

APPENDIX

Appendix A-2 Engineering Data

ROAD LINK DATA

PROVINCE : SUMATERA SELATAN

KABUPATEN: MUSI RAWAS

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
01	Surulangun Rawas	Pulau Kidak	31	Muara Rupit	3	2
				Rawas Ulu	28	
02	Muara Rupit	Bingin Teluk	35	Muara Rupit	4	3
				Rawas Ilir	31	
03	Sp. Tanjung	Binjai	17	Muara Belingi	17	
04	Sp. Semambang	Sukakarya	12	Muara Belingi	6	5
				Jaya Loka	6	
05	Sukakarya	Ngestiboga	24	Jaya Loka	24	6
06	Ngestiboga	Lb. Besar	14	Muara Beliti	6	
				Jaya Loka	8	
07	Ngestiboga	Tambangan	21	Jaya Loka	15	
				Muara Belingi	6	
08	Sukakarya	Binjai	15	Jaya Loka	12	
				Muara Belingi	3	
09	Selangit	Tabagindo	9	BKL.Ulu	9	
10	Singkut	Bingin Teluk	70	Muara Rupit	28	
				Rawas Ilir	42	
11	Bingin Teluk	Bts.Muba		Rawas Ilir		
12	Taba Pingin	Taba Rejo	6	Muara Beliti	6	7
13	Taba Rejo	Air Kati	8	Muara Beliti	8	
14	Mangun Harjo	Megang Sakti	21	Muara Belingi	10.5	1
				Tegu Mulya	10.5	
15	Megang Sakti	Ma.Megang	11	Muara Belingi	7	
				Muara lakitan	4	
16	Sp.Kelingi	Ps.Ma.Kelingi		Muara Belingi		
17	Simpang Tiga	Pelabuhan Lakitan		Muara Lakitan		
18	Ma. Rupit	Jl.Trans		Muara Rupit		
19	Surulangun Rawas	S.Baung		Muara Rupit		
20	Jl.L.dalam K A.Lb.Binggau			Lubuk Linggu		Dalam Kota
21	Dusun Beliti lama	Dusun Beliti Baru		Muara Beliti		
22			4			
23	Tabarejo	Sp. Temam	6	Muara Beliti	6	
24	Srikaton	Sitiharjo	10	Tegu Mulya	5	8
				Muara Beliti	2	
				BKL. Ulu	3	

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

ROAD LINK DATA

PROVINCE : SUMATERA SELATAN

KABUPATEN: MUSI RAWAS

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
25	Matararam	Wukirsari	3	Tugu Mulya	1.5	
				BKL. Ulu	1.5	
26	Wukirsari	Air Deras	10	BKL. Ulu	10	
27	Sumber harta	Pager sari	4	BKL.Ulu	4	
28	Sumber harta	Jamburejo	5	BKL. Ulu	5	
29	Dwijaya	Sidosari	12	Tugu Mulya	12	
30	Kalibening	Wonorejo	3	Tugu Mulya	3	
31	Trikooyo	Bumi Agung	9	Tugu Mulya	9	9
32	Kertasari	Pagersari	6	Tugu Mulya	2	
				BKL.Ulu	4	
33	Sp.Periuk	Lb.Tanjung		Lubuk Linggau		4
				Muara Beliti		
34	Sp.Semangus	Ds.Semangus		Muara Lakitan		
35	Taba Tinggi	Pasenan	5	BKL. Ulu	5	
36	Karang Dapo (jl.Poros)	Transmigrasi S.Liam	24	Rawas Ilir	24	
37	Karang Anyar	S.Nibung	28	Rawas Ilir	18	10
				Muara Rupit	10	
38	Lubuk Tanjung	Kesei I		Lubuk linggau		
39	Petanang	Batu pepe	4	Lubuk Linggau		
				BKL.Ulu		
40	Sidorejo	Lb.Tanjung		Lubuk Linggau		
41	Kenanga II	Sr.Agung		Lubuk Linggau		
42	Sp. 3 Binjai	Pelawe	4	Muara Belingi	4	
43	Sp.Pertamina	Tambangan		Muara Belingi		
44	Pagersari	Desa Paku	5	BKL.Ulu	4	
				Muara Belingi	1	

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

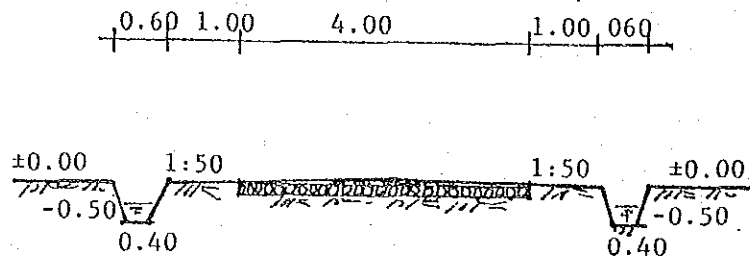
What Kind of Design Criteria has being applied for the new road construction and the improvement for the Kabupaten Road ?

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

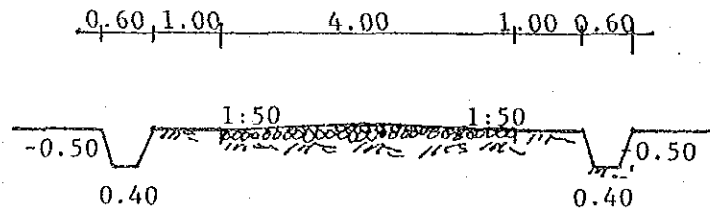
Please draw the Typical Cross Section of the Kabupaten Road.

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

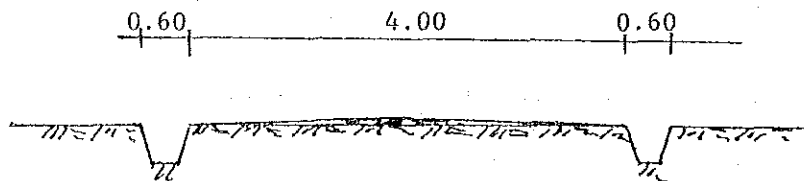
TYPICAL CROSS SECTION.



JALAN ASPAL



JALAN KERIKIL



JALAN TANAH

LINK NO : Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterang- an
		Lebar Jembatan	Type Jembatan			
38	Jalan Kesie I dan Rehab. Jembatan	3	Kerikil	0.8	3.600	APBD TK I
		1.5	Jbt.Gantung	0.03		
02	Jl.Marupit-B.Teluk Jl.Sp.Babat-Kp.O Jembatan	4	Kerikil	35.0	35.000	
		4	Kerikil	2.5		
31	Jl.Kp.F-Bumi Agung	3.5	Besi	7 bh	39.795	APBD TK I
		4	Kerikil	8.8	66.275	Inpres Dt II
20	Jl.Terminal Bus-Renc. Stasiun KA.Jembatan	4	Aspal	1.1	41.698	
		3.5	Besi	1 bh		
05	Jl.Sukakarya-Ngestiboga	4	Kerikil	2.8	36.240	
18	Jl.Ibu Kota Ma.Rupit	4	Aspal	1.6	27.400	
16	Jl.Ibu Kota Kec.Mo.Kelingi	4	Aspal	2.2	8.359	
20	Jl.Letkol.Atmo-Patimura	3	Aspal	0.8	14.600	
20	Jl.Depati-Said-Gentayu	3	Aspal	0.5	14.500	
	Jl.Sp.Babat-Kp.O.Jembatan	4	Kerikil	17	76.000	Penun.Jalan Kab.
			Besi	12 bh		
24	Jl.Kp.B-E	3	Kerikil	5	14.250	
24	Jl.Kp.H - Km	4	Kerikil	4	11.400	

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

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

LINK NO : Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterang- an
		Lebar Jembatan	Type Jembatan			
12	Jl.Tabapingin-Tabarejo Jembatan	4 3.5	Kerikil	6.1 5 bh	60.000	Inpres TK II
41	Jl.KenangaII-Sirino Agung	4	Kerikil Aspal	5.7	45.000	
01	Jl.Sr.Rawas-P.Kidak Jembatan	4	Kerikil	12.0 12 bh	79.034	
43	Jl.Sp.Pertamina - Ds. Tambangan	4	Kerikil	2.0	20.000	
13	Jl.Tabarejo-A.Kati Jembatan	4 3.5	Kerikil	8.3 2 bh	50.000	
25	Jl.Kp.Mataram-Wukirsari	4	Kerikil	2.5	15.000	
15	Jl.Kp.O-Megang-Sakti Jembatan	4 3.5	Kerikil kayu	16.0 4 bh	110.000	Penun. Jl.Kab.
44	Jl.Kp.Sumberharta - Kp. Sumbersari	4	Kerikil	6	35.000	
32	Jl. Kp.S - Kp.U	4	Kerikil	6	57.720	
06	Jl.Lb.Besar-Ngestiboga	4	Kerikil	13	36.000	
02	Jl.Mandiingin-B.Teluk	4	Kerikil	11	40.000	
	Jl.Sp.Semangus-Ds.Semangus	3	Kerikil	2	10.000	

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

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

LINK NO Nomor Ruas	L O C A T I O N From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterang- an
		Lebar Jembatan	Type Jembatan			
33	Jl.Poros Sp.Periuk - Lb.Tanjung	4.5	Kerikil	17.6	18.499	Perun. Jl. Kab.
		3.5	Besi	4 bh		
15	Jl.Mg.Sakti-Mamegang	4.0	Kerikil	11.00	94.730	
		3.5	Besi	2 bh		
38	Jl.Sidorejo-Lb.Tanjung	4.0	Kerikil	3.9	2.745	Jl.Inpres Tk. II
20	Jl.Depati Said	4.0	Aspal	3.4	51.263	
26	Jl.Kp.Srimulyo-Wk.Sari	4.0	Kerikil	6.5	95.007	
		3.5	Besi	3 bh		
17	Jl.Dlm.Kota Malakitan	4.0	Aspal	2.0	40.000	
02	Jl.Marupit-B.Teluk Jembatan	4.0	Kerikil	Tempat	19.990	
		3.5	Besi/Kayu	2ygrusak	10.540	
42	Jl.Sp.Pertyamina-Tambangan	3.0	Kerikil	4.0	20.000	
38	Jl.Irigasi-Kesie I Jembatan Gantung	3.0	Kerikil	1.4	12.189	
		1.5	Besi	0.02		
20	Pemeliharaan Jl.dlm.kt.LLC	4.0	Aspal	6.6	25.956	
20	Jl. Nanas LLC	4.0	Aspal	0.4	2.316	

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

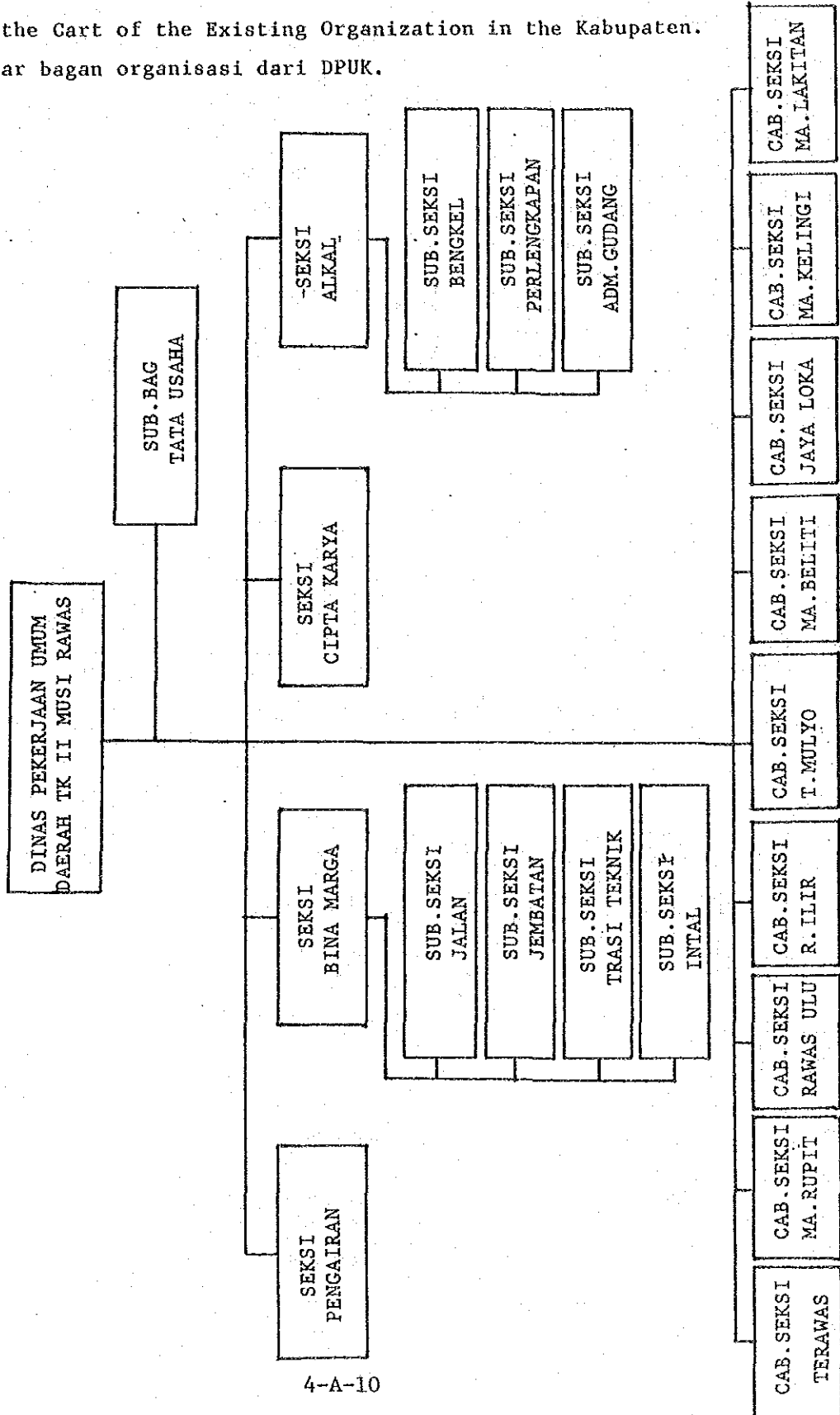
1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCA5 / kerikil / japat

EXISTING ORGANIZATION IN KABUPATEN

Struktur Organisasi yang ada dari P.U Kabupaten

Please draw the Cart of the Existing Organization in the Kabupaten.
Harap digambar bagan organisasi dari DPUK.

STRUKTUR ORGANISASI DINAS PEKERJAAN UMUM
KABUPATEN DATI II MUSI RAWAS



EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATENTenaga Dinas PUK yang adaPROPINSI: SUMATERA SELATANKABUPATEN: MUSI RAWAS

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

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

LOCATION AND AREA OF DPUK WORKSHOP

E-06

Lokasi Workshop DPUKPROPINSI : SUMATERA SELATANKABUPATEN: MUSI RAWAS

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
TB. PINGIN	20,000	1	Rencana

PROPINSI: SUMATERA SELATAN

E-07

KABUPATEN: MUSI RAWASLAND ACQUISITION COSTDaftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	25,000	
VILLAGE / desa	M2	5,000	
RICE FIELD/sawah	M2	5,000	
DRY FIELD/ladang	M2	2,500	
MIX CROPS/panen	M2	2,500	
FOREST/hutan	M2	500	
SWAMP / rawa	M2		
OTHERS / lain-lain	M2		

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

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

LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDI TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Tipe	P.Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer							2
Motor Grader							3
Tyre Roller							2
Steel Whell Roller	6/3 ton		5	3	8	Engine	1
Vibration Roller							1
Wheel Loader							2
Front End Loader and Backhoe							1
Mobile Crane							2
Concrete Mixer							3
Stone Crusher							2
Portable Compressor							2
Hydraulic Excavator							1
Asphalt Paving Machine							1
Asphalt Sprayer	KS60SK	1984	1		1		2
Asphalt Mixing Machine							1
Mobile Workshop							1
Mechanic Rammer							3
Plate Tamper	NP 100	1982	4		4		3
Pile Driver							1
Leg Drill							2
Hand Hammer							5
Farm Tractor							
Dump Truck							15
Water Tank Truck							2
Fuel Tank Truck							2
Pick Up		1983	1		1		3
Jeep		1983	1		1		2
Motorcycle							5
Generator							1
Water Pump							2
Others							
Exavafator Mini							2

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

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 31 (IIIA) LENGTH : 9 Km

UPGRADE : 6.0m 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	m ²	0.0	161	91	0	0	0	
Subgrade Preparation	m ²	13620.0	21	11	286,020	149,820	435,840	
Normal Fill	m ³	0.0	1,657	860	0	0	0	
Fill in Swamp	m ³	270.0	2,463	1,049	665,010	283,230	948,240	
Normal Excavation to Spoil	m ³	16.0	966	521	15,456	8,336	23,792	
Sub Base Course	m ³	2116.0	3,132	1,343	6,627,312	2,841,788	9,469,100	
Base Course	m ³	2880.0	4,292	2,293	12,360,960	6,603,840	18,964,800	
Shoulder	m ²	18000.0	291	145	5,238,000	2,610,000	7,848,000	
Asphalt Patching	m ²	0.0	3,506	1,482	0	0	0	
Surface Dressing (Single)	m ²	0.0	639	731	0	0	0	
Surface Dressing (Double)	m ²	36000.0	789	1,151	28,404,000	41,436,000	69,840,000	
Earth Drain	m	0.0	814	118	0	0	0	
Earth Drain in Swamp (by machine)	m ³	1200.0	1,158	473	1,389,600	567,600	1,957,200	
Pipe Culvert Ø80cm	m	0.0	42,996	42,490	0	0	0	
Masonry Culvert (90x80cm)	m	0.0	61,277	36,035	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	10,762	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	45,127	11,465	0	0	0	
Gabion Protection	m ³	0.0	13,277	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	54,986,358	54,500,614	109,486,972
Overhead (15%)						8,247,953	8,175,092	16,423,045
					TOTAL COST	63,234,311	62,675,706	125,910,017
Manual routine maintenance of road	Km	9.0	132,252	7,248	1,190,268	65,232	1,255,500	
Routine maintenance of asphalt road	Km	9.0	350,600	148,200	3,155,400	1,333,800	4,489,200	
			Sub Total		4,345,668	1,399,032	5,744,700	
Maintenance of Timber Bridge (New)	m ²	0.0	7,487	1,343	0	0	0	
Maintenance of Concrete Bridge (New)	m ²	0.0	1,818	2,591	0	0	0	
Maintenance of Timber Bridge (Exist)	m ²	10.5	7,533	2,513	79,096	26,386	105,482	
Maintenance of Concrete Bridge (Exist)	m ²	26.5	4,153	2,360	110,054	62,540	172,594	
Earthwork & Pavement	Unit Cost	(Rp/Km)	:	13,990,002				
Timber Bridge	Unit Cost	(Rp/m ²)	:					
Concrete Bridge	Unit Cost	(Rp/m ²)	:					
Survived Value	(Rp)	:	12,316,480					
Maintenance Rate without Bridge	(%)	:	4.56					
New Bridge Cost Rate	(%)	:						

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 37 (IIIA) LENGTH : 28 Km

UPGRADE : 8.0m road bed, 5.0m road with surface Dressing (2)

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	0.0	161	91	0	0	0	
Subgrade Preparation	m ²	224000.0	21	11	4,704,000	2,464,000	7,168,000	
Normal Fill	m ³	0.0	1,657	860	0	0	0	
Fill in Swamp	m ³	202.5	2,463	1,049	498,757	212,422	711,179	
Normal Excavation to Spoil	m ³	6826.0	966	521	6,593,916	3,556,346	10,150,262	
Sub Base Course	m ³	19600.0	3,132	1,343	61,387,200	28,322,800	87,710,000	
Base Course	m ³	11200.0	4,292	2,293	48,070,400	25,681,600	73,752,000	
Shoulder	m ²	84000.0	291	145	24,444,000	12,180,000	36,624,000	
Asphalt Patching	m ²	0.0	3,506	1,482	0	0	0	
Surface Dressing (Single)	m ²	0.0	639	731	0	0	0	
Surface Dressing (Double)	m ²	140000.0	789	1,151	110,460,000	161,140,000	271,600,000	
Earth Drain	m	2800.0	814	118	2,279,200	330,400	2,609,600	
Earth Drain in Swamp (by machine)	m ³	900.0	1,158	473	1,042,200	425,700	1,467,900	
Pipe Culvert Ø80cm	m	184.0	42,996	42,490	7,911,264	7,818,160	15,729,424	
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	10,762	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	73.6	45,127	11,465	3,321,347	843,824	4,165,171	
Gabion Protection	m ³	0.0	13,277	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	9,296,196	5,794,196	15,090,392	
					Sub Total	280,008,480	246,769,448	526,777,928
Overhead (15%)						42,001,272	37,015,417	79,016,689
					TOTAL COST	322,009,752	283,784,865	605,794,617

Manual routine maintenance of road	Km	28.0	132,252	7,248	3,703,056	202,944	3,906,000
Routine maintenance of asphalt road	Km	28.0	350,600	148,200	9,816,800	4,149,600	13,966,400
			Sub Total		13,519,856	4,352,544	17,872,400
Maintenance of Timber Bridge (New)	m ²	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m ²	36.0	1,818	2,591	65,448	93,276	158,724
Maintenance of Timber Bridge (Exist)	m ²	367.5	7,533	2,513	2,768,377	923,527	3,691,904
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,153	2,360	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	21,015,738
Timber Bridge	Unit Cost	(Rp/m ²)	:	
Concrete Bridge	Unit Cost	(Rp/m ²)	:	482,054
Survived Value		(Rp)	:	95,967,992
Maintenance Rate without Bridge		(%)	:	3.04
New Bridge Cost Rate		(%)	:	2.86

PROV : SUMATERA SELATAN KAB : MUSI RAWAS
 LINK NO : 29 (IIIA) LENGTH : 12 Km
 UPGRADE : 8.0m 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	161	91	0	0	0
Subgrade Preparation	m2	48000.0	21	11	1,008,000	528,000	1,536,000
Normal Fill	m3	0.0	1,657	860	0	0	0
Fill in Swamp	m3	0.0	2,463	1,049	0	0	0
Normal Excavation to Spoil	m3	748.0	966	521	722,568	387,208	1,112,276
Sub Base Course	m3	4412.0	3,132	1,343	13,818,384	5,925,316	19,743,700
Base Course	m3	3840.0	4,292	2,293	16,481,200	8,805,120	25,286,400
Shoulder	m2	48000.0	291	145	13,968,000	6,960,000	20,928,000
Asphalt Patching	m2	0.0	3,506	1,482	0	0	0
Surface Dressing (Single)	m2	0.0	639	731	0	0	0
Surface Dressing (Double)	m2	48000.0	789	1,151	37,872,000	55,248,000	93,120,000
Earth Drain	m	11960.0	814	118	9,735,440	1,411,280	11,146,720
Earth Drain in Swamp (by machine)	m3	0.0	1,158	473	0	0	0
Pipe Culvert Ø80cm	m	0.0	42,996	42,490	0	0	0
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,762	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	45,127	11,465	0	0	0
Gabion Protection	m3	0.0	13,277	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					93,605,672	79,267,424	172,873,096
Overhead (15%)					14,040,850	11,890,113	25,930,963
TOTAL COST					107,646,522	91,157,537	198,804,059

Manual routine maintenance of road	Km	12.0	132,252	7,248	1,587,024	86,976	1,674,000
Routine maintenance of asphalt road	Km	12.0	350,600	148,200	4,207,200	1,778,400	5,985,600
Sub Total					5,794,224	1,865,376	7,659,600
Maintenance of Timber Bridge (New)	m2	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	56.0	7,533	2,513	421,848	140,728	562,576
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,153	2,360	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	16,567,005
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	22,116,560
Maintenance Rate without Bridge	(%)	:	3.85
New Bridge Cost Rate	(%)	:	

PROV : SUMATERA SELATAN KAB : MUSI RAWAS
 LINK NO : 26 (111A) LENGTH : 10 Km
 UPGRADE : 8.0m road bed, 5.0m 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	161	91	0	0	0	
Subgrade Preparation	m2	80000.0	21	11	1,680,000	880,000	2,560,000	
Normal Fill	m3	0.0	1,657	860	0	0	0	
Fill in Swamp	m3	0.0	2,463	1,049	0	0	0	
Normal Excavation to Spoil	m3	1400.0	966	521	1,352,400	729,400	2,081,800	
Sub Base Course	m3	7000.0	3,132	1,343	21,924,000	9,401,000	31,325,000	
Base Course	m3	4000.0	4,292	2,293	17,168,000	9,172,000	26,340,000	
Shoulder	m2	30000.0	291	145	8,730,000	4,350,000	13,080,000	
Asphalt Patching	m2	0.0	3,506	1,482	0	0	0	
Surface Dressing (Single)	m2	0.0	639	731	0	0	0	
Surface Dressing (Double)	m2	50000.0	789	1,151	39,450,000	57,550,000	97,000,000	
Earth Drain	m	11500.0	814	118	9,361,000	1,357,000	10,718,000	
Earth Drain in Swamp (by machine)	m3	0.0	1,158	473	0	0	0	
Pipe Culvert Ø80cm	m	0.0	42,996	42,490	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,762	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	45,127	11,465	0	0	0	
Gabion Protection	m3	0.0	13,277	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	31,332,114	21,627,444	52,959,558	
					Sub Total	130,997,514	105,066,844	236,064,358
Overhead (15%)						19,649,627	15,760,026	35,409,653
					TOTAL COST	150,647,141	120,826,870	271,474,011

Manual routine maintenance of road	Km	10.0	132,252	7,248	1,322,520	72,480	1,395,000
Routine maintenance of asphalt road	Km	10.0	350,600	148,200	3,506,000	1,482,000	4,988,000
			Sub Total		4,828,520	1,554,480	6,383,000
Maintenance of Timber Bridge (New)	m2	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	139.5	1,818	2,591	253,611	361,444	615,055
Maintenance of Timber Bridge (Exist)	m2	14.0	7,533	2,513	105,462	35,182	140,644
Maintenance of Concrete Bridge (Exist)	m2	17.5	4,153	2,360	72,677	41,300	113,977

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	21,057,052
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	436,594
Survived Value		(Rp)	:	57,591,524
Maintenance Rate without Bridge		(%)	:	3.03
New Bridge Cost Rate		(%)	:	22.43

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 14 (IIIA) LENGTH : 21 Km

UPGRADE : 8.0m road bed, 5.0m road with surface Dressing (2)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	12000.0	161	91	1,932,000	1,092,000	3,024,000	
Subgrade Preparation	m ²	168000.0	21	11	3,528,000	1,848,000	5,376,000	
Normal Fill	m ³	0.0	1,657	860	0	0	0	
Fill in Swamp	m ³	2400.0	2,463	1,049	5,911,200	2,517,600	8,428,800	
Normal Excavation to Spoil	m ³	830.0	966	521	801,780	432,430	1,234,210	
Sub Base Course	m ³	14700.0	3,132	1,343	46,040,400	19,742,100	65,782,500	
Base Course	m ³	8400.0	4,292	2,293	36,052,800	19,261,200	55,314,000	
Shoulder	m ²	63000.0	291	145	18,333,000	9,135,000	27,468,000	
Asphalt Patching	m ²	0.0	3,506	1,482	0	0	0	
Surface Dressing (Single)	m ²	0.0	639	731	0	0	0	
Surface Dressing (Double)	m ²	105000.0	789	1,151	82,845,000	120,855,000	203,700,000	
Earth Drain	m	31200.0	814	118	25,396,800	3,681,600	29,078,400	
Earth Drain in Swamp (by machine)	m ³	6000.0	1,158	473	6,948,000	2,838,000	9,786,000	
Pipe Culvert Ø80cm	m	0.0	42,996	42,490	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	10,762	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	45,127	11,465	0	0	0	
Gabion Protection	m ³	0.0	13,277	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	227,788,980	181,402,930	409,191,910
Overhead (15%)						34,168,347	27,210,439	61,378,786
					TOTAL COST	261,957,327	208,613,369	470,570,696

Manual routine maintenance of road	Km	21.0	132,252	7,248	2,777,292	152,208	2,929,500
Routine maintenance of asphalt road	Km	21.0	350,600	148,200	7,362,600	3,112,200	10,474,800
			Sub Total		10,139,892	3,264,408	13,404,300
Maintenance of Timber Bridge (New)	m ²	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	45.5	7,533	2,513	342,751	114,341	457,092
Maintenance of Concrete Bridge (Exist)	m ²	98.0	4,153	2,360	406,994	231,280	638,274

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	22,408,128
Timber Bridge	Unit Cost	(Rp/m ²)	:	
Concrete Bridge	Unit Cost	(Rp/m ²)	:	
Survived Value		(Rp)	:	66,454,500
Maintenance Rate without Bridge		(%)	:	2.85
New Bridge Cost Rate		(%)	:	

PROV : SUMATERA SELATAN KAB : MUSI RAWAS
 LINK NO : 13 (LIIA) LENGTH : 8 Km
 UPGRADE : 7.0m road bed, 6.0m road with surface Dressing (2)

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	8000.0	161	91	1,288,000	728,000	2,016,000	
Subgrade Preparation	m ²	63162.0	21	11	1,326,402	694,782	2,021,184	
Normal Fill	m ³	0.0	1,657	860	0	0	0	
Fill in Swamp	m ³	172.2	2,463	1,049	424,128	180,637	604,765	
Normal Excavation to Spoil	m ³	673.0	966	521	650,118	350,633	1,000,751	
Sub Base Course	m ³	6154.0	3,132	1,343	19,274,328	8,264,822	27,539,150	
Base Course	m ³	3840.0	4,292	2,293	16,481,280	8,805,120	25,286,400	
Shoulder	m ²	24000.0	291	145	6,984,000	3,480,000	10,464,000	
Asphalt Patching	m ²	0.0	3,506	1,482	0	0	0	
Surface Dressing (Single)	m ²	0.0	639	731	0	0	0	
Surface Dressing (Double)	m ²	48000.0	789	1,151	37,872,000	55,248,000	93,120,000	
Earth Drain	m	13040.0	814	118	10,614,560	1,538,720	12,153,280	
Earth Drain in Swamp (by machine)	m ³	120.0	1,158	473	139,960	54,760	195,720	
Pipe Culvert 80x80cm	m	66.0	42,996	42,490	2,837,736	2,804,340	5,642,076	
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	10,762	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	9.6	45,127	11,465	433,219	110,064	543,283	
Gabion Protection	m ³	0.0	13,277	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	22,345,608	18,015,856	40,361,464	
					Sub Total	120,670,339	100,277,734	220,948,073
Overhead (15%)						18,100,550	15,041,660	33,142,210
					TOTAL COST	138,770,889	115,319,394	254,090,283

Manual routine maintenance of road	Km	8.0	132,252	7,248	1,058,016	57,984	1,116,000
Routine maintenance of asphalt road	Km	8.0	350,600	148,200	2,804,800	1,185,600	3,990,400
			Sub Total		3,862,816	1,243,584	5,106,400
Maintenance of Timber Bridge (New)	m ²	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m ²	117.0	1,818	2,591	212,706	303,147	515,853
Maintenance of Timber Bridge (Exist)	m ²	0.0	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,153	2,360	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	25,959,325
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	396,715
Survived Value (Rp)	:	48,533,652
Maintenance Rate without Bridge (%)	:	2.46
New Bridge Cost Rate (%)	:	18.27

PROV : SUMATERA SELATAN KAD : MUSTI RAWAS
LINK NO : 12 (IIIA) LENGTH : 6 Km
UPGRADE : 8.0m 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	m ²	0.0	161	91	0	0	0
Subgrade Preparation	m ²	40000.0	21	11	840,000	440,000	1,280,000
Normal Fill	m ³	125.0	1,657	860	207,125	107,500	314,625
Fill in Swamp	m ³	0.0	2,463	1,049	0	0	0
Normal Excavation to Spoil	m ³	516.0	966	521	498,456	268,836	767,292
Sub Base Course	m ³	2948.0	3,132	1,343	9,233,136	3,959,164	13,192,300
Base Course	m ³	1920.0	4,292	2,293	8,240,640	4,402,560	12,643,200
Shoulder	m ²	24000.0	291	145	6,984,000	3,480,000	10,464,000
Asphalt Patching	m ²	0.0	3,506	1,482	0	0	0
Surface Dressing (Single)	m ²	0.0	639	731	0	0	0
Surface Dressing (Double)	m ²	24000.0	789	1,151	18,936,000	27,624,000	46,560,000
Earth Drain	m	5400.0	814	118	4,395,600	637,200	5,032,800
Earth Drain in Swamp (by machine)	m ³	0.0	1,158	473	0	0	0
Pipe Culvert 80cm	m	30.0	42,996	42,490	1,289,880	1,274,700	2,564,580
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0
Retaining Wall and Wing Wall (Timber)	m ²	0.0	10,762	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	45,127	11,465	0	0	0
Gabion Protection	m ³	0.0	13,277	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	9,392,892	6,806,170	16,199,070
			Sub Total		60,017,729	49,000,138	109,017,867
Overhead (15%)					9,002,659	7,350,020	16,352,679
			TOTAL COST		69,020,388	56,350,158	125,370,546

Manual routine maintenance of road	Km	6.0	132,252	7,248	793,512	43,488	837,000
Routine maintenance of asphalt road	Km	6.0	350,600	148,200	2,103,600	889,200	2,992,800
			Sub Total		2,897,112	932,688	3,829,800
Maintenance of Timber Bridge (New)	m ²	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m ²	40.5	1,818	2,591	73,629	104,935	178,564
Maintenance of Timber Bridge (Exist)	m ²	0.0	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	203.2	4,153	2,360	843,889	479,552	1,323,441

Earthwork & Pavement Unit Cost	(Rp/Km)	:	17,790,269
Timber Bridge Unit Cost	(Rp/m ²)	:	
Concrete Bridge Unit Cost	(Rp/m ²)	:	459,974
Survived Value	(Rp)	:	21,814,175
Maintenance Rate without Bridge	(%)	:	3.59
New Bridge Cost Rate	(%)	:	14.86

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 10 (IIIA) LENGTH : 70 Km

UPGRADE : 6.0m 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	161	91	0	0	0
Subgrade Preparation	m2	384000.0	21	11	8,064,000	4,224,000	12,288,000
Normal Fill	m3	0.0	1,657	860	0	0	0
Fill in Swamp	m3	0.0	2,463	1,049	0	0	0
Normal Excavation to Spoil	m3	6810.0	966	521	6,578,460	3,548,010	10,126,470
Sub Base Course	m3	36952.0	3,132	1,343	115,733,664	49,626,536	165,360,200
Base Course	m3	22400.0	4,292	2,293	96,140,800	51,363,200	147,504,000
Shoulder	m2	140000.0	291	145	40,740,000	20,300,000	61,040,000
Asphalt Patching	m2	0.0	3,506	1,482	0	0	0
Surface Dressing (Single)	m2	0.0	639	731	0	0	0
Surface Dressing (Double)	m2	280000.0	789	1,151	220,920,000	322,280,000	543,200,000
Earth Drain	m	119200.0	814	118	97,028,800	14,065,600	111,094,400
Earth Drain in Swamp (by machine)	m3	0.0	1,158	473	0	0	0
Pipe Culvert Ø80cm	m	426.0	42,996	42,490	18,316,296	18,100,740	36,417,036
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,762	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	44.8	45,127	11,465	2,021,689	513,632	2,535,321
Gabion Protection	m3	0.0	13,277	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	605,543,709	484,021,718	1,089,565,427
Overhead (15%)					90,831,556	72,603,257	163,434,813
				TOTAL COST	696,375,265	556,624,975	1,253,000,240

Manual routine maintenance of road	Km	70.0	132,252	7,248	9,257,640	507,360	9,765,000
Routine maintenance of asphalt road	Km	70.0	350,600	148,200	24,542,000	10,374,000	34,916,000
			Sub Total		33,799,640	10,881,360	44,681,000
Maintenance of Timber Bridge (New)	m2	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,153	2,360	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	17,900,003
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	189,164,160
Maintenance Rate without Bridge (%)	:	3.57
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : MUSI RAWAS
 LINK NO : B (IIR-2) LENGTH : 15 Km
 UPGRADE : 7.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	0.0	161	91	0	0	0	
Subgrade Preparation	m ²	105000.0	21	11	2,205,000	1,155,000	3,360,000	
Normal Fill	m ³	0.0	1,657	880	0	0	0	
Fill in Swamp	m ³	337.5	2,463	1,049	831,262	354,037	1,185,299	
Normal Excavation to Spoil	m ³	544.0	966	521	525,504	283,424	808,928	
Sub Base Course	m ³	8400.0	3,132	1,343	26,308,800	11,281,200	37,590,000	
Base Course	m ³	3600.0	4,292	2,293	15,451,200	8,254,000	23,705,200	
Shoulder	m ²	45000.0	291	145	13,095,000	6,525,000	19,620,000	
Asphalt Patching	m ²	0.0	3,506	1,482	0	0	0	
Surface Dressing (Single)	m ²	0.0	639	731	0	0	0	
Surface Dressing (Double)	m ²	0.0	789	1,151	0	0	0	
Earth Drain	m	0.0	814	118	0	0	0	
Earth Drain in Swamp (by machine)	m ³	1500.0	1,198	473	1,737,000	709,500	2,446,500	
Pipe Culvert Ø80cm	m	280.0	42,996	42,490	12,038,880	11,897,200	23,936,080	
Masonry Culvert (80x80cm)	m	24.0	61,277	36,035	1,470,648	864,840	2,335,488	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	10,762	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	116.4	45,127	11,465	5,252,782	1,334,526	6,587,308	
Gabion Protection	m ³	0.0	13,277	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	4,123,129	626,169	4,749,298	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	83,039,205	43,285,696	126,324,901
Overhead (15%)						12,455,880	6,492,854	18,948,734
					TOTAL COST	95,495,085	49,778,550	145,273,635

Manual routine maintenance of road	Km	15.0	132,252	7,248	1,983,780	108,720	2,092,500
Routine maintenance of gravel road	Km	15.0	186,724	87,894	2,800,860	1,318,410	4,119,270
			Sub Total		4,784,640	1,427,130	6,211,770
Maintenance of Timber Bridge (New)	m ²	40.0	7,487	1,343	299,480	53,720	353,200
Maintenance of Concrete Bridge (New)	m ²	0.0	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	52.0	7,533	2,513	391,716	130,676	522,392
Maintenance of Concrete Bridge (Exist)	m ²	344.0	4,153	2,360	1,428,632	811,840	2,240,472

Earthwork & Pavement Unit Cost (Rp/Km)	:	9,320,796
Timber Bridge Unit Cost (Rp/m ²)	:	136,542
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	18,795,000
Maintenance Rate without Bridge (%)	:	4.44
New Bridge Cost Rate (%)	:	3.76

PROV : SUMATERA SELATAN KAB : MUSI RAWAS
 LINK NO : 4 (IIIC) LENGTH : 12 Km
 UPGRADE : 7.0m road bed, 3.5m 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	161	91	0	0	0
Subgrade Preparation	m2	14000.0	21	11	294,000	154,000	448,000
Normal Fill	m3	0.0	1,657	860	0	0	0
Fill in Swamp	m3	0.0	2,463	1,049	0	0	0
Normal Excavation to Spoil	m3	105.0	966	521	101,430	54,705	156,135
Sub Base Course	m3	1291.5	3,132	1,343	4,044,978	1,734,484	5,779,462
Base Course	m3	2100.0	4,292	2,293	9,013,200	4,815,300	13,828,500
Shoulder	m2	42000.0	291	145	12,222,000	6,090,000	18,312,000
Asphalt Patching	m2	0.0	3,506	1,482	0	0	0
Surface Dressing (Single)	m2	0.0	639	731	0	0	0
Surface Dressing (Double)	m2	0.0	789	1,151	0	0	0
Earth Drain	m	6000.0	814	118	4,884,000	708,000	5,592,000
Earth Drain in Swamp (by machine)	m3	0.0	1,158	473	0	0	0
Pipe Culvert D80cm	m	0.0	42,996	42,490	0	0	0
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,762	245	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	45,127	11,465	0	0	0
Gabion Protection	m3	0.0	13,277	120	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
					Sub Total		
					30,559,608	13,556,487	44,116,097
Overhead (15%)					4,583,941	2,033,473	6,617,414
					TOTAL COST		
					35,143,549	15,589,962	50,733,511

Manual routine maintenance of road	Km	12.0	132,252	7,248	1,587,024	86,976	1,674,000
Routine maintenance of gravel road	Km	12.0	186,724	87,894	2,240,688	1,054,728	3,295,416
			Sub Total		3,827,712	1,141,704	4,969,416
Maintenance of Timber Bridge (New)	m2	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	238.5	4,153	2,360	990,490	562,860	1,553,350

Earthwork & Pavement Unit Cost (Rp/Km)	:	4,227,793
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	2,311,784
Maintenance Rate without Bridge (%)	:	9.80
New Bridge Cost Rate (%)	:	

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 2 (IIIB-1) LENGTH : 35 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	161	91	0	0	0	
Subgrade Preparation	m2	0.0	21	11	0	0	0	
Normal Fill	m3	0.0	1,657	860	0	0	0	
Fill in Swamp	m3	0.0	2,463	1,049	0	0	0	
Normal Excavation to Spoil	m3	0.0	966	521	0	0	0	
Sub Base Course	m3	6172.0	3,132	1,343	19,330,704	8,288,996	27,619,700	
Base Course	m3	9800.0	4,292	2,293	42,061,600	22,471,400	64,533,000	
Shoulder	m2	70000.0	291	145	20,370,000	10,150,000	30,520,000	
Asphalt Patching	m2	0.0	3,506	1,482	0	0	0	
Surface Dressing (Single)	m2	140000.0	639	731	89,460,000	102,340,000	191,800,000	
Surface Dressing (Double)	m2	0.0	789	1,151	0	0	0	
Earth Drain	m	0.0	814	118	0	0	0	
Earth Drain in Swamp (by machine)	m3	0.0	1,158	473	0	0	0	
Pipe Culvert DB0cm	m	8.0	42,996	42,490	343,968	339,920	683,888	
Masonry Culvert (80x80cm)	m	0.0	61,277	36,035	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	10,762	245	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	3.2	45,127	11,465	144,406	36,688	181,094	
Gabion Protection	m3	0.0	13,277	120	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	171,710,678	143,627,004	315,337,682
Overhead (15%)						25,756,601	21,544,050	47,300,651
					TOTAL COST	197,467,279	165,171,054	362,638,333

Manual routine maintenance of road	Km	35.0	132,252	7,248	4,628,820	253,680	4,882,500
Routine maintenance of asphalt road	Km	35.0	350,600	148,200	12,271,000	5,187,000	17,458,000
			Sub Total		16,899,820	5,440,680	22,340,500
Maintenance of Timber Bridge (New)	m2	0.0	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	434.4	7,533	2,513	3,271,958	1,091,521	4,363,479
Maintenance of Concrete Bridge (Exist)	m2	152.3	4,153	2,360	632,294	359,310	991,604

Earthwork & Pavement Unit Cost	(Rp/Km)	:	10,361,095
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	32,240,390
Maintenance Rate without Bridge	(%)	:	6.16
New Bridge Cost Rate	(%)	:	

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

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	269.9	606.2	653.6	1073.6	1106.2	3709.5
Swamp Bulldozer	hr	0.0	5.7	33.0	47.3	34.6	120.6
Motor Grader	hr	1014.7	2286.3	2507.4	3538.0	3447.5	12793.9
Hand-guide Vib. Roller	hr	246.8	576.2	241.9	373.4	1391.3	2829.6
Tire Roller	hr	888.8	2463.2	2817.7	2988.3	1952.7	11110.7
Vibratory Roller (D&T)	hr	801.5	1726.3	1886.0	2732.6	2613.7	9760.1
Hydraulic Excavator; Wheel	hr	10.4	36.0	233.3	292.6	297.9	870.2
Wheel Loader	hr	1319.5	3280.9	3619.4	4701.1	4393.6	17314.5
Water Tank Truck	hr	546.2	1222.6	1327.4	1808.9	1669.4	6574.5
Dump Truck	hr	11920.2	27226.5	29201.5	38487.4	36337.5	143173.1
Flat Bed Truck with Crane	hr	301.1	794.6	309.7	417.7	1313.6	3136.7
Flat Bed Truck	hr	1159.5	3175.6	3473.8	3721.2	2807.4	14337.5
Portable Crusher/Screening	hr	350.1	978.8	1112.6	1245.4	1078.3	4765.2
Concrete Mixer	hr	157.7	457.1	158.5	217.6	750.0	1740.9
Water Pump	hr	456.7	1363.4	435.8	569.2	1841.3	4666.4
Concrete Vibrator	hr	35.6	93.5	42.2	51.4	123.9	346.6
Asphalt Sprayer	hr	888.8	2463.2	2817.7	2988.3	1952.7	11110.7
LABOUR :							
Mandur	man day	1270.9	2836.7	2646.7	3399.7	3660.0	13814.0
Skilled Labourer	man day	937.9	2774.7	2178.1	2367.8	3105.6	11364.1
Carpenter	man day	150.8	518.8	181.5	212.6	812.4	1876.1
Mason	man day	154.9	460.8	149.2	219.3	858.8	1843.0
Labourer	man day	15223.4	31332.3	29780.5	38177.3	37103.4	151616.9
Driver	man day	2559.8	6004.6	6379.2	8136.9	7545.5	30626.0
Operator	man day	1144.8	2799.6	3056.2	3960.6	3947.9	14909.1
MATERIAL :							
Bitumen	l	216666.6	577833.2	664229.1	728406.2	475989.5	2663124.6
Asphalt Oil	l	29333.3	85956.6	97653.2	98615.0	64441.6	375999.7
Kerosene	l	42666.6	118823.2	135836.6	143439.9	93733.3	534499.6
Sand	m ³	568.5	1587.2	1539.4	1591.9	1544.4	6831.4
Cement	bag	590.3	1575.0	685.4	849.1	2181.7	5881.5
River Stone	m ³	184.1	548.0	176.0	254.0	969.8	2131.9
Steel Houlds	set	115.2	197.8	131.8	177.2	372.0	994.0
Timber	m ³	11.7	40.8	13.9	16.5	66.6	149.5
Paint	l	0.0	6.7	8.9	11.7	162.2	189.5
Reinforcing Steel	kg	8371.9	23870.8	10049.7	11862.5	28652.4	82807.3
Tying Wire	kg	76.1	216.8	91.3	107.6	260.2	752.0
Equivalent Royalty	m ³	21769.4	52546.4	57424.8	73380.3	66871.6	271992.5

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

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	0.0	0.0	0.0	0.0	0.0	0.0
Swamp Bulldozer	hr	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader	hr	444.5	849.6	817.2	616.9	529.2	3257.4
Hand-guide Vib. Roller	hr	0.0	90.0	210.0	870.0	2565.0	3735.0
Tire Roller	hr	444.5	849.6	817.2	616.9	529.2	3257.4
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	122.5	238.1	242.0	233.3	344.5	1180.4
Water Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Dump Truck	hr	735.4	1609.8	1872.1	3139.0	7193.1	14549.4
Flat Bed Truck with Crane	hr	1891.7	3827.5	3784.9	3795.2	5241.6	18540.9
Flat Bed Truck	hr	1663.3	3254.5	3226.2	3009.3	4034.0	15187.3
Portable Crusher/Screening	hr	61.3	119.4	121.5	118.3	177.1	597.6
Concrete Mixer	hr	2.5	5.7	5.6	5.3	5.1	24.2
Water Pump	hr	2.5	5.7	5.6	5.3	5.1	24.2
Concrete Vibrator	hr	2.5	5.7	5.6	5.3	5.1	24.2
Asphalt Sprayer	hr	0.0	0.0	0.0	0.0	0.0	0.0
LABOUR :							
Mandur	man day	548.1	1103.4	1139.6	1322.6	2319.7	6433.4
Skilled Labourer	man day	343.0	715.0	790.5	1254.4	2800.5	5903.4
Carpenter	man day	182.4	347.8	345.5	358.5	582.1	1816.3
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	6124.9	12387.0	12833.7	15069.2	26655.9	73070.7
Driver	man day	797.0	1612.8	1643.0	1820.1	2974.9	8847.8
Operator	man day	189.3	363.6	354.2	285.0	294.4	1486.5
MATERIAL :							
Bitumen	l	0.0	810.0	1890.0	7830.0	23085.0	33615.0
Asphalt Oil	l	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	l	0.0	90.0	210.0	870.0	2565.0	3735.0
Sand	m ³	2.5	20.7	40.6	150.3	432.6	646.7
Cement	bag	37.2	83.4	81.9	77.6	74.6	354.7
River Stone	m ³	0.0	0.0	0.0	0.0	0.0	0.0
Steel Houlds	set	0.0	0.0	0.0	0.0	0.0	0.0
Tiaber	m ³	16.3	31.1	30.9	32.2	52.5	163.0
Paint	l	113.9	215.7	214.3	223.3	368.4	1135.6
Reinforcing Steel	kg	191.5	428.5	420.8	398.7	383.3	1822.8
Tying Wire	kg	1.7	3.8	3.8	3.6	3.4	16.3
Equivalent Royalty	m ³	1736.7	3376.6	3429.6	3305.8	4877.5	16726.2

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

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	269.9	606.2	653.6	1073.6	1108.2	3709.5
Swamp Bulldozer	hr	0.0	5.7	33.0	47.3	34.6	120.6
Motor Grader	hr	1459.2	3135.9	3324.6	4154.9	3976.7	16051.3
Hand-guide Vib. Roller	hr	246.8	666.2	451.9	1243.4	3956.3	6564.6
Tire Roller	hr	1333.3	3312.8	3634.9	3605.2	2481.9	14368.1
Vibratory Roller (O&I)	hr	801.5	1726.3	1888.0	2732.6	2613.7	9760.1
Hydraulic Excavator; Wheel	hr	10.4	36.0	233.3	292.6	297.9	870.2
Wheel Loader	hr	1442.0	3519.0	3861.4	4934.4	4738.1	18494.9
Water Tank Truck	hr	546.2	1222.6	1327.4	1808.9	1669.4	6574.5
Dump Truck	hr	12655.6	28836.3	31073.6	41626.4	43330.6	157722.5
Flat Bed Truck with Crane	hr	2192.8	4622.1	4094.6	4212.9	6555.2	21677.6
Flat Bed Truck	hr	2822.8	6430.1	6700.0	6730.5	6841.4	29524.8
Portable Crusher/Screening	hr	411.4	1098.2	1234.1	1363.7	1255.4	5362.8
Concrete Mixer	hr	160.2	462.8	164.1	222.9	755.1	1765.1
Water Pump	hr	459.2	1369.1	441.4	574.5	1846.4	4690.6
Concrete Vibrator	hr	38.1	99.2	47.8	56.7	129.0	370.8
Asphalt Sprayer	hr	888.8	2463.2	2817.7	2988.3	1952.7	11110.7
LABOUR :							
Mandor	man day	1819.0	3940.1	3786.3	4722.3	5979.7	20247.4
Skilled Labourer	man day	1280.9	3489.7	2968.6	3622.2	5906.1	17267.5
Carpenter	man day	333.2	866.6	527.0	571.1	1394.5	3692.4
Mason	man day	154.9	460.8	149.2	219.3	858.8	1843.0
Labourer	man day	21348.3	43719.3	42614.2	53246.5	63759.3	224687.6
Driver	man day	3356.8	7617.4	8022.2	9957.0	10520.4	39473.8
Operator	man day	1334.1	3163.2	3410.4	4245.6	4242.3	16395.6
MATERIAL :							
Bitumen	l	216666.6	578643.2	666119.1	736236.2	499074.5	2696739.6
Asphalt Oil	l	29333.3	85956.6	97653.2	98615.0	64441.6	375999.7
Kerosene	l	42666.6	118913.2	136046.6	144309.9	96298.3	538234.6
Sand	m ³	571.0	1607.9	1580.0	1742.2	1977.0	7478.1
Cement	bag	627.5	1658.4	767.3	926.7	2256.3	6236.2
River Stone	m ³	184.1	548.0	176.0	254.0	969.8	2131.9
Steel Moulds	set	115.2	197.8	131.8	177.2	372.0	994.0
Timber	m ³	28.0	71.9	44.8	48.7	119.1	312.5
Paint	l	113.9	222.4	223.2	235.0	530.6	1325.1
Reinforcing Steel	kg	8563.4	24299.3	10470.5	12261.2	29035.7	84630.1
Tying Wire	kg	77.8	220.6	95.1	111.2	263.6	768.3
Equivalent Royalty	m ³	23506.1	55923.0	60854.4	76686.1	71749.1	288718.7

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

PROV : SUMATERA SELATAN

KAB : MUSI RAWAS

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		142,442	344,962	374,084	478,832	448,317	1,788,637
Bulldozer/Ripper	15567	4,201	9,436	10,174	16,712	17,220	57,743
Swamp Bulldozer	11470	0	65	378	542	396	1,381
Motor Grader	13292	13,487	30,389	33,328	47,027	45,824	170,055
Hand-guide Vib. Roller	1497	369	862	362	558	2,082	4,233
Tire Roller	10586	9,408	26,075	29,828	31,634	20,671	117,616
Vibratory Roller (D&T)	6635	5,317	11,454	12,513	18,130	17,341	64,755
Hydraulic Excavator; Wheel	12463	129	448	2,907	3,646	3,712	10,842
Wheel Loader	16425	21,672	53,888	59,448	77,215	72,164	284,387
Water Tank Truck	3820	2,086	4,670	5,070	6,909	6,377	25,112
Dump Truck	5216	62,175	142,013	152,315	200,750	189,536	746,789
Flat Bed Truck with Crane	4932	1,485	3,918	1,527	2,060	6,478	15,468
Flat Bed Truck	3250	3,768	10,320	11,289	12,093	9,124	46,594
Portable Crusher/Screening	43094	15,087	42,180	47,946	53,669	46,468	205,350
Concrete Mixer	8338	1,314	3,811	1,321	1,814	6,253	14,513
Water Pump	460	210	627	200	261	846	2,144
Concrete Vibrator	302	10	28	12	15	37	102
Asphalt Sprayer	1940	1,724	4,778	5,466	5,797	3,788	21,553
LABOUR :		46,534	104,387	100,086	127,494	130,698	509,199
Handur	2750	3,494	7,800	7,278	9,349	10,065	37,986
Skilled Labourer	2200	2,063	6,104	4,791	5,209	6,832	24,999
Carpenter	3850	580	1,997	698	818	3,127	7,220
Mason	3850	596	1,774	574	844	3,306	7,094
Labourer	1650	25,118	51,698	49,137	62,992	61,220	250,165
Driver	3500	8,959	21,016	22,327	28,479	26,409	107,190
Operator	5000	5,724	13,998	15,281	19,803	19,739	74,545
MATERIAL :		138,366	377,411	404,120	438,845	332,271	1,691,013
Bitumen	380	82,333	219,576	252,407	276,794	180,876	1,011,986
Asphalt Oil	800	23,466	68,765	78,122	78,892	51,553	300,798
Kerosene	250	10,666	29,705	33,959	35,859	23,433	133,622
Sand	7000	3,979	11,110	10,775	11,143	10,810	47,817
Cement	4000	2,361	6,300	2,741	3,396	8,726	23,524
River Stone	8000	1,472	4,384	1,408	2,032	7,758	17,054
Steel Moulds	7000	806	1,384	922	1,240	2,604	6,956
Timber	90000	1,053	3,672	1,251	1,485	5,994	13,455
Paint	3500	0	23	31	40	567	661
Reinforcing Steel	800	6,697	19,096	8,039	9,490	22,921	66,243
Tying Wire	1200	91	260	109	129	312	901
Equivalent Royalty	250	5,442	13,136	14,356	18,345	16,717	67,996

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

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		33,856	67,374	68,000	69,877	106,289	345,396
Bulldozer/Ripper	15567	0	0	0	0	0	0
Swamp Bulldozer	11470	0	0	0	0	0	0
Motor Grader	13292	5,908	11,292	10,862	8,199	7,034	43,295
Hand-guide Vib. Roller	1497	0	134	314	1,302	3,839	5,589
Tire Roller	10586	4,705	8,993	8,650	6,530	5,602	34,480
Vibratory Roller (D&T)	6635	0	0	0	0	0	0
Hydraulic Excavator; Wheel	12463	0	0	0	0	0	0
Wheel Loader	16425	2,012	3,910	3,974	3,831	5,658	19,385
Water Tank Truck	3820	0	0	0	0	0	0
Dump Truck	5216	3,835	8,396	9,764	16,373	37,519	75,887
Flat Bed Truck with Crane	4932	9,329	18,877	18,667	18,717	25,851	91,441
Flat Bed Truck	3250	5,405	10,577	10,485	9,780	13,110	49,357
Portable Crusher/Screening	43094	2,641	5,145	5,235	5,098	7,631	25,750
Concrete Mixer	8338	20	47	46	44	42	199
Water Pump	460	1	2	2	2	2	9
Concrete Vibrator	302	0	1	1	1	1	4
Asphalt Sprayer	1940	0	0	0	0	0	0
LABOUR :		16,804	33,846	34,898	40,435	70,647	196,630
Mandur	2750	1,507	3,034	3,133	3,637	6,379	17,690
Skilled Labourer	2260	754	1,573	1,739	2,759	6,161	12,986
Carpenter	3850	702	1,339	1,330	1,380	2,241	6,992
Mason	3850	0	0	0	0	0	0
Labourer	1650	10,106	20,438	21,175	24,864	43,982	120,565
Driver	3500	2,789	5,644	5,750	6,370	10,412	30,965
Operator	5000	946	1,818	1,771	1,425	1,472	7,432
MATERIAL :		2,619	5,549	6,109	9,381	20,282	43,940
Bitumen	380	0	307	718	2,975	8,772	12,772
Asphalt Oil	800	0	0	0	0	0	0
Kerosene	250	0	22	52	217	641	932
Sand	7000	17	144	284	1,052	3,028	4,525
Cement	4000	148	333	327	310	298	1,416
River Stone	8000	0	0	0	0	0	0
Steel Moulds	7000	0	0	0	0	0	0
Timber	90000	1,467	2,799	2,781	2,898	4,725	14,670
Paint	3500	398	754	750	781	1,289	3,972
Reinforcing Steel	800	153	342	336	318	306	1,455
Tying Wire	1200	2	4	4	4	4	18
Equivalent Royalty	250	434	844	857	826	1,219	4,180

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

PROV : SUMATERA SELATAN

KAB : MUSI RAWAS

(1000 Rp)

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		176,298	412,336	442,084	548,709	554,606	2,134,033
Bulldozer/Ripper	15567	4,201	9,436	10,174	16,712	17,220	57,743
Swamp Bulldozer	11470	0	65	378	542	396	1,381
Motor Grader	13292	19,395	41,681	44,190	55,226	52,858	213,350
Hand-guide Vib. Roller	1497	369	996	676	1,860	5,921	9,822
Tire Roller	10586	14,113	35,068	38,478	38,164	26,273	152,096
Vibratory Roller (D&T)	6635	5,317	11,454	12,513	18,130	17,341	64,755
Hydraulic Excavator; Wheel	12463	129	448	2,907	3,646	3,712	10,842
Wheel Loader	16425	23,684	57,798	63,422	81,046	77,822	303,772
Water Tank Truck	3820	2,086	4,670	5,070	6,909	6,377	25,112
Dump Truck	5216	66,010	150,409	162,079	217,123	227,055	822,676
Flat Bed Truck with Crane	4932	10,814	22,795	20,194	20,777	32,329	106,909
Flat Bed Truck	3250	9,173	20,897	21,774	21,873	22,234	95,951
Portable Crusher/Screening	43094	17,728	47,325	53,181	58,767	54,099	231,100
Concrete Mixer	8338	1,334	3,858	1,367	1,858	6,295	14,712
Water Pump	460	211	629	202	263	848	2,153
Concrete Vibrator	302	10	29	13	16	38	106
Asphalt Sprayer	1940	1,724	4,778	5,466	5,797	3,788	21,553
LABOUR :		63,338	138,233	134,984	167,929	201,345	705,829
Handur	2750	5,001	10,834	10,411	12,986	16,444	55,676
Skilled Labourer	2200	2,817	7,677	6,530	7,968	12,993	37,985
Carpenter	3850	1,282	3,336	2,028	2,198	5,368	14,212
Mason	3850	596	1,774	574	844	3,306	7,094
Labourer	1650	35,224	72,136	70,312	87,856	105,202	370,730
Driver	3500	11,748	26,660	28,077	34,849	36,821	138,155
Operator	5000	6,670	15,816	17,052	21,228	21,211	81,977
MATERIAL :		140,985	382,960	410,229	448,226	352,553	1,734,953
Bitumen	380	82,333	219,883	253,125	279,769	189,648	1,024,758
Asphalt Oil	800	23,466	68,765	78,122	78,892	51,553	300,798
Kerosene	250	10,666	29,727	34,011	36,076	24,074	134,554
Sand	7000	3,996	11,254	11,059	12,195	13,838	52,342
Cement	4000	2,509	6,633	3,068	3,706	9,024	24,940
River Stone	8000	1,472	4,384	1,408	2,032	7,758	17,054
Steel Houlds	7000	806	1,384	922	1,240	2,604	6,956
Timber	90000	2,520	6,471	4,032	4,383	10,719	28,125
Paint	3500	398	777	781	821	1,856	4,633
Reinforcing Steel	800	6,850	19,438	8,375	9,808	23,227	67,698
Tying Wire	1200	93	264	113	133	316	919
Equivalent Royalty	250	5,876	13,980	15,213	19,171	17,936	72,176

Appendix A-6

QUANTITIES OF BRIDGE ON PROPOSED ROAD LINKS

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO	BRIDGE NAME	Km	From	((TYPE))		DESIGN LOAD CLASS	SPAN CLASS	LENGTH (m)	SPAN NO (no)	SPAN LENGTH (m)	WIDTH (m)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)							(EXIST) (m2)	(NEW) (m2)			
5	BUNGIN	4	X	KK				18.00	3	6.00	4.00	72.00		2	2	IIIC
	N.I	14	NGDA	KK				8.00	4	2.00	4.00	32.00		3	2	
	N.I	14	NGDA	KK				26.00	6	4.33	4.00	104.00		5	2	
8	TEHELAT	12	X	GB				32.00	5	6.40	4.00	128.00		4	2	IIIB-2
	BAUNG	16	SKKR	GB				13.00	3	4.33	4.00	52.00		2	2	
	KUNGKU	22	SKKY	GB				23.00	5	4.60	4.00	92.00		4	2	
	GATAL	27	SKKY	GB				10.00	3	3.33	4.00	40.00		2	2	
	LAMBAN AKO	24	SKKY	GB				8.00	3	2.67	4.00	32.00		2	2	
	OYAN	26	SKKY	--	TH	10T	(B)	10.00	2	5.00	4.00	0.00	40.00	1	2	
	A. BARAU	26	X	KK				13.00	5	2.60	4.00	52.00		4	2	
12	N.I	1	TBPN	--	RC	BNSO	(D)	9.00	1	9.00	4.50	0.00	40.50	0	2	IIIA
	AIR SERUT	6	TBPN	KB				5.50	1	5.50	4.40	24.20		0	2	
	ANAK AIR KUTI	4	TBPN	KB				5.50	1	5.50	5.00	27.50		0	2	
	HESAI	4	TBPN	GB				19.00	2	9.50	3.50	66.50		1	2	
	AIR KUTI	1	TBPN	GB				17.00	4	4.25	5.00	85.00		3	2	
13	JUKUNG	3	TBRJ	--	RC	BNSO	(C)	6.00	1	6.00	4.50	0.00	27.00	0	2	IIIA
	TEMAH	1	TBRJ	--	RC	BNSO	(D)	20.00	2	10.00	4.50	0.00	90.00	1	2	
14	N.I	2	X	KB				4.00	1	4.00	3.50	14.00		0	2	IIIA
	AIR MEGANG	10	MGHJ	KB				24.00	7	3.43	3.50	84.00		6	2	
	AIR SENARO	19	MGHJ	LL				13.00	1	13.00	3.50	45.50		0	2	
24	SUBANAYAM	6	X	KB				10.00	2	5.00	3.50	35.00		1	2	IIIA
	N.I	7	SKTN	KB				3.00	1	3.00	3.50	10.50		0	2	
26	AIR MEGANG	1	X	KK	RC	BNSO	(C)	16.00	2	8.00	4.50	64.00	72.00	1	2	IIIA
	AFVUR IRIBASI	3	WKSR	KB				5.00	1	5.00	3.50	17.50		0	2	
	N.I	8	WKSR	KK				4.00	1	4.00	3.50	14.00		0	2	
	N.I	9	WKSR	KK	RC	BNSO	(B)	5.00	1	5.00	4.50	17.50	22.50	0	2	
	AIR DERAS	10	WKSR	--	RC	BNSO	(D)	10.00	1	10.00	4.50	0.00	45.00	0	2	
29	AIRKETUANBESAR	8	X	KK				8.00	1	8.00	3.50	28.00		0	2	IIIA
	AIRKETUANBESAR	9	DJYA	LL				8.00	1	8.00	3.50	28.00		0	2	
31	N.I	0	X	KB				3.00	1	3.00	3.00	9.00		0	2	IIIA
	AIRKETUANBESAR	0	TRKY	KB				5.00	1	5.00	3.50	17.50		0	2	
	AIRKETUANBESAR	8	TRKY	KK				3.00	1	3.00	3.50	10.50		0	2	
37	JERNIH	3	X	KK	RC	BNSO	(C)	8.00	1	8.00	4.50	28.00	36.00	0	2	IIIA
	PANCUR	5	KRYR	LL				8.00	2	4.00	3.50	28.00		1	2	
	PUTIH	8	KRYR	LL				15.00	4	3.75	3.50	52.50		3	2	
	TINGKIP	14	KRYR	KK				30.00	8	3.75	3.50	105.00		7	2	
	REMPAN	16	KRYR	LL				9.00	3	3.00	3.50	31.50		2	2	
	KERSIK	22	KRYR	LL				8.00	1	8.00	3.50	28.00		0	2	
	HIBUNG	26	KRYR	LL				17.00	1	17.00	3.50	59.50		0	2	
	RIDAN	28	KRYR	LL				18.00	1	18.00	3.50	63.00		0	2	

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO	BRIDGE NAME	Km	FROA	((TYPE))		DESIGN LOAD	SPAN CLASS	LENGTH (m)	SPAN NO	SPAN LENGTH (m)	WIDTH (m)	AREA (EXIST) (m2)	AREA (NEW) (m2)	PIER (no)	ABUT (no)	ROAD CLASS	
				(EXIST)	(NEW)												
1	BETUAH	1	SRRS	KK				18.00	5	3.60	3.50	63.00		4	2	111A	
	KEPAYANG	2	SRRS	KK				13.00	3	4.33	3.50	45.50		2	2		
	TELIKANG	6	SRRS	KK				18.50	4	4.63	3.50	64.75		3	2		
	BANDING DUA I	8	SRRS	LL	RC	BMSO	(D)	18.00	2	9.00	4.50	63.00	81.00	1	2		
	BANDING DUA	8	SRRS	LL				21.50	4	5.38	3.50	75.25		3	2		
	PUTING BELIUNG	10	SRRS	KK				12.00	2	6.00	3.50	42.00		1	2		
	PELAS	11	SRRS	KK				12.00	2	6.00	3.50	42.00		1	2		
	AWI	12	SRRS	KK				17.00	3	5.67	3.50	59.50		2	2		
	KANDANG	13	SRRS	KK				15.50	2	7.75	3.50	54.25		1	2		
	SUBAN	15	SRRS	KK				26.70	5	5.34	3.50	93.45		4	2		
	BEDAH	16	SRRS	LL				8.40	1	8.40	3.50	29.40		0	2		
	SALIK	17	SRRS	KK				11.00	1	11.00	3.50	38.50		0	2		
	TIMBANGAN	18	SRRS	KK				18.50	4	4.63	3.50	64.75		3	2		
	PENDAM I	20	SRRS	KK				12.00	2	6.00	3.50	42.00		1	2		
	PENDAM II	20	SRRS	KK				14.50	3	4.83	3.50	50.75		2	2		
	LANBAN	21	SRRS	KK				19.00	3	6.33	3.50	66.50		2	2		
	MUARA NILAU	23	SRRS	LL				6.00	1	6.00	3.50	21.00		0	2		
	KELEBANG	23	SRRS	KK				5.00	1	5.00	3.50	17.50		0	2		
	MUARA NILAU II	23	SRRS	LL				4.00	1	4.00	3.50	14.00		0	2		
	BATU KURSI	23	SRRS	KK				8.00	1	8.00	3.50	28.00		0	2		
	TELUK SELANG	24	SRRS	KK				10.00	11	0.91	3.50	35.00		10	2		
	BERINGIN	24	SRRS	KK				11.00	1	11.00	3.50	38.50		0	2		
	GEMURU	24	SRRS	KK				8.50	1	8.50	3.50	29.75		0	2		
	SELANG	25	SRRS	KK				10.00	1	10.00	3.50	35.00		0	2		
	SETIAN	25	SRRS	KK				17.00	2	8.50	3.50	59.50		1	2		
	SIMPUR	26	SRRS	KK				21.00	4	5.25	3.50	73.50		3	2		
	HENALU	28	SRRS	KK				15.50	3	5.17	3.50	54.25		2	2		
	PANDAN	28	SRRS	KK				13.50	2	6.75	3.50	47.25		1	2		
	TEBAT	30	SRRS	KK				6.00	1	6.00	3.50	21.00		0	2		
	KEJATAH	30	SRRS	--	RC	BMSO	(D)	10.00	1	10.00	4.50	0.00	45.00		0		2
	NAPALBANJUR	30	SRRS	KK				6.00	1	6.00	3.50	21.00		0	2		
SELEBAL	31	SRRS	KK				4.00	1	4.00	3.50	14.00		0	2			
TEMIANG	31	SRRS	KK				16.00	2	8.00	3.50	56.00		1	2			
2	CENDAND	0	X	LL				17.00	2	8.50	3.50	59.50		1	2	111B-1	
	GALIAN TANAH	0	HRPT	LL				19.00	2	9.50	3.50	66.50		1	2		
	LEBUNG DANGAU	0	HRPT	KK				4.00	1	4.00	3.50	14.00		0	2		
	AIRITAN	0	HRPT	GB				28.00	2	14.00	3.50	98.00		1	2		
	N.I	0	HRPT	KK				11.50	4	2.88	3.50	40.25		3	2		
	N.I	17	HRPT	KK				4.00	1	4.00	3.50	14.00		0	2		
	N.I	12	HRPT	LL				15.00	3	5.00	3.50	52.50		2	2		
	N.I	0	HRPT	GB				15.50	4	3.88	3.50	54.25		3	2		
	N.I	0	HRPT	KK				13.00	4	3.25	3.50	45.50		3	2		
	N.I	0	HRPT	KK				11.60	3	3.87	3.50	40.60		2	2		
	N.I	0	HRPT	KK				11.00	3	3.67	3.50	38.50		2	2		
	N.I	0	HRPT	KK				18.00	5	3.60	3.50	63.00		4	2		
4	N.I	1	X	RB				7.00	3	2.33	4.50	31.50		2	2	111C	
	N.I	3	SAKA	RB				22.00	5	4.40	4.50	99.00		4	2		
	N.I	9	SAKA	RB				14.00	8	1.75	4.50	63.00		7	2		
	BESAR	10	SAKA	RB				10.00	4	2.50	4.50	45.00		3	2		

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

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 1 (IIIA) LENGTH : 31 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3m; BH50)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5m; BH50)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8m; BH50)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3m; BH50)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5m; BH50)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8m; BH50)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete; Span 10m; BH50)	m2	126.00	54,456	120,445	6,861,456	15,176,070	22,037,526
Superstructure (Concrete; Span 15m; BH50)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	1.00	1,726,659	456,252	1,726,659	456,252	2,182,911
Substructure (Abut; for Concrete; BH50)	NO	4.00	3,593,712	964,078	14,374,848	3,856,312	18,231,160
Demolition of Bridge (Timber-)Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber-)Concrete)	m2	63.00	11,358	1,728	715,554	108,864	824,418
Demolition of Bridge (Concrete)	m2	0.00	81,147	88,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	126.00	1,810	2,591	229,068	326,466	555,534
Maintenance of Timber Bridge (Exist)	m2	1396.85	7,533	2,513	10,522,471	3,510,284	14,032,755
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,153	2,360	0	0	0
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		23,678,517	19,597,498	43,276,015
			TOTAL COST (without Maintenance)		23,678,517	19,597,498	43,276,015
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		27,230,295	22,537,123	49,767,417
			TOTAL COST (without Maintenance)		27,230,295	22,537,123	49,767,417

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 37 (IIIA) LENGTH : 28 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5m; IOT)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8m; IOT)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3m; BH50)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5m; BH50)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8m; BH50)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3m; BH50)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5m; BH50)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8m; BH50)	m2	36.00	49,743	106,046	1,790,748	3,817,656	5,608,404
Superstructure (Concrete; Span 10m; BH50)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete; Span 15m; BH50)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; IOT)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; IOT)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	2.00	3,593,712	964,078	7,187,424	1,928,156	9,115,580
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	28.00	11,358	1,728	318,024	48,384	366,408
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	36.00	1,818	2,591	65,448	93,276	158,724
Maintenance of Timber Bridge (Exist)	m2	367.50	7,533	2,513	2,768,377	923,527	3,691,904
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,153	2,360	0	0	0
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		9,296,196	5,794,196	15,090,392
			TOTAL COST (without Maintenance)		9,296,196	5,794,196	15,090,392
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		10,690,625	6,663,325	17,353,951
			TOTAL COST (without Maintenance)		10,690,625	6,663,325	17,353,951

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 2 (IIB-1) LENGTH : 35 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 101)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 4; 101)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8a; 101)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3a; BMSO)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5a; BMSO)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8a; BMSO)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3a; BMSO)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5a; BMSO)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8a; BMSO)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete; Span 10a; BMSO)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete; Span 15a; BMSO)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; 101)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; 101)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,593,712	964,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	434.35	7,533	2,513	3,271,958	1,091,521	4,363,479
Maintenance of Concrete Bridge (Exist)	m2	152.25	4,153	2,360	632,294	359,310	991,604
<hr/>							
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 4 (IIIC) LENGTH : 12 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 101)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5m; 101)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8m; 101)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	50,155	5,719	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; 101)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; 101)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,593,712	964,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	238.50	4,153	2,360	990,490	562,860	1,553,350
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 5 (IIC) LENGTH : 24 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5m; IOT)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8m; IOT)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3m; BHSO)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5m; BHSO)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8m; BHSO)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3m; BHSO)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5m; BHSO)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8m; BHSO)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete; Span 10m; BHSO)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete; Span 15m; BHSO)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; IOT)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; IOT)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BHSO)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BHSO)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BHSO)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut; for Concrete; BHSO)	NO	0.00	3,593,712	964,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	208.00	7,533	2,513	1,566,864	522,704	2,089,568
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,153	2,360	0	0	0
<hr/>							
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 8 (IIB-2) LENGTH : 15 Km

(Rp)

I T E R	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5m; IOT)	m2	40.00	44,803	5,106	1,792,120	204,240	1,996,360
Superstructure (Timber; Span 8m; IOT)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3m; BN50)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5m; BN50)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8m; BN50)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3m; BN50)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5m; BN50)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8m; BN50)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete; Span 10m; BN50)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete; Span 15m; BN50)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; IOT)	NO	1.00	352,367	43,111	352,367	43,111	395,478
Substructure (Abut; for Timber; IOT)	NO	2.00	989,321	189,409	1,978,642	378,818	2,357,460
Substructure (Pier; for Timber; BN50)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BN50)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BN50)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut; for Concrete; BN50)	NO	0.00	3,593,712	964,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	40.00	7,487	1,343	299,480	53,720	353,200
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	52.00	7,533	2,513	391,716	130,676	522,392
Maintenance of Concrete Bridge (Exist)	m2	344.00	4,153	2,360	1,428,632	811,840	2,240,472
(Without Overhead)			TOTAL COST (Timber Bridge)		4,123,129	626,169	4,749,298
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		4,123,129	626,169	4,749,298
(Overhead : 15%)			TOTAL COST (Timber Bridge)		4,741,598	720,094	5,461,693
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		4,741,598	720,094	5,461,693

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINE NO : 12 (IIIA) LENGTH : 6 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	40.50	54,456	120,445	2,205,468	4,878,022	7,083,490
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	2.00	3,593,712	964,078	7,187,424	1,928,156	9,115,580
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	40.50	1,818	2,591	73,629	104,935	178,564
Maintenance of Timber Bridge (Exist)	m2	0.00	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	203.20	4,153	2,360	843,889	479,552	1,323,441
(Without Overhead)							
			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		9,392,892	6,806,178	16,199,070
			TOTAL COST (without Maintenance)		9,392,892	6,806,178	16,199,070
(Overhead : 15%)							
			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		10,801,826	7,827,105	18,628,931
			TOTAL COST (without Maintenance)		10,801,826	7,827,105	18,628,931

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 13 (IIIA) LENGTH : 8 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3m; BH50)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5m; BH50)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8m; BH50)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3m; BH50)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5m; BH50)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8m; BH50)	m2	27.00	49,743	106,046	1,343,061	2,863,242	4,206,303
Superstructure (Concrete; Span 10m; BH50)	m2	90.00	54,456	120,445	4,901,040	10,840,050	15,741,090
Superstructure (Concrete; Span 15m; BH50)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	1.00	1,726,659	456,252	1,726,659	456,252	2,182,911
Substructure (Abut; for Concrete; BH50)	NO	4.00	3,593,712	964,078	14,374,848	3,856,312	18,231,160
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	117.00	1,818	2,591	212,706	303,147	515,853
Maintenance of Timber Bridge (Exist)	m2	0.00	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,153	2,360	0	0	0
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		22,345,608	18,015,856	40,361,464
			TOTAL COST (without Maintenance)		22,345,608	18,015,856	40,361,464
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		25,697,449	20,718,234	46,415,684
			TOTAL COST (without Maintenance)		25,697,449	20,718,234	46,415,684

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINE NO : 14 (IIIA) LENGTH : 21 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber; Span 3a; BH50)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber; Span 5a; BH50)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber; Span 8a; BH50)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete; Span 3a; BH50)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete; Span 5a; BH50)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete; Span 8a; BH50)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete; Span 10a; BH50)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete; Span 15a; BH50)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,593,712	984,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	45.50	7,533	2,513	342,751	114,341	457,092
Maintenance of Concrete Bridge (Exist)	m2	98.00	4,153	2,360	406,994	231,280	638,274
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : MUBI RAWAS

LINK NO : 24 (IIIA) LENGTH : 10 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber;Span 3m;BMSO)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber;Span 5m;BMSO)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber;Span 8m;BMSO)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete;Span 3m;BMSO)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete;Span 5m;BMSO)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete;Span 8m;BMSO)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete;Span10m;BMSO)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete;Span15m;BMSO)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier;for Timber;BMSO)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut;for Timber;BMSO)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier;for Concrete;BMSO)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut;for Concrete;BMSO)	NO	0.00	3,593,712	964,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	60,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	7,533	2,513	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	45.50	4,153	2,360	188,961	107,380	296,341
<hr/>							
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 26 (IIIA) LENGTH : 10 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber;Span 3a;BHSO)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber;Span 5a;BHSO)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber;Span 8a;BHSO)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete;Span 3a;BHSO)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete;Span 5a;BHSO)	m2	22.50	48,244	97,358	1,085,490	2,190,555	3,276,045
Superstructure (Concrete;Span 8a;BHSO)	m2	72.00	49,743	106,046	3,581,496	7,635,312	11,216,808
Superstructure (Concrete;Span10a;BHSO)	m2	45.00	54,456	120,445	2,450,520	5,420,025	7,870,545
Superstructure (Concrete;Span15a;BHSO)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier;for Timber;BHSO)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier;for Concrete;BHSO)	NO	1.00	1,726,659	456,252	1,726,659	456,252	2,182,911
Substructure (Abut;for Concrete;BHSO)	NO	6.00	3,593,712	964,078	21,562,272	5,784,468	27,346,740
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	81.50	11,358	1,728	925,677	140,832	1,066,509
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	139.50	1,818	2,591	253,611	361,444	615,055
Maintenance of Timber Bridge (Exist)	m2	14.00	7,533	2,513	105,462	35,182	140,644
Maintenance of Concrete Bridge (Exist)	m2	17.50	4,153	2,360	72,677	41,300	113,977
(Without Overhead)	TOTAL COST (Timber Bridge)				0	0	0
	TOTAL COST (Concrete Bridge)				31,332,114	21,627,444	52,959,558
	TOTAL COST (without Maintenance)				31,332,114	21,627,444	52,959,558
(Overhead : 15%)	TOTAL COST (Timber Bridge)				0	0	0
	TOTAL COST (Concrete Bridge)				36,031,931	24,871,561	60,903,492
	TOTAL COST (without Maintenance)				36,031,931	24,871,561	60,903,492

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 29 (IIIA) LENGTH : 12 Km

(Rp 1

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	40,449	4,625	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber;Span 3m;BH50)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber;Span 5m;BH50)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber;Span 8m;BH50)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete;Span 3m;BH50)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete;Span 5m;BH50)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete;Span 8m;BH50)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete;Span10m;BH50)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete;Span15m;BH50)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,593,712	964,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	56.00	7,533	2,513	421,848	140,728	562,576
Maintenance of Concrete Bridge (Exist)	m2	0.00	4,153	2,360	0	0	0
(Without Overhead)							
			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
(Overhead : 15%)							
			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SUMATERA SELATAN KAB : MUSI RAWAS

LINK NO : 31 (IIIA) LENGTH : 9 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3a;10T)	m2	0.00	40,449	1,625	0	0	0
Superstructure (Timber;Span 5a;10T)	m2	0.00	44,803	5,106	0	0	0
Superstructure (Timber;Span 8a;10T)	m2	0.00	59,342	6,704	0	0	0
Superstructure (Timber;Span 3a;BNSO)	m2	0.00	50,155	5,718	0	0	0
Superstructure (Timber;Span 5a;BNSO)	m2	0.00	54,754	6,193	0	0	0
Superstructure (Timber;Span 8a;BNSO)	m2	0.00	69,443	7,839	0	0	0
Superstructure (Concrete;Span 3a;BNSO)	m2	0.00	46,918	87,120	0	0	0
Superstructure (Concrete;Span 5a;BNSO)	m2	0.00	48,244	97,358	0	0	0
Superstructure (Concrete;Span 8a;BNSO)	m2	0.00	49,743	106,046	0	0	0
Superstructure (Concrete;Span10a;BNSO)	m2	0.00	54,456	120,445	0	0	0
Superstructure (Concrete;Span15a;BNSO)	m2	0.00	58,793	141,877	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	352,367	43,111	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	989,321	189,409	0	0	0
Substructure (Pier;for Timber;BNSO)	NO	0.00	518,232	63,825	0	0	0
Substructure (Abut;for Timber;BNSO)	NO	0.00	1,114,504	212,426	0	0	0
Substructure (Pier;for Concrete;BNSO)	NO	0.00	1,726,659	456,252	0	0	0
Substructure (Abut;for Concrete;BNSO)	NO	0.00	3,593,712	964,078	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	11,358	1,728	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	81,147	68,076	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	7,487	1,343	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,818	2,591	0	0	0
Maintenance of Timber Bridge (Exist)	m2	10.50	7,533	2,513	79,096	26,386	105,482
Maintenance of Concrete Bridge (Exist)	m2	26.50	4,153	2,360	110,054	62,540	172,594
(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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