

## **APPENDIX**



## INPUT DATA

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

PRV. : KALIMANTAN SELATAN

KAB. : TABALONG

SURVEY YEAR: 1984

[illegible]

	$r_1$	$r_2$	$r_3$	$r_4$	FARMER'S CONSUMPTION : (Cp)	NON-AGRO REQUIREMENT : (NG)
ANNUAL AVERAGE % GROWTH RATE	1.9	2.7	3.0	4.9	0.18 Ton/head/year	0.395 Ton/ton

	SEDAN	BUS	TRUCK	MOTOR CYCLE	AVERAGE FREIGHT TONAGE	
RATE OF EACH VEHICLE TYPE %	16.64	0.57	14.96	67.83		0.6 Ton/Truck

Appendix A-2 Engineering Data

## ROAD LINK DATA

PROVINCE : Kalimantan Selatan

KABUPATEN: Tabalong

## DATA RUAS

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
01	Pangeran Antasari	Jend. Basuki Rachmat	1	Tanjung	1	Dalam Kota
02	Jend. Basuki Rachmat	Pangkalan	1	Tanjung	1	Dalam Kota
03	Puteri Zaleha	Ujung Murung	1	Tanjung	1	Dalam Kota
04	Kenanga	Dr. Murjani	1	Tanjung	1	Dalam Kota
05	Kamboja	Basuki Rachmat	1	Tanjung	1	Dalam Kota
06	Penghulu Rasid	Kamboja	1	Tanjung	1	Dalam Kota
07	Dr. Murjani	Jaksa Agung Suprpto	1	Tanjung	1	Dalam Kota
08	Jaksa Agung Suprpto		1	Tanjung	1	Dalam Kota
09	Cempaka	Penghulu Rasid	1	Tanjung	1	Dalam Kota
10	Mawar	Penghulu Rasid	1	Tanjung	1	Dalam Kota
11	Melati	Penghulu Rasid	1	Tanjung	1	Dalam Kota
12	Palang Merah	Jend. Sudirman	1	Tanjung	1	Dalam Kota
13	Tepian	Jend. Sudirman	1	Tanjung	1	Dalam Kota
14	Mujahiddin	Puteri Zaleha	1	Tanjung	1	Dalam Kota
15	Gerilya	Jend. Sudirman	1	Tanjung	1	Dalam Kota
16	Pahlawan	Sp. 3 Jend. Sudirman	1	Tanjung	1	Dalam Kota
17	Jend. Sudirman	Puteri Zaleha	1	Tanjung	1	Dalam Kota
18	A. Yani	Jangkung	1	Tanjung	1	Dalam Kota
19	Pelajar	Belimbing	1	Tanjung	1	Dalam Kota
20	Cendrawasih	Mujahiddin	1	Tanjung	1	Dalam Kota
21	Garuda	Pangkalan	1	Tanjung	1	Dalam Kota
22	Agung	Kutat	3	Tanjung	3	Dalam Kota
23	Kambitin	Padang Lumbu	5	Tanjung	5	
24	Sp. 3 Kitang	Rintis	4	Tanta	1	
				Tanjung	3	

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

## ROAD LINK DATA

PROVINCE , Kalimantan Selatan

KABUPATEN: Tabalong

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
25	Jangkung	Wikau	11	Tanjung	11	3
26	Sei.Pimping	Jaen	5	Kelua	5	
27	Simp. Sei. Pimping	Luk Kulur	5	Kelua	5	14
28	Tabing Siring	Masukau	5	Tanta	5	
29	Bangun sari	Murung Pudak	1	Tanjung	1	
30	Simp.Tanta	Tanta Kota	1	Tanta	1	
31	Masukau	Pasar Panas	3	Tanta	3	
32	Simp.Murung Pudak	Masukau	6	Tanta	6	2
33	Simp.3 Pembataan	Bangunsari	7	Tanjung	7	
34	Simp.3 Baya - hin	Muara Padangin	6	Kelua	6	
35	Sp.3 Puain	Murung Baru	8	Kelua	1	
				Tanjung	7	
				Kelua	4	
36	Bajud	Lajar	7	Tanta	3	
37	Tanta	Simp.3 Bayahin	3	Kelua	1	6
				Tanta	2	
38	Pulau Ku'u	Walangkir	6	Kelua	6	
39	Walangkir	Muara Padangin	7	Kelua	7	
40	Pembataan	Bangunsari	3	Tanta	3	1
41	Tanjung	Tanta	7	Tanta	2	13
				Tanjung	5	
42	Pulau	Kelua Kota	1	Tidak ada		
43	Masintan	Jirak	8	Benua Lawas	1	
				Kelua	7	
44	Masintan	Sp. Muara Padangin	8	Kelua	8	
45	Pasintrik	Purai	2	Benua Lawas	2	20
46	Pasintrik	Luk Kulur	6	Kelua	6	21
47	Purai	Baco	4	Benua Lawas	4	25
48	Gayam	Talan	2	Kelua	2	

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: Tabalong

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
49	Karang Putih	Talan	2	Kelua	2	30
50	Jirak	Tamunti	5	Benua Lawas	5	
51	Guntung	Pampanan	5	Benua Lawas	5	
52	Sei.Hanyar Kanan	Pasar Arba	3	Benua Lawas	3	
53	Sei.Hanyar Kiri	Pasar Arba	3	Benua Lawas	3	
54	Pasar Arba	Sei Durian	5	Benua Lawas	5	7
55	Purai	Banua Rantau	5	Benua Lawas	5	24
56	Pasar Arba	Hapalah	6	Benua Lawas	6	
57	Hapalah	Batas Amuntai	6	Benua Lawas	6	
58	Sei.Durian	Tabur	5	Benua Lawas	5	10
59	Simp. 3 Pematang	Sei.Hanyar	4	Benua Lawas	4	
60	Tantaringin	Murung Baru	5	Kelua	5	
61	Sei.Durian	Batang Banyu	2	Benua Lawas	2	
62	Tamporejo	Bongkang	2	Haruai	2	
63	Simp.Mahe	Pujung	9	Tanjung	8	27
				Murung Puduk	1	
64	Pujung	Borum	6	Tanjung	4	
				Haruai	2	
65	Bongkang	Kinarum	9	Haruai	9	
66	Kinarum	Upau	8	Haruai	1	
				Murung Puduk	7	
67	Upau	Kaong	2	Murung Puduk	2	
68	Sei Ulin	Jaing Hulu	7	Tanta	7	
69	Haruai	Kembang Kuning	8	Haruai	2	18
				Muarung Puduk	6	
70	Tamporejo	Upau	10	Haruai	6	
				Murung Puduk	4	
71	Kaong	Bilas	6	Murung Puduk	6	5
72	Bangkar	Randu	10	Muara Uya	10	

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: Tabalong

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
73	Angkil	Namun	2	Muara Uya	2	
74	Teratau	Namun	7	Muara Uya	7	26
75	Pianang	Muang	4	Muara Uya	4	
76	Bangkar	Ayah	4	Muara Uya	4	
77	Mangkupom	Pasar Batu	4	Haruai	4	
78	Palapai	Kupang Nun- ding	4	Haruai	4	19
79	Lumbang	Teratau	4	Muara Uya	4	22
80	Jaro	Jaro Atas	3	Muara Uya	3	
81	Jaro	Liang Tapah	6	Muara Uya	6	15
82	Muara Uya	Binjai	10	Muara Uya	10	29
83	Mangkupom	Kampung Ba- ru	3	Haruai	3	28
84	Kasiau	Sei.Ulin	6	Tanta	6	
85	Ayah	Randu	3	Muara Uya	3	
86	Liang Tapah	Garagata	2	Muara Uya	2	16
87	Sp.Teratau	Muang Atas	2	Muara Uya	2	
88	Simp.4 Jaro	Jaro dam	3	Muara Uya	3	
89	Ayah	Kampung Ba- ru	4	Haruai	4	
90	Binjai	Nyali	1	Muara Uya	1	
91	Teratau	Purui	4	Muara Uya	4	
92	Purui	Tawi	4	Muara Uya	4	
93	Kembang Ku- ning	Bilas	6	Murung Pudak	6	9
94	Simp.Layung	Ojek	2	Haruai	2	11
95	Barimbun	Unggan	7	Kelua Tanta	6 1	
96	Haruai	Hayup	9	Haruai	9	17

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





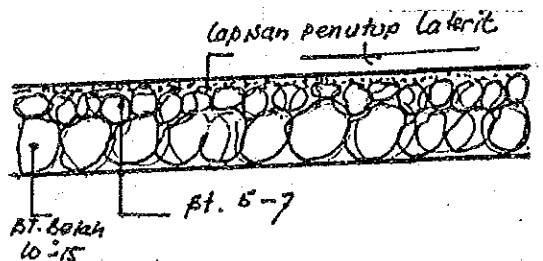
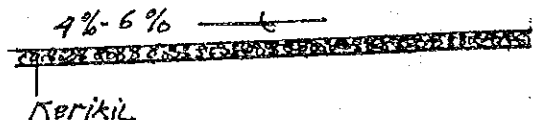
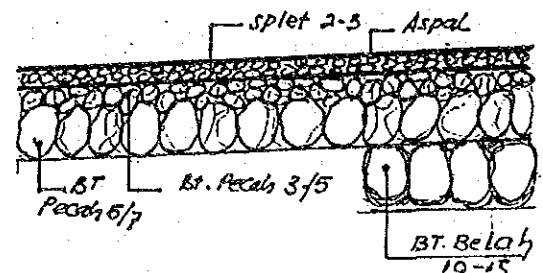
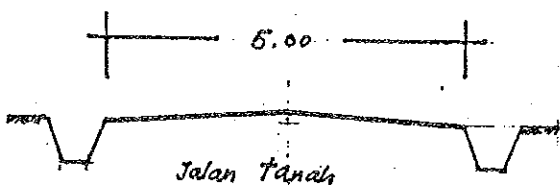
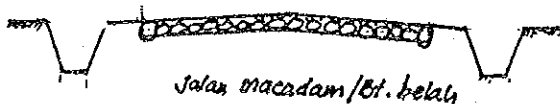
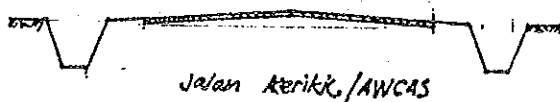
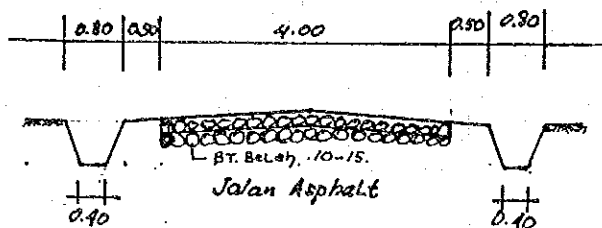
What Kind of Design Criteria has being applied for the new road construction and the improvement for the Kabupaten Road ?

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.



ROADS CONSTRUCTED OR IMPROVED IN 1980/1981

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1980/1981

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

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

### LOCATION AND COSTS OF THE KABUPATEN

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten ttn. 1981/1982

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

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

ROADS CONSTRUCTED OR IMPROVED IN 1982/1983

Biaya konstruksi penanganan

Jalan dan Jembatan Kabupaten thn. 1982/1983

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

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

Biaya konstruksi penanganan

· jalan dan jembatan Kabupaten ttn. 1983/1984 ·

\* 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

LOCATION AND COSTS OF THE KABUPATEN

**ROADS CONSTRUCTED OR IMPROVED IN 1984/1985**

Biaya konstruksi penanganan

Jalan dan jembatan Kabupaten tnh. 1984/1985

[illegible]

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

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

PROPINSI : Kalimantan Selatan

E-04

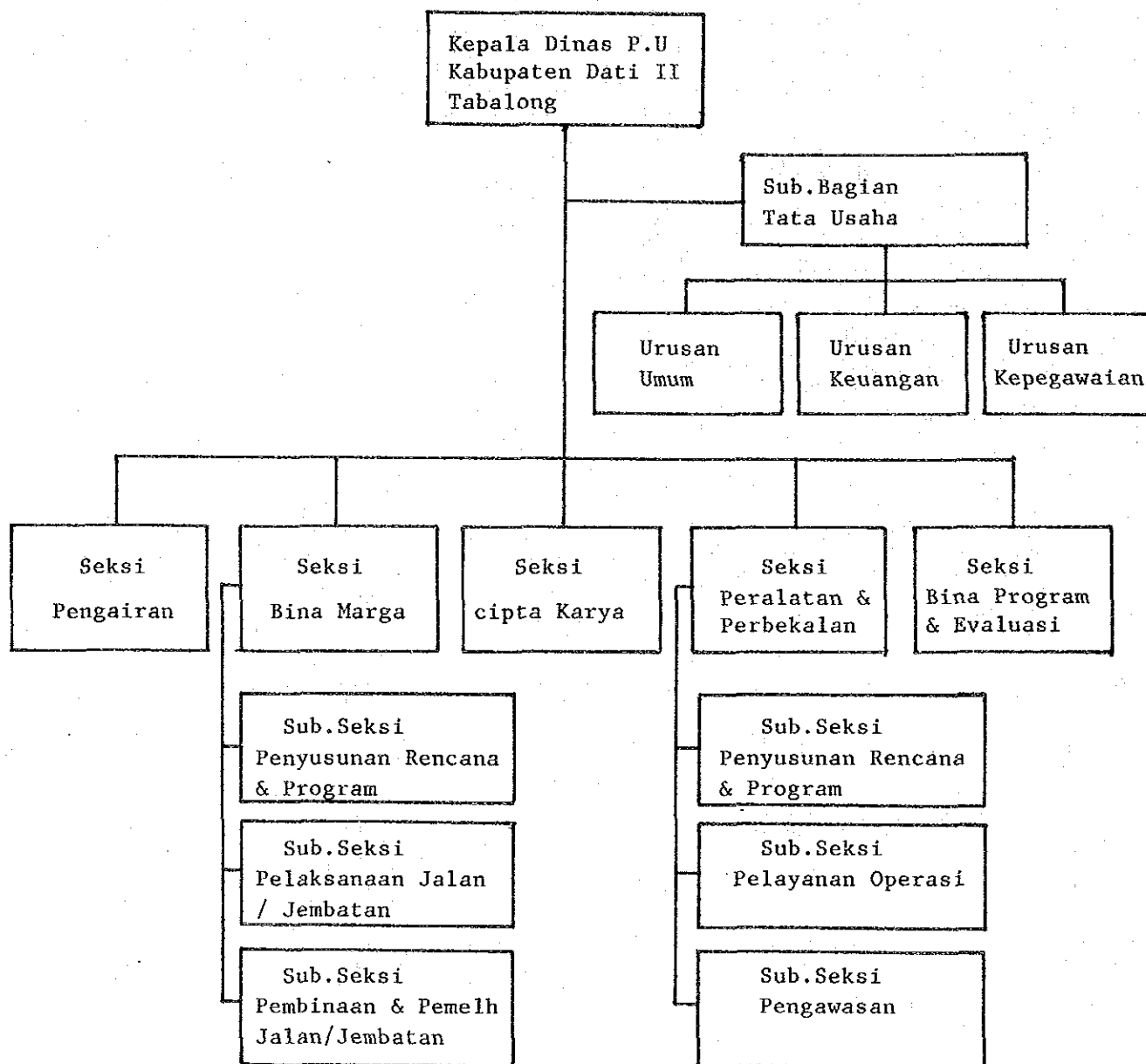
KABUPATEN: Tabalong

EXISTING ORGANIZATION IN KABUPATEN

Struktur Organisasi yang ada dari P.U Kabupaten

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

Harap digambar bagan organisasi dari DPUK.





EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATEN

Tenaga Dinas PUK yang ada

PROPINSI: Kalimantan Selatan

KABUPATEN: Tabalong

DESCRIPTION / Uraian	NUMBER / Jumlah	REMARKS Keterangan
CONTROLLING STAFF Staff teknis. PUK	(21)	
DPUK ENGINEER Sarjana Teknik	-	
ASSISTANT ENGINEER Sarjana Muda Teknik	-	
TECHNICIAN STAFF Staff Teknik (STM)	21	
ADMINISTRATION Tenaga Administrasi	4	
SUPERVISOR Tenaga Pengawas	16	
WORKING FORCE Tenaga Pelaksana Lapangan	(15)	
OPERATORS Operators	4	
DRIVERS Supir	1	
MECHANICS Mechanic	2	
TRADESMAN Tukang	1	
LABOUR Buruh / Pekerja	2	
OTHERS Lain-lain	5	
TOTAL / JUMLAH	(56)	

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

LOCATION AND AREA OF DPUK WORKSHOP

E-06

Lokasi Workshop DPUKPROPINSI : Kalimantan SelatanKABUPATEN: Tabalong

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Ds. Pembataan	20,000	Rp 48,000,000	
Kec. Muara Puduk			

PROPINSI: Kalimantan Selatan

E-07

KABUPATEN: TabalongLAND ACQUISITION COSTDaftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	7,200	
VILLAGE / desa	M2	2,400	
RICE FIELD/sawah	M2	300	
DRY FIELD/ladang	M2	120	
MIX CROPS/panen	M2	240	
FOREST/hutan	M2	70	
SWAMP / rawa	M2	120	
OTHERS / lain-lain	M2	-	

KABUPATEN: Tabalong

Classification of local contractors at Kabupaten level.

## Klasifikasi kontraktor di Kabupaten

[illegible]

25-A-17

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTORName of contractor

NAME OF EQUIPMENT  Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDI TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Type	P.Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer	-	-	-	-	-	-	-
Motor Grader	-	-	1	-	1	-	-
Tyre Roller	-	-	-	-	-	-	-
Steel Wheel Roller	-	-	-	-	-	-	-
Vibration Roller	-	-	-	-	-	-	-
Wheel Loader	-	-	-	-	-	-	-
Front End Loader and Backhoe	-	-	-	-	-	-	-
Mobile Crane	-	-	-	-	-	-	-
Concrete Mixer	-	-	-	-	-	-	-
Stone Crusher	-	-	-	-	-	-	-
Portable Compressor	-	-	-	-	-	-	-
Hydraulic Excavator	-	-	-	-	-	-	-
Asphalt Paving Machine	-	-	-	-	-	-	-
Asphalt Sprayer	-	-	-	-	-	-	-
Asphalt Mixing Machine	-	-	-	-	-	-	-
Mobile Workshop	-	-	-	-	-	-	-
Mechanic Rammer	-	-	-	-	-	-	-
Plate Tamper	-	-	-	-	-	-	-
Pile Driver	-	-	-	-	-	-	-
Leg Drill	-	-	-	-	-	-	-
Hand Hammer	-	-	-	-	-	-	-
Farm Tractor	-	-	-	-	-	-	-
Dump Truck	-	-	6	-	6	-	-
Water Tank Truck	-	-	-	-	-	-	-
Fuel Tank Truck	-	-	-	-	-	-	-
Pick Up	L300	-	12	-	12	-	-
Jeep	-	-	15	-	15	-	-
Motorcycle	Suzuki Yamaha	-	100	-	100	-	-
Generator	Honda	-	17	-	17	-	-
Water Pump	-	-	10	-	10	-	-
Others	-	-	-	-	-	-	-

## LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDIT TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Tipe	P.Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer							
Motor Grader							
Tyre Roller							
Steel Whell Roller							
Vibration Roller			5	-	5		
Wheel Loader							
Front End Loader and Backhoe							
Mobile Crane							
Concrete Mixer							
Stone Crusher			-	1	1		
Portable Compressor							
Hydraulic Excavator							
Asphalt Paving Machine							
Asphalt Sprayer			1	-	1		
Asphalt Mixing Machine							
Mobile Workshop							
Mechanic Rammer							
Plate Tamper							
Pile Driver							
Leg Drill							
Hand Hammer							
Farm Tractor							
Dump Truck							
Water Tank Truck							
Fuel Tank Truck							
Pick Up			1	-	1		
Jeep							
Motorcycle			8	-	8		
Generator							
Water Pump							
Others							

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

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 96 (IIIB-2) LENGTH : 9 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	16000.0	22	11	352,000	176,000	528,000
Normal Fill	m3	4500.0	1,796	863	8,082,000	3,883,500	11,965,500
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	872.0	1,051	522	916,472	455,184	1,371,656
Sub Base Course	m3	2284.0	3,379	1,347	7,717,636	3,076,548	10,794,184
Base Course	m3	2160.0	4,637	2,299	10,015,920	4,965,840	14,981,760
Shoulder	m2	36000.0	314	146	11,304,000	5,256,000	16,560,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	1600.0	939	119	1,502,400	190,400	1,692,800
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 800cm	m	33.0	46,069	51,386	1,520,277	1,695,738	3,216,015
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	6.4	46,111	11,868	295,110	75,955	371,065
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					41,705,815	19,775,165	61,480,980
Overhead (15%)					6,255,872	2,966,274	9,222,146
TOTAL COST					47,961,687	22,741,439	70,703,126

Manual routine maintenance of road	Km	9.0	152,384	7,248	1,371,456	65,232	1,436,688
Routine maintenance of gravel road	Km	9.0	203,196	89,047	1,828,764	792,423	2,621,187
Sub Total					3,200,220	857,655	4,057,875
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	61.3	7,058	2,404	481,302	147,245	628,547
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	7,855,903
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	5,397,092
Maintenance Rate without Bridge		(%)	:	5.74
New Bridge Cost Rate		(%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 94 (IIIC) LENGTH : 2 Km

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

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL FOREIGN	LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0
Subgrade Preparation	m2	14000.0	22	11	308,000	154,000
Normal Fill	m3	0.0	1,796	863	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0
Normal Excavation to Spoil	m3	248.0	1,051	522	260,648	129,456
Sub Base Course	m3	1280.0	3,379	1,347	4,325,120	1,724,160
Base Course	m3	0.0	4,637	2,299	0	0
Shoulder	m2	6000.0	314	146	1,884,000	876,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0
Earth Drain	m	1900.0	939	119	1,784,100	226,100
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0
Pipe Culvert 80cm	m	15.0	46,069	51,386	691,035	770,790
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,750	246	0	0
Retaining Wall and Wing Wall (Masonry)	m3	3.2	46,111	11,868	147,555	37,977
Gabion Protection	m3	0.0	13,146	120	0	0
New Bridge (Timber)	SET	1.0	--	--	7,040,428	897,441
New Bridge (Concrete)	SET	1.0	--	--	0	0
Sub Total				16,440,886	4,815,924	21,256,810
Overhead ( 15% )				2,466,132	722,388	3,188,520
TOTAL COST				18,907,018	5,538,312	24,445,330

Manual routine maintenance of road	Km	2.0	152,384	7,248	304,768	14,496	319,264
Routine maintenance of gravel road	Km	2.0	203,196	88,047	406,392	176,074	582,466
Sub Total				711,160	190,590		901,750
Maintenance of Timber Bridge (New)	m2	50.0	7,532	1,121	376,600	56,050	432,650
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	7,658,391
Timber Bridge Unit Cost (Rp/m2)	:	182,571
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	2,419,712
Maintenance Rate without Bridge (%)	:	5.89
New Bridge Cost Rate (%)	:	37.34

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : B5 (111C) LENGTH : 3 Km

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

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	18000.0	22	11	396,000	198,000	594,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	576.0	1,051	522	605,376	300,672	906,048
Sub Base Course	m3	1920.0	3,379	1,347	6,487,680	2,586,240	9,073,920
Base Course	m3	0.0	4,637	2,299	0	0	0
Shoulder	m2	6000.0	314	146	1,884,000	876,000	2,760,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	4000.0	939	119	3,756,000	476,000	4,232,000
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert D80cm	m	15.0	46,069	51,386	691,035	770,790	1,461,825
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111	11,868	0	0	0
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					13,820,091	5,207,702	19,027,793
Overhead ( 15% )					2,073,013	781,155	2,854,168
TOTAL COST					15,893,104	5,988,857	21,881,961

Manual routine maintenance of road	Km	3.0	152,384	7,248	457,152	21,744	478,896
Routine maintenance of gravel road	Km	3.0	203,196	88,047	609,588	264,141	873,729
Sub Total					1,066,740	285,885	1,352,625
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	34.5	7,858	2,404	271,101	82,938	354,039
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Ka)	:	7,293,987
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	3,629,568
Maintenance Rate without Bridge		(%)	:	6.18
New Bridge Cost Rate		(%)	:	



PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 83 (I11B-2) LENGTH : 3 Km

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

(Rp)

ITEM	UNIT	QUANTITY	UNIT LOCAL	COST FOREIGN	LOCAL	COST FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	7000.0	22	11	154,000	77,000	231,000
Normal Fill	m3	2000.0	1,796	863	3,592,000	1,726,000	5,318,000
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	196.0	1,051	522	205,996	102,312	308,308
Sub Base Course	m3	1016.0	3,379	1,347	3,433,064	1,368,552	4,801,616
Base Course	m3	720.0	4,637	2,299	3,338,640	1,655,280	4,993,920
Shoulder	m2	9000.0	314	146	2,826,000	1,314,000	4,140,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	4200.0	939	119	3,943,800	499,800	4,443,600
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 80cm	m	35.0	46,069	51,386	1,612,415	1,798,510	3,410,925
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	9.6	46,111	11,868	442,665	113,932	556,597
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					19,548,580	8,655,386	28,203,966
Overhead ( 15% )					2,932,287	1,298,307	4,230,594
TOTAL COST					22,480,867	9,953,693	32,434,560

Manual routine maintenance of road	Km	3.0	152,384	7,240	457,152	21,744	478,896
Routine maintenance of gravel road	Km	3.0	203,196	88,047	609,588	264,141	873,729
Sub Total					1,066,740	285,885	1,352,625
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	10,811,520
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	2,400,808
Maintenance Rate without Bridge (%)	:	4.17
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 75 (IIB-2) LENGTH : 4 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	24000.0	22	11	528,000	264,000	792,000
Normal Fill	m3	3500.0	1,796	863	6,286,000	3,020,500	9,306,500
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	1948.0	1,051	522	2,047,348	1,016,856	3,064,204
Sub Base Course	m3	2240.0	3,379	1,347	7,568,960	3,017,280	10,586,240
Base Course	m3	960.0	4,637	2,299	4,451,520	2,207,040	6,658,560
Shoulder	m2	8000.0	314	146	2,512,000	1,168,000	3,680,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	5800.0	939	119	5,446,200	690,200	6,136,400
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 880cm	m	33.0	46,069	51,386	1,520,277	1,695,738	3,216,015
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	6.4	46,111	11,868	295,110	75,955	371,065
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					30,655,415	13,155,569	43,810,984
Overhead ( 15% )					4,598,312	1,973,335	6,571,647
TOTAL COST					35,253,727	15,128,904	50,382,631

Manual routine maintenance of road	Km	4.0	152,384	7,248	609,536	28,992	638,528
Routine maintenance of gravel road	Km	4.0	203,196	88,047	812,784	352,188	1,164,972
Sub Total					1,422,320	381,180	1,803,500
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	24.5	7,858	2,404	192,521	58,898	251,419
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	12,595,658
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	5,293,120
Maintenance Rate without Bridge	(%)	:	3.58
New Bridge Cost Rate	(%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 74 (IIIB-1) LENGTH : 7 Km

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

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL FOREIGN	LOCAL	FOREIGN	COST LOCAL FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	49000.0	22	11	1,078,000	539,000	1,617,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	1358.0	1,051	522	1,422,250	708,876	2,136,134
Sub Base Course	m3	3920.0	3,379	1,347	13,245,680	5,280,240	18,525,920
Base Course	m3	1960.0	4,637	2,299	9,088,520	4,506,040	13,594,560
Shoulder	m2	21000.0	314	146	6,594,000	3,066,000	9,660,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	28000.0	621	595	17,388,000	16,660,000	34,048,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	11000.0	939	119	10,329,000	1,309,000	11,638,000
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 880cm	m	50.0	46,069	51,386	2,303,450	2,569,300	4,872,750
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	9.6	46,111	11,868	442,665	113,932	556,597
Babion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					61,896,573	34,752,388	96,648,961
Overhead (15%)					9,284,485	5,212,858	14,497,343
TOTAL COST					71,181,058	39,965,246	111,146,304

Manual routine maintenance of road	Km	7.0	152,384	7,248	1,066,688	50,736	1,117,424
Routine maintenance of asphalt road	Km	7.0	390,000	137,700	2,730,000	963,900	3,693,900
Sub Total					3,796,688	1,014,636	4,811,324
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	131.3	7,858	2,404	1,031,362	315,525	1,346,887
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	15,878,044
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	15,687,056
Maintenance Rate without Bridge		(%)	:	4.33
New Bridge Cost Rate		(%)	:	

PROV : KALIMANTAN SELATAN KAB : TAPALONG

LINK NO : 72 (IIB-1) LENGTH : 10 Km

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

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>>
			LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	14000.0	22	11	308,000	154,000	462,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	378.0	1,051	522	397,278	197,316	594,594
Sub Base Course	m3	2876.0	3,379	1,347	9,718,004	3,873,972	13,591,976
Base Course	m3	2800.0	4,637	2,299	12,983,600	6,437,200	19,420,800
Shoulder	m2	30000.0	314	146	9,420,000	4,380,000	13,800,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	40000.0	621	595	24,840,000	23,800,000	48,640,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	10500.0	939	119	9,859,500	1,249,500	11,109,000
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 80cm	m	80.0	46,069	51,386	3,685,520	4,110,880	7,796,400
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	19.2	46,111	11,868	885,331	227,865	1,113,196
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	2,980,123	400,728	3,380,851
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					75,077,356	44,831,461	119,908,817
Overhead (15%)					11,261,603	6,724,719	17,986,322
TOTAL COST					86,338,959	51,556,180	137,895,139

Manual routine maintenance of road	Km	10.0	152,384	7,248	1,523,840	72,480	1,596,320
Routine maintenance of asphalt road	Km	10.0	390,000	137,700	3,900,000	1,377,000	5,277,000
Sub Total					5,423,840	1,449,480	6,873,320
Maintenance of Timber Bridge (New)	m2	18.0	7,532	1,121	135,576	20,178	155,754
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	22.8	7,858	2,404	178,769	54,691	233,460
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	13,400,716
Timber Bridge Unit Cost (Rp/m2)	:	215,999
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	13,398,543
Maintenance Rate without Bridge (%)	:	5.13
New Bridge Cost Rate (%)	:	2.82

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 70 (IIIB-1) LENGTH : 10 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> FOREIGN	<<<<< LOCAL	COST FOREIGN	>>>>> TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	56000.0	22	11	1,232,000	616,000	1,848,000
Normal Fill	m3	9500.0	1,796	863	17,062,000	8,198,500	25,260,500
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	3486.0	1,051	522	3,663,786	1,819,692	5,483,478
Sub Base Course	m3	4952.0	3,379	1,347	16,732,808	6,670,344	23,403,152
Base Course	m3	2800.0	4,637	2,299	12,983,600	6,437,200	19,420,800
Shoulder	m2	30000.0	314	146	9,420,000	4,380,000	13,800,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	40000.0	621	595	24,840,000	23,800,000	48,640,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	10200.0	939	119	9,577,800	1,213,800	10,791,600
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 800cm	m	50.0	46,069	51,386	2,303,450	2,569,300	4,872,750
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	6.4	46,111	11,868	295,110	75,955	371,065
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					98,110,554	55,780,791	153,891,345
Overhead (15%)					14,716,583	8,367,118	23,083,701
TOTAL COST					112,827,137	64,147,909	176,975,046

Manual routine maintenance of road	Km	10.0	152,384	7,248	1,523,840	72,480	1,596,320
Routine maintenance of asphalt road	Km	10.0	390,000	137,700	3,900,000	1,377,000	5,277,000
Sub Total					5,423,840	1,449,480	6,873,320
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	12.3	7,858	2,404	96,260	29,449	125,709
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	17,697,505
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	20,266,366
Maintenance Rate without Bridge (%)	:	3.88
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 69 (IIB-1) LENGTH : 8 Km

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

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	12000.0	174	91	2,088,000	1,092,000	3,180,000
Subgrade Preparation	m2	6500.0	22	11	143,000	71,500	214,500
Normal Fill	m3	9000.0	1,796	863	16,164,000	7,767,000	23,931,000
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	1080.0	1,051	522	1,135,080	563,760	1,698,840
Sub Base Course	m3	1664.0	3,379	1,347	5,622,656	2,241,408	7,864,064
Base Course	m3	2240.0	4,637	2,299	10,386,080	5,149,760	15,536,640
Shoulder	m2	20000.0	314	146	6,280,000	2,920,000	9,200,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	32000.0	621	595	19,872,000	19,040,000	38,912,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	2000.0	939	119	1,878,000	238,000	2,116,000
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert Ø80cm	m	10.0	46,069	51,386	460,690	513,860	974,550
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111	11,868	0	0	0
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	3,769,316	474,478	4,243,794
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					67,799,622	40,071,766	107,871,388
Overhead ( 15% )					10,169,943	6,010,764	16,180,707
TOTAL COST					77,969,565	46,082,530	124,052,095

Manual routine maintenance of road	Km	8.0	152,384	7,248	1,219,072	57,984	1,277,056
Routine maintenance of asphalt road	Km	8.0	390,000	137,700	3,120,000	1,101,600	4,221,600
Sub Total					4,339,072	1,159,584	5,498,656
Maintenance of Timber Bridge (New)	m2	26.0	7,532	1,121	195,832	29,146	224,978
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	14,896,467
Timber Bridge Unit Cost (Rp/m2)	:	187,706
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	8,612,172
Maintenance Rate without Bridge (%)	:	4.61
New Bridge Cost Rate (%)	:	3.93

PROV : KALIMANTAN SELATAN KAB : TAPALONG

LINK NO : 67 (IIC) LENGTH : 2 Km

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

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL FOREIGN	LOCAL	FOREIGN	COST LOCAL FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	12000.0	22	11	264,000	132,000	396,000
Normal Fill	m3	3200.0	1,796	863	5,747,200	2,761,600	8,508,800
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	1872.0	1,051	522	1,967,472	977,184	2,944,656
Sub Base Course	m3	1280.0	3,379	1,347	4,325,120	1,724,160	6,049,280
Base Course	m3	0.0	4,637	2,299	0	0	0
Shoulder	m2	4000.0	314	146	1,256,000	584,000	1,840,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	3000.0	939	119	2,817,000	357,000	3,174,000
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert D80cm	m	15.0	46,069	51,306	691,035	770,790	1,461,825
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	3.2	46,111	11,868	147,555	37,977	185,532
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					17,215,382	7,344,711	24,560,093
Overhead (15%)					2,582,307	1,101,706	3,684,013
TOTAL COST					19,797,689	8,446,417	28,244,106

Manual routine maintenance of road	Km	2.0	152,384	7,248	304,768	14,496	319,264
Routine maintenance of gravel road	Km	2.0	203,196	88,047	406,392	176,094	582,486
Sub Total					711,160	190,590	901,750
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	59.5	7,858	2,404	467,551	143,038	610,589
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	14,122,053
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	2,419,712
Maintenance Rate without Bridge (%)	:	3.19
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 66 (IIB-2) LENGTH : 8 Km

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

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL FOREIGN	LOCAL	FOREIGN	COST LOCAL FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	48000.0	22	11	1,056,000	528,000	1,584,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	1476.0	1,051	522	1,551,276	770,472	2,321,748
Sub Base Course	m3	4480.0	3,379	1,347	15,137,920	6,034,560	21,172,480
Base Course	m3	1920.0	4,637	2,299	8,903,040	4,414,080	13,317,120
Shoulder	m2	16000.0	314	146	5,024,000	2,336,000	7,360,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	11100.0	939	119	10,422,900	1,320,900	11,743,800
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 80cm	m	0.0	46,069	51,386	0	0	0
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111	11,868	0	0	0
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					42,095,136	15,404,012	57,499,148
Overhead ( 15% )					6,314,270	2,310,601	8,624,871
TOTAL COST					48,409,406	17,714,613	66,124,019

Manual routine maintenance of road	Km	8.0	152,384	7,248	1,219,072	57,984	1,277,056
Routine maintenance of gravel road	Km	8.0	203,196	88,047	1,625,568	704,376	2,329,944
Sub Total					2,844,640	762,360	3,607,000
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	110.4	7,858	2,404	867,130	265,281	1,132,411
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	8,265,503
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	10,586,240
Maintenance Rate without Bridge	(%)	:	5.45
New Bridge Cost Rate	(%)	:	



PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 65 (IIIB-2) LENGTH : 9 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	54000.0	22	11	1,188,000	594,000	1,782,000
Normal Fill	m3	950.0	1,796	863	1,706,200	819,850	2,526,050
Fill in Swamp	m3	0.0	2,658	1,052	0	0	0
Normal Excavation to Spoil	m3	5700.0	1,051	522	5,990,700	2,975,400	8,966,100
Sub Base Course	m3	5040.0	3,379	1,347	17,030,160	6,788,880	23,819,040
Base Course	m3	2160.0	4,637	2,299	10,015,920	4,965,840	14,981,760
Shoulder	m2	18000.0	314	146	5,652,000	2,628,000	8,280,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	13700.0	939	119	12,864,300	1,630,300	14,494,600
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert Ø80cm	m	80.0	46,069	51,386	3,685,520	4,110,880	7,796,400
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	16.0	46,111	11,868	737,776	189,888	927,664
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					58,870,576	24,703,030	83,573,614
Overhead ( 15% )					8,830,586	3,705,455	12,536,041
TOTAL COST					67,701,162	28,408,485	96,109,655

Manual routine maintenance of road	Ka	9.0	152,384	7,248	1,371,456	65,232	1,436,688
Routine maintenance of gravel road	Ka	9.0	203,196	88,047	1,828,764	792,423	2,621,187
Sub Total					3,200,220	857,655	4,057,875
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	108.5	7,858	2,404	852,593	260,834	1,113,427
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	10,678,851
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	11,909,520
Maintenance Rate without Bridge		(%)	:	4.22
New Bridge Cost Rate		(%)	:	

PROV : KALIMANTAN SELATAN KAB : TARALONG

LINK NO : 61 (IIB-1) LENGTH : 2 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	6000.0	174	91	1,044,000	546,000	1,590,000
Subgrade Preparation	m2	14000.0	22	11	308,000	154,000	462,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	324.0	1,051	522	340,524	169,128	509,652
Sub Base Course	m3	1120.0	3,379	1,347	3,784,480	1,508,640	5,293,120
Base Course	m3	560.0	4,637	2,299	2,596,720	1,287,440	3,884,160
Shoulder	m2	6000.0	314	146	1,884,000	876,000	2,760,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	8000.0	621	595	4,968,000	4,760,000	9,728,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	3600.0	939	119	3,380,400	428,400	3,808,800
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert Ø80cm	m	20.0	46,069	51,386	921,380	1,027,720	1,949,100
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	6.4	46,111	11,868	295,110	75,955	371,065
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	6,128,081	691,773	6,819,854
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					25,650,695	11,525,056	37,175,751
Overhead (15%)					3,847,604	1,728,758	5,576,362
TOTAL COST					29,498,299	13,253,814	42,752,113

Manual routine maintenance of road	Km	2.0	152,384	7,248	304,768	14,496	319,264
Routine maintenance of asphalt road	Km	2.0	390,000	137,700	780,000	275,400	1,055,400
Sub Total					1,084,768	289,896	1,374,664
Maintenance of Timber Bridge (New)	m2	58.4	7,532	1,121	439,868	65,466	505,334
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	17,454,641
Timber Bridge Unit Cost (Rp/m2)	:	134,295
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	4,482,016
Maintenance Rate without Bridge (%)	:	3.94
New Bridge Cost Rate (%)	:	18.34

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 54 (IIIB-1) LENGTH : 5 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	35000.0	22	11	770,000	385,000	1,155,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	714.0	1,051	522	750,414	372,708	1,123,122
Sub Base Course	m3	2800.0	3,379	1,347	9,461,200	3,771,600	13,232,800
Base Course	m3	1400.0	4,637	2,299	6,491,800	3,218,600	9,710,400
Shoulder	m2	15000.0	314	146	4,710,000	2,190,000	6,900,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	20000.0	621	595	12,420,000	11,900,000	24,320,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	2900.0	939	119	2,723,100	345,100	3,068,200
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert DBQca	m	10.0	46,069	51,386	460,690	513,860	974,550
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111	11,868	0	0	0
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0

Sub Total 37,787,204 22,696,868 60,484,072

Overhead (15%) 5,668,080 3,404,530 9,072,610

TOTAL COST 43,455,284 26,101,398 69,556,682

Manual routine maintenance of road	Km	5.0	152,384	7,248	761,920	36,240	798,160
Routine maintenance of asphalt road	Km	5.0	390,000	137,700	1,950,000	689,500	2,639,500
			Sub Total		2,711,920	724,740	3,436,660
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	49.0	7,858	2,404	385,042	117,796	502,838
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km) : 13,911,337  
 Timber Bridge Unit Cost (Rp/m2) :  
 Concrete Bridge Unit Cost (Rp/m2) :  
 Survived Value (Rp) : 11,205,040  
 Maintenance Rate without Bridge (X) : 4.94  
 New Bridge Cost Rate (X) :

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 53 (IIB-1) LENGTH : 3 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<< COST >>>>		
			LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Site Clearance in Light Bush	m2	1500.0	174	91	261,000	136,500	397,500
Subgrade Preparation	m2	19500.0	22	11	429,000	214,500	643,500
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	32.1	2,656	1,052	85,257	33,769	119,026
Normal Excavation to Spoil	m3	492.0	1,051	522	517,092	256,824	773,916
Sub Base Course	m3	1680.0	3,379	1,347	5,676,720	2,262,960	7,939,680
Base Course	m3	840.0	4,637	2,299	3,895,080	1,931,160	5,826,240
Shoulder	m2	7500.0	314	146	2,355,000	1,095,000	3,450,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	12000.0	621	595	7,452,000	7,140,000	14,592,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	660.0	939	119	563,400	71,400	634,800
Earth Drain in Swamp (by machine)	m3	300.0	1,271	474	381,300	142,200	523,500
Pipe Culvert Ø80cm	m	0.0	46,069	51,386	0	0	0
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	60.0	46,111	11,868	2,766,660	712,080	3,478,740
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					24,382,509	13,996,393	38,378,902
Overhead ( 15% )					3,657,376	2,099,458	5,756,834
TOTAL COST					28,039,885	16,095,851	44,135,736

Manual routine maintenance of road	Km	3.0	152,384	7,248	457,152	21,744	478,896
Routine maintenance of asphalt road	Km	3.0	390,000	137,700	1,170,000	413,100	1,583,100
Sub Total					1,627,152	434,844	2,061,996
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,850	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	14,711,912
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	6,723,024
Maintenance Rate without Bridge (I)	:	4.67
New Bridge Cost Rate (I)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 46 (IIIB-1) LENGTH : 6 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	9000.0	174	91	1,566,000	819,000	2,385,000
Subgrade Preparation	m2	39000.0	22	11	858,000	429,000	1,287,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,856	1,052	0	0	0
Normal Excavation to Spoil	m3	2262.0	1,051	522	2,377,362	1,180,764	3,558,126
Sub Base Course	m3	3360.0	3,379	1,347	11,353,440	4,525,920	15,879,360
Base Course	m3	1680.0	4,637	2,299	7,790,160	3,862,320	11,652,480
Shoulder	m2	15000.0	314	146	4,710,000	2,190,000	6,900,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	24000.0	621	595	14,904,000	14,280,000	29,184,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	7600.0	939	119	7,136,400	904,400	8,040,800
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert (80cm)	m	0.0	46,069	51,386	0	0	0
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	30.0	46,111	11,868	1,383,330	356,040	1,739,370
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					52,078,692	28,547,444	80,626,136
Overhead (15%)					7,811,803	4,282,116	12,093,919
TOTAL COST					59,890,495	32,829,560	92,720,055

Manual routine maintenance of road	Km	6.0	152,384	7,248	914,304	43,488	957,792
Routine maintenance of asphalt road	Km	6.0	390,000	137,700	2,340,000	826,200	3,166,200
Sub Total					3,254,304	869,688	4,123,992
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	243.3	7,858	2,404	1,911,458	584,723	2,496,231
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	15,453,343
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	13,446,048
Maintenance Rate without Bridge (%)	:	4.45
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 41 (IIIB-1) LENGTH : 7 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	7290.0	22	11	160,380	80,190	240,570
Normal Fill	m3	100.0	1,796	863	179,600	86,300	265,900
Fill in Swamp	m3	1817.0	2,656	1,052	4,825,952	1,911,484	6,737,436
Normal Excavation to Spoil	m3	2250.0	1,051	522	2,364,750	1,174,500	3,539,250
Sub Base Course	m3	1988.0	3,379	1,347	6,717,452	2,677,836	9,395,288
Base Course	m3	1960.0	4,637	2,299	9,088,520	4,506,040	13,594,560
Shoulder	m2	21000.0	314	146	6,594,000	3,066,000	9,660,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	28000.0	621	595	17,388,000	16,660,000	34,048,000
Surface Dressing (Double)	m2	0.0	177	936	0	0	0
Earth Drain	m	8400.0	939	119	7,887,600	999,600	8,887,200
Earth Drain in Swamp (by machine)	m3	5400.0	1,271	474	6,863,400	2,559,600	9,423,000
Pipe Culvert 880cm	m	30.0	46,069	51,386	1,382,070	1,541,580	2,923,650
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	800.0	10,758	246	8,606,400	196,800	8,803,200
Retaining Wall and Wing Wall (Masonry)	m3	3.2	46,111	11,868	147,555	37,977	185,532
Babion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					72,205,679	35,497,907	107,703,586
Overhead ( 15% )					10,830,851	5,324,686	16,155,537
TOTAL COST					83,036,530	40,822,593	123,859,123

Manual routine maintenance of road	Ka	7.0	152,384	7,248	1,066,688	50,736	1,117,424
Routine maintenance of asphalt road	Ka	7.0	390,000	137,700	2,730,000	963,900	3,693,900
Sub Total					3,796,688	1,014,636	4,811,324
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	61.3	7,858	2,404	481,302	147,245	628,547
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Ka)	:	17,694,161
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	9,295,613
Maintenance Rate without Bridge (X)	:	3.88
New Bridge Cost Rate (X)	:	

PROV : KALINANTAN SELATAN KAB : TABALONG

LINK NO : 40 (IIIA) LENGTH : 3 Km

UPGRADE : 7.5m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL FOREIGN	COST LOCAL FOREIGN TOTAL
Site Clearance in Light Bush	m2	0.0	174 91	0 0 0
Subgrade Preparation	m2	0.0	22 11	0 0 0
Normal Fill	m3	2000.0	1,796 863	3,592,000 1,726,000 5,318,000
Fill in Swamp	m3	0.0	2,656 1,052	0 0 0
Normal Excavation to Spoil	m3	800.0	1,051 522	840,800 417,600 1,258,400
Sub Base Course	m3	476.0	3,379 1,347	1,608,404 641,172 2,249,576
Base Course	m3	960.0	4,637 2,299	4,451,520 2,207,040 6,658,560
Shoulder	m2	10500.0	314 146	3,297,000 1,533,000 4,830,000
Asphalt Patching	m2	0.0	3,900 1,377	0 0 0
Surface Dressing (Single)	m2	0.0	621 595	0 0 0
Surface Dressing (Double)	m2	12000.0	777 936	9,324,000 11,232,000 20,556,000
Earth Drain	m	3200.0	939 119	3,004,800 380,800 3,385,600
Earth Drain in Swamp (by machine)	m3	0.0	1,271 474	0 0 0
Pipe Culvert 80cm	m	5.0	46,069 51,386	230,345 256,930 487,275
Masonry Culvert (80x80cm)	m	0.0	63,136 41,554	0 0 0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758 246	0 0 0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111 11,868	0 0 0
Gabion Protection	m3	0.0	13,146 120	0 0 0
New Bridge (Timber)	SET	1.0	-- --	0 0 0
New Bridge (Concrete)	SET	1.0	-- --	0 0 0
Sub Total				26,348,867 18,394,542 44,743,411
Overhead (15%)				3,952,330 2,759,181 6,711,511
TOTAL COST				30,301,199 21,153,723 51,454,922

Manual routine maintenance of road	Km	3.0	152,384 7,248	457,152 21,744 478,896
Routine maintenance of asphalt road	Km	3.0	390,000 137,700	1,170,000 413,100 1,583,100
Sub Total				1,627,152 434,844 2,061,996
Maintenance of Timber Bridge (New)	m2	0.0	7,532 1,121	0 0 0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864 3,135	0 0 0
Maintenance of Timber Bridge (Exist)	m2	44.1	7,858 2,404	346,537 106,016 452,553
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464 2,471	0 0 0

Earthwork & Pavement Unit Cost (Rp/Km)	:	17,151,641
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	3,464,300
Maintenance Rate without Bridge (%)	:	4.01
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 3B (IIB-1) LENGTH : 6 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		
			LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Sile Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	42000.0	22	11	924,000	462,000	1,386,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	9916.0	1,051	522	10,421,716	5,176,152	15,597,868
Sub Base Course	m3	3360.0	3,379	1,347	11,353,440	4,525,920	15,879,360
Base Course	m3	1680.0	4,637	2,299	7,790,160	3,862,320	11,652,480
Shoulder	m2	18000.0	314	146	5,652,000	2,628,000	8,280,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	24000.0	621	595	14,904,000	14,280,000	29,184,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	8300.0	939	119	7,793,700	987,700	8,781,400
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert Ø80cm	m	70.0	46,069	51,386	3,224,830	3,597,020	6,821,850
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	16.0	46,111	11,868	737,776	189,888	927,664
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	16,018,502	1,954,944	17,973,446
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					78,820,124	37,663,944	116,484,068
Overhead (15%)					11,823,018	5,649,591	17,472,609
TOTAL COST					90,643,142	43,313,535	133,956,677

Manual routine maintenance of road	Km	6.0	152,384	7,248	914,304	43,488	957,792
Routine maintenance of asphalt road	Km	6.0	390,000	137,700	2,340,000	826,200	3,166,200
Sub Total					3,254,304	869,688	4,123,992
Maintenance of Timber Bridge (New)	m2	126.0	7,532	1,121	949,032	141,246	1,090,278
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	18,881,203
Timber Bridge Unit Cost (Rp/m2)	:	164,043
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	13,446,048
Maintenance Rate without Bridge (X)	:	3.64
New Bridge Cost Rate (X)	:	15.43



PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 36 (IIIB-2) LENGTH : 7 Km

UPGRADE : 7.5m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		
			LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	52500.0	22	11	1,155,000	577,500	1,732,500
Normal Fill	m3	3050.0	1,796	863	5,477,800	2,632,150	8,109,950
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	9656.0	1,051	522	10,148,456	5,040,432	15,188,888
Sub Base Course	m3	3920.0	3,379	1,347	13,245,680	5,280,240	18,525,920
Base Course	m3	1680.0	4,637	2,299	7,790,160	3,862,320	11,652,480
Shoulder	m2	24500.0	314	146	7,693,000	3,577,000	11,270,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	800.0	939	119	751,200	95,200	846,400
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert Ø80cm	m	10.0	46,069	51,386	460,690	513,860	974,550
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111	11,868	0	0	0
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					46,721,986	21,578,702	68,300,688
Overhead (15%)					7,008,297	3,236,805	10,245,102
TOTAL COST					53,730,283	24,815,507	78,545,790

Manual routine maintenance of road	Km	7.0	152,384	7,248	1,066,688	50,736	1,117,424
Routine maintenance of gravel road	Km	7.0	203,196	88,047	1,422,372	616,329	2,038,701
Sub Total					2,489,060	667,065	3,156,125
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	43.8	7,858	2,404	343,787	105,175	448,962
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	11,220,827
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	9,262,960
Maintenance Rate without Bridge	(%)	:	4.02
New Bridge Cost Rate	(%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 31 (IIIB-1) LENGTH : 3 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	21000.0	22	11	462,000	231,000	693,000
Normal Fill	m3	4500.0	1,796	863	8,082,000	3,883,500	11,965,500
Fill in Swamp	m3	0.0	2,658	1,052	0	0	0
Normal Excavation to Spoil	m3	552.0	1,051	522	580,152	288,144	868,296
Sub Base Course	m3	1680.0	3,379	1,347	5,676,720	2,262,960	7,939,680
Base Course	m3	840.0	4,637	2,299	3,895,080	1,931,160	5,826,240
Shoulder	m2	9000.0	314	146	2,826,000	1,314,000	4,140,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	12000.0	621	595	7,452,000	7,140,000	14,592,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	4400.0	939	119	4,131,600	523,600	4,655,200
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 80cm	m	40.0	46,069	51,386	1,842,760	2,055,440	3,898,200
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	9.6	46,111	11,868	442,665	113,932	556,597
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					35,390,977	19,743,736	55,134,713
Overhead (15%)					5,308,646	2,961,560	8,270,206
TOTAL COST					40,699,623	22,705,296	63,404,919

Manual routine maintenance of road	Km	3.0	152,384	7,248	457,152	21,744	478,896
Routine maintenance of asphalt road	Km	3.0	390,000	137,700	1,170,000	413,100	1,583,100
Sub Total					1,627,152	434,844	2,061,996
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	21,134,973
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	6,723,024
Maintenance Rate without Bridge (%)	:	3.25
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 29 (IIIA) LENGTH : 1 Km

UPGRADE : 7.0m road bed, 4.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	7000.0	22	11	154,000	77,000	231,000
Normal Fill	m3	0.0	1,796	863	0	0	0
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	184.0	1,051	522	193,384	96,048	289,432
Sub Base Course	m3	560.0	3,379	1,347	1,892,240	754,320	2,646,560
Base Course	m3	320.0	4,637	2,299	1,483,840	735,680	2,219,520
Shoulder	m2	3000.0	314	146	942,000	438,000	1,380,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	4000.0	777	936	3,108,000	3,744,000	6,852,000
Earth Drain	m	1600.0	939	119	1,502,400	190,400	1,692,800
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 880cm	m	6.0	46,069	51,386	276,414	308,316	584,730
Masonry Culvert 180x80cm	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111	11,868	0	0	0
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					9,552,278	6,343,764	15,896,042
Overhead (1.152)					1,432,841	951,564	2,384,405
TOTAL COST					10,985,119	7,295,328	18,280,447

Manual routine maintenance of road	Km	1.0	152,384	7,248	152,384	7,248	159,632
Routine maintenance of asphalt road	Km	1.0	390,000	137,700	390,000	137,700	527,700
Sub Total					542,384	144,948	687,332
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	18,280,448
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	2,672,128
Maintenance Rate without Bridge (%)	:	3.76
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

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

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>>
			LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	23430.0	22	11	515,460	257,730	773,190
Normal Fill	m3	8500.0	1,796	863	15,266,000	7,335,500	22,601,500
Fill in Swamp	m3	720.0	2,656	1,052	1,912,320	757,440	2,669,760
Normal Excavation to Spoil	m3	676.0	1,051	522	710,476	352,872	1,063,348
Sub Base Course	m3	3588.0	3,379	1,347	12,123,852	4,833,036	16,956,888
Base Course	m3	3080.0	4,637	2,299	14,281,960	7,080,920	21,362,880
Shoulder	m2	33000.0	314	146	10,362,000	4,818,000	15,180,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	44000.0	621	595	27,324,000	26,180,000	53,504,000
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	14800.0	939	119	13,097,200	1,761,200	15,658,400
Earth Drain in Swamp (by machine)	m3	1800.0	1,271	474	2,287,800	853,200	3,141,000
Pipe Culvert 800cm	m	105.0	46,069	51,386	4,837,245	5,395,530	10,232,775
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	22.4	46,111	11,868	1,032,886	265,813	1,298,729
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					104,551,199	59,891,271	164,442,470
Overhead (15%)					15,682,679	8,983,690	24,666,369
TOTAL COST					120,233,878	68,874,961	189,108,839

Manual routine maintenance of road	Km	11.0	152,384	7,248	1,676,224	79,728	1,755,952
Routine maintenance of asphalt road	Km	11.0	390,000	137,700	4,290,000	1,514,700	5,804,700
Sub Total					5,966,224	1,594,428	7,560,652
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	100.8	7,858	2,404	792,086	242,323	1,034,409
Maintenance of Concrete Bridge (Exist)	m2	85.4	4,464	2,471	381,225	211,023	592,248

Earthwork & Pavement Unit Cost (Rp/Km)	:	17,191,713
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	16,142,397
Maintenance Rate without Bridge (%)	:	4.00
New Bridge Cost Rate (%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 28 (IIIB-2) LENGTH : 5 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	174	91	0	0	0
Subgrade Preparation	m2	0.0	22	11	0	0	0
Normal Fill	m3	4000.0	1,796	863	7,184,000	3,452,000	10,636,000
Fill in Swamp	m3	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m3	250.0	1,051	522	262,750	130,500	393,250
Sub Base Course	m3	1018.0	3,379	1,347	3,439,822	1,371,246	4,811,068
Base Course	m3	1200.0	4,637	2,299	5,564,400	2,758,800	8,323,200
Shoulder	m2	15000.0	314	146	4,710,000	2,190,000	6,900,000
Asphalt Patching	m2	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m2	0.0	621	595	0	0	0
Surface Dressing (Double)	m2	0.0	777	936	0	0	0
Earth Drain	m	3400.0	939	119	3,192,600	404,600	3,597,200
Earth Drain in Swamp (by machine)	m3	0.0	1,271	474	0	0	0
Pipe Culvert 880cm	m	0.0	46,069	51,386	0	0	0
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	46,111	11,868	0	0	0
Gabion Protection	m3	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					24,353,572	10,307,146	34,660,718
Overhead ( 15% )					3,653,035	1,546,071	5,199,106
TOTAL COST					28,006,607	11,853,217	39,859,824

Manual routine maintenance of road	Km	5.0	152,384	7,248	761,920	36,240	798,160
Routine maintenance of gravel road	Km	5.0	203,196	88,047	1,015,980	440,235	1,456,215
Sub Total					1,777,900	476,475	2,254,375
Maintenance of Timber Bridge (New)	m2	0.0	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,464	2,471	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	7,971,965
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	2,405,534
Maintenance Rate without Bridge		(%)	:	5.66
New Bridge Cost Rate		(%)	:	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 23 (IIIB-1) LENGTH : 5 Km

UPGRADE : 9.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST LOCAL FOREIGN	LOCAL	FOREIGN	COST LOCAL FOREIGN	TOTAL
Site Clearance in Light Bush	m <sup>2</sup>	0.0	174	91	0	0	0
Subgrade Preparation	m <sup>2</sup>	36000.0	22	11	792,000	396,000	1,188,000
Normal Fill	m <sup>3</sup>	0.0	1,796	863	0	0	0
Fill in Swamp	m <sup>3</sup>	0.0	2,656	1,052	0	0	0
Normal Excavation to Spoil	m <sup>3</sup>	688.0	1,051	522	723,088	359,136	1,082,224
Sub Base Course	m <sup>3</sup>	2505.0	3,379	1,347	8,464,395	3,374,235	11,838,630
Base Course	m <sup>3</sup>	1400.0	4,637	2,299	6,491,800	3,218,600	9,710,400
Shoulder	m <sup>2</sup>	25000.0	314	146	7,850,000	3,650,000	11,500,000
Asphalt Patching	m <sup>2</sup>	0.0	3,900	1,377	0	0	0
Surface Dressing (Single)	m <sup>2</sup>	20000.0	621	595	12,420,000	11,900,000	24,320,000
Surface Dressing (Double)	m <sup>2</sup>	0.0	777	936	0	0	0
Earth Drain	m	2900.0	939	119	2,723,100	345,100	3,068,200
Earth Drain in Swamp (by machine)	m <sup>3</sup>	0.0	1,271	474	0	0	0
Pipe Culvert 880cm	m	0.0	46,069	51,386	0	0	0
Masonry Culvert (80x80cm)	m	0.0	63,136	41,554	0	0	0
Retaining Wall and Wing Wall (Timber)	m <sup>2</sup>	0.0	10,758	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m <sup>3</sup>	0.0	46,111	11,868	0	0	0
Gabion Protection	m <sup>3</sup>	0.0	13,146	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	3,589,848	459,519	4,049,367
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					43,054,231	23,702,590	66,756,821
Overhead (15%)					6,458,134	3,555,388	10,013,522
TOTAL COST					49,512,365	27,257,978	76,770,343

Manual routine maintenance of road	Km	5.0	152,384	7,248	761,920	36,240	798,160
Routine maintenance of asphalt road	Km	5.0	390,000	137,700	1,950,000	688,500	2,638,500
Sub Total					2,711,920	724,740	3,436,660
Maintenance of Timber Bridge (New)	m <sup>2</sup>	24.0	7,532	1,121	180,768	26,904	207,672
Maintenance of Concrete Bridge (New)	m <sup>2</sup>	0.0	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m <sup>2</sup>	0.0	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m <sup>2</sup>	0.0	4,464	2,471	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,422,714
Timber Bridge	Unit Cost	(Rp/m <sup>2</sup> )	:	194,032
Concrete Bridge	Unit Cost	(Rp/m <sup>2</sup> )	:	
Survived Value		(Rp)	:	10,229,121
Maintenance Rate without Bridge		(%)	:	4.77
New Bridge Cost Rate		(%)	:	6.07

## Appendix A-4

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

PROV : KALIMANTAN SELATAN

KAB : TABALONG

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>							
Bulldozer/Ripper	hr	302.4	1272.7	1465.2	1171.7	1778.9	5990.9
Swamp Bulldozer	hr	0.0	0.0	24.0	73.5	60.5	158.0
Motor Grader	hr	675.4	1185.0	1699.5	1632.5	1279.4	6471.8
Hand-guide Vib. Roller	hr	106.5	213.7	211.5	681.7	323.0	1536.4
Tire Roller	hr	411.0	799.9	599.9	533.3	599.9	2944.0
Vibratory Roller (D&I)	hr	529.4	1349.2	1753.0	1529.7	1628.6	6789.9
Hydraulic Excavator; Wheel	hr	0.0	0.0	135.0	1147.5	405.0	1687.5
Wheel Loader	hr	872.2	1901.4	2544.8	2551.5	2291.9	10161.8
Water Tank Truck	hr	331.8	790.6	1074.1	1005.9	907.6	4110.0
Dump Truck	hr	6948.5	15861.7	21304.0	21858.1	17903.0	83875.3
Flat Bed Truck with Crane	hr	58.0	178.9	186.3	548.5	296.2	1267.9
Flat Bed Truck	hr	525.1	1036.6	796.3	866.1	815.7	4039.8
Portable Crusher/Screening	hr	166.0	324.8	398.8	329.8	363.7	1583.1
Concrete Mixer	hr	19.0	45.4	59.1	101.8	35.3	260.6
Water Pump	hr	13.0	39.7	50.8	80.9	30.8	215.2
Concrete Vibrator	hr	1.0	28.2	34.2	39.0	21.9	124.3
Asphalt Sprayer	hr	411.0	799.9	599.9	533.3	599.9	2944.0
<b>LABOUR :</b>							
Handur	man day	620.7	1446.9	1794.3	2384.4	1646.7	7893.0
Skilled Labourer	man day	566.8	851.2	498.4	3167.9	2057.6	7141.9
Carpenter	man day	169.5	146.6	11.4	1457.6	882.1	2667.2
Mason	man day	30.0	28.8	41.6	104.8	22.4	227.6
Labourer	man day	6876.8	16641.7	21238.5	23847.3	15562.4	84166.7
Driver	man day	1431.6	3246.5	4151.9	4322.5	3590.2	16742.7
Operator	man day	703.6	1565.1	1975.0	2093.7	1886.3	8223.7
<b>MATERIAL :</b>							
Bitumen	l	85999.9	169166.6	122999.9	109333.3	122999.9	610499.6
Asphalt Oil	l	16499.9	31733.3	24600.0	21866.6	24600.0	119299.8
Kerosene	l	20099.9	39066.6	29399.9	26133.3	29399.9	144099.6
Sand	m3	254.0	608.2	541.6	544.3	475.0	2423.1
Cement	bag	26.4	423.4	515.8	609.8	328.5	1903.9
River Stone	m3	30.0	28.8	41.6	104.8	22.4	227.6
Steel Houlds	set	6.0	165.0	200.0	228.0	128.0	727.0
Timber	m3	15.3	12.3	0.0	131.1	97.3	256.0
Paint	l	115.0	97.4	0.0	931.8	344.8	1489.0
Reinforcing Steel	kg	191.4	5263.5	6380.0	7273.2	4083.2	23191.3
Tying Wire	kg	1.7	47.8	58.0	66.1	37.1	210.7
Equivalent Royalty	m3	12304.2	22745.7	32490.7	35001.8	24047.3	126589.7

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

PROV : KALIMANTAN SELATAN KAB : TABALONG

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>							
Bulldozer/Ripper	hr	0.0	0.0	0.0	0.0	0.0	0.0
Swamp Bulldozer	hr	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader	hr	308.2	597.7	613.5	678.5	701.5	2899.4
Hand-guide Vib. Roller	hr	225.0	630.0	975.0	1245.0	1485.0	4560.0
Tire Roller	hr	308.2	597.7	613.5	678.5	701.5	2899.4
Vibratory Roller (D&T)	hr	0.0	0.0	0.0	0.0	0.0	0.0
Hydraulic Excavator; Wheel	hr	0.0	0.0	0.0	0.0	0.0	0.0
Wheel Loader	hr	62.6	137.0	169.5	219.0	253.5	841.6
Water Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Dump Truck	hr	826.1	2081.6	2965.4	3802.7	4489.6	14165.4
Flat Bed Truck with Crane	hr	2195.4	4505.6	4687.1	5189.7	5324.7	21902.5
Flat Bed Truck	hr	1370.2	2811.7	3145.5	3594.6	3863.6	14785.6
Portable Crusher/Screening	hr	31.7	69.6	86.5	111.8	129.5	429.1
Concrete Mixer	hr	0.0	0.0	0.0	0.3	0.3	0.6
Water Pump	hr	0.0	0.0	0.0	0.3	0.3	0.6
Concrete Vibrator	hr	0.0	0.0	0.0	0.3	0.3	0.6
Asphalt Sprayer	hr	0.0	0.0	0.0	0.0	0.0	0.0
<b>LABOUR :</b>							
Handur	man day	574.0	1241.5	1479.3	1732.0	1909.2	6936.0
Skilled Labourer	man day	759.4	1670.8	1964.4	2258.3	2459.1	9112.0
Carpenter	man day	327.2	671.5	705.7	766.5	788.5	3259.4
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	6169.5	13431.3	16231.9	19133.4	21219.7	76185.8
Driver	man day	835.7	1779.3	2021.4	2341.9	2530.0	9508.3
Operator	man day	123.8	245.5	261.8	300.2	319.6	1250.9
<b>MATERIAL :</b>							
Bitumen	l	2025.0	5670.0	8775.0	11205.0	13365.0	41040.0
Asphalt Oil	l	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	l	225.0	630.0	975.0	1245.0	1485.0	4560.0
Sand	m <sup>3</sup>	37.5	105.0	162.5	207.8	247.8	760.6
Cement	bag	0.0	0.0	0.0	4.5	4.5	9.0
River Stone	m <sup>3</sup>	0.0	0.0	0.0	0.0	0.0	0.0
Steel Moulds	set	0.0	0.0	0.0	0.0	0.0	0.0
Timber	m <sup>3</sup>	29.7	61.0	64.1	67.5	71.5	295.8
Paint	l	211.9	435.0	457.1	496.0	510.2	2110.2
Reinforcing Steel	kg	0.0	0.0	0.0	23.5	23.5	47.0
Tying Wire	kg	0.0	0.0	0.0	0.2	0.2	0.4
Equivalent Royalty	m <sup>3</sup>	888.7	1941.7	2400.0	3102.5	3591.5	11924.4



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

PROV : KALINANTAN SELATAN

KAB : TABALONG

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>							
Bulldozer/Ripper	hr	302.4	1272.7	1465.2	1171.7	1778.9	5990.9
Swamp Bulldozer	hr	0.0	0.0	24.0	73.5	60.5	158.0
Motor Grader	hr	983.6	1782.7	2313.0	2311.0	1980.9	9371.2
Hand-guide Vib. Roller	hr	331.5	843.7	1186.5	1926.7	1808.0	6096.4
Tire Roller	hr	719.2	1397.6	1213.4	1211.8	1301.4	5843.4
Vibratory Roller (D&I)	hr	529.4	1349.2	1753.0	1529.7	1628.6	6789.9
Hydraulic Excavator; Wheel	hr	0.0	0.0	135.0	1147.5	405.0	1687.5
Wheel Loader	hr	934.8	2038.4	2714.3	2770.5	2545.4	11003.4
Water Tank Truck	hr	331.8	790.6	1074.1	1005.9	907.6	4110.0
Dump Truck	hr	7774.6	17943.3	24269.4	25660.8	22392.6	98040.7
Flat Bed Truck with Crane	hr	2253.4	4684.5	4873.4	5738.2	5620.9	23170.4
Flat Bed Truck	hr	1895.3	3848.3	3941.8	4460.7	4679.3	18825.4
Portable Crusher/Screening	hr	197.7	394.4	485.3	441.6	493.2	2012.2
Concrete Mixer	hr	19.0	45.4	59.1	102.1	35.6	261.2
Water Pump	hr	13.0	39.7	50.8	81.2	31.1	215.8
Concrete Vibrator	hr	1.0	28.2	34.2	39.3	22.2	124.9
Asphalt Sprayer	hr	411.0	799.9	599.9	533.3	599.9	2944.0
<b>LABOUR :</b>							
Mandur	man day	1194.7	2688.4	3273.6	4116.4	3555.9	14829.0
Skilled Labourer	man day	1326.2	2522.0	2462.8	5426.2	4516.7	16253.9
Carpenter	man day	496.7	818.1	717.1	2224.1	1670.6	5926.6
Mason	man day	30.0	28.8	41.6	104.8	22.4	227.6
Labourer	man day	13046.3	30073.0	37470.4	42980.7	36782.1	160352.5
Driver	man day	2267.3	5025.8	6173.3	6664.4	6120.2	26251.0
Operator	man day	827.4	1810.6	2236.8	2393.9	2205.9	9474.6
<b>MATERIAL :</b>							
Bitumen	l	88024.9	174836.6	131774.9	120538.3	136364.9	651539.6
Asphalt Oil	l	16499.9	31733.3	24600.0	21866.6	24600.0	119299.8
Kerosene	l	20324.9	39696.6	30374.9	27378.3	30884.9	148659.6
Sand	m <sup>3</sup>	291.5	713.2	704.1	752.1	722.8	3183.7
Cement	bag	26.4	423.4	515.8	614.3	333.0	1912.9
River Stone	m <sup>3</sup>	30.0	28.8	41.6	104.8	22.4	227.6
Steel Moulds	set	6.0	165.0	200.0	228.0	128.0	727.0
Timber	m <sup>3</sup>	45.0	73.3	64.1	200.6	168.8	551.8
Paint	l	326.9	532.4	457.1	1427.8	855.0	3599.2
Reinforcing Steel	kg	191.4	5263.5	6380.0	7296.7	4106.7	23238.3
Tying Wire	kg	1.7	47.8	58.0	66.3	37.3	211.1
Equivalent Royalty	m <sup>3</sup>	13192.9	24687.4	34890.7	38104.3	27638.8	138514.1

## Appendix A-5

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

PROV : KALIMANTAN SELATAN

KAB : TABALONG

( 1000 Rp )

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>							
		90,152	205,313	264,057	273,110	241,002	1,073,634
Bulldozer/Ripper	16575	5,012	21,095	24,285	19,420	29,485	99,297
Swamp Bulldozer	12151	0	0	291	893	735	1,919
Motor Grader	14080	9,509	16,684	23,928	22,985	18,013	91,119
Hand-guide Vib. Roller	1593	169	340	336	1,085	514	2,444
Tire Roller	11568	4,754	9,253	6,939	6,169	6,939	34,054
Vibratory Roller (D&T)	7004	3,707	9,449	12,278	10,714	11,406	47,554
Hydraulic Excavator; Wheel	13375	0	0	1,805	15,347	5,416	22,568
Wheel Loader	17227	15,025	32,755	43,839	43,954	39,482	175,055
Water Tank Truck	4251	1,410	3,360	4,565	4,276	3,858	17,469
Dump Truck	5727	39,794	90,839	122,008	125,181	102,530	480,352
Flat Bed Truck with Crane	5336	309	954	994	2,926	1,580	6,763
Flat Bed Truck	3636	1,909	3,769	2,895	3,149	2,965	14,687
Portable Crusher/Screening	45428	7,541	14,755	18,116	14,982	16,522	71,916
Concrete Mixer	8693	165	394	513	884	306	2,262
Water Pump	501	6	19	25	40	15	105
Concrete Vibrator	336	0	9	11	13	7	40
Asphalt Sprayer	2049	842	1,638	1,229	1,092	1,229	6,030
<b>LABOUR :</b>							
		24,075	54,769	67,733	86,554	60,469	293,600
Handur	2500	1,551	3,617	4,485	5,961	4,116	19,730
Skilled Labourer	2500	1,417	2,128	1,246	7,919	5,144	17,854
Carpenter	3000	508	439	34	4,372	2,646	7,999
Mason	3000	90	86	124	314	67	681
Labourer	2000	13,753	33,283	42,477	47,694	31,124	168,331
Driver	3000	4,294	9,739	12,455	12,967	10,770	50,225
Operator	3500	2,462	5,477	6,912	7,327	6,602	28,780
<b>MATERIAL :</b>							
		49,234	102,386	83,779	93,792	86,909	416,100
Bitumen	300	25,799	50,749	36,899	32,799	36,899	183,145
Asphalt Oil	700	11,549	22,213	17,220	15,306	17,220	83,508
Kerosene	250	5,024	9,766	7,349	6,533	7,349	36,021
Sand	6000	1,524	3,649	3,249	3,265	2,850	14,537
Cement	5000	132	2,117	2,579	3,049	1,642	9,519
River Stone	7500	225	216	312	786	168	1,707
Steel Moulds	8000	48	1,320	1,600	1,824	1,024	5,816
Timber	90000	1,377	1,107	0	11,799	8,757	23,040
Paint	2500	287	243	0	2,329	862	3,721
Reinforcing Steel	1000	191	5,263	6,380	7,273	4,083	23,190
Tying Wire	1200	2	57	69	79	44	251
Equivalent Royalty	250	3,076	5,686	8,122	8,750	6,011	31,645

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

PROV : KALIMANTAN SELATAN

KAB : TABALONG

( 1000 Rp )

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>		32,207	68,038	77,564	90,775	98,778	367,362
Bulldozer/Ripper	16575	0	0	0	0	0	0
Swamp Bulldozer	12151	0	0	0	0	0	0
Motor Grader	14080	4,339	8,415	8,638	9,553	9,877	40,822
Hand-guide Vib. Roller	1593	358	1,003	1,553	1,983	2,365	7,262
Tire Roller	11568	3,565	6,914	7,096	7,848	8,114	33,537
Vibratory Roller (D&T)	7004	0	0	0	0	0	0
Hydraulic Excavator; Wheel	13375	0	0	0	0	0	0
Wheel Loader	17227	1,078	2,360	2,919	3,772	4,367	14,496
Water Tank Truck	4251	0	0	0	0	0	0
Dump Truck	5727	4,731	11,921	16,982	21,778	25,711	81,123
Flat Bed Truck with Crane	5336	11,714	24,041	25,010	27,692	28,412	116,869
Flat Bed Truck	3636	4,982	10,223	11,437	13,069	14,048	53,759
Portable Crusher/Screening	45428	1,440	3,161	3,929	5,078	5,882	19,490
Concrete Mixer	8693	0	0	0	2	2	4
Water Pump	501	0	0	0	0	0	0
Concrete Vibrator	336	0	0	0	0	0	0
Asphalt Sprayer	2049	0	0	0	0	0	0
<b>LABOUR :</b>		19,593	42,352	50,169	58,615	64,432	235,161
Mandur	2500	1,435	3,103	3,698	4,330	4,773	17,339
Skilled Labourer	2500	1,898	4,177	4,911	5,645	6,147	22,778
Carpenter	3000	981	2,014	2,117	2,299	2,365	9,776
Mason	3000	0	0	0	0	0	0
Labourer	2000	12,339	26,862	32,463	38,266	42,439	152,369
Driver	3000	2,507	5,337	6,064	7,025	7,590	28,523
Operator	3500	433	859	916	1,050	1,118	4,376
<b>MATERIAL :</b>		4,312	9,550	11,361	13,233	14,518	52,974
Bitumen	300	607	1,701	2,632	3,361	4,009	12,310
Asphalt Oil	700	0	0	0	0	0	0
Kerosene	250	56	157	243	311	371	1,138
Sand	6000	225	630	975	1,246	1,486	4,562
Cement	5000	0	0	0	22	22	44
River Stone	7500	0	0	0	0	0	0
Steel Moulds	8000	0	0	0	0	0	0
Timber	90000	2,673	5,490	5,769	6,255	6,435	26,622
Paint	2500	529	1,087	1,142	1,240	1,275	5,273
Reinforcing Steel	1000	0	0	0	23	23	46
Tying Wire	1200	0	0	0	0	0	0
Equivalent Royalty	250	222	485	600	775	897	2,979

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

PROV : KALIMANTAN SELATAN

KAB : TABALONG

( 1000 Rp )

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
<b>EQUIPMENT :</b>		122,359	273,351	341,621	363,885	339,780	1,440,996
Bulldozer/Ripper	16575	5,012	21,095	24,285	19,420	29,485	99,297
Swamp Bulldozer	12151	0	0	291	893	735	1,919
Motor Grader	14080	13,848	25,099	32,566	32,538	27,890	131,941
Hand-guide Vib. Roller	1593	527	1,343	1,889	3,068	2,879	9,706
Tire Roller	11568	8,319	16,167	14,035	14,017	15,053	67,591
Vibratory Roller (D&T)	7004	3,707	9,449	12,278	10,714	11,406	47,554
Hydraulic Excavator; Wheel	13375	0	0	1,805	15,347	5,416	22,568
Wheel Loader	17227	16,103	35,115	46,758	47,726	43,849	189,551
Water Tank Truck	4251	1,410	3,360	4,565	4,276	3,858	17,469
Dump Truck	5727	44,525	102,760	138,990	146,959	128,241	561,475
Flat Bed Truck with Crane	5336	12,023	24,995	26,004	30,618	27,992	123,632
Flat Bed Truck	3636	6,891	13,992	14,332	16,218	17,013	68,446
Portable Crusher/Screening	45428	8,981	17,916	22,045	20,060	22,404	91,406
Concrete Mixer	8693	165	394	513	886	308	2,266
Water Pump	501	6	19	25	40	15	105
Concrete Vibrator	336	0	9	11	13	7	40
Asphalt Sprayer	2049	842	1,638	1,229	1,092	1,229	6,030
<b>LABOUR :</b>		43,668	97,121	117,902	145,169	124,901	528,761
Handur	2500	2,986	6,720	8,183	10,291	8,889	37,069
Skilled Labourer	2500	3,315	6,305	6,157	13,564	11,291	40,632
Carpenter	3000	1,489	2,453	2,151	6,671	5,011	17,775
Mason	3000	90	86	124	314	67	681
Labourer	2000	26,092	60,145	74,940	85,960	73,563	320,700
Driver	3000	6,801	15,076	18,519	19,992	18,360	78,748
Operator	3500	2,895	6,336	7,828	8,377	7,720	33,156
<b>MATERIAL :</b>		53,546	111,936	95,140	107,025	101,427	469,074
Bitumen	300	26,406	52,450	39,531	36,160	40,908	195,455
Asphalt Oil	700	11,549	22,213	17,220	15,306	17,220	83,508
Kerosene	250	5,080	9,923	7,592	6,844	7,720	37,159
Sand	6000	1,749	4,279	4,224	4,511	4,336	19,099
Cement	5000	132	2,117	2,579	3,071	1,664	9,563
River Stone	7500	225	216	312	786	168	1,707
Steel Moulds	8000	48	1,320	1,600	1,824	1,024	5,816
Timber	90000	4,050	6,597	5,769	18,054	15,192	49,662
Paint	2500	816	1,330	1,142	3,569	2,137	8,994
Reinforcing Steel	1000	191	5,263	6,380	7,296	4,106	23,236
Tying Wire	1200	2	57	69	79	44	251
Equivalent Royalty	250	3,298	6,171	8,722	9,525	6,908	34,624

## Appendix A-6

## QUANTITIES OF BRIDGE ON PROPOSED ROAD LINKS

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO	BRIDGE NAME	Km	From	<< TYPE >> (EXIST) (NEW)	DESIGN LOAD	SPAN CLASS	LENGTH (m)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (m)	AREA (EXIST) (m2)	AREA (NEW) (m2)	PIER (no)	ABUT (no)	ROAD CLASS
66	MANANGIN MANANGIN II	6	KINA	KK			3.50	1	3.50	3.50	12.25		0	2	111B-2
		8	KINA	KK			7.00	2	3.50	3.50	24.50		1	2	
67	UPAU I IPO	1	UPAU	KK			9.00	3	3.00	3.50	31.50		2	2	111C
		2	UPAU	KK			8.00	3	2.67	3.50	28.00		2	2	
69	NANIN	3	NKM	LL	TH	10T (B)	6.50	2	3.25	4.00	22.75	26.00	1	2	111B-1
70	ULAU	5	TPOJ	KK			3.50	1	3.50	3.50	12.25		0	2	111B-1
72	UNGI RANDU I RANDU II	4	BKR	KK	TH	10T (B)	4.50	1	4.50	4.00	15.75	18.00	0	2	111B-1
		7	BKR	KK			3.00	1	3.00	3.50	10.50		0	2	
		9	BKR	KK			3.50	1	3.50	3.50	12.25		0	2	
74	NANUN NUANG NANUN	3	TRT	KK			18.00	5	3.60	3.50	63.00		4	2	111B-1
		5	TRT	KK			13.00	4	3.25	3.50	45.50		3	2	
		6	TRT	KK			6.50	2	3.25	3.50	22.75		1	2	
75	PIANANG I PIANANG II	1	NMN	KK			3.50	1	3.50	3.50	12.25		0	2	111B-2
		2	NMN	KK			3.50	1	3.50	3.50	12.25		0	2	
85	SUBUR II SUBUR III	1	AYAH	KK			4.00	2	2.00	3.00	12.00		1	2	111C
		3	AYAH	KK			7.50	3	2.50	3.00	22.50		2	2	
89	PALAPI I PALAPI II	1	AYAH	KK	TH	10T (A)	7.70	3	2.57	4.00	11.55	30.80	2	2	111C
		3	AYAH	KK	TH	10T (B)	7.00	2	3.50	4.00	9.80	28.00	1	2	
94	OJEK I OJEK II	1	SLYG	KK	TH	10T (A)	9.00	3	3.00	4.00	15.30	36.00	2	2	111C
		2	SLYG	KK	TH	10T (B)	3.50	1	3.50	4.00	8.05	14.00	0	2	
96	HALONG HAYUP RINTIS	1	HRI	KK			9.00	3	3.00	3.50	31.50		2	2	111B-2
		8	HRI	KK			3.50	1	3.50	3.50	12.25		0	2	
		10	HRI	KK			5.00	1	5.00	3.50	17.50		0	2	

PROV

: KALIMANTAN SELATAN

KAB : TABALONG

LINK NO	BRIDGE NAME	Ka	From	<< TYPE >>		DESIGN	SPAN	LENGTH	SPAN NO	SPAN LENGTH	WIDTH	AREA (EXIST)	AREA (NEW)	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)	LOAD	CLASS	(m)	(no)	(m)	(m)	(m2)	(m2)			
23	KAMBITIN	2	SKBN	KK	TM	10T	(A)	6.00	2	3.00	4.00	24.00	24.00	1	2	111B-1
25	TAGAWAL	1	JKG	KK				7.30	2	3.65	3.50	25.55		1	2	111B-1
	TIRUS	1	JKG	KK				7.50	2	3.75	3.50	26.25		1	2	
	T.L	4	JKG	KK				3.50	1	3.50	3.50	12.25		0	2	
	MUNGKUR BALAI	6	JKG	KK				3.50	1	3.50	3.50	12.25		0	2	
	MUNGKUR BALAI2	7	JKG	KK				3.50	1	3.50	3.50	12.25		0	2	
	WIKAU I	7	JKG	KK				3.50	1	3.50	3.50	12.25		0	2	
	WIKAU II	10	JKG	GB				12.00	5	2.40	4.00	48.00		4	2	
	KUKUI	10	JKG	GB				3.50	3	1.17	4.40	15.40		2	2	
	WIKAU III	11	JKG	RB				5.00	1	5.00	4.40	22.00		0	2	
36	BAJUD	1	BJD	KK				4.00	1	4.00	3.50	14.00		0	2	111B-2
	BAJUD II	5	BJD	KK				3.00	1	3.00	3.50	10.50		0	2	
	BAJUD	5	BJD	KK				3.00	1	3.00	3.50	10.50		0	2	
	BAJUD	8	BJD	KK				2.50	1	2.50	3.50	8.75		0	2	
39	DUBUNG	2	WLKR	--	TM	10T	(C)	8.00	1	8.00	4.00	0.00	32.00	0	2	111B-1
	LUK LASUNG	4	PKUU	KK	TM	10T	(A)	8.00	3	2.67	4.00	14.40	32.00	2	2	
	SIDI	4	PKUU	KK	TM	10T	(A)	7.50	3	2.50	4.00	15.00	30.00	2	2	
	SIDI II	5	PKUU	--	TM	10T	(C)	8.00	1	8.00	4.00	0.00	32.00	0	2	
40	KUN SANDIN I	1	PEMB	KK				3.20	1	3.20	3.50	11.20		0	2	111A
	KUN SANDIN II	1	PEMB	KK				3.40	1	3.40	3.50	11.90		0	2	
	BANGUN SARI I	2	PEMB	KK				3.00	1	3.00	3.50	10.50		0	2	
	BANGUN SARI II	2	PEMB	KK				3.00	1	3.00	3.50	10.50		0	2	
41	BINTANING I	3	KURJ	KK				5.50	2	2.75	3.50	19.25		1	2	111B-1
	BINTANING II	4	KURJ	KK				4.00	1	4.00	3.50	14.00		0	2	
	TANTA	7	KURJ	KK				8.00	3	2.67	3.50	28.00		2	2	
46	TELUK MESJID	1	PSTK	KK				3.25	1	3.25	3.50	11.38		0	2	111B-1
	AMPUKUNG	1	PSTK	KK				18.00	5	3.60	3.50	63.00		4	2	
	BINTURU	1	PSTK	KK				4.00	1	4.00	3.50	14.00		0	2	
	BAKUNGIN	1	PSTK	KK				3.25	1	3.25	3.50	11.38		0	2	
	BAKUNGIN2	2	PSTK	KK				5.00	2	2.50	3.50	17.50		1	2	
	LUKJAHBU	3	PSTK	KK				10.00	3	3.33	3.50	35.00		2	2	
	MANTUNG II	4	PSTK	KK				7.00	2	3.50	3.50	24.50		1	2	
	TELAGA JINGAH	5	PSTK	KK				19.00	5	3.80	3.50	66.50		4	2	
54	PASAR ARBA	1	PSAB	KK				14.00	3	4.67	3.50	49.00		2	2	111B-1
61	LANSIM	1	SDRN	KK	TM	10T	(B)	14.60	4	3.65	4.00	40.88	58.40	3	2	111B-1
65	WIRANG	2	BKNG	KK				5.00	2	2.50	3.50	17.50		1	2	111B-2
	KANDY	3	BKNG	KK				15.00	4	3.75	3.50	52.50		3	2	
	JURAN	5	BKNG	KK				11.00	2	5.50	3.50	38.50		1	2	
66	KANDY	3	KINA	KK				12.00	3	4.00	3.80	45.60		2	2	111B-2
	HALANG	4	KINA	KK				5.00	1	5.00	3.50	17.50		0	2	
	TANGKASA	5	KINA	KK				3.00	1	3.00	3.50	10.50		0	2	

## Appendix A-7

CONSTRUCTION AND MAINTENANCE COST OF BRIDGES  
ON PROPOSED ROAD LINKS

PROV : KALIMANTAN SELATAN KAB : TABALONG  
LINK NO : 23 (IIB-1) LENGTH : 5 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	24.00	40,370	3,541	968,880	84,984	1,053,864
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	51,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	1.00	351,722	32,859	351,722	32,859	384,581
Substructure (Abut; for Timber; 10T)	NO	2.00	997,907	154,362	1,995,814	308,724	2,304,538
Substructure (Pier; for Timber; BMSO)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	24.00	11,393	1,373	273,432	32,952	306,384
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	24.00	7,532	1,121	180,768	26,904	207,672
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		3,589,848	459,519	4,049,367
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		3,589,848	459,519	4,049,367
( Overhead : 15% )			TOTAL COST (Timber Bridge)		4,128,325	528,447	4,656,772
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		4,128,325	528,447	4,656,772

PROV : KALIMANTAN SELATAN KAB : TABALONG

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

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3a; BH50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5a; BH50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8a; BH50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3a; BH50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5a; BH50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8a; BH50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10a; BH50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15a; BH50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	351,722	32,059	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	100.80	7,858	2,404	792,086	242,323	1,034,409
Maintenance of Concrete Bridge (Exist)	m2	85.40	4,464	2,471	381,225	211,023	592,248
<hr/>							
( Without Overhead )		TOTAL COST (Timber Bridge)			0	0	0
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			0	0	0
<hr/>							
( Overhead : 15% )		TOTAL COST (Timber Bridge)			0	0	0
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			0	0	0



PROV : KALIMANTAN SELATAN KAB : TABALONG  
 LINK NO : 36 (IIB-2) LENGTH : 7 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> FOREIGN	<<<<< LOCAL	COST FOREIGN	>>>>> TOTAL
Superstructure (Timber; Span 3a; 101)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5a; 101)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8a; 101)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3a; BH50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5a; BH50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8a; BH50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3a; BH50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5a; BH50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8a; BH50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10a; BH50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15a; BH50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 101)	NO	0.00	351,722	32,059	0	0	0
Substructure (Abut; for Timber; 101)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	517,209	48,627	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	43.75	7,858	2,404	343,787	105,175	448,962
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
<hr/>							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 38 (IIB-1) LENGTH : 6 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	62.00	40,370	3,541	2,502,940	219,542	2,722,482
Superstructure (Timber; Span 3a; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	64.00	59,226	5,136	3,790,464	328,704	4,119,168
Superstructure (Timber; Span 3a; BHSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 3a; BHSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8a; BHSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3a; BHSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5a; BHSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8a; BHSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10a; BHSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15a; BHSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	4.00	351,722	32,859	1,406,888	131,436	1,538,324
Substructure (Abut; for Timber; 10T)	NO	8.00	997,907	154,362	7,983,256	1,234,896	9,218,152
Substructure (Pier; for Timber; BHSO)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BHSO)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BHSO)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BHSO)	NO	0.00	3,673,465	997,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	29.40	11,393	1,373	334,954	40,366	375,320
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	126.00	7,532	1,121	949,032	141,246	1,090,278
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		16,018,502	1,954,944	17,973,446
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		16,018,502	1,954,944	17,973,446
( Overhead : 15% )			TOTAL COST (Timber Bridge)		18,421,277	2,248,186	20,669,463
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		18,421,277	2,248,186	20,669,463

PROV : KALIMANTAN SELATAN KAD : TABALONG

LINK NO : 40 (IIIA) LENGTH : 3 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BM50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; BM50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BM50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BM50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BM50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BM50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BM50)	m2	0.00	55,330	149,376	0	0	0
Superstructure (Concrete; Span 15m; BM50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BM50)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BM50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BM50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BM50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	44.10	7,858	2,404	346,537	106,016	452,553
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
<hr/>							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 41 (IIB-1) LENGTH : 7 Km

( Rp )

ITEM	UNIT	QUANTITY	LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Superstructure (Timber;Span 3m;IOT)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber;Span 5m;IOT)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber;Span 8m;IOT)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber;Span 3m;RHSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber;Span 5m;RHSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber;Span 8m;RHSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete;Span 3m;RHSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete;Span 5m;RHSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete;Span 8m;RHSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete;Span 10m;RHSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete;Span 15m;RHSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier;for Timber;IOT)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut;for Timber;IOT)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier;for Timber;RHSO)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut;for Timber;RHSO)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier;for Concrete;RHSO)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut;for Concrete;RHSO)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	61.25	7,858	2,404	481,302	147,245	628,547
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : KALIMANTAN SELATAN KAB : TABALONA  
 LINK NO : 46 (IIIB-1) LENGTH : 6 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>>
			LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Superstructure (Timber; Span 3a; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3a; BHSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5a; BHSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8a; BHSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3a; BHSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5a; BHSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8a; BHSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10a; BHSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15a; BHSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	N0	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	N0	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BHSO)	N0	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BHSO)	N0	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BHSO)	N0	0.00	1,752,080	477,161	0	0	0
Substructure (Abut; for Concrete; BHSO)	N0	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	243.25	7,058	2,404	1,911,458	584,773	2,496,231
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
<hr/>							
( Without Overhead )		TOTAL COST (Timber Bridge)			0	0	0
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			0	0	0
<hr/>							
( Overhead : 15% )		TOTAL COST (Timber Bridge)			0	0	0
		(Concrete Bridge)			0	0	0
		TOTAL COST (without Maintenance)			0	0	0

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINE NO : 54 (IIB-1) LENGTH : 5 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 101)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5m; 101)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8m; 101)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BHSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; BHSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BHSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BHSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BHSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BHSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BHSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; BHSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 101)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 101)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BHSO)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BHSO)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BHSO)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BHSO)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	49.00	7,858	2,404	385,042	117,796	502,838
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : KALIMANTAN SELATAN KAB : TAPALONG  
 LINK NO : 61 (IIIB-1) LENGTH : 2 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;101)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber;Span 5m;101)	m2	58.40	44,715	3,910	2,611,356	228,344	2,839,700
Superstructure (Timber;Span 8m;101)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber;Span 3m;BM50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber;Span 5m;BM50)	m2	0.00	54,846	4,745	0	0	0
Superstructure (Timber;Span 8m;BM50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete;Span 3m;BM50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete;Span 5m;BM50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete;Span 8m;BM50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete;Span10m;BM50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete;Span15m;BM50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier;for Timber;101)	NO	3.00	351,722	32,859	1,055,166	98,577	1,153,743
Substructure (Abut;for Timber;101)	NO	2.00	997,907	154,362	1,995,814	308,724	2,304,538
Substructure (Pier;for Timber;BM50)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut;for Timber;BM50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier;for Concrete;BM50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut;for Concrete;BM50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	40.88	11,393	1,373	465,745	56,128	521,873
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	58.40	7,532	1,121	439,868	65,466	505,334
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )	TOTAL COST (Timber Bridge)		6,128,081		691,773	6,819,854	
	(Concrete Bridge)		0		0	0	
	TOTAL COST (without Maintenance)		6,128,081		691,773	6,819,854	
( Overhead : 15% )	TOTAL COST (Timber Bridge)		7,047,293		795,539	7,842,832	
	(Concrete Bridge)		0		0	0	
	TOTAL COST (without Maintenance)		7,047,293		795,539	7,842,832	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 65 (IIIB-2) LENGTH : 9 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BHSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; BHSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BHSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BHSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BHSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BHSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BHSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; BHSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BHSO)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BHSO)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BHSO)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BHSO)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	108.50	7,850	2,404	852,593	260,834	1,113,427
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0



PROV : KALIMANTAN SELATAN KAR : TABALONG  
 LINK NO : 66 (111B-2) LENGTH : 8 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BM50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; BM50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BM50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BM50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BM50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BM50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BM50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; BM50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	N0	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	N0	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BM50)	N0	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BM50)	N0	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BM50)	N0	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BM50)	N0	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	110.35	7,858	2,404	867,130	265,281	1,132,411
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : KALIMANTAN SELATAN KAD : TABALONG

LINK NO : 67 (IIIC) LENGTH : 2 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber;Span 3m;BHSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber;Span 5m;BHSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber;Span 8m;BHSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete;Span 3m;BHSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete;Span 5m;BHSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete;Span 8m;BHSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete;Span10m;BHSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete;Span15m;BHSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier;for Timber;10T)	N0	0.00	351,722	32,859	0	0	0
Substructure (Abut;for Timber;10T)	N0	0.00	997,907	154,362	0	0	0
Substructure (Pier;for Timber;BHSO)	N0	0.00	517,289	48,627	0	0	0
Substructure (Abut;for Timber;BHSO)	N0	0.00	1,122,973	171,532	0	0	0
Substructure (Pier;for Concrete;BHSO)	N0	0.00	1,752,880	477,161	0	0	0
Substructure (Abut;for Concrete;BHSO)	N0	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	59.50	7,858	2,404	467,551	143,038	610,589
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
<hr/>							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 69 (IIB-1) LENGTH : 8 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5m; IOT)	m2	26.00	44,715	3,910	1,162,590	101,660	1,264,250
Superstructure (Timber; Span 8m; IOT)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BHSO)	m2	0.00	50,057	4,370	0	0	0
Superstructure (Timber; Span 5m; BHSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BHSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BHSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BHSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BHSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BHSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; BHSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; IOT)	NO	1.00	351,722	32,859	351,722	32,859	384,581
Substructure (Abut; for Timber; IOT)	NO	2.00	997,907	154,362	1,995,814	308,724	2,304,538
Substructure (Pier; for Timber; BHSO)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BHSO)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BHSO)	NO	0.00	1,752,980	477,161	0	0	0
Substructure (Abut; for Concrete; BHSO)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	22.75	11,393	1,373	259,190	31,235	290,425
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	26.00	7,532	1,121	195,832	29,146	224,978
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,058	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		3,769,316	474,478	4,243,794
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		3,769,316	474,478	4,243,794
( Overhead : 15% )			TOTAL COST (Timber Bridge)		4,334,713	545,650	4,880,363
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		4,334,713	545,650	4,880,363

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 70 (IIR-1) LENGTH : 10 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	12.25	7,858	2,404	96,260	29,449	125,709
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : KALIMANTAN SELATAN KAB : TABALONG  
 LINK NO : 72 (IIB-1) LENGTH : 10 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> FOREIGN	<<<<< LOCAL	COST FOREIGN	>>>>> TOTAL
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,370	3,511	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	18.00	44,715	3,910	804,870	70,380	875,250
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; BM50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; BM50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; BM50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; BM50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; BM50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; BM50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; BM50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; BM50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	NO	2.00	997,907	154,362	1,995,814	308,724	2,304,538
Substructure (Pier; for Timber; BM50)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BM50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BM50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BM50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	15.75	11,393	1,373	179,439	21,624	201,063
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	18.00	7,532	1,121	135,576	20,178	155,754
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	22.75	7,858	2,404	178,769	54,691	233,460
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				2,980,123	400,728	3,380,851
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				2,980,123	400,728	3,380,851
<hr/>							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				3,427,141	460,837	3,887,979
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				3,427,141	460,837	3,887,979

PROV : KALIMANTAN SELATAN KAD : TABALONG

LINK NO : 74 (IIIB-1) LENGTH : 7 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> FOREIGN	<<<<< LOCAL	COST FOREIGN	>>>>> TOTAL
Superstructure (Timber;Span 3m;10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber;Span 3m;BM50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber;Span 5m;BM50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber;Span 8m;BM50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete;Span 3m;BM50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete;Span 5m;BM50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete;Span 8m;BM50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete;Span10m;BM50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete;Span15m;BM50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier;for Timber;BM50)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut;for Timber;BM50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier;for Concrete;BM50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut;for Concrete;BM50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	131.25	7,858	2,404	1,031,362	315,525	1,346,887
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
<hr/>							
( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : KALINANTAN SELATAN KAB : TABALONG  
 LINK NO : 75 (IIB-2) LENGTH : 4 Km

( Rp )

ITEM	UNIT	QUANTITY	((( UNIT COST ))) LOCAL FOREIGN	((( COST ))) LOCAL FOREIGN	((( TOTAL )))
Superstructure (Timber;Span 3m;10T)	m2	0.00	40,370	3,541	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	44,715	3,910	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	59,226	5,136	0
Superstructure (Timber;Span 3m;RH50)	m2	0.00	50,057	4,378	0
Superstructure (Timber;Span 5m;RH50)	m2	0.00	54,646	4,745	0
Superstructure (Timber;Span 8m;RH50)	m2	0.00	69,306	6,006	0
Superstructure (Concrete;Span 3m;RH50)	m2	0.00	47,530	107,965	0
Superstructure (Concrete;Span 5m;RH50)	m2	0.00	48,944	120,694	0
Superstructure (Concrete;Span 8m;RH50)	m2	0.00	50,515	131,491	0
Superstructure (Concrete;Span10m;RH50)	m2	0.00	55,338	149,376	0
Superstructure (Concrete;Span15m;RH50)	m2	0.00	59,852	176,007	0
Substructure (Pier;for Timber;10T)	NO	0.00	351,722	32,859	0
Substructure (Abut;for Timber;10T)	NO	0.00	977,907	154,362	0
Substructure (Pier;for Timber;RH50)	NO	0.00	517,289	40,627	0
Substructure (Abut;for Timber;RH50)	NO	0.00	1,122,973	171,532	0
Substructure (Pier;for Concrete;RH50)	NO	0.00	1,752,880	477,161	0
Substructure (Abut;for Concrete;RH50)	NO	0.00	3,673,465	999,497	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0
Maintenance of Timber Bridge (Exist)	m2	24.50	7,858	2,404	192,521
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	58,898
( Without Overhead )	TOTAL COST (Timber Bridge)		0	0	0
	(Concrete Bridge)		0	0	0
	TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )	TOTAL COST (Timber Bridge)		0	0	0
	(Concrete Bridge)		0	0	0
	TOTAL COST (without Maintenance)		0	0	0

PROV : KALIMANTAN SELATAN KAB : TADULUNG

LINK NO : 85 (TIIC) LENGTH : 3 Km

( Rp )

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3a; BH50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5a; BH50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8a; BH50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3a; BH50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5a; BH50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8a; BH50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10a; BH50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15a; BH50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	34.50	7,858	2,404	271,101	82,938	354,039
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
<hr/>							
( Without Overhead )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
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( Overhead : 15% )	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0



PROV : KALIMANTAN SELATAN KAB : TABALONG  
 LINK NO : B9 (IIC) LENGTH : 4 Km

( Rp )

ITEM	UNIT	QUANTITY	UNIT COST	LOCAL	FOREIGN	LOCAL	FOREIGN	TOTAL
Superstructure (Timber; Span 3a; 101)	m2	30.80	40,370	3,541	1,243,396	109,062	1,352,458	
Superstructure (Timber; Span 5a; 101)	m2	28.00	44,715	3,910	1,252,020	109,480	1,361,500	
Superstructure (Timber; Span 8a; 101)	m2	0.00	59,226	5,136	0	0	0	
Superstructure (Timber; Span 3a; RH50)	m2	0.00	50,057	4,378	0	0	0	
Superstructure (Timber; Span 5a; RH50)	m2	0.00	54,646	4,745	0	0	0	
Superstructure (Timber; Span 8a; RH50)	m2	0.00	69,306	6,006	0	0	0	
Superstructure (Concrete; Span 3a; RH50)	m2	0.00	47,530	107,965	0	0	0	
Superstructure (Concrete; Span 5a; RH50)	m2	0.00	48,944	120,694	0	0	0	
Superstructure (Concrete; Span 8a; RH50)	m2	0.00	50,515	131,491	0	0	0	
Superstructure (Concrete; Span 10a; RH50)	m2	0.00	55,338	149,376	0	0	0	
Superstructure (Concrete; Span 15a; RH50)	m2	0.00	59,852	176,007	0	0	0	
Substructure (Pier; for Timber; 101)	NO	3.00	351,722	32,859	1,055,166	98,577	1,153,743	
Substructure (Abut; for Timber; 101)	NO	4.00	997,907	154,362	3,991,628	617,448	4,609,076	
Substructure (Pier; for Timber; RH50)	NO	0.00	517,289	48,627	0	0	0	
Substructure (Abut; for Timber; RH50)	NO	0.00	1,122,973	171,532	0	0	0	
Substructure (Pier; for Concrete; RH50)	NO	0.00	1,752,880	477,161	0	0	0	
Substructure (Abut; for Concrete; RH50)	NO	0.00	3,673,465	999,497	0	0	0	
Demolition of Bridge (Timber->Timber)	m2	21.35	11,393	1,373	243,240	29,313	272,553	
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0	
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0	
Maintenance of Timber Bridge (New)	m2	58.80	7,532	1,121	442,881	65,914	508,795	
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0	
Maintenance of Timber Bridge (Exist)	m2	0.00	7,858	2,404	0	0	0	
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0	
( Without Overhead )	TOTAL COST (Timber Bridge)				7,785,450	963,880	8,749,330	
	(Concrete Bridge)				0	0	0	
	TOTAL COST (without Maintenance)				7,785,450	963,880	8,749,330	
( Overhead : 15% )	TOTAL COST (Timber Bridge)				8,953,268	1,108,462	10,061,730	
	(Concrete Bridge)				0	0	0	
	TOTAL COST (without Maintenance)				8,953,268	1,108,462	10,061,730	

PROV : KALIMANTAN SELATAN KAB : TABALONG

LINK NO : 74 (IIC) LENGTH : 2 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>> LOCAL FOREIGN	<<<<< COST >>>>> LOCAL FOREIGN TOTAL			
Superstructure (Timber; Span 3m; 101)	m2	36.00	40,370	3,541	1,453,320	127,476	1,580,796
Superstructure (Timber; Span 5m; 101)	m2	14.00	44,715	3,910	626,010	54,740	680,750
Superstructure (Timber; Span 8m; 101)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; RH50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; RH50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; RH50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; RH50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; RH50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; RH50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; RH50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; RH50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 101)	NO	2.00	351,722	32,859	703,444	65,718	769,162
Substructure (Abut; for Timber; 101)	NO	4.00	997,907	154,362	3,991,628	617,448	4,609,076
Substructure (Pier; for Timber; RH50)	NO	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; RH50)	NO	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; RH50)	NO	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; RH50)	NO	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	23.35	11,393	1,373	266,026	32,059	298,085
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	50.00	7,532	1,121	376,600	56,050	432,650
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,858	2,404	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
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( Without Overhead )	TOTAL COST (Timber Bridge)		7,040,428		897,441	7,937,869	
	(Concrete Bridge)		0		0	0	
	TOTAL COST (without Maintenance)		7,040,428		897,441	7,937,869	
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( Overhead : 15% )	TOTAL COST (Timber Bridge)		8,096,492		1,032,057	9,128,549	
	(Concrete Bridge)		0		0	0	
	TOTAL COST (without Maintenance)		8,096,492		1,032,057	9,128,549	

PROV : KALIMANTAN SELATAN KAB : TABALONG  
 LINK NO : 26 (TIB-2) LENGTH : 9 Km

( Rp )

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,370	3,541	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,715	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,226	5,136	0	0	0
Superstructure (Timber; Span 3m; RH50)	m2	0.00	50,057	4,378	0	0	0
Superstructure (Timber; Span 5m; RH50)	m2	0.00	54,646	4,745	0	0	0
Superstructure (Timber; Span 8m; RH50)	m2	0.00	69,306	6,006	0	0	0
Superstructure (Concrete; Span 3m; RH50)	m2	0.00	47,530	107,965	0	0	0
Superstructure (Concrete; Span 5m; RH50)	m2	0.00	48,944	120,694	0	0	0
Superstructure (Concrete; Span 8m; RH50)	m2	0.00	50,515	131,491	0	0	0
Superstructure (Concrete; Span 10m; RH50)	m2	0.00	55,338	149,376	0	0	0
Superstructure (Concrete; Span 15m; RH50)	m2	0.00	59,852	176,007	0	0	0
Substructure (Pier; for Timber; 10T)	N0	0.00	351,722	32,859	0	0	0
Substructure (Abut; for Timber; 10T)	N0	0.00	997,907	154,362	0	0	0
Substructure (Pier; for Timber; RH50)	N0	0.00	517,289	48,627	0	0	0
Substructure (Abut; for Timber; RH50)	N0	0.00	1,122,973	171,532	0	0	0
Substructure (Pier; for Concrete; RH50)	N0	0.00	1,752,880	477,161	0	0	0
Substructure (Abut; for Concrete; RH50)	N0	0.00	3,673,465	999,497	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,393	1,373	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	82,705	81,377	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,532	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,864	3,135	0	0	0
Maintenance of Timber Bridge (Exist)	m2	61.25	7,858	2,404	481,302	147,245	628,547
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,464	2,471	0	0	0
( Without Overhead )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
( Overhead : 15% )			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0





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