0	
(Overhead : 15%)	1		(Tinber Bridg		0	0	. (
	-		(Concrete Bri		0	0	
-	1	otal cost	(without Hair	itenance)	0	. 0	

21-A-48

FROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 24 (IIIB-1) LENGTH : 13 Km

ITEM						*****		********
		UNIT	QUANTETY	LOCAL	COST >>> Foreign	›››››› LOCAL	CÓST Fore I GN	>>>>>> tota
unerstructure	(limber;Span J#;101)	#2	0.00	70 4+7			***42 \$*****	*****
	(Timber; Span 5m; 10T)	a2	0.00	39,013	3,541	0	Õ	
	(limber;Span Bm;107)	#2	0,00	43,213	3,910	. 0	0	
	(Timber;Span 3m;BK50)	#2	0.00	57,235	5,136	0	0	
	(Timber;Span Sm;BH50)	a2	0.00	48,375	4,378	0.	0	
	{limber;Span 8m;BHSO}	a2	0.00	52,810	4,745	0	0	
	(Concrete; Span 3#; BM50)	#Z		66,977	6,006	0	0	
	(Concrete; Span 5a; BHSO)	≌z ≊2	0.00	46,053	107,965	0	0	
	(Concrete;Span 8a;BNSO)	-	0.00	47 428	120,694	0	Ó	
uper structure	(Concertary Constant Salary	B2	0.00	48,954	131,491	0	0	
	(Concrete: Span10s; BMS0)	*2	0.00	53,650	149,376	0	· 0	
	(Concrete; Span15m; BM50)	s2	0.00	58,035	176,007		0	
	Pier;for Timber;101)	NO	0.00	339,916	32,859	0	. 0	
	Abut;for Timber;1011	NO	0.00	964,092	154,362	0	0	
	Pier;for Timber;BN50)	NO	0.00	499,927	48,627	0	Q	
	Abut;for Timber;BNSOI	KO	0,00	1,084,991	171,532	Û	0	
	Pier;for Concrete;8H50)	NO	0,00	1,821,504	477,161	0	Ô	
	Abut;for Concrete;BH50)	NO		3,755,081	999,497	0	Û	
	Bridge (Timber->Timber)	e2	0.00	11,009	1,373	0	0	
	Bridge (Timber-)Concrete)	#2	0.00	11,007	1,373	0	0	
emolition of	Bridge (Concrete)	\$2 \$	0.00	83,399	81,377	0	0	
	Timber Bridge (New)	•∎2	0,00	7,203	1,121	0	0	
	Concrete Bridge (New)	#2		1,752	3,135	0	0	
	Timber Bridge (Exist)	a2	208,00	7,217	2,404	1,501,136	500,032	2,001,10
aintenance of	Concrete Bridge (Exist)	₽2	121,26	3,966	2,471	480,917	299,633	780,5;
(Without Overhead)	i 1	OTAL COST	līfaber Bridg	e)	····	••••••••••••••••••••••••••••••••••••••	
				(Concrete Bri		0	0	
		1	QTAL COST	(without Main		0	0	
	Overhead : 15%)	 T	DTAL COST	lTinber Bridg	······	0	0	
				(Concrete Bri		0	0	
	and the second			(without Main		^	•	

PROV : KALIMANTAN SELATAN KAB t

TAPIN

LINK NO : 25 (1118-2) LENGTH : 7 Km

(Rp)

								с кра
ITEH					COST >>>			>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	<u></u>	UNII	QUANTITY	LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Superstructure	(Timber;Span 3m;101)	#2	0.00	39,013	3,541	0	. 0	· (
	(Timber;Span Sm;101)	· #2	0.00	43,213	3,910	0	···· · · ·	(
	(Timber;Span 8m;101)	#2	0.00	57,235	5,136	0	0	· · · · (
	(limber;Span 3m;BH50)	#2	0.00	48,375	4,378	0	0	· · · (
	(Timber;Span 5m;BN50)	•2		52,810	4,745	0	0	· · ·
	(Timber;Span 8m;BH50)	=2		66,977	6,006	0	0	
	(Concrete;Span Ja;BN50)	.2		46,053	107,965	0	0	
	(Concrete;Span 5m;BM50)	82		47,428	120,694	ŏ		· (
	(Concrete;Span 80;BN50)			48,954	131,491			
	(Concrete; Span 10u; BH50)	62	0.00	53,650	149,376	ů.	ñ	. (
	(Concrete; Span15#; BM50)	#2	0.00	58,035	176,007	, v	. v 0	· · ·
	Pier; for Timber; 101)	NO	0.00	339,916	32,859	ň ·	ŏ	:
	Abut;for Timber;101)	KO	0.00	964,092	154,362	0	. v	
	ier;for Timber;8050)	NO	0.00	499,927	48,627	0	0	
		NO	0.00	1.081,991	171,532	- U	0	
	Nout;for Timber;8N50) Pier;for Concrete;8N50)	. NO	0.00	1,821,504	477,161	0	· ^	
		. NO	0.00	3,755,081	999,497	0		
	Abut; for Concrete; BH50)	ຄ <u>0</u> ຄ2	0.00		1,373	0	v	
	Bridge (Timber-)Timber)	=		11,009	•	U A		
	Pridge (Timber-)Concrete)		0.00	11,009	1,373	Ŭ	V A	
Pendition of I	Bridge (Concrete)	₽ 2	0.00	83,389	81,377	v	V	
Maintenance of	Timber Bridge (New)	e2	0.00	7,203	1,121	0	0	
	Concrete Bridge (New)	•2		1,752	3,135	та <u>о</u> с	0	
	Timber Bridge (Exist)	•2		7,217	2,404	375,284	125,008	500,29
	Concrete Bridge (Exist)	#2	0.00	3,966	2,471	0	0	
				•••				
ť	Without Overhead)	. 1	OTAL COST	(Tieber Brid		Ö	. 0	(
				(Concrete Br		0	0	1
		ז	OTAL COST	(without Nai	ntenance)	0	0	
(Overhead : 15%)	I	DTAL COST	(Timber Brid	ge}	0		
				(Concrete Br	idge)	0	0	
	A CONTRACT OF	· · ·			ntenancel	•		

PROV	1	KALIMANTAN	I SELATAN K	AB	TAP IN
LINK NO	:	26 (1110)	LENGTH	5	6 Km

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ITEN			<<< 8101	COST >>>	······································	COST	›››››
	UNIT	QUANTITY	LOCAL	FOREIGN	LOCAL	FOREIGN	TOTA
uperstructure (Timber;Span Ja;IOT)	4 2	0.00	39,013	3,541	0	0	
uperstructure (Timber;Span Sm;10T)	a2	0,00	43,213	3,910	а А	Ŷ	
uperstructure (Tigher;Span Bo;10T)		0.00	57,235	5,136	Û	· V	
uperstructure (Timber;Span 3m;BN50)	•2	0.00	48,375	4,378	0	· O	
uperstructure (Timber;Span 5m;BN50)	a2	0.00	52,810	4,745	0	· A	
uperstructure (Timber;Span Bm;BNSO)	• •2	0.00	66,977	6,006	0	0	
uperstructure (Concrete;Span 3m;BH50)	s2	0.00	46,053	107,965	0	0	
uperstructure (Concrete;Span Se;8N50)	a2	0.00	47,428	120,694	0	U A	
uperstructure (Concrete;Span 8#;6N50)	•2	0.00		131,491	V A	V	
uperstructure (Concrete;Span10=;BK50)	a2	0.00	53,650	149,376	0	U	
uperstructure (Concrete;Span15#;BHSO)	m2	0.00	58,035	176,007	Û	U	
ubstructure (Pier;for Timber;10T)	HO	0.00	339,916	-	•	U	
ubstructure (Abut;for Timber;101)	NO	0.00	964,092	32,859	0	U	
ubstructure (Pier;for Timber;9850)	NO	0.00	499,927	154,362 48,627	0 .	. U	
ubstructure (Abut;for Timber;BNSO)	NO	0.00	· · · · · ·		V	0	
ubstructure (Pier;for Concrete;BN50)	NO	0.00	1,084,991	171,532	U	U	
ubstructure (Abut;for Concrete;BH50)	NO		1,821,504	477,161	V	0	
emolition of Bridge (Timber->Timber)		0.00	3,755,081	999,497	U	0	
enolition of Bridge (Timber-)Concrete)	e2 e2	0.00	11,009	1,373	0	0	
emolition of Bridge (Concrete)	#2 #2	0.00	•	1,373	U	U	
enorition of mildye (concrete)	67	0.00	83,389	81,377	0	0	
aintenance of Timber Bridge (New)	* # 2	0.00	7,203	1,121	0	0	
aintenance of Concrete Bridge (New)	° ∎2	0.00	1,752	3,135	0	0	
aintenance of Timber Bridge (Exist)	#2	28.00	7,217	2,404	202,076	67,312	269,38
aintenance of Concrete Bridge (Exist)	n 2	0.00	3,986	2,471	0	0	•
(Without Overhead)	1	OTAL COGT	(Tiaber Bridg	 eł			
			(Concrete Bri		0	0	
	Ţ		(without Main		0	0	
{ Overhead : 15% }	 I	otal cost	(Ilaber Bridg	e)	0	0	
	•		(Concrete Bri		Ö	Ó	
	Ţ	OTAL COST	(without Hain		Ō	Ó	

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PROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 27 (1118-2) LENGTH : 7 Km

. .

(Rp)

*******							*****			(<i>n</i> p)
T T E H	-41	 	UNIT	QUANTITY		COST >>> FOREIGN	>> Local		S¥ Gh	>>>>> TOTAI
						***********		**********		
Superstructure	Historica	5 (101)	• # 2	0.00	39,013	3,541	: 0		Ő	
operstructure			= <u>-</u>	0.00	43,213		Û		Ň	
Superstructure			#2	0.00	57,235	5,136	0		0	
uperstructure			#2	0.00	40,375	4,378	. 0		0	
iuperstructure .			a2	0.00	52,810		0		0	
uperstructure			. #2	0.00	66,977	6,006	0		ò.	
luperstructure			•2	0.00	46,053	107,965	0		0 -	
uperstructure			#2		47,428		. 0		0	
uperstructure			#2	0.00		131,491	. 0		ò	
uperstructure			#2	0.00	53,650	149,376	6	1	Ô	
uperstructure			#2 #2	0.00	58,035		۵ ۸		ò	
ubstructure (P			ND.	0.00	339,916	32,859	V Л		· A .	
			-	0.00		•	, v		0 ·	
lubstructure (A			KO		964,092	154,362	0		v A	
ubstructure (P			HD HD	0.00	499,927	49,627	0		Û Û	
lubstructure (A			NO		1,084,991	171,532	Ų		•	
iubstructure (P			KO	0.00	1,821,504	477,161	. 0	1. A 1.	0	
Substructure (A			NO	0.00	3,755,081	999,497	0		. 0	·
emolition of B			¢2	0.00	11,009	1,373	0		0	
emolition of B			s2	0.00	11,009	•	0		0	
emolition of 8	ridge (Conci	rete)	42	0.00	83,389	81,377	0		0	· · · ·
laintenance of	Tinber Bride	ge (New)	e2	0.00	7,203	1,121	0		0	. 1
laintenance of			. •2	0.00	1,752	3,135	0		0 -	
laintenance of			#2	184.00	7,217	2,404	1,327,920	442,3	36	1,770,28
aintenance of			62	0.00	3,966	2,471	0		0	<i>N</i> .
				DTAL POOT					0	
. (Without Over	11540 1	I		(Timber Brid		0		V A	
			-		(Concrete Br		0		0	
			[UIKL CUSI	(without Nai	ncenance <i>i</i>	V		v	
	Overhead : 1	15%)		DTAL COST	(Timber Brid	oel	0		0	
•			•		(Concrete Br		ň		0	
			-		without Hai		ŏ		ů.	

FROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 28 (IIIC) LENGTH : 3 Km

							(Rp)
ITEN	UNIT	QUANTITY	<<< UNIT Local	COST >>> Foreign	<<<<< Local	COST Foreign	>>>>>> Totai

operstructure (Tisber;Span 3a;101)	a2	0.00	39,013	3,54	0	0	
uperstructure (Timber;Span Sm;10T)	. #2	0.00	43,213	3,910	0	Ó	4
uperstructure (Timber;Span 8m;107)	#2	0.00	\$7,235	5,136	0	. Q	I
uperstructure (Timber;Span 3¤;BH50)	#2	0.00	48,375	4,378	0	0	
uperstructure (lisber;Span Sm;BNSO)	#2	0.00	52,810	4,745	0	. 0	
uperstructure (Timber;Span 8m;BH50)	#2	0.00	66,977	6,006	0	0	
uperstructure (Concrete;Span 3m;BHSO)	s2	0.00	46,053	107,965	0	0	
uperstructure (Concrete;Span 5m;BH50)	, n2	0.00	47,428	120,694	0	0	
uperstructure (Concrete;Span 8#;BN50)	•2	0.00	48,954	131,491	0	0	
uperstructure (Concrete;SpaniOm;BN50)	· •2		53,650	149,376	0	0	
uperstructure (Concrete;Span15m;BN50)	a2	0,00	58,035	176,007	0	0	
ubstructure (Pier;for Timber;10T)	NO	0.00	339,916	32,859	0	Ó	
ubstructure (Abut;for Timber;10T)	NO	0.00	964,092	154,362	0	Ō	
ubstructure (Pier;for Timber;BN50)	NO	0,00	499,927	48,627	0	0	
ubstructure (Abut;for Timber;BN50)	ND	0,00	1,084,991	171,532	0	õ	
ubstructure (Pier;for Concrete;BN50)	NO	0.00	1,821,504	477,161	0	0	
ubstructure (Abul;for Concrete;BH50)	KO	0.00	3,755,001	999,497	0	Ŏ	
emolition of Bridge (Timber-)Timber)	e2	0.00	11,009	1,373	0	0	
exolition of Bridge (limber-)Concrete)	•2	0.00	11,007	1,373	0	ň	
emolition of Bridge (Concrete)	#2	0.00	03,387	81,377	Ô	Ő	
aintenance of Timber Bridge (New)	a2	0.00	7,203	1,121	0	٥	
aintenance of Concrete Bridge (New)	a2	0.00	1,752	3,135	0	0	
aintenance of Ilaber Bridge (Exist)	#2	22.00	7,217	2,404	158,774	52,888	211,68
aintenance of Concrete Bridge (Exist)	#2	0.00	3,965	2,471	0	. 0	•
(Without Overhead)		DTAL FUET	(Timber Bridg	·	· · · · · · · · · · · · · · · · · · ·		
· #118941 94614280 /	I	01HL 6031	(Concrete Bri		0	v	
	-	8131 CRFT	(without Mair		0	0	
	,	UTRL LUST	(WICHOUL NAI)	(EU9UC61	U	V	
(Overhead : 15%)	Т	DTAL COST	(Timber Bridg	el	0	0	
	2		(Concrete Bri		0	0	
	т		(without Nair	•	0	0	

PROV : KOLIMANTAN BELATAN KAB : TAPIN

LINK NO : 31 (IIIB-1) LENOTH : 0 Km

			·	•				(Rp)
	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> Foreign	\\\\\ Local	(COST Foreign		>>>>> Total
					14030 -0 - 0 ,2222			
Superstructure (Timber;Span 3m;101)	62	0.00	39,013	3,541	0	0		l
Superstructure (Timber;Span Se;10T)	. a2	0.00	43,213	3,910	. · · 0	0		; 1
Superstructure (Timber;Span 8m;10T)	n2	0.00	57,235	5,136	- 0	. 0		. I
Superstructure (Timber;Span 3m;BN50)	#2	0.00	48,375	4,378	0	0		
Superstructure (Ti≢ber;Span 5#;BH50)	#2	0.00	52,810	4,745	0	0	· · .'	
Superstructure (Timber;Span 80;BN50)	#2	0.00	66,977	6,006	: <u>0</u>	. Q		
Superstructure (Concrete;Span 3s;BHSO)	•2	0.00	46,053	107,965	. 0.	0		
Superstructure (Concrete;Span 50;DHSO)	42	0.00	47,420	120,674	0	0		
Superstructure (Concrete;Span 8a;BMSO)		0.00	48,954	131,491		0		
Superstructure (Concrete;Span10s;BNSO)	∎2	0.00	53,650	149,376	. · · · •	0		
Superstructure (Concrete; Span15ø; BH50)	a2	0.00	58,035	176,007	0	0		
Substructure (Pier;for Timber;10T)	Ю	0.00	339,916	32,859	0	0		
Substructure (Abut;for Timber;10T)	ŇO		964,092	154,362	0	0		
Substructure (Pier;for Timber;BNSO)	NO	0.00	499,927	48,627	Ö	. 0		
Substructure (Abut;for Timber;BN50)	NO		1,084,991	171,532	0	0		
Substructure (Pier; for Concrete; BN50)	NO	0.00	1,821,504	477,161	0	0		
Substructure (Abut;for Concrete;BNSO)	NO	0.00	3,755,081	999,497	0	0		
Resolition of Bridge (Timber-)Timber)	#2	0.00	11,009	1,373	0	ů.		
Demolition of Bridge (Timber-)Concrete)	#2	0.00	11,009	1,373	ĥ	, ()		
Demolition of Bridge (Concrete)	a2	0.00	83,389	81,377	Ň	ň		
senarician al priode (concisce)		4.00	491903	011011	•	. •		
laintenance of Jimber Bridge (New)	n2	0.00	7,203	1,121	· 0	0		
laintenance of Concrete Bridge (New)	• • 2	0.00		3,135	0	. 0	· .	
laintenance of Timber Bridge (Exist)	u 2		7,217	2,404	721,700	240,400		962,10
laintenance of Concrete Bridge (Exist)	e2	0.00	3,966	2,471	• 0	0		
(Without Overhead)	 T	0TAL COST	(Tieber Bridg					
1 MICHOUL UYERNEDU /	ŀ		(Concrete Bri		0		•	
	1		Inithout Main			0		
	•••••	UIRL 1031	ANTEROOC RALE		.v			
(Overhead : 15%)	T		(Tiaber Bridg		0	0		
		· · · ·	(Concrete Br	dgel	0	0		
	1	OTAL COST	Inithout Main	itenance)	0	. 0		

PROV : KALIMANTAN BELATAN KAB : TAPIN

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LINK NO : 37 (IIIC) LENGTH : 11 Km

1 00 /

1 T E H		**********		****	*************		(Rø 1
	UNIT	QUANTITY	LOCAL	COST >>> Foreign	،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،،	COST Foreign	>>>>>> total
		******			************		+1111
Superstructure (Timber;Span 3m;101)	• o 2	0.00	39,013	3,541	0	. 0	
Superstructure (Timber;Span 5m;10T)	#2	0.00	43,213	3,910	Ň	v A	
Superstructure (Timber;Span Ba;10T)	e2	0.00	57,235	5,136	0	0	
Superstructure (Timber;Span 3m;BH50)	#2	0.00	48,375	4,378	0	0	
Superstructure (Timber;Span 5m;BM50)	s2	0.00	52,B10	4,745	0 :	v A	÷
Superstructure (Timber:Span 8m;BH50)	#Z	0.00	66,977	6,006	0	۷ ۵	
Superstructure (Concrete;Span 30;BM50)	# 2	0.00	46,053	107,965	0	v ۸.	
Superstructure (Concrete;Span Sa;BH30)	a2	0.00	47,428	120,694	· Õ	· V	
Superstructure (Concrete;Span 0s;BN50)	₽2		48,954	131,491	ŏ	Ň	
Superstructure (Concrete;Span10m;BHSO)	#2	0.00	53,650	149,376	0	v 0	
Superstructure (Concrete;Span15;BHSO)	- #2		59,035	176,007	ů.	v 0	
Substructure (Pier;for Timber;10T)	NO	0.00	339,916	32,859	0	V A	
Substructure (Abut;for Timber;101)	NO	0.00	964,092	154,362	. 0	V	
Substructure (Pier;for Timber;BN50)	NO	0.00	499,927	40,627	0	v	
Substructure (Abut;for Timber;BN50)	NÜ	0.00	1,084,991	•	-	V	
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,821,504	477,161	0	V '	
Substructure (Abut;for Concrete;BMSO)	NO	0.00			0	V	
Demolition of Bridge (Timber-)Timber)	. av s2			999,497	0	Ų	
Demolition of Bridge (Timber-)Concrete)	#2		11,007	1,373	0	0	
Demoiition of Bridge (Concrete)	-			1,373	0	0	
vemorition of pringe (contrete)	82	0.00	83,389	81,377	Q	Q	
faintenance of Timber Bridge (New)	÷ ≇2	0.00	7,203	1,121	0	Q	
laintenance of Concrete Bridge (New)	∉2	0.00	1,752	3,135	0	0	
faintenance of Timber Bridge (Exist)	#2	116.00	7,217	2,404	837,172	278,864	1,116,03
faintenance of Concrete Bridge (Exist)	æ2	0.00	3,966	2,471	Q	0	
(Without Overhead)		10161 POCT	(Tisber Bride		0	0	
A MILINUL OVERNEAU /		0107 6031	(Concrete Br		ň	v ۵	
	. 1	INTAL FRET	(without Main		0	0	
					••••	v 	
(Overhead : 15%)	· 1	IOTAL COST	(Timber Bride		0	0	
			(Concrete Bri		0	0	
	1	INTAL COST	Inithout Main	itenance)	0	0	

PROV : KALIMANTAN SELATAN KAB : TAPIN

LINK ND : 44 (IIIB-2) LENGTH : 2 Km

					*******		(Rp)
BITIES , BITIES BITIES	UNIT	QUANTLY		COST >>> FORE16N	/</th <th><!-- COST<br-->FOREIGN</th> <th>>>>>> Total</th>	COST<br FOREIGN	>>>>> Total
Superstructure (Timber;Span 3m;101)	a 2	0.00	39,013	3,541	0	0	. 4
uperstructure (Timber;Span 5m;10T)	#2	0.00	43,213~	3,910	· .0	0	· · · ·
uperstructure (Timber;Span Bo;10T)	s 2	90.00	57,235	5,136	5,151,150	462,240	5,613,39
uperstructure (Timber;Span 3m;BHSO)	•2	0.00	48,375	4,370	. 0	0	
uperstructure (Timber;Span 5m;BMSO)	a2	0.00	52,910	1,715	. 0	. 0	
uperstructure (Timber;Span 8m;BNSO)	n 2	0.00	66,977	6,006	. 0	. 0	•
uperstructure (Concrete;Span Ja;8M50)	9 2	0.00	46,053	107,965	0	. 0	
uperstructure (Concrete;Span 5m;BHSO)	#2	0.00	47,428	120,694	0	0	
uperstructure (Concrete;Span 8a;BH50)	s2	0.00	48,954	131,491	0	0	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
uperstructure (Concrete;Span10#;BH50)	#2	0.00	53,650	149,376	. 0	0	
uperstructure (Concrete;Span15m;BNSO)	R2	0.00	58,035	176,007	, O	0	
ubstructure (Pier;for Timber;101)	NO	2.00	339,916	32,959	679,832	65,718	745,55
ubstructure (Abut;for Timber;101)	. NO	2.00	964,092	154,362	1,928,184	308,724	2,236,90
ubstructure (Pier;for Timber;BH50)	NO	0.00	499,927	48,627	÷ 0	0	
ubstructure (Abut;for Timber;BNSO)	- XO	0.00	1,084,991	171,532	0	0	
ubstructure (Pier;for Concrete;BM50)	NO	0.00	1,821,504	477,161	0.	. 0	
ubstructure (Abut;for Concrete;BN50)	NO	0.00	3,755,081	999,497	0	. 0	· · · ·
emplition of Bridge (Timber-)Timber)		45.00	: 11,009	1,373	495,405	61,785	557,19
emolition of Bridge (Timber-)Concrete)	n2	0.00	11,009	1,373	0	0	
emolition of Bridge (Concrete)	s 2	0.00	83,389	81,377	0	0	
aintenance of Timber Bridge (New)	· #2	90.00	7,203	1,121	648,270	100,890	749,10
aintenance of Concrete Bridge (New)	a2	0.00	1,752	3,135	0	0	4. _{1.}
aintenance of Timber Bridge (Exist)	. #2	0.00	7,217		.0	Ð	
aintenance of Concrete Bridge (Exist)	n2	0.00	3,966	2,471	• 0	0	
(Without Overhead)		(010)	{Tisber Brid		8,254,571	878,467	9,153,03
v HELHDUL DIELHCOU /		ome coal	(Concrete Br		011011011	010,101	
·	1	OTAL COST	(without Nali		8,254,571	898,467	7,153,0

(Overhead ; 15%)	1	DTAL COST	(Timber Brid) (Concerts Br		9,492,757	1,033,237	10,525,99
		0161 COCT	(Concrete Br (without Main		9,492,757	1,033,237	10,525,9
							10106017

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PROV : KALIMANTAN SELATAN KAB : TAPIN

LINK NO : 50 (IIIC) LENGTH : 6 Km

							(Ro
							· · •
ITEN			(((UNIT	COST >>>	\\\\\\	COST)))))
U	11	PUANTITY	LOCAL	FOREIGN	LOCAL	FOREIGN	TOTA

					· .		
uperstructure (Tløber;Span 30;10T)	•2	0.00	39,013	3,541	0	0	
iperstructure (Timber;Span 5m;10T)	12	0.00	43,213	3,910	0	•	
uperstructure (Timber;Span Ba;101)	8 2	0.00	57,235	5,136	0	0	-
uperstructure (Timber;Span 3m;BH50)	# 2	0.00	48,375	4,378	0	0	
uperstructure (limber;Span 5m;8K50)	n2	0.00	52,810	4,745	0	0	
uperstructure (Timber;Span 8m;BH50)	a2.	0.00	66,977	6,006	0	0	
uperstructure (Concrete;Span 3m;BH50)	# 2	0.00	46,053	107,965	0	0	
uperstructure (Concrete;Span 50;BN50)	a2	0.00	47,428	120,694	. 0	0	
uperstructure (Concrete;Span 8m;8M50)	e2	0.00	48,954	131,491	0	0	
uperstructure (Concrete;Span10æ;8H50)	a2	0.00	53,650	149,376	0	0	
uperstructure (Concrete;Span15a;BM50)	s2	0.00	59,035	176,007	0	0	
ubstructure (Pier;for Timber;101)	NØ	0.00	339,916	32,859	0	0	
ubstructure (Abut;for Timber;101)	NO	0.00	964,092	154,362	0	0	
ubstructure (Pier;for Timber;8N50)	HO	0.00	499,927	48,627	0	¢	
ubstructure (Abut;for Timber;DN50)	NØ	0.00	1,094,991	171,532	0	0	
ubstructure (Pier;for Concrete;BN50)	NO	0.00	1,821,504	477,161	0	0	
ubstructure (Abut;for Concrete;BNS0)	NØ	0.00	3,755,091	999,497	0	0	
emolition of Bridge (Timber->Timber)	a 2	0.00	11,009	1,373	0	0	
emolition of Bridge (Timber-)Concrete)	n2	0.00	11,009	1,373	0	0	
emolition of Bridge (Concrete)	₽2	0.00	03,309	BI, 377	0	0	
aintenance of Timber Bridge (New)	•2	0.00	7,203	1,121	0	0	
aintenance of Concrete Bridge (New)	a2		1,752	3,135	Ó	0	
aintenance of Timber Bridge (Exist)	a2		7,217	2,404	144,340	48,080	192,
aintenance of Concrete Bridge (Exist)	a2		3,966	2,471	0	0	
{ Without Overhead }	 1	IOTAL COST	(Timber Brid	ge)	0	0	
			(Concrete Br		0	0	
	1	TOTAL COST	(without Mai	ntenancel	0	0	
/ Dural-13 / (EY)		TATAL 2021	llimber Brid		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
(Overhead : 15%)		IUINL 1051	(Concrete Br		ů.	0	
		10161 2021	Inithout Mai		ŏ	Ŏ	

FROV

: KALIMANTAN SELATAN 🔗 KAB' : TAPIN

LINK	NÐ	:	
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53 (IIIC) LENGTH : 18 Km

I TEN		12154		((CUNIT)>>>> 		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
		UNII	QUANTITY	LOCAL	FOREIGN	LOCAL	FORE ISN	TOTA
Gunorstruct	ture (Tløber;Span 3m;101)	•2	0.00	39,013	3,541	0	0	
	ture (Jisber;Span 5s;101)	= a 2	0.00	43,213		Ð	ů.	
	ture (Timber;Span Bm;10T)	m2	112.00	57,235	5,136	6,410,320	\$75,232	6,985,55
	ture (Timber;Span 3m;BH50)	e2-	0.00	48,375	4,379	0,000	0	
	ture (Timber;Span 50;BH50)	+2	0.00	52,810	4,745	- 0	0	
	ture (Timber;Span 80;0X50)	•2	0.00	66,977	6,006	0	. O	1.1.1
	ture (Concrete;Span 3#;BH50)	•2	0.00	46,053	107,965	0	0	
	ture (Concrete;Span 5s;BH50)	2	0.00	47,428	120,694	0	•	
	ture (Concrete;Span Bm;BM50)	#2	0.00	48,954	131,491	. 0	. 0	
	ture (Concrete;Span10m;BH50)	#2	0.00	53,650	149,376	• 0	0	
	ture (Concrete;Span15#;BH50)	e2	0.00	58,035	176,007	· · · 0	0	
	e (Pier;for Timber;10T)	NO	3.00		32,959	1,019,748	98,577	1,118,32
	e (Abut;for Timber;101)	NO	2.00	964,092	154,362	1,928,184	308,724	2,236,90
Substructur	e (Pier;for Timber;BN50)	NO	0.00			0	0	· · ·
Substructu	re (Abut;for Timber;8H50)	NO	0.00	1,084,991	171,532	0	0	
Substructur	e (Fier;for Concrete;BN50)	'NO	0.00	1,821,504	477,161	0	0	
Substructu	re (Abut;for Concrete;PM50)	ND	0.00	3,755,081	999,497	0.1		1111
	of Bridge (Timber-)Timber)	n 2	56.00	11,009	1,373	616,504	76,888	693,39
	of Bridge (limber-)Concrete)	•2	0.00	11,007	1,373	0	0 -	
Demolition	of Bridge (Concrete)	R2_	0.00	83, 389	81,377	0	0	
Haintenancı	e of Timber Bridge (New)	a2	112.00	7,203	1,121	806,736	125,552	932,28
	e of Concrete Bridge:(New)	ø2	0.00	1,752	3,135	0	0	
	e of Timber Bridge (Exist)	#2	0.00	7,217	2,404	0 -	• 0	
Maintenanci	e of Concrete Bridge (Exist)	#2	0.00	3,966	2,471	0	0	
ģ	(Without Overhead)	Ī	DTAL COST	(Tiøber Bridge) (Concrete Bridge)		9,974,756 0	1,059,421	11,034,17
		TOTAL COST		(without Maintenance)		9,974,756	1,059,421	11,034,17
	(Overhead : 15%)	t	1207 IAT	ttimber Bridg		11,470,959	1,218,334	12,689,3
(averneau t tov t		•	orne codi	(Concrete Bridge)		11,470,101 0	1,218,334	141001190
-		т	NTAL COST	Without Main		11,470,969	1,218,334	12,689,30

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