APPENDIX

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

RV.	SULAWESI SELATAN	кав. : <i>ВА</i>	RRU	SURVEY YEA	R: 1983
Code No.	KECAMATAN NAME	CULTIVATED AREA: (PA)	YIELD RATE : (Y)	FARMER'S POPULATION:	CIRCULATED COMMODITY (PG)
01	TANETE RIAJA	5,175	2.2	20,390	0
02	TANETE RILAU	1,889	5.7	18,250	0
03	BARRU	2,690	5.6	21,220	0
04	SOPENG RIAJA	3,145	4.6	16,940	0
05	MALUSETASI	2,174	3.9	13,530	0
					1 4
	·				
				I	

	ľ1	f ₂	r ₃	r4	
ANNUAL % AVERAGE GROWTH RATE	3.0	2.0	1.0	5.3	

FARMER'S CONSUMPTION: (Cp)	NON-AGRO REQUIRMENT : (NG)	
0.13 Ton/head/year	0.058 Ton/	

		SEDAN	BUS	TRUCK	MOTOR CYCLE
RATE OF EACH VEHICLE TYPE	%	4.28	19.28	19.42	57.02

AVERAGE			
FREIGHT TONAGE	0.8	Ton/ _{Truck}	

Appendix A-2 Engineering Data

ROAD LINK DATA

PROVINCE : SULAWESI SELATAN

KABUPATEN: BARRU

LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LE		DEMARKS
NO.	(DESA NAME)	(DESA NAME)	(км)	KEC. NAME	LENGTH (KM)	REMARKS
01	Barru	Lakonrae	7	Barru	7	
02	R a 1 1 a	Bette	8	Tanete Riaja	8	
03	Coppeng- Coppeng	Bujung Banga	5	Tanete Rialau	5	
04	Bungi	Matajang	6	Tanete Rialau	6	
05	Pakkae	Pancana	7	Tanete Rialau	7	
06	Barru	Kamara	4	Barru	4	
07	Jampue	Garongkong	2	Barru	2	
08	Lakonrae	Tompo	6	Barru	6	
09	Takkalasi	Tompo	12	Barru Soppeng Riaja	5	
10	Lapao	Waepubbu	1	Barru	1	
11	Lampoko	Balusu	2	Soppeng Riaja	2	
12	Mangkoso	Paccekke	12	Soppeng Riaja Mallusetasi	8 4	
13	Mangkoso	Wiringtasi	3	Soppeng Riaja	3	
14	Awerange	Ujunge	1	Soppeng Riaja	1	
15	Palanro	Lanrae	6	Mallusetasi	6	
16	Palanro	Mareppang	4	Mallusetasi	4	
17	Lakonrae	Kaerengnge	6	Barru	6	
18	Tompo	Kaerengnge	3	Barru	3	
19	Kaerengnge	Watu	10	Barru Tanete Riaja	9	
20	Pancana	Butung	2	Tanete Rialau	2	
21	Doi-doi	Gattareng	36	Tanete Riaja	36	
22	Jalanru	Tille	8	Tanete Riaja	8	
23	Ralla	Jalanru	2	Tanete Riaja	2	
24	Pance	Ammerung	ò	Tanete Riaja	9	

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: SULAWESI SELATAN

KABUPATEN: BARRU

LINK	BEGINNING POINT	END POINT	LENGTH	THROUGH TH NAME & LE		REMARKS
NO.	(DESA NAME)	(DESA NAME)	(KM)	KEC. NAME	LENGTH (KM)	KEMMKO
25	Pakkae	Cinekko	1	Tanete Rialau	1	
26	Bottoe	Mate 'ne	3	Tanete Rialau	3	
27	Pekkapau	Lampomajang	6	Barru Tanete Rialau	2 4	
28	Bottoe	Madoo	3	Tanete Rialau	3	
29	Lapao	Madello	5	Barru	5	
30	Ujung	Cilellang	4	Mallusetasi	4	
31	Lojie	Војо	3	Mallusetasi	3	
32	Buludua	Ammerung	23	Tanete Riaja	23	
33	Coppeng- Coppeng	Pancana	2	Tanete Rialau	2	
34	Bungi	Ance	2	Tanete Rialau	2	
35	Cilellang	Maralleng	1	Tanete Rialau	1	
36	Lapasu	Buludua	1	Soppeng Riaja	1	
37	Lasinri	Maggajeng	1	Barru	1	
38	Lampomajang	Garongkong	5	Barru	5	
39	Lawallu	Tanrabalana	4	Soppeng Riaja	4	
40	Kiru-kiru	Ajakkang	3	Soppeng Riaja	3	
41	Cilellang	Barantang	4	Mallusetasi	4	
42	Lawampang	Baenagggge	16	Soppeng Riaja	16	<u></u>
43	Pekkapau	Salomoni	4	Tanete Rialau	4	
44	Parenring	Tille	6	Tanete Riaja	6	
45	E l e	Panincong	10	Tanete Riaja	10	
46	Ballewe	Waepubbu	3	Barru	3	
47	Parenring	Pettung	5	Tanete Riaja	5	
48	Mareto	Baramase	2	Tanete Rialau	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 : SULAWEST SELATAN

KABUPATEN: BARRU

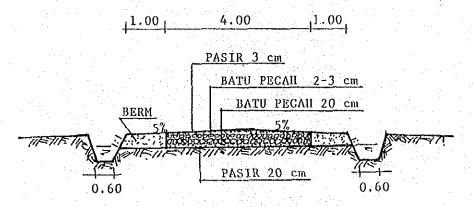
LINK	BEGINNING POINT	END POINT	LENGTH	Through th name & lei		DOMADINO
NO.	(DESA NAME)	(DESA NAME)	(KM)	KEC. NAME	LENGTH (KM)	REMARKS
49	Panincong	Pacciro	4	Tanete Riaja	4	
50	Palakka	Pange	4	Barru	4	
51	Siawung	Batubessi	6	Barru	6	
52	Lisu	Tokkene	3	Tanete Riaja	3	
53	Cilellang	Batumarajae	4	Tanete Rialau	4	
54	Pakkae	Cinaga	1	Tanete Rialau	1	
55	Barang	Kalompie	3	Barru	3	
56	Siddo	Kiru-kiru	3	Soppeng Riaja	3	
5,7	Rumpia	Kamiri	5	Soppeng Riaja	5	
58	Siddo	Ceppaga	3	Soppeng Riaja	3	
59	Lampoko	Bawasalo	3	Soppeng Riaja	3	
60	Pange	Doi-doi	3	Tanete Riaja	3	
61	Bette	Alekale	14	Tanete Riaja	14	
62	Lappabila	Balu-balu	2	Tanete Rialau	2	
63	Siawung	Panrengnge	2	Barru	2	
64	Bette	Pangi	4	Tanete Riaja	4	
·········			. :			
					:	
					1.	

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

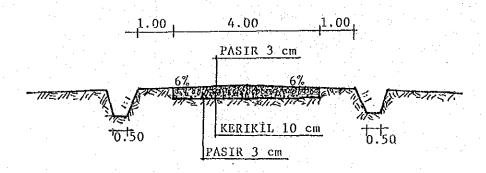
What Kind of Design Criteria has being applied for the new road construction and the improvement for the Kabupaten Road ? Kriteria Perencanaan yang dipakai pada program penanganan jalan Kabupaten, baik untuk jalan lama maupun pembangunan baru.

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)

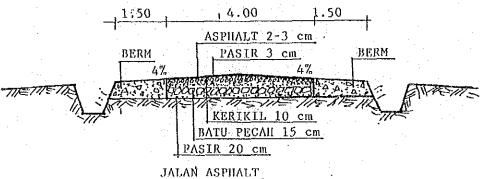
TYPICAL CROSS SECTION.



JALAN PERKERASAN MACADAM



JALAN KERIKIL



32-A-6

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1980/1981

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1980/1981

LINK NO . Nomor	LOCATION From - To	kerasan(m)	***************************************	LENGTH Panjang	COSTS	REMARKS Keterang
Ruas	(dari - ke)	Lebar Lembatan	Type Jembatan	(KM)	(Rp 10 ⁶)	an
and the same state of			#*************************************			
				1, 1		The second secon
	Page 1987 - Anna ann air bhaile ann ann ann ann ann ann ann ann ann an					
		and desired the second				
<u></u>						
· · · · · · · · · · · · · · · · · · ·			1			
						
· · · · · · · · · · · · · · · · · · ·						1

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

1. : Asphalt surface / penetrasi macadam

2. : Asphalt seal / pelaburan aspal

3. : Gravel / kerikil

4. : Gravel /AWCAS / kerikil / japat

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1981/1982

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1981/1982

LINK NO :	LOCATION From - To	Lebar per- kerasan(m)	Type perr kerasan	LENGTH Panjang	COSTS Harga	REMARKS Keterang-
Nomor Ruas	(dari - ke)	Lebar Jembatan	Type . Jembatan	(KM)	(Rp 10 ⁶)	an
28	BOTTOE-MADDO	4	Makadam	1.30	19,790	DATI II
02	RALLA-BETTE	4	Makadam	1.00	12,320	
31	LOJIE-BOJO	4	Makadam	1.50	20.115	
11	LAMPOKO-BALUSU	4	Makadam	1.95	25,250	
06	BARRU-KAMARA	4	Makadam	1.50	19,275	
27	PEKKAPAO-LIMPOMAJANG	4	Aspal	1.50	11,275	
65	IBUKOTA KEC. BARRU	4	Aspai	2.334	17,540	
36	LAPASU-BULUDUA	4	Makadam	0.55	7,603	
					: .	
01	BARU-LAKONRAE		Kerikil	6.00	33,006	
17	LAKONRAE-KAERENGE		Kerikil	6.00	39,281	
19	KAERENGE-WATU		Kerikil	10.00	59,555	
						

^{*} 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 INFROVED IN 1982/1983

Biaya konstruksi penanganan

jolan dan jembatan Kabupaten thn. 1982/1983

LINK NO .	LOCATION From - To	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang	COSTS Harga	REMARKS Keterang-
Nomor Ruas	(dari - ke)	Lebar Lembatan	Type . Jembatan	(KM)	(Rp 10 ⁶)	an
16	PALANRO-MAREPPANG	4	Telford	1.10	24,240	DATI II
13	MANGKOSO-WIRINGTASI	4	Telford	1.30	20,995	
65	IBUKOTA KEC. BARRU	4	Aspal	2.127	18,320	
26	BOTTOE-MATENE	4	Telford	1.00	20,515	
20	BUTUNG-PANCANA	4	Telford	1.00	24,830	
02	RALLA-BETTE	4	Telford	1.30	18,760	
09	TALAKASI-TOMPO	4	Kerikil	10.4	62,700	
			1			

^{*} PAVENENT TYPE : Pls note the appropriate No. below.

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

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1983/1984

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1983/1984

NO L'INK	LOCATION From - To	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang	COSTS Harga	REMARKS Keterang:
Nomor Ruas	(dari - ke)	Lebar Jembatan	Type Jembatan Telford	(KM)	(Rp 10 ⁶)	an .
16	PALANRO-MAREPPANG	. 4 2BH.2X4	Telford Beton	1.50	24,250	DATI II
58	SIDDO-CEPPAGA	4	Telford	1.50	24,560	
08	LAKONRAE-TOMPO	4	Telford	2.25	35,050	
04	BUNGI-MATAJANG	2BH 5,5X4	Telford Beton	1.50	33,305	
22	JALANRU-TILLE	4	Telford	1.50	23,500	
07	JAMPUE-GARONGKONG	4	Aspal	1.695	18,400	
19	KAERENGE-WATU			0.08	160,000	
•						
· .		-				
	*	•				
		•				

^{*} PAVEMENT TYPE : Pls note the appropriate No. below.

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

LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR INPROVED IN 1984/1985

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1984/1985

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m) Lebar		LENGTH Panjang	COSTS Harga	REMARKS Keterang
67	IBUKOTA KEC.MALLUSETASI	Jembatan 4	Tembatan Aspal	(KM) 2.245	(Rp 10 ⁶) 29,701	DATI II
66	IBUKOTA KEC.SOP.RIAJA	4	Aspal	1.00	13,194	,
37	LASINRI-MAGGANJENG	4 1BH 6X4	Telford Beton	0.55	27,455	
27	PEKKAPAO-LIMPOMAJANG	4 2X4	Telford Beton	1.00	33,909	
02	RALLA-BETTE	4	Telford	1.00	18,005	
65	IBUKOTA KEC.BARRU	4	'Aspal	2.655	39,200	DATI I
						angalain kira kapapanga <u>ng pengangan</u> an dikabangkang
				1 - 41 1 - 41		

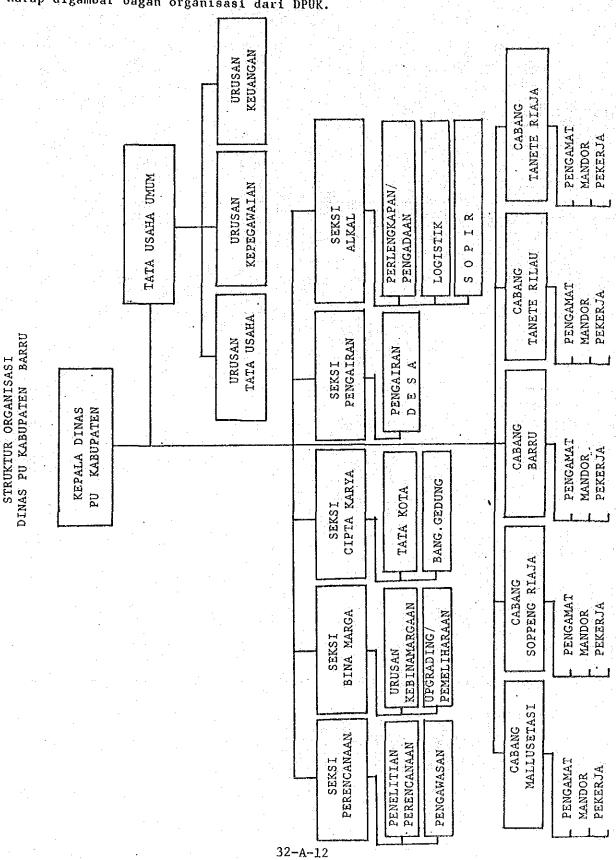
^{*} PAVEMENT TYPE : Pls note the appropriate No. below.

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

EXISTING ORGANIZATION IN KABUPATEN

Structur Organisasi yang ada dari P.U Kabupaten

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



EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATEN

Tenaga Dinas PUK yang ada

PROPINSI: SULAWESI SELATAN

KABUPATEN: BARRU

DESCRIPTION /Uraian	NUMBER / Jumlah	REMARKS Keterangan
CONTROLING STAFF Staff teknis PUK	Character and Community and Companying	particular to the second secon
DPUK ENGINEED Sarjana Teknik	2	
ASSISTANT ENGINEER Sarjana Muda Teknik	1.	
TECHNICIAN STAFF Staff Teknik (STM)	4	
ADMINISTRATION Tenaga Administrasi	3	
SUPERVISOR Tenaga Pengawas	2	
. WORKING FORCE Tenaga Pelaksana Lapangan		
OPERATORS Operators	3 10 10 10 10 10 10 10 10 10 10 10 10 10	
DRIVERS Supir	•	
MECHANICS Mechanic	4	
TRADESMAN Tukang		
L A B O U R Buruh / Pekerja		
OTHERS Lain-lain		
TOTAL / JUMLAU	19	

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

LOCATION AND AREA OF DPUK WORKSHOP

PROPINSI: SULAWESI SELATAN

KABUPATEN: BARRU

	LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Ì				
Ī		20,000	1	Disediakan untuk Lokasi

PROPINSI: SULAWESI SELATAN

KABUPATEN:

BARRU

E-07

LAND ACQUISITION COST Daftar harga pembebasan tanah

<u> </u>		
UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
M2	6,000	
M2	1,250	
M2	1,000	
M2	200	
M2		
M2		
M2	1,250	
M2	4,500	Perumahan
	Satuan M2 M2 M2 M2 M2 M2 M2 M2 M2 M	Satuan Harga M2 6,000 M2 1,250 M2 1,000 M2 200 M2 4,250 M2 1,250 M2 1,250

Classification of local contractors at Kabupaten level.

Klasifikasi kontraktor di Kabupaten

COMPANY NAME Nama Kontraktor	CLASS Kelas	CAPITAL Modal (Rp)	NUMBER OF EMPLOYEE Jumlah pegawai	REMARKS Keterangan
3	B1		7	
18	В2		8	الله والمواقعة المالية المواقعة والمواقعة والمواقعة والمواقعة والمواقعة والمواقعة المواقعة والمواقعة والمواقعة
19	C 1		7	
13	C2		8	
	1.			<u> </u>
				The second se
				- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

NOTE: DATI II

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

Name of contractor

NAME OF EQUIPMENT	EXISTIN	G CONI)ITION/	Kondi	si Peral	atan	REQUIRE -
Jenis peralatan	TYPE/ Tipe	P.Y	NUMBE GOOD Baik	R / Ju BAD Rusak	TOTAL	KEASON OF JAD CONDT CION/Sebal Kerusakan	MENT / Ke- butuhan peralatan baru
Bulldozer							
Motor Grader							
Tyre Roller							
Steel Whell Roller							
Vibration Roller				1.**			
Wheel Loader				1.			
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	l						
Pile Driver		<u> </u>			·		
Leg Drill						ļ	
Hand Hammer							\
Farm Tractor			.:				
Dump Truck;							
Water Tank Truck							
Fuel Tank Truck							
Pick Up				\			
Jeep						ļ	
Motorcycle							
Generator						<u> </u>	
Water Pump							
Others		ļ	ļ	<u> </u>		<u> </u>	
-						<u> </u>	

LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT	EXISTING CONDITION/ Kondisi Peralatan						REQUIRE -	
Jenis peralatan	TYPE/	P.Y	NUMBER / Jumlah			REASON OF SAD CONDI CION/Sebal	MENT / Ke- butuhan peralatan	
	Tipe		GOOD Baik	BAD Rusak	TOTAL Jumlah	Kerusakan	baru	
Bulldozer							2	
Motor Grader							2	
Tyre Roller						en e	I	
Steel Whell Roller							4	
Vibration Roller							1	
Wheel Loader							2	
Front End Loader and Backhoe							1	
Mobile Grane		14		. t.		•	1	
Concrete Mixer	14 · · · · · · · · · · · · · · · · · · ·		120				2	
Stone Crusher	.1	1979		1	1	e an Alexander	1	
Portable Compressor							1	
Hydraulic Excavator				:			1	
Asphalt Paving Machine			1	3.0			1	
Asphalt Sprayer			-				2	
Asphalt Mixing Machine							1	
Mobile Workshop							1	
Mechanic Rammer				<u> </u>			1	
Plate Tamper						<u></u>	1	
Pile Driver								
Leg Drill							L	
Hand Hammer							V = 5;	
Farm Tractor							1	
Dump Truck	1	1982	1		1		10/2	
Water Tank Truck							1	
Fuel Tank Truck				<u> </u>			1	
Pick Up				<u> </u>		<u> </u>	4.	
Jeep			ļ <u>.</u>			_	1	
Motorcycle	-1		ļ				15	
Generator			ļ	<u> </u>	<u> </u>	1	1	
Water Pump				<u> </u>			2	
Others				<u> </u>	ļ			
with the second			<u> </u>	<u> </u>		1		

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

PROV : SULAWESI SELATAN KAB : BARRU

LINK NO : 24 (IIIA) LENGTH : 9 Km

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

(((UNIT COST))) **>>>>>** (((((LOCAL LOCAL 3,276,000 36000.0 Site Clearance in Light Bush 166 9 5,976,000 9,252,000 - 11 **m**2 31863.0 350,493 Subgrade Preparation . 21 669,123 1,019,616 Normal Fill 631,450 1,884,130 730.0 865 1,252,680 1,716 43 398,556 Fill in Swamp ₽3 368.3 2,558 1,055 942,111 1,330,667 3,635,962 1,005 1,246,072 Normal Excavation to Spoil m3 2370.0 524 2,389,890 5,630,427 19,170,959 Sub Base Course **a**3 4167.6 3,249 1,351 13,540,532 Base Course 11,111,520 7,461,720 21,873,240 43 3240.0 4,448 2,303 12,069,000 Shoulder **2**2 27000.0 301 146 8,127,000 3,942,000 Asphalt Patching 0.0 ■2 3,031 1,414 Surface Oressing (Single) 0.0 628 638 •2 Surface Dressing (Double) 10500.0 31,630,500 10,662,000 72,292,500 781 1,004 9,318,600 Earth Drain 119 1,192,380 10,510,780 10020.0 930 Earth Brain in Swamp (by machine) 1,216 475 1,678,080 655,500 2,333,580 23 1280.0 4,848,012 4,353,156 Pipe Culvert DBOca 108.0 44,887 40,307 9,201,168 Masonry Culvert (80x80cm) 0.0 0 62,363 34,731 Retaining Wall and Wing Wall (Timber) 16,570 246 Retaining Wall and Wing Wall (Masonry) 3,587,358 922,816 4,510,174 B0.0 44,398 11,421 Gabion Protection #3 0.0 12,229 121 0 0 Hew Bridge (Timber) SET 1.0 Hew Bridge (Concrete) 54,894,485 25,106,421 80,080,906 SET 1.0 Sub Intai 153,265,891 45,898,991 249,164,892 Overhead (15%) 22,989,883 14,384,848 37,374,731 TOTAL COST 176,255,774 110,283,839 286,539,613 Manual routine maintenance of road 9.0 150,976 7,260 1,358,784 65,340 1,424,124 Routine maintenance of asphalt road 383,100 3,447,900 1,272,600 1,720,500 9.0 141,400 1,337,940 Sub Total 4,806,684 6,144,624 0 Maintenance of Timber Bridge (Hew) 0.0 10,306 1,121 . 0 Maintenance of Concrete Bridge (New) 128.3 2,156 273,044 314,982 588,026 2,129 **a**2 Haintenance of Timber Bridge (Exist) 8,977 2,405 0.0 Maintenance of Concrete Bridge (Exist) 0.0 4,249 2,336 Earthwork & Pavement Unit Cost (Rp/Ke) Bridge Unit Cost (Rp/#2) Tiaber Concrete Bridge -Unit Cost (Rp/a2) 718.074 Survived Yalue (Rp) 60,207,197 Maintenance Rate without Bridge (2) 3.16 New Bridge Cost Rate (2) 32.14 ROV : SULAWEST SELATAN

KAD : BARRU

LINK NO : 17 (IIIA)

17 (111A) LENGTH : 6 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (2)

18a

	*********				<u></u>			(Rp)
I TER		UNIT	YTTHAU	COCAL	COST >>> FOREIGN	(((((Local	COST FOREIGN	>>>>> TOTAL
A							~~~~~~~	
Site Clearance in Light	Bush	a 2	0.0	166	91	0	0	54 (
Subgrade Preparation		± 2	0.0	21	11	:0	Ó	1.0
Yormal Fill		-3	0.0	1,716	865		0	
Fill in Swamp		£a.	0.0	2,559	1,055	Ô	. 0	
lormal Excavation to Sp	nil	-3	0.0	1,005	524	ň	Ŏ	
Sub Base Course		a 3	1050.0	3,249		3,411,450	1,418,550	4,830,00
lase Course		e3	1920.0	4,448	2,303	B.540,160	1,421,760	12,961,92
houlder		•2	12000.0	301	146	3,612,000	1,752,000	5,361,00
isphalt Patching		•2		the second second	1,414	0 0 0 0	0	9100110
	the state of the s	#2 #2	0.0	3,931		V	0	
Gurface Dressing (Singl			0.0	628	638	000 BET DE	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	12 610 6/
urface Dressing (Doubl	l e)	■2	21000.0	781	1,004	18,744,000	24,076,000	12,840,00
arth Drain			4760.0	930		4,612,800	590,240	5,203,0
arth Orain in Swamp (b	ik wacutusi	a 3	0.0	1,216	475	0	0	1.0
ipe Culvert DBOca		, t - 🐧	0.0	44,009	40,307	0	0	
lasonry Culvert 180x800		4	6.0	62,363	34,731	374,178	208,385	592,5
tetaining Hall and Hing		e2	0.0	16,520	246	0	0	
etaining Wall and Wing	y Wall (Masonry)	± 3	0.0	44,398	11,421	.0	. 0	1
abion Protection		. ■3	0.0	12,229	121	0	0	
ien Bridge (Timber)		SET	1.0			. 0	Ď	
len Bridge (Concrete)	l	SET	t.0	: 		0	C	
				Sub Totai		39,294,588	32,486,936	71,781,52
Overhead (15%)						5,894,188	4,873,040	10,767,2
			· ·	TOTAL COST	· .•	45,188,776	37,359,976	82,548,7
lanual routine mainten	ance of road	. Ke	6.0	150,976	7,260	905,856	43,560	949,4
outine maintenance of		Ke	6.0	383,100	141,400	2,278,600	848,400	3,147,0
	. ********			Sub Total		3,204,456	891,960	4,096,4
					4 4 4 4 4 4	0	0	
laintenance of limber	Bridne (New)	a2	0.0	10,306	1,121			
daintenance of Timber l	Bridge (New) e Bridge (New)	a? =2	0.0	10,306	1,121 2,456	0	0	in the second
laintenance of Concret	e Bridge (Hew)	£ 2	0.0	2,129	2,456		- F - 1	100
laintenance of Concrete Maintenance of Timber 1	e Bridge (Hew) Bridge (Exist)	e2 . a2	0.0 14.0	2,129 8,977	2,456 2,405	0 125,678	33,670	159,3
laintenance of Concrete Maintenance of Timber 1	e Bridge (Hew) Bridge (Exist)	£ 2	0.0 14.0	2,129	2,456	0	- F - 1	159,3
laintenance of Concrete Naintenance of Timber 1	e Bridge (Hew) Bridge (Exist)	e2 . a2	0.0 14.0 154.4	2,129 8,977 4,249	2,456 2,405 2,336	125,67B 656,045	33,670 360,678	159,3 1,016,7
laintenance of Concrete Naintenance of Timber 1	e Bridge (Hew) Bridge (Exist)	e2 . a2	0.0 14.0	2,129 8,977 4,249 Earthwork &	2,456 2,405 2,336 Pavement Uni	0 125,678 656,045	33,670 360,678 /Km)	159,3 1,016,7
faintenance of Concrete faintenance of Timber 1	e Bridge (Hew) Bridge (Exist)	e2 . a2	0.0 14.0 154.4	2,129 8,977 4,249 Earthwork & Timber	2,456 2,405 2,336 Pavement Uni Bridge Uni	125,678 656,045 t Cost (Rp	33,670 360,678 /Ka) :	159,3 1,016,7
Haintenance of Concrete Haintenance of Timber 1	e Bridge (Hew) Bridge (Exist)	e2 . a2	0.0 14.0 154.4	2,129 8,977 4,249 Earthwork & Timber Concrete	2,456 2,405 2,336 Pavement Uni Bridge Uni Bridge Uni	0 125,678 656,045 t Cost (Rp t Cost (Rp t Cost (Rp	33,670 360,678 /Ka) : /e21 : /a2) :	159,3 1,016,7 13,758,1
Maintenance of Timber Maintenance of Concret Maintenance of Timber Maintenance of Concret	e Bridge (Hew) Bridge (Exist)	e2 . a2	0.0 14.0 154.4	2,129 8,977 4,249 Earthwork & Timber Concrete Survived	2,456 2,405 2,336 Pavement Uni Bridge Uni	125,678 656,045 t Cost Rp t Cost Rp t Cost Rp	33,670 360,678 /Ka) :	159,3 1,016,7 13,758,1 7,104,4

PROV : SULAWEST SELATAN

KAB : BARRU

LINK NO : 12 (IIIA)

12 (IIIA) LENGTH : 12 Km

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

\R;

		and the second of the second o				12.2 11.2	ınpı
1164	UNIT	QUANTETY	<<< UNIT	FORE 16H	(((Local	(<< COST FOREIGN))))) 101A
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				*****	*****		
the Classican to 1 table Book	#2	31000.0	166	91	E 141 000	7 021 000	7 017 00
ite Clearance in Light Bush ubgrade Preparation	#2	32000.0	21	11	5,146,000	2,821,000 352,000	7,967,00 1,024,00
oraal fill	#2 #3	0.0	1,718	862	672,000 0	3321000	11027700
ill in Swamp	#3	0.0	2,558	1,055	Ŏ	Ů	·克里尔 克克斯
ormal Excavation to Spoil	#3	0.88	1,005	52 4	691,140	360,512	
ub Base Course	•3	4437.5				and the second second	20,412,49
du pase course	*3		3,249		14,417,437	5,995,062	
	-	1000.0	4,448	2,303	17,792,000	9,212,000	27,004,00
houlder	a2	36000.0	301	146	10,836,000	5,256,000	16,072,0
sphalt Patching	m2	206.0	3,831	1,414	789,186	291,284	1,080,1
urface Dressing (Single)		10000.0	628	638	6,280,000	6,380,000	12,660,00
urface Dressing (Double)	a 2	50000.0	781	1,004	39,050,000	50,200,000	89,250,0
arth Drain		12740.0	930	119	11,848,200	1,516,060	13,364,2
arth Drain in Swamp (by machine)	a 3	0.0	1,216	475	0	0	
ipe Culvert D80cm		138.0	44,889	40,307	6,194,682	5,562,366	11,757,0
asonry Culvert (80x80cm)		0.0	62,363	31,731	0	0	
etaining Wall and Wing Wall (Timber)	a 2	0.0	16,520	246	0	0	
etaining Wall and Wing Wall (Nasonry)	43	48.0	44,398	11,421	2,131,104	548,208	2,679,3
abion Protection	# 3	0.0	12,229	121	0.	0	
ew Bridge (Tieber)	SET	1.0			0	0	100
ew Bridge (Concrete)	SET	1.0	**		20,954,660	13,945,842	34,900,5
			Sub Intal		136,802,709	102,440,334	239,243,0
		-					
verhead (15%)					20,520,408	15,366,050	35,886,4
			TOTAL COOP		167 707 116	117 007 201	976 198 4
			TOTAL COST		157,323,115	117,806,384	275,129,4

anual routine maintenance of road	. Ke	12.0	150,976	7,260	1,811,712	87,120	1,898,8
outing maintenance of asphalt road	Ka.	12.0	383,100	141,400	4,597,200	1,696,800	6,294,0
success wassessance of asperate long		••••	Sub Total		6,408,912	1,783,920	8,192,8
aintenance of Timber Bridge (Hem)	92	0.0	10,306		0,100,111	0	0111210
aintenance of Concrete Bridge (New)	*2		2,129	2,456	172,449	198,936	371,3
aintenance of Timber Bridge (Exist)	≈ 2	0.0			•	0	41140
			•		67,984	37,376	105,3
	- 2	14.0					
	* 2	16.0	4,249	2,336	07,101	0.1010	,.
	*2	16.0	4,241	 	07,701		*********
	*2	16.0					
	*2	16.0	Earthwork &	Pavement Un	nit Cost (R	p/Km) :	
	*2	16.0	Earthwork & Timber	Pavement Un Bridge Un	nit Cost (R nit Cost (R	p/Km) : p/m2) :	19,582,8
aintenance of Concrete Bridge (Exist)	a 2	16.0	Earthwork & Timber Concrete	Payement Un Bridge Un Bridge Un	nit Cost (R nit Cost (R	p/Km) : p/42) : p/42) :	19,582,8 495,5
	•2	16.0	Earthwork & Timber Concrete Survived	Pavement Un Bridge Un	nit Cost (R nit Cost (R nit Cost (R	p/Km) : p/m2) :	19,582,8 495,50 40,531,2

PROV : SULAWEST SELATAN

KAB : BARRU

LINK NO : 42 (1118-2)

42 (IIIB-2) LENGTH : 16 Km

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

**************************************		*****		********		~~~	(Rp)
ITEH	1171.1	QUANTITY	(((UNIT		***	<<< cost))))))
***************************************	0411	ROHMISSS	LOCAL	FOREIGH	LOCAL	FOREIGH	ATOTA

Site Clearance in Light Bush	a 2	2500. 0	166	91	415,000	221 500	110 50
Subgrade Preparation	•2	76000.0	71	11			642,500
Kormal Fill	=3	0.0	1,716	865	2,016,000	1,056,000	3,072,000
Fill in Swamp	#3		1 1 1		0	0	
Hormal Excavation to Spoil	a3	0.0	2,558	1,055	0	0	
Sub Base Course		2779.0	1,005	524	2,792,895	1,456,196	4,249,09
Base Course	03	8760.0	3,249	1,351	29,111,040	12,104,960	41,216,00
	•3	3940.0	4,148	2,303	17,080,320	8,843,520	25,923,84
Shoulder	a 2	32000.0	301	146	9,632,000	4,672,000	14,304,000
Asphalt Patching	# 2	0.0	3,631	.1,414	0	0	
Surface Dressing (Single)	m2	0.0	628	938	. 0	0	1979
Surface Dressing (Double)		0.0	781	1,004	0	0	
Earth Drain		21840.0	930	119	20,311,200	2,598,960	22,910,16
Earth Drain in Swamp (by machine)	a 3	0.0	1,216	475	0	0	
Pipe Culvert 080cm	8	234.0	44,887	40,307	10,504,026	9,431,839	19,935,86
Hasonry Culvert (80x80ca)	4	0.0	62,363	34,731	0	0	
Retaining Wall and Wing Wall (Fimber)	*2	0.0	16,520	246	0	0	
Retaining Hall and Hing Wall (Masonry)		76.8	44,378	11,421	3,409,766	877,132	4,285,89
Sabion Protection	±3	85.0	12,229	121	1,039,465	10,285	1,049,75
iew Bridge (limber)	SET	1.0			40,355,223	3,751,225	
lem Bridge (Concrete)	SET	1.0			10,555,225	911011559	44,109,44
	0.1	1.0	25.4		•	v	
engale na analysis na analysis (1975). Pagalangan			Sub Total		136,666,935	45,032,616	181,677,55
lverhead (15%)					00 500 010	1 101 559	A. art Kv
natusao (127)					20,500,040	6,754,892	27,254,93
			TOTAL POOT		152 1// 016	E1 703 CAG	300 DEL ER
and get the constant of the constant of the			TOTAL COST		157,166,975	51,787,509	208,954,48
						<u></u> :	
danual roubing estatement of early	ν.	42.6	150 031	7 246	4 315 717		A 611 13
danual routine maintenance of road	Ka	16.0	150,976	7,260	2,415,616		2,531,77
Routine maintenance of gravet road	Ks	16.0	193,432	491,88	3,094,912	1,410,976	4,505,88
	_		Sub Total		5,510,528	1,527,136	7,037,66
laintenance of Timber Bridge (New)	e?	201.0	10,306	1,121	2,102,424	228,684	2,331,10
faintenance of Concrete Bridge (Hex)	*2	0.0	2,129	2,456	0	. 0	
faintenance of Timber Bridge (Exist)	a2	0.0	8,977	2,405	0	0	
aintenance of Concrete Bridge (Exist)	# 2	0.0	4,249	2,336	0	0	. 1 11
						•	

	# E		Earthwork &	Pavesent Ur	nit Cost (R	p/Km) ;	9,889,28
			Timber		it Cost (R	p/a2l :	248,65
				Bridge Un	nit Cost IR	p/#2) :	
· ·							
			Survived	Value -		(Rp)	20,608,00
			Survived Maintenance			(Rp) :	20,608,000

PROV SULAWESI SELATAN KAB : BARRU

32 (111B-1) LENGTH : LINK NO :

23 Km

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

			•	and the second of the		7, 1, 4	(ub)
1 T E N			<<< UNIT	COST >>>	((((< cost))))))
	UNIT	PUANTITY	LOCAL	FOREIGH	LOCAL	FOREIGH	TOTA
ite Clearance in Light Bush	•2	81500.0	166	91	13,579,000	7,416,500	20,345,50
ubgrade Preparation	±2		21	- 11	3,381,000	1,771,000	5,152,00
ormal Fill	a 3	0.0	1,716	865	0	0	
ill in Swamp	#3		2,559	1,055	0	.0	
ormal Excavation to Spoil	* 3	2554.0	1,005	524	2,566,770	1,339,296	3,905,08
ub Base Course	#3	12850.0	3,249	1,351	41,847,120	17,400,880	59,248,00
ise Course	#3	6440.0	1,418	2,303	28,645,120	14,831,320	
pulder	a 2	69000.0	301	146	20,769,000	10,074,000	30,843,00
sphalt Patching	#2	0.0	3,831	1,414	0.757,000	8	011010101
urface Dressing (Single)	a 2	92000.0	628	638	57,776,000	58,696,000	116,472,00
urface Dressing (Double)	·a2	0.0	781	1,001	311101000	001010100	110/11/1/0
arth Drain		23620.0	930	119	21,966,600	2,810,780	24,777,36
arth Drain in Swamp (by machine)	- 3	0.0	1,216	475	Vilianian	Tinialing	z slivelar
ipe Culvert DBOcm	•	0.0	44,889	40,307	ň	ñ	
asonry Culvert (80x80cm)		0.0	62,363	31,731	0	n	
etaining Wall and Wing Hall (Timber)	•2	0.0	16,520	246	, v	n	
etaining Wall and Wing Wall (Masonry)	#3	450.0	44,398	11,421	28,858,700	7,423,650	36,282,3
ebion Protection	a 3	0.0	12,229	121	20,000,1VV	7,123,000	optractor
en Bridge (Timber)	SET	1.0	15/1551	121	41,102,342	3,223,898	14,326,2
en orloge (Timber) en Bridge (Contrete)	SET	1.0			111021012	914531010	11/01011
en minde remitierer	acı	1.0	- .		•		* * * * * * * * * * * * * * * * * * * *
		٠	Sub Total		260,441,652	121,986,322	385,427,9
rerhead (15%)					39,066,247	18,747,948	57,814,19
					• •		• • •
			TOTAL COST		299,507,899	143,734,270	443,242,14
nual routine maintenance of road	K s	23.0		7,260	3,472,448	166,980	3,639,4
outine maintenance of asphalt road	Ka	23.0	393,100	141,400	8,811,300	3,252,200	12,063,5
			Sub Total		12,283,748	3,419,180	15,702,9
	- 7	296.0	10,305	1,121	3,050,576	331,816	3,382,3
	B2						and the second second
sintenance of Concrete Bridge (Newl	a 2	0.0	2,129	2,456	0	-0	
sintenance of Concrete Bridge (Hewl sintenance of Timber Bridge (Exist)		0.0 0.0	2,129 8,977	2,456 2,405	0	0	
intenance of Concrete Bridge (Hewl intenance of Timber Bridge (Exist)	a 2	0.0	2,129 8,977	2,456	0	0	
intenance of Concrete Bridge (Hewl intenance of Timber Bridge (Exist)	a2	0.0 0.0	2,129 8,977	2,456 2,405	0	0 0	
sintenance of Concrete Bridge (Hewl sintenance of Timber Bridge (Exist)	a2	0.0 0.0	2,129 8,977	2,456 2,405 2,336	0 0 0 nit Cost (Rp/	0 0 0	17,055,0
sintenance of Concrete Bridge (Hewl sintenance of Timber Bridge (Exist)	a2	0.0 0.0	2,129 8,977 4,249	2,456 2,405 2,336 Payecent U	0 0 0 nit Cost (Rp/		
sintenance of Concrete Bridge (Hewl sintenance of Timber Bridge (Exist)	a2	0.0 0.0	2,129 8,977 4,249 Earthwork &	2,456 2,405 2,336 Payecent U Bridge U		#21 :	
sintenance of Concrete Bridge (Hewl sintenance of Timber Bridge (Exist)	a2	0.0 0.0	2,129 8,977 4,249 Earthwork & Timber	2,456 2,405 2,336 Payecent U Bridge U	nit Cost (Rp/ nit Cost (Rp/	e21 :	172,2
aintenance of Timber Bridge (New) aintenance of Concrete Bridge (New) aintenance of Timber Bridge (Exist) aintenance of Concrete Bridge (Exist)	a2	0.0 0.0	2,129 8,977 4,249 Earthwork & Timber Concrete	2,456 2,405 2,336 Payement U Bridge U Bridge U Value	nit Cost (Rp/ nit Cost (Rp/ (f	(#2) ; (#2) ; (p) ;	17,055,01 172,2 50,169,81

PROV : SULAWEST SELATAN

KAB : BARRU

LINK NO : 19 (IIIA)

19 (IIIA) LENGTH : 10 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (2)

(Rp

***************************************			2					(Kh
ITEB	:	45 g to	((< UNI	COST >>>		:<<<<	COST	\\\\\
	UNIT	YIIIHAUD		FOREIGN	LOCA		FORELEN	TOTA
لا الربيانية والمستهدم والمن بالمستهدمة والمستهدمة والمستهدمة والمستهدمة والمستهدمة والمستهدمة والمستهدمة	*******	*					d==u====	
Bite Clearance in Light Dush	a 2	0.0	166	n.				
Subgrade Preparation	#Z	1-1-	21	91 11		ψ	V	
draal Fill	a3			the second secon		0	v	
ill In Swamp	e3		1,716			0	Ų.	
ormal Excavation to Spoil	#3		*	1,055	1.0	Q .	0	A
ub Pase Course	#3 #3		1,005	524		V .		
ase Course	3 4				4,873,50			6,900,0
houlder	. 43	27.73	4,448	2,303	14,233,60	10 1	,367,600	21,603,2
the first the state of the stat	₽ ?	•	301		6,020,00		,920,000	
sphalt Patching	•2	1.355	3,831	:1,414			Ç	
urface Dressing (Single)	92		628	639		-	0	1000
urface Dressing (Double)		40000.0	781		31,240,00			71,400,0
arth Drain			930	117	3,664,20			4,133,0
arth Drain in Swamp (by machine)	R 3					-	0	100
ipe Culvert D80cm	1 8	0.0	44,887	40,307		0	0	
asonry Culvert (80x80cm)		6.0	62,363	34,731	374,17	18	208,386	582,
etaining Wall and King Wall (Timber)	m2	0.0	16,520	246	1.1	0	0	
etaining Wall and Wing Wall (Masonry)	a 3	0.0	44,398	11,421		0	0	100
abion Protection	• • 3	45.0		121	550,30)5	5,445	555,7
en Bridge (limber)	SET	1.0				0 1 1	0	
ew Bridge (Concrete)	SEI	1.0				0	0	
		٠.	Sub Total		60,955,76	3 53	,158,791	114,114,5
verhead (15%)					9,143,3	57 7	,973,818	: 17,117,1
		•	TOTAL COST		70,099,1	50 61	,132,609	131,231,1
, , , , , , , , , , , , , , , , , , ,				-			******	*******
unual routine maintenance of road	Ka	10.0	150,974	7,260	1,509,70	50	72,600	1,582,1
outine maintenance of asphalt road	Ka	10.0	383,100	141,400				5,245,0
er file e de la companya de la comp			Sub Total	,	5,340,76		486,600	6,827,3
intenance of Timber Bridge (Hew)	m2	0.0	10,306	1,121	-11-		0	
intenance of Concrete Bridge (New)	• 2		2,129	2,456		0	0	
intenance of limber Bridge (Exist)	#2			2,405			0	
intenance of Concrete Bridge (Exist)	æ2		4,249	2,334	1,274,70	00		
				- ,				
				_				
				Pavement Un		(Ro/Ka)		13,123,1
•			Timber		it Cost	(Rp/m2)		
			Concrete		it Cost	(Rp/#2)	1	
						10. 1		44 474
			Survived	Value		(Rp)	;	
				Rate without	Br i dge	(4p) (%) (%)	;	10,920,8 5.

FROV

SULAWESI SELATAN

KAB : BARRU

LINK NO : 9 (111)

9 (111A) LENOTH : 12 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (2)

(Rp

							(HP)
1 T E H			TIRU >>>	COST >>>	((((((COST	>>>>>
	UNIT	QUANTITY	LOCAL	FOREIGH	LOCAL	FOREIGN	TOTA
		P9=3=0#144	*****		**	***********	
ite Clearance in Light Bush	•2	0.0	166	91	0	0	
ubgrade Preparation	•2	4860.0	21	ii	102,060	53,460	155,52
ormal Fill	#3	1250.0	1,716	865	2,145,000	1,081,250	3,226,25
ill in Swamp	a 3	663.8	2,558	1,055	1,698,000	700,307	2,398.30
ormal Excavation to Spoil	a 3	0.0	1,005	524	0	3 70	-1-1-1
ub Pase Course	±3	2283.2	3,249	1,351	7,418,116	3,084,603	10,502,7
ase Course	3	3910.0	4,148	2,303	17,080,320	8,843,520	25,923,8
houlder	=2	24000.0	301	146	7,224,000	3,504,000	10,728,0
sphalt Patching	•2	The second second	3,831	1,414	0	0	**,
urface Dressing (Single)	m2	0.0	628	63B	Ŏ	Č	100
arface Dressing (Double)	3 2	48000.0	781	1,004	37,488,000		
arth Drain		9060.0	930	119	8,425,800	1,078,140	9,503,9
arth Drain in Swamp (by machine)	3	3600.0	1,216	175	1,377,600	1,710,000	6,087,6
ipe Culvert DBOcm			44,889	40,307		6,016,050	
ssonry Culvert (80x80cm)	2	6.0	62,363	34,731	374,178	208,386	582,5
etaining Hall and Hing Wall (Timber)	• 2	0.0	16,520	246	0		552,0
etaining Wall and Wing Wall (Masonry)	#Z	4		11,421	2,415,251	621,302	3,036,5
bion Protection	#3			121	0	021,302	0,00010
	1.0		12,229	121	0	0	
ew Bridge (Timber)	SET SET	1.0			73,224,578	11,385,699	114,610,2
ew Bridge (Concrete)	GL I	1.0			101221010	1110001011	111101015
			Sub Total		168,706,253	116,508,719	285,214,9
verhead (15%)		-			25,305,937	17,476,307	42,782,2
					101 445 106		101 051 4
			TOTAL COST		191,012,190	133,985,026	327,997,2
, in the property was about the training of the property of th		:	*******				
	K∎	12.0	150,976	7,260	1,811,712	87,120	1,070,8
inual routine maintenance of road				•		1,696,800	
	. Ke	12.0	383.100	141,400	4,597,200	112101000	
	Ks	12.0	303,100 Sub Total	141,400	6,108,912		
utine maintenance of asphalt road			Sub Total	•		1,783,920	8,172,8
outine maintenance of asphalt road wintenance of Timber Bridge (Hew)	n 2	0.0	Sub Total 10,306	1,121	6,108,912	1,783,920 0	9,172,9
utine maintenance of asphalt road nintenance of Timber Bridge (Hew) nintenance of Concrete Bridge (Hew)	#2 #2	0.0 231.8	Sub Total 10,306 2,129	1,121 2,456	6,408,912 0 493,395	1,783,920 0 569,178	8,192,8 1,062,5
utine maintenance of asphalt road intenance of Timber Bridge (Hem) intenance of Concrete Bridge (Hem) intenance of Timber Bridge (Exist)	n 2	0.0 231.8 48.0	Sub Total 10,306 2,129 8,977	1,121 2,456 2,405	6,408,912 0 493,395 430,896	1,783,920 0 569,178 115,440	8,172,8 1,062,5 546,3
utine maintenance of asphalt road intenance of Timber Bridge (Hem) intenance of Concrete Bridge (Hem) intenance of Timber Bridge (Exist)	#2 #2 #2	0.0 231.8 48.0	Sub Total 10,306 2,129 8,977	1,121 2,456	6,408,912 0 493,395	1,783,920 0 569,178 115,440	8,172,8 1,062,5 546,3
utine maintenance of asphalt road intenance of Timber Bridge (Hem) intenance of Concrete Bridge (Hem) intenance of Timber Bridge (Exist)	#2 #2 #2	0.0 231.8 48.0	Sub Total 10,306 2,129 8,977	1,121 2,456 2,405	6,408,912 0 493,395 430,896	1,783,920 0 569,178 115,440	8,192,8 1,062,5 546,3
utine maintenance of asphalt road sintenance of Timber Bridge (Hew) sintenance of Concrete Bridge (Hew) sintenance of Timber Bridge (Exist)	#2 #2 #2	0.0 231.8 48.0	Sub Total 10,306 2,129 8,977 4,249	1,121 2,456 2,405 2,336	6,408,912 0 493,395 430,898 227,321	1,783,920 0 569,178 115,440 124,976	8,192,8 1,062,5 546,3 352,2
outine maintenance of asphalt road nintenance of Timber Bridge (Hew) nintenance of Concrete Bridge (Hew) nintenance of Timber Bridge (Exist)	#2 #2 #2	0.0 231.8 48.0	Sub Total 10,306 2,129 8,977 4,249 Earthwork & Timber	1,121 2,456 2,405 2,336 Payement Un Bridge Un	6,408,912 0 493,395 430,898 227,321 Lit Cost (R	1,783,920 0 569,178 115,440 124,976	8,192,8 1,062,5 546,3 352,2 16,349,6
outine maintenance of asphalt road mintenance of Timber Bridge (Hew) mintenance of Concrete Bridge (Hew) mintenance of Timber Bridge (Exist)	#2 #2 #2	0.0 231.8 48.0	Sub Total 10,306 2,129 8,977 4,249 Earthwork & Timber Concrete	1,121 2,456 2,405 2,336 Pavement Un Bridge Un Bridge Un	6,408,912 0 493,395 430,898 227,321 Lit Cost (R lit Cost (R lit Cost (R	1,783,920 0 569,178 115,440 124,976	8,192,8 1,062,5 546,3 352,2 16,349,6
anual routine maintenance of road outine maintenance of asphalt road aintenance of Timber Bridge (Hew) aintenance of Concrete Bridge (Hew) aintenance of Timber Bridge (Exist) aintenance of Concrete Bridge (Exist)	#2 #2 #2	0.0 231.8 48.0	Sub Total 10,306 2,129 8,977 4,249 Earthwork & Timber Concrete Survives	1,121 2,456 2,405 2,336 Payement Un Bridge Un	6,408,912 0 493,395 430,898 227,321 Lit Cost (R lit Cost (R lit Cost (R	1,783,920 0 569,178 115,440 124,976	8,192,8 1,062,5 546,3

FROV : SULAWESI SELATAN

KAB : BARRU

LINK NO : 3 (IIIB-1) LENGTH : 5 Km

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

							(4p)
LTEN	10		(((UNIT	COST >>>	((((COST	>>>>>>
 A section of the sectio	UHIT	QUANTETY	LOCAL	FOREIGN	LOCAL	FORETGN	TOTA
							,,
ite Clearance in Light Bush	a?	11600.0	166	71	1,925,600	1,055,600	2,981,20
subgrade Preparation			21	- 11			1,040,00
lorast fill	#3	32500.0		865	697,500	357,500 993,020	
ill in Swamp		* (1,716		1,969,968		2,962,98
	B3		2,558	1,055	640,660	284,950	975,51
ormal Excavation to Spoil	#3	100	1,005	524	1,487,410	776,568	
ub Base Course	n3		3,249	1,351	9,097,200	3,782,800	12,880,00
ase Course	#3		1,448	2,303	6,227,200	3,224,200	9,451,40
houlder	s 2		301	-	3,762,500	1,825,000	5,597,5
sphalt Patching	₽ 2		3,931	1,414	0	0.	
Surface Dressing (Single)	= ?		678	638	12,560,000	12,760,000	25,320,00
orface Dressing (Double)	m2	0.0	791	1,004	0		erself of Alley
arth Drain		8880.0	930	119	8,258,400	1,056,720	9,315,1
arth Drain in Swamp (by machine)		1200.0	1,216	475	1,459,200	570,000	2,029,2
ipe Culvert DBOcm		30.0	44,889	40,307	1,346,670	1,209,210	2,555,8
lasonry Culvert (80x80cm)	a	65.0	62,363	34,731	4,115,958	2,292,246	6,408,2
letaining Wall and Wing Wall (Timber)	#2	0.0	16,520	246	0	0	entransfer of
tetaining Wall and Wing Wall (Masonry)	a 3	19.8	44,398	11,421	879,080	226,135	1,105,2
abion Protection	æ3		12,229	121	0	0	100
len Bridge (Timber)	138				5,779,091	478,253	6,277,3
len Bridge (Concrete)	SET				0	0	
211090 1000001000							
			Sub Total		60,243,437	30,912,102	91,155,5
Iverhead (15%)					9,036,515	1,636,815	13,673,3
							101 500 0
		***	TOTAL COST		69,279,952	35,548,917	104,828,8
the state of the s				4			
ianual routine maintenance of road	Ke	5.0	150,976	7,260	754,880	36,300	791,1
	Ka Ka		150,976 393,100	7,260 141,400	754,880 1,915,500	36,300 707,000	
							2,622,5
outine maintenance of asphalt road		5.0	393,100		1,915,500	707,000	2,622,5 3,413,8
outine maintenance of asphalt road faintenance of limber Bridge (Hew)	Ka	5.0 10.0	393,100 Sub Total	141,400	1,915,500 2,670,380 412,240	707,000 743,300	2,622,5 3,413,6 457,0
outine maintenance of asphalt road faintenance of limber Bridge (Hew) faintenance of Concrete Bridge (Hew)	Ka e2	5.0 10.0 0.0	393,100 Sub Total 10,306 2,129	141,400 1,121 2,456	1,915,500 2,670,380 412,240	707,000 743,300 44,840	2,622,5 3,413,6 457,0
outine maintenance of asphalt road laintenance of Timber Bridge (Hew) laintenance of Concrete Bridge (Hew) laintenance of Timber Bridge (Exist)	Ка #2 #2	5.0 40.0 0.0 15.8	303,100 Sub Total 10,30& 2,129 8,977	141,400	1,915,500 2,670,380 412,240 0	707,000 743,300 44,840	2,622,5 3,413,6 457,0
outine maintenance of asphalt road faintenance of limber Bridge (Hew) faintenance of Concrete Bridge (Hew) faintenance of Timber Bridge (Exist)	82 #2 #2	5.0 40.0 0.0 15.8	303,100 Sub Total 10,30& 2,129 8,977	141,400 1,121 2,455 2,405	1,915,500 2,670,380 412,240 0 141,387	707,000 743,300 44,840 0 37,878	2,622,5 3,413,6 457,0
outine maintenance of asphalt road faintenance of limber Bridge (Hew) faintenance of Concrete Bridge (Hew) faintenance of Timber Bridge (Exist)	82 #2 #2	5.0 40.0 0.0 15.8	303,100 Sub Total 10,30& 2,129 8,977	141,400 1,121 2,455 2,405	1,915,500 2,670,380 412,240 0 141,387	707,000 743,300 44,840 0 37,878	2,622,5 3,413,6 457,0
outine maintenance of asphalt road faintenance of limber Bridge (Hew) faintenance of Concrete Bridge (Hew) faintenance of Timber Bridge (Exist)	82 #2 #2	5.0 40.0 0.0 15.8	393,100 Sub Total 10,306 2,129 8,977 4,249	141,400 1,121 2,455 2,405	1,915,500 2,870,380 412,240 0 141,387 93,478	707,000 743,300 44,840 0 37,878	2,622,5 3,413,8 457,0 179,2 144,8
Routine maintenance of asphalt road Maintenance of Timber Bridge (Hew) Maintenance of Concrete Bridge (Hew) Maintenance of Timber Bridge (Exist)	82 #2 #2	5.0 40.0 0.0 15.8	303,100 Sub Total 10,306 2,129 8,977 4,249	141,400 1,121 2,455 2,405 2,336 Payement Un	1,915,500 2,870,380 412,240 0 141,387 93,478	707,000 743,300 44,840 0 37,878 51,392	2,622,5 3,413,6 457,0 179,2 144,8
Routine maintenance of asphalt road Maintenance of Timber Bridge (Hew) Maintenance of Concrete Bridge (Hew) Maintenance of Timber Bridge (Exist)	82 #2 #2	5.0 40.0 0.0 15.8	303,100 Sub Total 10,306 2,129 8,977 4,249 Earthwork & Timber	141,400 1,121 2,455 2,405 2,336 Pavement Un Bridge Un	1,915,500 2,870,380 412,240 0 141,387 93,478 it Cost (Rp.	707,000 743,300 44,840 0 37,878 51,392	2,622,5 3,413,6 457,0 179,2 144,8
Hanual routine maintenance of road Routine maintenance of asphalt road Haintenance of Timber Bridge (Hew) Haintenance of Concrete Bridge (Hew) Haintenance of Timber Bridge (Exist) Haintenance of Concrete Bridge (Exist)	82 #2 #2	5.0 40.0 0.0 15.8	303,100 Sub Total 10,306 2,129 8,977 4,249 Earthwork & Timber Concrete	141,400 1,121 2,455 2,405 2,336 Pavement Un Bridge Un Bridge Un	1,915,500 2,870,380 412,240 0 141,387 93,478 it Cost (Rp. it Cost (Rp.	707,000 743,300 44,840 0 37,878 51,392	2,622,5 3,413,8 457,0 179,2 144,8 19,521,5
Routine maintenance of asphalt road Maintenance of Timber Bridge (Hew) Maintenance of Concrete Bridge (Hew) Maintenance of Timber Bridge (Exist)	82 #2 #2	5.0 40.0 0.0 15.8	303,100 Sub Total 10,306 2,129 8,977 4,249 Earthwork & Timber Concrete Survived	141,400 1,121 2,455 2,405 2,336 Pavement Un Bridge Un	1,915,500 2,870,380 412,240 0 141,387 93,478 it Cost (Rp. it Cost (Rp.	707,000 743,300 44,840 0 37,878 51,392	791,1 2,622,5 3,413,6 457,0 179,2 144,8 19,521,9 180,4

FROV : SULAWESI SELATAN KAB :

LINK NO : 1 (IIIA) LENGTH : 7 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (2)

1 T E N	iil t	YIIIHAUQ	(((UNIT	COST >>>	\\\\ LDCAL	COST FOREIGN	\\\\\ Atot
		#ADMITTEL	CUCIT	- CACTOR	LULAL	FUNCTOR	1057
ite Clearance in Light Bush	#2	0.0	166	91	0		
ubgrade Preparation	D 2	0.0	21	- 11	0	0	
ormal Fill	a 3		1,716	865	ň	Ŏ	
111 in Swamp	•3	0.0	2,558	1,055	Ů	0	, i.e. 11
ormal Excavation to Spoil	в3	0.0	1,005	524	Ó	Q	
ub Pase Course	a3	220.0	3,249	1,351	714,780	297,220	1,012,00
ase Course	m3	320.0	1,448	2,303	1,423,360	736,960	2,160,32
houlder		14000.0	301	•	1,214,000	2,044,000	
sphalt Patching	2	1748.0	3,831	1,414	6,688,926	2,468,844	
urface Dressing (Single)	12	24000.0	5,631 528	638	15,077,000	15,312,000	
	. 2	4000.0	781	1,004	3,174,000		
urface Dressing (Double) arth Drain	#1	3860.0	420			459,340	4,049,14
					3,589,800	7011010 A	ינן נדטור
arth Drain in Swamp (by machine)	a 3	0.0	1,216	475	0	V	
ipe Culvert DBOca		0.0	44,889	40,307	the state of the s	0 2 540	
asonry Culvert (80x80cm)	4	24.0	62,363	31,731	1,496,712	033,511	2,330,2
etaining Wall and Wing Wall (Timber)	1.2	0.0	16,520	246	0	0	
etaining Wall and Wing Wall (Masonry)	£9.	2.9	44,398	11,421	128,754	33,120	161,8
abion Protection	≥3		12,229	121	0	. 0	
en Bridge (Timber)	SET	1.0			0	. 0	
ew Bridge (Contrete)	SET	1.0	; 		0	0	
			Sub Total		36,452,332	26,201,028	62,653,3
verhead (15%)					5,467,849	3,930,154	9,398,0
			TOTAL COST		41,920,181	30,131,182	72,051,3
anual routine maintenance of road	K.a	7.0	150,976	7,260	1,056,832	50,820	1,107,6
outine maintenance of asphalt road	Ke	7.0	383,100	141,400	2,681,700		3,671,5
The second secon	-,-		Sub Total	,	3,738,532	1,040,620	4,779,1
aintenance of Timber Bridge (New)	. •2		10,306	1,121	0	0	
aintenance of Concrete Bridge (New)	-2		2,129	2,456	Ŏ	٥	
aintenance of Tieber Bridge (Exist)	•2		-	2,405	Ŏ	· ·	
eintenance of Concrete Bridge (Exist)	a 2		4,249	2,336	101,974	56,064	158,0
erncenance or concrete or rade rexises	41	4714	13611	£,330		20,001	
			Earthwest !	Daynamak II	ait Cast 10-	(Val	IA 201 A
• .			Earthwork &			(Km) :	10,293,0
			Timber	•		/a2) :	
			Concrete			(a2) :	i din i
			Survived	Value		}p) ;	1,349,6
				Rate withou		()	ó,
			New Bridge	LOEP HATO	()	() :	

PROV SULAWESI SELATAN KAB BARRU

LINK NO : 31 (IIIA) LENGTH : 3 Km

UFGRADE : 6.0m road bed, 4.0m road with surface Dressing (2)

FIEN			CCC IMIT	COST >>>		((((COST	. >>>>>
	UNIT	PUANTITY		FOREIGN	LOCA		FOREIGN	TOTA
a m m at du m th for the first and an area and for the first and an area for the first and an area for the first and the first a	**********							
ite Clearance in Light Bush		0.0	166	91		0	0	
ubgrade Preparation	a 2		21	11	126.00	0	66,000	
real Fill	m 3		1,716	865	•	0	0	
ill in Swamp	=3	0.0	2,558	1,055		0	. 0	
ormal Excavation to Spoil	93	152.0	1,005	524	152,76	50	1.	232,40
ib Base Course	m3	852.0	•	1,351	2.768.14	18 1.		3,919,2
sse Course	•3		4,448	2,303				6,480,9
houlder	n2		301	146	1,806,00	00	876,000	2,682,0
sphalt Patching	82		3,831	1,414		0	0	
urface Dressing (Single)	• 2		628	638			0	
urface Oressing (Double)	#2		701	1,004				21,420,0
arth Drain			930	119	1,413.60	00	180,080	1,594,4
arth Drain in Swamp (by machine)	a 3		1,214	475	.,,		0	
ipe Culvert DBOcm		•	•	40,307		0	0	
asonry Culvert (80x80cm)	. 6			34.731		0	0	
etaining Wall and Wing Wall (Timber)	• 2		16,520	248	, t.	-	0	
etaining Wall and Wing Wall (Masonry)	•3	and the second second		11,421			0	
abion Protection	a 3			121	550,3		5,445	555,7
en Bridge (Timber)	SET				1-	0		
ex Bridge (Concrete)	SET	•	and the second second			0	0	•
	ė.		Sub Total		20,458,8	93 16,	617,905	37,076,7
verhead (151)				•	3,069,8	33 2,	492,685	5,561,5
	•	. 1	TOTAL COST	i	23,527,7	26 19,	110,590	42,638,3

anual routine maintenance of road	Κæ	3.0	150,976	7,260	452.9	28	21,780	474,7
outine maintenance of asphalt road	Ks		383,100					1,573,5
THE PERSON OF TH	-/-		Sub Total		1,602,2		445,980	
aintenance of Timber Bridge (Hew)	a 2			1,121			•	
aintenance of Concrete Bridge (Hew)	e2	0.0	2,129	2,456		. 0	. 0	
aintenance of Tlaber Bridge (Exist)			8,977	2,405	134,6	55	36,075	170,7
aintenance of Concrete Bridge (Exist)	e2	0.0	4,249	2,336		,0 -	. 0	
	*****							<u> </u>
			Earthwork &	Pavesent U	nit Cost	(Rp/Km)	:	11,212,7
			Timber		nit Cost	(Rp/m2)		
			Concrete		nit Cost	(Rp/a2)		
				•	2.4	•		A 705 /
			Survived	Value		(Rp)	1	9,700,0
				.Value Rate withou	t Dridge	(Xp)	1	4,755,6

PROV : SULAWESI SELATAN

KAB : BARRU

LINK NO : 29 (IIIA)

LENGTH : 5 Km

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

(Ro

							(Rp)
ITEN	UNIT	QUANTITY	(((UN)) Local	COST >>> FOREIGN	((((Local	T2O3 > K∂13RO3	////// TOTA

Str. Nicolain Fr. 12-LL Book	-4	1750A A	127	61	2 211 202	1 110 EAA	7 418 67
ite Clearance in Light Bush	a 2	13500.0	166	91	2,241,000	1,228,500	3,469,50
Subgrade Preparation	# 2	35000.0	21	11	735,000	385,000	1,120,0
lormal Fill	m3	0.0	1,716	865	0	0	
ill in Swaap	- 3	0.0	2,558	1,055	0	0	- Fig. 14
ormal Excavation to Speil	ēŠ	594.0	1,005	524	596,970	311,256	30815
ub Base Course	m 3	2900.0	3,249	1,351	9,097,200	3,782,800	12,880,0
ase Course	a 3	1600.0	4,448	2,303	7,116,800	3,684,800	10,801,6
houlder	m2	15000.0	301	146	4,515,000	2,170,000	6,705.0
sphalt Patching	#2	0.0	3,831	1,414	0	· 44.0±	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
orface Dressing (Single)	≥ 2	0.0	620	638	. 0	0	•
urface Dressing (Double)	2	20000.0	781	1,004	15,620,000	20,080,000	35,700,0
arth Drain		1060.0	730	117	985,800	126,140	1,111,9
arth Drain in Swamp (by machine)	= 3	0.0	1,216	475	100,000		
ipe Culvert DBOcm	9	0.0	44,889	40,307	v	,	
					. 0	0	
asonry Culvert (80x80cm)	B.	0.0	62,363	34,731	V		1
etaining Hall and Hing Hall (Timber)	*2	0.0		246	Q.	Q	100
etaining Hall and Wing Wall (Masonry)	#3	0.0	44,398	11,121	. 0	Q	- No. 10 (1) -
abion Protection	. 3	0.0	12,229	121	0	Q	100
ew Bridge (Timber)	SET	1.0			0	0	2.3
ew Bridge (Concrete)	251	1.0			18,509,204	9,221,464	27,729,6
			Sub Total		59,415,974	41,009,960	100,425,9
verhead (15%)	4			÷	8,912,396	6,151,494	15,063,9
			TOTAL COST		68,328,370	47,161,454	115 100 0
						7/1011101	115,489,8
anual routine maintenance of road	Ka	5.0	150,976	7,260	754,880	36,300	791,1
outine maintenance of asphalt road	. Ka	5.0	383,100	141,400	1,715,500	707,000	
detine authernance of popular roop		417	Sub Total	,	2,670,380	743,300	3,413,6
aintenance of Timber Bridge (New)	=2	0.0		1,121	0	0	3,110,0
aintenance of Concrete Bridge (New)	#2	51.0			114,966	132,624	247,5
aintenance of Timber Bridge (Exist)			2,129	2,456	111,700	1321021	
	■2 -2	0.0	8,977	2,405			
aintenance of Concrete Bridge (Exist)	a2	0.0	4,249	2,334			
			Earthwork &	Pauseant II	nit Cost (Rp/	Ke) ;	16,720,1
•			Timber		nit Cost IRp/		10111011
			Concrete		nit Cost		SON E
	:				•		21 010 3
			Survived	Value	() ()	•	26,869,2
		:	Maintenance Hew Bridge	Rate withou	t Bridge () ()) :) :	4. 27.

FROV

SULAWESI SELATAN

KAD :

LINK NO : 15 (IIIA) LENGTH : 6 Km

UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (2)

1 T E B							
	1011	distantes es		cost >>	and the second of the second of the	147 April 1	>>>>>
### ## ###############################	UNII	QUANTITY	LOCAL	FOREIGN	LOCAL	FOREIGH	JATOT
ite Clearance in Light Oush	# 2	0.0	166	91	0	. 0	0
ubgrade Preparation	12	10212.0	21	11	214,452		
ormal Fill	a 3	0.0	1,716	865		A CONTRACTOR OF THE PARTY OF TH	- 19 i d
ill in Swamp	13	1544.4	2,558	1,055	3,950,575	1,629,342	5,579,917
ormal Excavation to Spoil		1184.0	1,005	524		620,416	1,810,336
ub Base Course	*3	1037.0	3,249	1,351	3,369,213	1,400,997	4,770,20
ase Course	. #3	610.0	4,448	2,303	2,846,720	1,473,920	4,320,640
houlder	#2	12000.0	301	146	3,612,000	1,752,000	5,364,000
sphalt Patching	₽2	253.0	3,831	1,414	969,243	357,742	1,326,98
urface Dressing (Single)	# 7	16000.0	628	638	10,048,000	10,208,000	20,256,000
urface Dressing (Double)	. •2	8000.0	781	1,004	6,248,000	8,032,000	14,280,00
arth Drain		3780.0	930	119			3,965,22
arth Drain in Swamp (by machine)	=3	3120.0	1,216	475			
ipe Culvert DBOcm	•	6.0		40.307	269,334		
asonry Culvert (80x80cm)		18.0	62,363		1,122,534		1,747,69
etaining Wall and Wing Wall (Timber)	. •2	0.0	16,520	216			
etaining Wall and Wing Wall (Hasonry)			44,398	11,421		17,131	93,72
abion Protection	-3						12,337,65
lew Bridge (Haber)	SET		,			· · · · · · · · · · · · · · · · · · ·	
lew Bridge (Concrete)	SET			·	0	0	
			Sub Total		53,432,679	28,523,569	01,956,24
			,		D A14 001	# 210 ETE	12,293,43
lverhead (15%)					B,014,901	4,278,535	12,210,10
			TOTAL COST		£1 417 50A	82 002 INA	94,249,68
		j.	TOTAL CUST		61,447,590	32,802,104	11,217,00
lanual routine maintenance of road	. Ke	6.0	150,976	7,260	905,856	43,560	949,41
outine maintenance of asphalt road	Ka						3,147,00
outific authorition of organic con-	"-		Sub Total		3,201,456		4,096,41
laintenance of Timber Bridge (Kew)	. n2	0.0		1,121			
laintenance of Concrete Bridge (New)	•2		2,129	2,456		• •	
laintenance of limber Bridge (Exist)	m 2			2,405		0	
faintenance of Concrete Bridge (Exist)	02		•	2,338			289,74
Matteredite at notes see at and a tourse.						•	
			Earthwork &	Pavement	Unit Cost	Rp/K=1	15,708,26
			Timber .	Bridge	Unit Cost	Rp/a2) :	
			Concrete	Bridge	Unit Cost	(Rp/s2) 1	
			• *	•			4 687 77
			Survived	Value		(Rp) :	4,840,25
		.*	Survived Haintenance		out Bridge	(Kp) :	4,896,32 4.3

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

ITEM	UNIT	(1998)	(1989)	< 1990 >	〈 1991 <i>〉</i>	< 1992 >	(TOTAL)
OUTPHENT :							Aug Tra
Bulldozer/Ripper	hr	224.4	586.9	505.4	514.3	670.5	2501.5
Swamp Bulldezer	hr	51.4	9.0	21.1	13.2	0.0	94.7
Hotor Grader	hr	412.6	871.1	748,5	1079.2	1497.6	1609.0
Hand-guide Vib. Roller	hr	396.7	1079.7	1665.6	1340.2	1542.6	6014.8
Tire Roller	hr	444.4	1049.9	730.0	1204.3	459.9	4089.5
Vibratory Roller (DAT)	hr		8.383	586.9	916.8	1214.8	3665.5
Hydraulic Excavator; Wheel	hr	256.9	121.5	304.5	207.4	0.0	870.3
Wheel Loader	hr	700.5	1515.6	1485.0	1788.8	2043.9	7533.8
Water Tank Truck	hr	231.0	426.3	395.4	549.6	820.0	2422.3
Dump Truck	hr	5534.6	12795.8	12265.7	14349.3	17425.5	62370.9
Flat Bed Truck with Crane	hr	417.1	714.3	1981.2	1272.6	936.1	5321.3
Flat Bed Truck	hr	854.3	1526.6	1694.4	1993.8	1034.2	7003.3
Portable Crusher/Screening	hr	139.3	351.3	373.3	491.2		1670.7
Concrete Mixer	hr	267.5	404.7	1229.3	774.6	320.1	2996.2
Hater Pump	hr	865.4	974.8	3910.0	2061.6	226.8	8039.6
Concrete Vibrator	hr	22.7	76.8	115.1	73.0	40.1	327.7
Asphalt Sprayer	hr	444.4	1047.9	930.0	1204.3	459.9	4088.5
ABOUR :		•	÷.			Ţ.	
						5 4	
Handur	man day	760.0	1752.0	2169.2	2100.3	2458.1	9240.4
Skilled Labourer	≉an day	1020.7	2047.1	2909.5	3167.9	4623.4	13747.6
Carpenter	man day	224.8	516.6	1048.2	1169.9	2249.4	5207.9
Hason	man day	310.8	449.3	1420.3	952.5	466.8	3599.7
Labourer	man day	7161.3	18569.6	20428.9	19862.6	22939.5	9.14988
Oriver	a an day	1331.7	2853.3	2989.1	3347.1	3652.3	14173.5
Operator	nan day	638.7	1430.7	1491.9	1767.9	1900.4	7229.6
ATERIAL :		· .					
Bituaen	1	103508.1	241135.0	226587.4	201699.9	94299.9	947330.3
Asphalt Oil	1	15733.2	38250.0	30690.0	42199.9	18860.0	
Kerosene	i	21504.5	51142.6	41639.9	59119.9	22539.9	197946.8
Sand	#3	363.6	931.2	1151.5	1046.5	611.0	1106.8
Ceaent	bag	473.7	1315.4	2326.6	1484.2	762.3	6362.2
River Stone	a 3	1368.2	507.7	1882.2	1172.6	551.8	5282.5
Steel Houlds	set	6.0	168.0	168.0	90.0	234.0	666.0
Timber	a.J	19.7	42.7	86.68	100.6	203.1	451.7
Paint	1	0.0	128.3	37.6	363.1	1449.7	1978.7
Reinforcing Steel	kg	5933.1	17077.8	30155.2	19696.0	7464.6	80626.7
Tying Hire	kg	2051.8	155.1	276.6	359.7	237.8	3080.0
Equivalent Royalty	a 3	10100.4	19012.1	19577.8	24999.5	31101.1	104790.9

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

ITEN	1	אוו	ī	< 1788	>	(1987)	(1990)	(1991)	(1992)	(TOTAL)
90° 90° 10° 90° 90° 90° 90° 90° 90° 90° 90° 90° 9				*******		***************************************				
OUICHENT :							*		•	fall in
Bulldozer/Ripper		1	ir ·	0.0	1	0.0	0.0	0.0	0.0	0.0
Swamp Bulldozer			hr	0.0		0.0		0.0	0.0	
Motor Grader			hr	340.1		676.0		553.9	477.9	
Hand-guide Vib. Rolle			ìr .	60.0		240.0		910.0		2880.0
Tire Roller			11	360.6		676.0	4. 4	553.9		2689.0 2689.8
Vibratory Roller (D&I			ir	0.0		0.0	0.0	0.0		
Hydraulic Excavatory			ir	0.0		0.0	1		0.0	
Wheel Loader			'' 17	61.4				0.0	0.0	
Water Tank Truck			ir ir)	126.9	140.3	141.6	147.9	and the second second
Dump Truck	*		ır 1r	489.4		0.0	0.0	0.0	0.0	
Flat Bed Truck with C	r 3 n c			633.4		1241.6 1261.2		2169.0	3256.6	9468.4
	i alle		ır	1438.		2795.0		1078.7		5382.7
Portable Crusher/Scre			11 1		3		2860.4	2790.4	2808.1	12692.2
Concrete Mixer	curry		יי ור			63.9	71.3 3.0	72.4		
Water Pump			ir.	1.		3.1 3.1		2.7	3.2	13.5
Concrete Vibrator			። ነ г					2.7	3.2	13.5
Asphalt Sprayer			17 17			3.1 0.0	3.0 0.0	2.7 0.0	3.2 0.0	13.5 0.0
ABOUR :										
33							: _			
Handur		aan d		459.3				1150.5	1290.9	4922.0
Skilled Labourer		ean d		103.		283.5	504.6		891.1	2456.3
Carpenter		san d		32.		64.2	59.5		52.1	270.7
Hason		aan da		0.0		0.0	0.0	0.0	0.0	0.0
Labourer		ean da	-			11139.7	12945.9		15489.8	59745.5
Driver		aan d	•	452.0				1,103.8	1257.6	4801.8
Uperator		man da	i y	141.0) :	269.4	254.5	233.0	210.3	1107.2
ATERIAL :										
Bitumen			1 :	510.6) ·	2160.0	5265.0	7290.0	10665.0	25920.0
Asphalt Oil			ì)	0.0	0.0	0.0		
Kerosene	-		i	60.0		240.0	595.0	810.0	1185.0	2880.0
Sand		. i	3	11.5		43.1	100.5	137.7	200.7	493.5
Ceaent			19	23.0		16.3	43.7	39.4	47.8	200.2
River Stone			3	0.6		0.0	0.0	0.0	0.0	0.0
Steel Houlds			et .	0.0		0.0	0.0	0.0	. 0.0	0.0
limber			3	2.1		5.5	5.2	6.1	4,4	24.0
Paint	-	'	1	10.		36.2	33.5	40.9	28.2	157.3
Reinforcing Steel		1	kg .	118.		230.1	221.9	202.9	245.6	1030.1
Tying Wire			rg (g	1.0		2.1	2.0	1.8	2.2	9.1
1			7	872.		1799.2	1989.5	2007.0	2096.4	8765.0

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

:KAD SULAWEST SELATAN BARRU (1988) (1987) (1990) ··· EQUIPMENT : Bulldozer/Ripper 221.4 586.9 505.4 514.3 670.5 2501.5 hr Swaap Bulldozer ħr 51.4 9.0 21.1 13.2 0.0 94.7 Hotor Brader hr 173.4 1547.1 1360.7 1633.1 1975.5 7297.0 Hand-quide Vib. Roller ħr 446.7 1319.7 2250.6 2150.2 2727.6 8894.8 Tire Roller hr 805.2 1725.9 1550.2 1750.2 937.8 6777.3 Vibratory Roller (D&I) hr : 340.2 8.883 584.9 8.618 1214.8 3665.5 Hydraulic Excavator; Wheel hr 256.9 121.5 304.5 207.4 0.0 890.3 Wheel Loader ... hr 761.9 1642.5 1625.3 1930.4 2191.8 8151.9 Water Tank Truck 231.0 426.3 395.4 549.8 B20.0 2422.3 ħr Duap Truck 6024.0 14037.4 14277.5 20682.1 71839.3 hr 16818.3 Flat Bed Truck with Crane 1050.7 1975.5 2141.8 hr 3161.7 2371.3 10704.0 Flat Red Truck 2792.6 hr 4321.6 4554.8 4694.2 3942.3 19695.5 Portable Crusher/Screening hr 170.1 415.2 444.6 553.6 401.7 1985.2 Concrete Mixer 107.8 771.3 323.3 3009.7 hr 269.0 1232.3 Water Pump 866.9 977.9 3913.0 2064.3 230.0 8052.1 hr Concrete Vibrator 24.7 79.9 110.1 75.7 43.3 341.2 hr 459.9 Asphalt Sprayer 444.4 1049.9 930.0 1201.3 40BB.5 hr LABOUR : 1218.3 2690.4 3253.9 3250.8 3749.0 14162.4 Handur man day Skilled Labourer 1123.7 2330.6 3393.1 3842.0 5514.5 16203.9 man day Carpenter aan day 257.5 580.8 1107.7 1239.1 2301.5 5486.6 Mason ean day 310.8 449.3 1420.3 952.5 466.8 3599.7 Labourer man day 12602.1 29709.3 33374.8 33591.9 38429.3 147707.4 Driver 1783.7 3786.2 4044.6 4450.9 4709.9 18975.3 ean day Operator 779.7 1699.1 1746.4 2000.9 2110.7 B336.9 man day MATERIAL : 104048.1 243295.0 231952.4 280989.9 104964.9 973250.3 Bi tugen Asphalt Oil 30690.0 42199.9 19860.0 ł 15733.2 38250.0 145733.1 Kerosene 21564.5 51382.6 45224.9 58729.9 23724.9 200826.8 1 Sand 375.1 974.3 1252.0 1194.2 814,7 4600.3 Cement 496.7 1361.7 2370.3 1523.6 810.1 6562.4 psd River Stone **5**3 1368.2 507.7 1682.2 1172.6 551.8 5282.5 Steel Moulds set 6.0 168.0 169.0 90.0 234.0 666.0 Lieber •3 21.5 48.2 91.8 106.7 207.5 475.7 Paint 1 18.5 164.5 71.1 401.0 1477.9 2136.0 Reinforcing Steel kg 6051.7 17315.9 30680.1 19898.9 7710.2 01656.8 Tying Wire: kg 2052.8 157.2 278.6 360.5 240.0 3089.1 21567.3 Equivalent Royalty #3 10973.3 20811.3 27006.5 33197.5 113555.9

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

PROV : SULAWESI	EELA'I	AN	KAB :	BARRU			(1000 Rp)
JEH	UNIT	(1988)	(1987)	(1990)	< 1991 >	〈 1992 〉	< 101AL >
EQUIPHENT :		79,091	169,980	180,437	202,406	207,062	837,974
Bulldozer/Ripper	15969	3,583	9,372	9,070	0,212	10,707	39,944
Swamp Bulldozer	11757	604	105	249	155	0	1,112
Hotor Grader	13627	5,622	11,870	10,179	14,706	20,407	62,804
Hand-guide VIb. Roller	1599	618	1,726	2,663	2,142	2,466	9,615
Tire Roller	10892	4,840	11,435	10,129	13,117	5,009	44,530
Vibratory Roller (DLT)	6800	2,449	4,670	3,770	5,554	8,260	24,923
Hydraulic Excavator; Wheel	12795	3,287	1,554	3,876	2,653	0	11,390
Wheel Loader	16819	11,781	25,490	24,976	30,085	34,376	126,708
Nater Tank Truck	4015	927	1,711	1,587	2,206		9,723
Dump Truck	5510	30,495	70,504	67,5B4	79,054	96,014	343,661
Flat Bed Truck with Crane	5069	2,114	3,620	10,042	6,450	4,745	26,971
Flat Bed Truck	3353	2,864	5,118	5,681	6,349	3,467	23,479
Portable Crusher/Screening	44145	6,149	15,508	16,479	21,242	14,373	73,751
Concrete Hixer	9967	2,398	3,628	11,023	6,945	2,870	26,064
Hater Pump	487	421	474	1,904	1,003	110	3,912
Concrete Vibrator	316	7	24	36	23	12	102
Asphalt Sprayer	2076	922	2,179	1,930	2,500	954	8,485
LAROUR :		26,989	63,976	76,177	76,535	90,566	334,243
Handur	3000	2,280	5,258	6,507	6,300	7,374	27,719
Skilled Labourer	2500	2,551	5,117	7,221	7,919	11,558	34,366
Carpenter	3000	674	1,549	3,144	3,506	6,748	15,621
Hason	3000	932	1,347	4,260	2,857	1,400	10,796
Labourer	2000	14,322	37,139	40,857	39,725	45,879	177,922
Driver	3000	3,995	B,559	8,967	10,041	10,956	42,518
Operator	3500	2,235	5,007	5,221	6,197	6,651	25,301
NATERIAL :		76,440	160,380	178,582	197,813	115,827	729,042
Ditumen	325	33,640	78,368	73,673	91,552	30,647	307,880
Asphalt Oil	750	11,799	28,687	23,017	31,649	14,145	109,297
Kerosene	250	5,376		11,159	14,529	5,634	49,483
Sand	6000	2,101	5,597	6,909	6,279	3,684	24,640
Cement	3750	1,776	4,932	8,724	5,565	2,858	23,855
River Stone	6000	8,209	3,046	10,093	7,035	3,310	31,693
Steel Houlds	7000	42	1,176	1,176	930	1,638	1,662
Timber	180000	3,366	7,686	15,588	10,108	36,558	B1,306
Paint	2500	0	320	94	907	3,624	4,945
Reinforcing Steel	750	4,449	12,808	22,841	14,772	5,598	60,460
Tying Wire	1500	3,077		414	538	356	4,617
Equivalent Royalty	250	2,525	4,753	4,894	6,249	7,775	26,176

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

FROY : SULAWES1			KAB 1	BARRU			(1000 Rp)
H	UNIT	(1988)	< 1989 >	< 1990 >	(1991)	(1992)	〈 TOTAL 〉
QUIFMENT :		22,073	44,543	48,348	49,006	52,956	216,926
Bulldozer/Ripper	15969	0	0.	0	0	0.1	0
Swamp Bulldozer	11757	0	0	0	0	0	. 0
Hotor Grader	13627	1,916	9,211	8,451	7,547	6,512	36,637
Hand-guide Vib. Roller	1599	95	382	935	1,295	1,894	4,602
Tire Raller	10992	3,929	7,362	6,755	6,033	5,205	29,284
Vibratory Roller (D&T)	6800	0	0	0	0	0	0
Hydraulic Excavator; Wheel	12795	0	0	0	0	0	0
Wheel Loader	16819	1,032	2,134	2,359	2,381	2,487	10,393
Water Tank Truck	4015	. 0	0	. 0	0	0	0
Dump Truck	5510	2,696	6,841	11,085	13,604	17,943	52,169
Flat Bed Truck with Crane	5069	3,211	6,393	5,997	5,569	6,111	27,283
Flat Bed Truck	3353	1,822	9,371	9,590		9,415	42,554
Portable Crusher/Screening	44145	1,359	2,820	3,147		3,359	13,881
Concrete Mixer	8767	13	27	26	24	28	118
Water Pump	487	0	1	1	1	1	4
Concrete Vibrator	316	Ŏ	0	0	0	. 1	1
Asphalt Sprayer	2076	Ŏ	0	0	0	0	0
ABOUR :		14,459	29,728	34,640	36,930	41,742	157,499
ers.i	Tone	4 774	5.617	7 45	7 401	7 072	11 112
Nandur	3000	1,374	2,812	3,254	3,451	3,872	14,763
Skilled Labourer	2500	257	708	1,261	1,685	2,227	
Carpenter	3000	98	192	178	210	156 0	834
Mason	3000	0	0	0 404	and the second s		0
Labourer	2000	10,881	22,279			30,979	117,488
Driver	3000	1,356	2,798	3,166	3,311	3,772	14,403
Operator	3500	493	939	890	815	736	3,873
NATERIAL:		1,202	2,903	4,310	5,399	6,719	20,532
Bitunen	325	175	702	1,711	2,369	3,466	8,423
Asphalt Oil	750	0	0	0	0	0	0
Kerosene	250	15	60	146	202	296	719
Sand	6000	69	258	603	926	1,204	2,960
Cement	3750	86	173	163	147	179	748
River Stone	6000	0	0	. 0	0	0	0
Steel Houlds	7000	0	0	0	. 0	0	0
Timber	180000	504	990	936	1,078	792	4,320
Paint	2500	46	90	83	102	70	391
Reinforcing Steel	750	88	178	168	152	184	770
Tying Wire	1500	· I	3	3	2	3	12
Equivalent Royalty	250	218	449	497	501	524	2,189

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

PROV : SULAWES	SELAT	AN	KAB I	BARRU			(1000 Rp)
ITEH	UNIT	(1788)	(1989)	(1990)	(1991)	< 1992 >	(TOTAL)
EQUIPMENT: :		101,154	213,531	228,785	251,412	260,018	1,054,900
Bulldozer/Ripper	15969	3,583	9,372	8,070	0.010	10 101	70.044
Swamp Bulldozer	11757	100	105	248	0,212 155	10,707	
Motor Grader	13627	10,538	21,081	18,650	22,253		1,112
Hand-guide Vib. Roller	1599	713	2,109	3,579		26,919 4,360	99,441
Tire Roller	10872	8,769	18,797	16,884	19,150	1000	14,217
Vibratory Roller (D&I)	6800	2,449	4,670	3,770	5 I I I I I I I I I I I I I I I I I I I		73,814
Hydraulic Excavator; Wheel	12795	3,297	1,554		2,653	8,260 0	24,923
Wheel Loader	16819	12,813	27,624	27,335	32,466		11,390
Hater Tank Truck	4015	927	1,711	1,587	2,206	36,863	137,101
Dump Truck	5510	33,171	77,345	78,669	92,668	3,292 113,957	9,723
Flat Bed Truck with Crane	5069	5,325	10,013		12,019	10,856	
Flat Bed Truck	3353	7,696	14,489	15,271	15,705		54,254
Portable Crusher/Screening	44145	7,508	18,328	19,626	• • • • • • • • • • • • • • • • • • • •	12,082 17,732	66,033 87,632
Concrete Hixer	8967	2,411	3,655	11,019	6,969	2,898	26,982
Water Pump	487	421	475	1,905	1,004	111	3,916
Concrete Vibrator	316	7	24	36	23	13	103
Asphalt Sprayer	2076	922		1,930	2,500	954	8,485
LABOUR :		41,448	93,704	110,817	113,465	132,308	491,742
Mandur	3000	3,654	8,070	9,761	9,751	11,246	42,492
Skilled Labourer	2500	2,808	5,025	9,482	9,604	13,785	40,504
Carpenter	3000	772	1,741	3,322	3,716	6,904	16,455
Hason	3000	932	1,347	4,260	2,957	1,400	10,796
Labourer	2000	25,203	59,418	66,748	67,183	76,858	295,410
Driver	3000	5,351	11,357	12,133	13,352	14,728	56,921
Operator	3500	2,728	5,946	6,111	7,002	7,387	29,174
MATERIAL :		77,642	163,283	182,872	203,212	122,545	749,574
Bitumen	325	33,815	79,070	75,384	93,921	34,113	316,303
Asphalt Oil	750	11,799	28,687	23,017	31,619	14,145	109,297
Kerosene	250	5,391	12,845	11,305	14,731	5,930	50,202
Sand	6000	2,250	5,845	7,512	7,105	4,898	27,600
Cenent	3750	1,862	5,105	9,897	5,712	3,037	24,603
River Stone	6000	8,209	3,046	10,093	7,035	3,310	31,693
Steel Houlds	7000	12	1,176	1,176	630	1,438	4,662
Timber	180000	3,870	9,676	16,524	19,206	37,350	85,626
Paint	2500	46	410	177	1,009	3,694	5,336
Reinforcing Steel	750	4,537	12,986	23,009	14,924	5,782	61,238
Tying Wire	1500	3,078	235	417	510	359	4,629
Equivalent Royalty	250	2,743	5,202	5,391	6,750	0,299	28,385

	PROV		ន	ULAWE	SI :	SELA.	ran	. K	AB	ı B	ARRU		:			
L INK NO	BRIDGE NAME			(CXIST)				LENGTH	NO	SPAN LENGTH	NEDTH (m)	AREA (EXIST) (m2)	AREA (NEW) (m2)	PIER (no)		ROAD CLASS
24	LAPPA DARE II LAPPA DARE III HASIMPU ANMERUNG	7	0100 0100 0100	KK KK KK	RC RC RC RC	BM50 BM50 BM50 BM50	(B) (A) (A) (3)	4.00 2.50 3.00 11.00	1	4.00 2.50 3.00 11.00	4.50 4.50 4.50 4.50	5.50 5.10	18.00 11.25 13.50 49.50	0 0 0	2	IIIA
	N. I R. I	_	LPAO LPAO	W 20	RC RC	8750 8750	(C)	6.00 6.00	i 1	6.00 6.00	4.50 4.50		27.00 27.00	0		1116
31	N. 1		\$ #	KK				5.00	i	5.00	3.00	15.00		0	2	IIIA
	N. 1 N. 1 N. 1 N. 1 N. 1	1 2 3 4 5	BLDA BLDA BLDA BLDA BLDA		AT AT AT AT AT	101 101 101 101 101	(A) (B) (C) (C)	_	1 1 3 5 1	7.00 8.00	4.00 4.00 4.00 4.00 4.00	0.00 0.00 0.00	12.00 16.00 84.00 160.00 24.00	0 0 2 4	2 2 2 2 2 2	1118-
42	BUKKERE TANRUT TEOONG BULU OKKAE KECCI BARANMING PANASA MARDANGING RUMPIA	1 1 2 3 3 4 5 8	LMP LMP LMP LMP LMP LMP LMP		HT H	101 107 107 101 101 107 101	(B) (B) (A) (C) (C) (B) (C)	5.00 4.00 5.00 3.00 6.00 6.00 4.00 12.00 6.00	1 1 1 1 1 2 1	5.00 4.00 5.00 3.00 6.00 4.00 6.00 6.00	4.00 4.00 4.00 4.00 4.00 4.00 4.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	20.00 16.00 20.00 12.00 24.00 24.00 16.00 48.00 24.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1118-2

9	JEPPEE GALUNGKALUNGE PANESSANGENG BUJUNG LONPO 1 BUJUNG LONPO 2 CIDAPI PASAKA PACCIRO BUKERE BAERA 1 BAERA 2 RAERA 3 LASAWA BINUANG TOSINA BATULAPA 1 BATULAPA 2	1 3 4 1 2 3 4 6	COPN COPN TKLS TKLS TKLS TKLS TKLS	GB KB KB KB KK KB KK	TH	101	(9)	2.00 4.00 4.40 3.00 10.00	1 1 1 2		4.00 4.00 5.00 5.25 4.00	8.00 16.00 22.00 15.75 0.00	46.00	0 0 0 0	2 2 2 2 2 2	111A 111B-
	PAMESSANGENG BUJUNG LOMPO 1 BUJUNG LOMPO 2 CIDAPI PASAKA PACCIRO BUKERE BAERA 1 BAERA 2 BAERA 3 LASAWA BIHUANG TOSIMA BATULAPA 1	1 3 4 1 2 3 4 6 7 7 8	COPN COPN TKLS TKLS TKLS TKLS TKLS	KR KB KB KK KK	TH	101	(8)	4.40 3.00 10.00	j l	4.40 3.00	5.00 5.25	22.00 15.75	40.00	0	2 2	1118-
	BUJUNG LOMPO 1 BUJUNG LOMPO 2 CIDAP1 PASAKA PACCIRO BUKERE BAERA 1 BAERA 2 BAERA 3 LASAWA BIHUANG TOSIMA BATULAPA 1	3 4 1 2 3 4 6 7 7 8	COPN COPN TKLS TKLS TKLS TKLS TKLS	KR KB KB KK KK	TH	101	(9)	3.00 10.00	1	3.00	5.25	15.75	46.00	0	2	1118-
	BUJUNG LOMPO 2 CIDAPI PASAKA PACCIRO BUKERE BAERA 1 BAERA 2 BAERA 3 LASAWA BINUANG TOSIMA BATULAPA 1	1 2 3 4 6 6 7 7 8	X TKLS TKLS TKLS TKLS TKLS TKLS	KB KB KB KK		101	(9)	10.00					46.00	0		
	PASAKA PACCIRO BUKERE BAERA 1 BAERA 2 BAERA 3 CASAWA BINUANG TOSINA BATULAPA 1	2 3 4 6 7 7 8	TKLS TKLS TKLS TKLS TKLS TKLS	KB KK KB	RC		J-044-	4.00				4.5		100		
	PASAKA PACCIRO BUKERE BAERA 1 BAERA 2 BAERA 3 CASAWA BINUANG TOSINA BATULAPA 1	2 3 4 6 7 7 8	TKLS TKLS TKLS TKLS TKLS TKLS	KB KK KB	RC		•	4.44	1	* 00	4 00	47.00				
12	PACCIRO BUKERE BAERA 1 BAERA 2 BAERA 3 LASAWA BIHUANG TOSINA BATULAPA 1	3 4 6 7 7 8	TKLS TKLS TKLS TKLS TKLS	KB KB	RC			2.00		4.00	4.00	16.00		0	2	IIIA
12	BUKERE BAERA 1 BAERA 2 BAERA 3 LASAWA BIHUANG TOSINA BATULAPA 1	4 6 7 7 8	TKLS TKLS TKLS TKLS	KK Kb	RC			3.50	1	2.00 3.50	3.00	6.00		. 0	2	
12	BAERA 1 BAERA 2 BAERA 3 CASAWA BIHUANG TOSINA BATULAPA I	6 7 7 8	TKLS TKLS TKLS	KB	1149	BM50	(0)	6.00	1	6.00	3.00 4.50	10.50 18.00	27.00	0	2	
12	BAERA 2 BAERA 3 LASAWA BINUANG TOSINA BATULAPA I	6 7 7 8	TKLS TKLS			Diloo	167	7.00		7.00	3.00	21.00	27.00	۷	2	
12	BAERA 3 CASAKA BINUANG TOSINA BATULAPA 1	7 7 8	TKLS					4.00	1	4.00	4.00	16.00		V A	2	
12	CASANA BINUANG TOSINA BATULAPA I	<i>7</i> 8		KK				B.00	. 1	8.00	4.00	32.00			2	•
12	BINUANG TOSINA BATULAPA I	8	TKLS	6B	RC	8H50	(8)	4.00	i	4.00	4.50	16.00	18.00	۸.	2	
12	TOSINA BATULAPA I	-	TKLS	KK	RC	BH50	(8)	5.00	i	5.00	4.50	20.00	22.50	: 1	2	
12	BATULAPA 1	7	TKLS	=1-	RC	8H50	(E)	26.00	2	13.00	4.50		117.00	1.	2	
12	- <u> </u>	10	TKLS	KK	RC	BH50	(0)	6.00	1	6.00	1.50	24.00	27.00	0	2	
12			TKLS	KK	RC	BM50	(A)	2,50	i	2.50	4.50	10.00		0	2	
12	BATULAPA 3	12	TKLS	KK	RC	BH50	(A)	2.00		2.00	4.50	8.00	9.00	Ŏ	2	•
	H. I	6	x	KB			*****	4.00	i	4.00	4.00	16.00		0	2	1114
	SERRE	11	MKS		RC	BN50	(A)	3.00	1	3.00	4.50		13.50	Ó	2	
	PACCEKKE	11	HKS	**	RC	BHSO	(E)	15.00	1	15.00	4.50	0.00		0	2	
		1	ž	68				5.00	1	5.00	4.00	20.00		. 0	2	ALLI
	TAHERE	2	PLR	68			- :	3.00	• 1	3.00	4.00	12.00	14.	0	2	
	BEHTENGE	5	PLR	68				3.00	<u> </u>	3.00	4.00	12,00		. 0.	2	
17.	LENNE 1	2	X					7.80	2	4.90	4.00	39.20		1	. 2	IIIA
	LENNE 2	2	LKR	KB				2.50	i	2.50	4.00	10.00		0	2	
	LENNE 3	2	LKR	. KÐ				2.80	1	2.80	4.00	11.20		0	2	
	8ACUAP IE	3	1.KR	K9				4.00	i	4.00	4.00	16.00		. 0	2	
	LOBOPUTE	3	LKR	KB		· .		3.00	i	3.00	4.00	12.00	<u></u>	0	2	
	LAPAI	4	LKR	K9	•			5.00	1		4.00	20.00		0	3	
	AJUARA	4	LKR	KB				4,50	1	4.50	4.00	18.00		. 0	2	
	DADE	4	LKR	KK				3.50	ŧ	3.50	4.00	14.00		0	2	
	LAHNING	5	LKR	. KB				4,50	1	4.50	4.00	18.00		0	2	
	PUCEE	5	LKR	KB				2.50		2.50	4.00	10.00		0	2	
19	KAERENGE 1	ı	¥	KB				3.50	1	3.50	4.00	14.00		0	2	IIIA
	GALUNG	1	KRNG	68				22,00	. 3	7.33	4.00	88.00		2	2	
	KAERENGE 2	1	KRNG	KB				4.00	Ī	4.00	4.00	16.00		0	2	
	PALAKKA	2	KRNG	.68				21.00	3	7.00	4.00	84.00	. 14	2	2	
	ADINGNEE	4	KRN6	, KB			100	4.00	1	4.00	4.00	16.00		0	2	
	GANO	8	KRNG	KB				12.00	2	6.00	4.00	48.00		i	2	
	BAKKE BAKKE	9	KRNG Krng	KB KB				4.50 4.00	1	4.50 4.00	4.00	18.00 18.00		0	2 - 2	,
						nuc^	(B)	4.00	1	4.00	4.50	8.00				
24	LAP UNPUNGENG		94 0100	KK	RC	9N50		4 1111				0 00	18.00	0	2	1114

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

PROV : SULAWESI SELATAN KAB : BARRU LINK NO : 1 (IIIA) LENGTH : 7 Km

						ia <u>Palatina in</u>			(Rp)
I T E H	UNIT	OUANTITY	<<< UNIT	COST >>> FOREIGN		<<<<< Local	COST FOREIGN))))) Total

Superstructure (Finber:Span 30:10T)	a 2	0.00	58,101	3,541		0	0		0
Superstructure (Timber;Span 5m;10T)	m2	0.00	64,356	3,910		0	0		. 0
Superstructure (Timber:Span 8m:101)	62	0,00	85,243	5.137		0	0	٠	0
Superstructure (limber;Span 3m;BHSO)	n2	0.00	72,043	1,379		0	. 0		0
Superstructure (Timber:Span 5m;BM50)	a2	0.00	78,652	1,745		. 0	0		0
Superstructure (Timber;Span 8m;8H50)	≢2	0.00	99,752	6,007		0	0		. 0
Superstructure (Concrete; Span 3m; 8850)	92	0.00	61,498	81,725		0	0	2	. 0
Superstructure (Concrete;Span 5a;8M50)	m2	0.00	62,917	91,542	11	0	0		. 0
Superstructure (Concrete; Span 8a; 8MSO)	# 2	0.00	64,626	99,704		0	0		0
Superstructure (Concrete;Spaniom;BMSO)	• 2	0.00		113,234		0 -	. 0		0
Superstructure (Concrete;Span15m;BMSO)	82	0.00	75,645	133,369		. O	0		0
Substructure (Pier: for Timber: 101)	NO	0.00	506,055	32,863		0	. 0		o o
Substructure (Abut; for Timber; [OT)	. NO	0.00	1,349,398	154,495		0	0		0
Substructure (Fier; for Timber; 8N50)	NO	0.00	744,249	49,632	gailte.	0	0		.: 0
Substructure (Abut; for Timber; BN50)	NO	0.00	1,528,934	171,666		0	. 0		0
Substructure (Pier; for Concrete; BNSO)	NO	0.00	1,795,557	452,906		0 -	0		0
Substructure (Abut; for Concrete; 8H50)	NO	0.00	3,754,600	959,362	- 1	0	0		. 0
Demolition of Bridge (Timber-)Timber)	e 2	0.00	15,925	1,374		0	0	. :	. 0
Demolition of Bridge (Timber-)Concrete)	#2	0.00	15,925	1,374		- 0	0		0
Demolition of Bridge (Concrete)	m?	0.00	91,055	61,824		. 0	ø		- 0
Haintenance of Timber Bridge (New)	#2	0.00	10,306	1,121		. 0	0		. 0
Haintenance of Concrete Bridge (New)	n2	0.00	2,129	2,456	**	~ 0	0	100	. 0
Maintenance of Timber Bridge (Exist)	s 2	0.00	8,977	2,405		0	. 0		. 0
Maintenance of Concrete Bridge (Exist)	n2	24.00	4,249	2,336	5	101,976	56,064		158,040
			:						
(Without Overhead)	. 1	OTAL COST	(Timber Bride			0	0		0
			(Concrete Bri			0	0		
	- 1	DIAL COST	(without Hair	rtenance)		0	0	· ·	
					-4				
(Overhead : 15%)	1	1201 IATO	Mimber Bridg	10)		0	· · · · · · · · · · · · · · · · · · ·		
Coverneau : 134 /	. '		(Concrete Bri			. ,	0		. 0
	1		Inithout Mair			ν Λ·			
	,	DINE COST	ANTEROUGE MALE	I CENTAILLE !		· v	U		

PROV : SULAWEST SELATAN

KAB : BARRU

LINK NO : 2 (1118-2)

LENGTH : 8 Km

(Rp) <<< UNIT COST >>> ****** COST **>>>>>** UNIT QUANTITY FOREIGN LUCAL LOCAL FORE IGN TOTAL Superstructure (limber:Span Jm; 101) 0.00 58,101 3,541 Superstructure (limber; Span Sm; 101) 0.00 64,356 3,910 Superstructure (Timber; Span Ba; 101) 0.00 85,243 5,137 Superstructure (Timber; Span 3m; BHSO) 0.00 aZ 72,043 4,379 Superstructure (Timber; Span 5m; BHSO) 62 0.00 78,652 4,745 Superstructure (Timber; Span Bm; BN50) 6,007 • 2 0.00 99,752 Superstructure (Concrete; Span 3a; BM50) • 2 0.00 61,498 81,725 Superstructure (Concrete; Span 5m; BM50) 0.00 62,917 91,542 Superstructure (Concrete; Span 8a; BH50) #2 0.00 61,626 99,704 Superstructure (Concrete; Spanton; DH50) 113,234 *2 0.00 70,529 Superstructure (Concrete; SpanlSo; 8X50) **9**2 0.00 75,645 133,369 Substructure (Pier: for Timber; 101) Wn 506,055 0.00 32,863 Substructure (Abutifor Timber:101) 154,495 NO 0.00 1,349,398 Substructure (Piersfor Timber; BH50) ÌΟ 0.00 744,249 48,632 Substructure (Abut; for Timber; BMSO) NO 0.00 1,529,934 171,666 Substructure (Pier; for Concrete; BM50) NO 0.00 1,795,557 452,906 Substructure (Abut; for Concrete; 8850) NO 0.00 3,754,600 959,362 Demolition of Bridge (Tieber-)Timber) ٣Ž 0.00 15,925 1,374 Demolition of Bridge (Timber->Concrete) 0.00 15,925 1,374 **a**2 Demolition of Bridge (Concrete) 91,055 0.00 64,824 Maintenance of Timber Bridge (New) 0.00 10,306 1,121 Maintenance of Concrete Bridge (New) 0.00 2,129 2,456 Haintenance of Timber Bridge (Exist) 8,977 0.00 2,105 Haintenance of Concrete Bridge (Exist) 102.00 4,249 2,336 433,39B TOTAL COST (Timber Bridge) (Without Overhead) (Concrete Bridge) TOTAL COST (without Maintenance) (Overhead : 15%) 101AL COST (Timber Bridge) (Concrete Bridge) TOTAL COST (without Haintenance)

PROV : GULAWESI SELATAN

KAB : BARRU

1.1M* MO + 3 (111B-1)

LENGTH : 5 Km

				100			(Rp)
TTEN CONTRACTOR	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> FOREIGN	<<<<<	COST FOREIGN	>>>>> Total
						**************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Superstructure (Timber;Span 3m;101)	#2	0.00	58,101	3,541	0	0	0
Superstructure (Timber; Span 5m; 101)		10.00	64,356	3,910	2,574,240	156,400	2,730,640
Superstructure (limber;Span 8m;101)	= 2	0.00	85,243	5,137	0	0	0
Superstructure (Timber;Span 3m;BH50)	e2	6.00	72,013	4,379	0	0	0
Superstructure (limber;Span 5m;BMSO)	2	0.00	78,652	4,745	0	0	C
Operstructure (Timber; Span 8m; RHSO)	a 2	0.00	99,752	6,007	0	0	
Superstructure (Concrete; Span 3m; 9850)	2	0.00	61,498	91,925	0	0	0
Superstructure (Concrete;Span Sm;8N50)	•2	0.00	62,917	91,542	0	Q .	
Superstructure (Concrete; Span 8m; BNSO)	a 2	0.00	64,626	99,704	0	0	0
Superstructure (Concrete;Span10m;BM50)	62	0.00	70,529	113,234	0	0	(
Superstructure (Concrete:Span!5a;8M50)	a2	0.00	75,615	133,369	0	0	
Substructure (Piersfor Timbers10T)	NO	1.00	506,055	32,863	504.055	32,063	538,916
Substructure (Abutilar Timber;101)	ЖO	2.00	1,349,398	154,495	2,698,796	308,990	3,007,788
Substructure (Pieryfor Timber; PMSO)	HO	0.00	744,249	4B,632	1,0,0,,,,0	0,0,7,0	01001110
Substructure (Abut; for Timber; BH50)	NO	0.00	1,528,934	171,666	ň	ň	
Abstructure (Pier; for Concrete; RH50)	. KO	0.00	1,795,557	452,906	û	n	
Substructure (Abut; for Concrete; BN50)	KO	6.00	3,751,600	959,362	ň	ň	
emolition of Bridge (Timber-)Timber)	*2	0.00	15,925	1,374	ñ	ň	
emolition of Bridge (Timber-)Concrete)	m2	0.00	15,925	1,374	Ô	ň	
Demolition of Bridge (Concrete)	a2	0.00	91,055	64,824	Ŏ	0	~ (
Maintenance of Timber Bridge (New)	- 2	40.00	10,306	1,121	412,240	44,840	457,086
	*?	and the second second		• •		11,010	137,000
faintenance of Concrete Bridge (New)	-2	0.00	2,129	2,456	0		179,265
laintenance of limber Bridge (Exist)	#2	15.75	8,977	2,105	141,387	37,878	
daintenance of Concrete Bridge (Exist)	a 2	22.00	4,249	2,336	93,478	51,392	144,870
(Without Overhead)	. 1	OTAL COST	(Timber Bridg	e)	5,779,091	498,253	6,277,344
			(Concrete Bri		0	0	. (
	Ţ	OTAL COST	(without Main		5,779,091	498,253	6,277,344
				. 			
(Overhead : 15%)	1	DIAL COST	(Timber Bridg (Concrete Bri		6,645,955 0	572,991 0	7,218,94
		OTAL COST			y	572,991	7,218,946

KAB BARRU

LINK MO : 9 (IIIA) LENGTH :

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7700000						( Rp )
I TEN	TIKU	QUANTETY	<<< UNIT LOCAL	COST >>> FOREIGN	\\\\ LOCAL	COST FOREIGN	>>>>> TOTAL
Superstructure (Timber; Span 3m; 10T)	<b>#2</b>	0.00	50,101	3,541	^		A
Superstructure (limber; Span 5m; 101)	m2	0.00	64,356	3,910	0	v o	
Superstructure (Timber; Span 8m; 101)	a2	0.00	85.243	5,137	ň	ů	o o
Superstructure (Timber: Span 3m; BH50)	<b>p2</b>	0.00	72,043	4,379	ň	ň	Ŏ
Superstructure (Timber;Span 5m;8H50)	<b>#2</b>	0.00	78,652	1,745	ŏ	n	0
Superstructure (Timber:Span 8m:8H50)	•2	0.00	99,752	6,007	0	ne vitalija.	٨
Superstructure (Concrete:Span 3m; 9H50)	• 2	20.25	61,498	81,925	1,245,334	1,659,981	2,904,315
Superstructure (Concrete; Span 5m; BN50)	•2	10.50	62,917	91,542	2,548,138	3,707,451	6,255,589
Superstructure (Concrete; Span Bu; BH50)	2	54.00	64,626	99,704	3,487,804	5,391,016	9,873,820
Superstructure (Concrete; Span10m; BHSO)	*2	0.00	70,529	113,234	0,107,007	0,501,010	0,013,020
Superstructure (Concrete; Spanism; BNSO)	- 2	117.00-	75,615	133,369	8,850,465	15,601,173	24,454,638
Substructure (Piersfor Timber;101)	NO	0.00	506,055	32,863	0,000,100	10,001,173	מנסנינייני ת
Substructure (Abut; for Timber; 101)	NO	0.00		151,495	٨		'n
ubstructure (Pier; for Timber; 9M50)	KO	0.00	744,249	48.632	. 0		0
Substructure (Abut; for Timber; 9M50)	NO	0.00	1,528,934	171,666	0	e e e e e e e e e e e e e e e e e e e	
Substructure (Pierifor Concrete:DH50)	NO	1.00	1,795,557	452,906	1,795,557	452,706	2,248,463
Substructure (Abut; for Concrete; PM50)	NO.	14.00	3,754,600	959,362	52,564,400	13,431,068	65,975,468
emolition of Bridge (Timber->Timber)	=2	0.00	15,925	1,371	0210011100	0	00,110,100
Demolition of Bridge (Timber-)Concrete)	×2	80.00	15,925	1,374	1,274,000	109,920	1,383,920
Demolition of Bridge (Concrete)	m2	16.00	91,055	64,824	1,456,880	1,037,184	
enoration of writing about the	W.C.	10.00	11,000	01,021	1,400,000	1100/1101	2,494,064
laintenance of Timber Bridge (New)	-2	0.00	10,306	1,121	0	0	9
laintenance of Concrete Pridge (Newl	в2	231.75	2,127	2,456	193,395	569,178	1,062,573
laintenance of limber Oridge (Exist)	*2	48.00	8,977	2,405	130,876	115,440	546,336
faintenance of Concrete Bridge (Exist)	₽2	53.50	4,249	2,335	227,321	124,976	352,297
					*****		
( Hithout Overhead )	1	OTAL COST	(Timber Bridg	e)	0		0
		1. 1. E. S.	(Concrete Bri	dgel	13,224,578	41,385,699	114,610,277
	ī		(without Main		73,224,578	41,385,699	114,610,277
	×	<b></b>					
( Overhead : 151 )		DTAL COST	llimber Bridg	el	0	0	0
			(Concrete Bri		84,208,265	47,593,554	131,801,819
the second control of	T	STAL COST	lwithout Main		94,208,265	47,593,554	131,801,819

FROV : BULAWESI BELATAN

KAB : BARRU

LINK NO : 12 (111A)

LENGTH : 12 Km

					·		(Rp )
TER TOTAL	UNIT QL	PITTIAN	<<< UNIT	COST >>> FOREIGN	((((	(COST FOREIGN	>>>>> TOTAL
		******			PH		
Superstructure (Timber;Span 3m;101)	#2	0.00	58,101	3,541	0	0	(
Superstructure (Timber;Span 5m;10T)	• ?	0.00	61,356	3,710	0	0	(
Superstructure (Timber;Span Bm;101)	•2	0.00	85,243	5,137	0	0	C
Superstructure (Timber; Span 3m; BK50)	<b>"</b> 2	0.00	72,043	4,379	0	0	1 1 1 1 1 1 d
uperstructure (Timber; Span 5m; PN50)	₽2	0.00	78,652	4,745	0	0	
Superstructure (Timber; Span 8m; 8M50)	•2	0.00	99,752	6,007	0	0	لها الأعكماة
uperstructure (Concrete; Span 3m; 8K50)	<b>•</b> 2	13.50	61,498	81,925	830,223	1,105,987	1,936,21
Superstructure (Concrete; Span 5m; 8N50)	<b>*2</b>	0.00	62,917	71,542	0	0	
Superstructure (Concrete;Span 8m;9850)	<b>a</b> 2	0.00	61,626	99,704	0	0	
Superstructure (Concrete; Spanlom; BM50)	<b>n</b> 2	0.00	70,529	113,234	0	0	
operstructure (Concrete; Spanism; 8M50)	<b>=</b> 2	67.50	75,645	133,369	5,106,037	9,002,407	14,108,44
Substructure (Pier; for Timber; 101)	NO	0.00	506,055	32,863	0	0	
Substructure (Abut; for Timber; 101)	NO	0.00	1,349,398	154,495	0	0	
ubstructure (Pier;for Timber;RH50)	ND	0.00	744,249	48,632	0	0	Tarlar a
ubstructure (Abut;for Timber;DN50)	NO	0.00	1,528,934	171,666	0	. 0	
ubstructure (Pier; for Concrete; 8850)	NO	0.00	1,795,557	452,906	0	. 0	
Substructure (Abut; for Concrete; 8X50)	NO	4.00	3,754,600	959,362	15,018,400	3,837,448	10,855,84
emolition of Bridge (limber->limber)	<b>#</b> 2	0.00	15,925	1,374	0	0	
emolition of Bridge (Timber-)Concrete)	<b>=2</b>	0.00	15,925	1,374	0	0	
Peaulition of Bridge (Concrete)	67	0.00	91,055	64,824	,0	. 0	-, · -
laintenance of Timber Bridge (New)		0.00	10,306	1,121		0	
laintenance of Concrete Bridge (New)		81.00	2,129	2,456	172,449	198,936	371,38
laintenance of Timber Bridge (Exist)	92	0.00	8,977	2,405	0	. 0	
laintenance of Concrete Bridge (Exist)	#2	16.00	4,249	2,336	67,984	37,376	105,36
	<del></del>		<del></del>	<del> </del>			
I Without Burkers 1	1014	u raet	(Ticher Drid-	inl	0	0	
( Without Overhead )	. 1011		(Mimber Bride (Concrete Bri		20.954.660	13,945,842	34,700,50
	IUI		twithout Hair		20,751,660	13,915,812	34,900,50
	1011	ic cusi	TWILLIOUS HALL	icenancer	2017341880	10,710,012	33,700,00
( Overhead : 15% )	101	il cost	(Timber Bridg		0	0	
			(Concrete Bri		24,097,859	16,037,718	40,135,57
	101	AL COST	(without Hair	itenance)	24,097,859	16,037,718	10,135,57

PROV : SULAWEST SELATAN

KAB : BARRU

LINK NO : 15 (IIIA)

LENGTH : 6 Km

							( Rp )
TEN A STAN	TINU	QUANTITY	CCAL LOCAL	COST >>> Foreign	((((( Local	COST FOREIGN	>>>>> TOTAL
						**	
Superstructure (Timber;Span 3m;10T)	<b>a</b> 2	0.00	58,101	3,541	a.	٨	
Superstructure (Timber;Span 5m;101)	<b>*</b> 2		61,356	3,910	0	ň	
Superstructure (Timber;Span 8m;10T)	<b>*2</b>		85,243	5,137	0	•	
Superstructure (limber; Span Jm; 8K50)	•2		72,043	4,379	n	0	
Superstructure (Timber;Span 5m;8H50)	e2		78,652	4,745	Ŏ	,	
Superstructure (Timber;Span Ba;BHSO)	•2		99,752	6,007		٨	
Superstructure (Concrete;Span 3m;8850)	n2		61,498	81,925	Û	۸	
Superstructure (Contrete:Span 5m; BH50)	<b>#2</b>		62,917	91,542	۸	· · · · · · · · · · · · · · · · · · ·	1 7
Superstructure (Concrete; Span 8#; 8H50)	#2			99,704	0	v	: '
Superstructure (Concrete;Span10a;8M50)	*2		70,529	113,235	V	0	
Superstructure (Concrete; Spanism; 8K50)	e2		75,645	133,369	V A	, v	
ubstructure (Pier;for limber;101)	NO		506,055	35,893	۷	V	
ubstructure (Abut; for Timber; 101)	NO		1,347,398	154,495	۷	0	11.
ubstructure (Pier; for Tieber; BM50)	NO		741,249	48,632	0	0	
ubstructure (Abut; for Timber; 8H50)	NO		1,528,934	171,666	0	0	
ubstructure (Pier; for Concrete; RM50)	NO		1,795,557	452,906	0	n	t de la
ubstructure (Abut; for Concrete; 8H50)	NO	2.33	3,751,600	959,362	ň	ň	
emolition of Bridge (Timber->Timber)	■2		15,925	1,374	ň	'n	
emolition of Bridge (Timber-)Concrete			15,925	1,374	0	0	1.0
Peanlition of Bridge (Concrete)	e 7		91,055	64,824	0	Ó	
aintenance of Timber Bridge (New)	•2	0.00	10 704	. 1 101		•	
laintenance of Concrete Bridge (New)	m2		10,306	1,121	۷ .		100
aintenance of limber Bridge (Exist)		1 11 1	2,129	2,456	v	. ,	
aintenance of Concrete Bridge (Exist)	#2 #2		•	2,405		162 204	200 1
arriceratice of concrete pringe texistr	82	44.00	4,249	2,336	186,956	102,784	289,7
				*			
( Without Overhead )	. •	TOTAL COST	(Timber Bridg		, O	0	
			(Concrete Bri		0	0 -	
	,	IOTAL COST	(without Mair	itenance)	0	0	
( Overhead : 15% )		INTAL CRET	(Timber Bride	10]	Λ.	0	
A nasiusan : 191 )	,		(Concrete Bri		V 0	. v	
					0	۸	
		IOIAL CUST	(without Hair	(cenance)	Ų	V	

ROV : SULAWESI SELATAN

KAD : BARRU

LINK NO : 17 (111A)

17 (IIIA) LENGTH : 6 Km

		· · · · · · · · · · · · · · · · · · ·			<u> </u>		( Rp )
11EH	UNIT	QUANTITY	<<< UNIT	COST >>> FOREIGN	((((( LOCAL	COST FOREIGN	>>>>> TOTAL
				,			
uperstructure (limber;Span 3m;101)	42	0.00	50,101	3,541	0	0	
Superstructure (Timber;Span 5m;10T)	· =2	0.00	64,356	3,910	0	0	
Superstructure (limber;Span 8m;101)	<b>a</b> 2	0.00	85,243	5,137	0	0	
uperstructure (Timber;Span 3m;8H5O)	a2	0.00	72,043	4,379	0	0	
uperstructure (Timber;Span 5m;BH50)	<b>a</b> 2	0.00	78,652	4,745	0	0	
uperstructure (Timber;Span 8m;8H50)	æ2	0.00	99,752	6,007	0	0	
uperstructure (Concrete;Span 3m;8850)	•2	0.00	61,498	81,925	0	0	
uperstructure (Concrete;Span 5#;BH50)	<b>2</b>	0.00	62,917	91,542	ň	0	100
uperstructure (Concrete; Span 8e; 8450)	±2	0.00	61,626	99,701	٨	0	
uperstructure (Concrete; Spanion; 8750)	-2	0.00	70,529	113,234	ň		eli de de
uperstructure (Concrete;Spantom;ensor)	n2	0.00	75,645	133,369	ň	n	
		0.00			۷		
ubstructure (Pier;for Timber;101) ubstructure (Abut;for Timber;101)	NO		506,055	32,863	•	0	
	NO		1,349,398	154,495	0	, v	
ubstructure (Pier; for Ilmber; BH50)	NO	0.00	744,249	49,632	v		
ubstructure (Abut; for Timber; BM50)	NO	0.00	1,528,934	171,666	v	U.	e, to a co
ubstructure (Piersfor Concrete; 8850)	NO	0.00	1,795,557	452,906	V		100
ubstructure (Abut; for Concrete; 8H50)	KO	0.00	3,751,600	959,362	0	0	
emolition of Bridge (Timber-)Timber)	•2	0.00	15,925	1,371	V	0.	100
emolition of Bridge (limber-)Concrete)	a2		15,925	1,374	0	V	100
emotition of Bridge (Concrete)	<b>=</b> 2	0.00	91,055	64,824	0	. 0	
aintenance of Timber Bridge (New)	<b>s</b> 2	0.00	10,306	1,121	0	111 L O	
aintenance of Concrete Bridge (New)	. a2	0.00	2,129	2,156	0	0	100
aintenance of Timber Bridge (Exist)	<b>=2</b>	14.00	8,977	2,405	125,678	33,670	159,3
aintenance of Concrete Bridge (Exist)	<b>a</b> 2	154.40	1,249	2,336	656,045	360,678	1,016,7
				- 4			
( Without Overhead )	T	OTAL COST	(Timber Dridg		.0	· · · · · 0	
		100	(Concrete Bri		0	0	
	1	OTAL COST	(without Mair	itenance)	0	0	
( Overhead : 15% )		81AL C051	(limber Bride	ial	ń		
t nasiusan t-194 i		U1HL 0031	(Concrete Bri		. 0	0	
		OTAL PORT			۷	. 0	
•	. 1	DIAL COST	(without Mair	icenancei	V .	v	

SULAWEST SELATAN

KAD : BARRU

LINK NO : 19 (IIIA) LENGTH :

10 Km

								( Rp )
	ent TEM + Comment of the Comment	UNIT	YTTTKAUD	CCAL UNIT	COST >>> FOREIGN	<<<<< LOCAL	COST FOREIGN	>>>>> TOTAL
		- p- 44 4- 45 4- 45 :	+********					
	Superstructure (Timber)Span 3m; 10f)	.2	0.00	58,101	3,541	0	0	0
	Superstructure (fimber; Span Sm; 101)	. 82		64,356	3,910	0	0	0
	Superstructure (Timber:Span 8m; 101)	#2	0.00	85,243	5,137	0	0	0
	Superstructure (limber:Span 3m;BH50)	- 27		72,013	4,379		0	0.
	Superstructure (Timber Span 5m; BMSO)	*2	0.00	70,652	4,745	0	0	0
	Superstructure (Fimber; Span 8m; 8M50)	<b>a</b> 7	0.00	99,752	6,007	0	0	0
	Superstructure (Concrete; Span 3m; 8M50)	n/	0.00	61,498	81,925	0	0	0
-	Superstructure (Concrete;Span 5m;8H50)		0.00	62,917	91,542	0,444	0	0
	Superstructure (Concrete; Span 8m; BMSO)	• 2	0.00	64,626	99,704	0	0	
	Superstructure (Concrete; Span10m; 8M50)	• 97	0.00	70,529	113,234	: 0 : .	0	0
	Superstructure (Concrete;Span15m;RM50)	R/A	0.00	75,645	133,369	0	0	0
	Substructure (Piersfor Timber; 107)	· \	0.00	506,055	32,863	0	0	0
	Substructure (Abut; for Timber; 101)	N.	0.00	1,349,398	154,495	0	0	0
	Substructure (Pier; for Timber; 8H50)	X(	0.00	741,249	18,632	0	0	0.
	Substructure (Abut; for Timber; BN50)	K(	0.00	1,528,934	171,666	Ç	0	0
	Substructure (Pier; for Concrete; BN50)	HC	0.00	1,795,557	452,906	0	0	0
	Substructure (Abut; for Concrete; BM50)	N(	0.00	3,751,600	959.362	0	. 0	• • • • •
	Demolition of Bridge (limber->Timber)	D.	0.00	15,925	1,374	0	0	0
	Demolition of Bridge (Timber-)Concrete)	R	0.00	15,925	1,374	0	0	• 0
	Demolition of Bridge (Concrete)	6	2 0.00	91,055	64,824	0	. 0	. 0
	Haintenance of Timber Bridge (Hew)	a ž	2 0.00	10,306	1,121	0	0	0
	Raintenance of Concrete Bridge (New)				2,456	0	0	. 0
	Haintenance of Timber Bridge (Exist)	a a		8,977	2,405	0	0	0
	Haintenance of Concrete Bridge (Exist)	•			2,336	1,274,700	700,800	1,975,500
						p		
						44		
	( Without Overhead )		TOTAL COST	(Timber Brid		0	. 0	0
			1.5	(Concrete Br		0	0	0
			TOTAL COST	(without Hai	ntenancei	0	. 0	. 0
	( Overhead : 15% )		TOTAL COST	(Timber Brid	lge}	. 0	0	0
				(Concrete Br		0	0	. 0
	the state of the s		TOTAL COST	(without Hai	ntenance)	0	0	. 0
					The second second			

PROV : SULAN	EBI SELA	TAN KAB	# DA	RRU		
LINK NU : 24 (	(III)	LENGTH	1 9 K	m		
						( Ap
I T E H	UNIT DUA		COST >>> FORE16N	CCCAL LOCAL	COST FOREIGN</td <td>&gt;&gt;&gt;&gt;&gt; TOTA</td>	>>>>> TOTA
		***************************************				
Superstructure (Himber;Span 3m;101)	<b>#2</b>	0.00 58,101	3,541	, i ( ) ( ) ( )	0	
Superstructure (Timber; Span Sm; 101)	<b>a</b> 2	0.00 64,356	3,910	- 0	0	and the state of
Superstructure (Timber;Span 8m;101)	<b>a</b> 2	0.00 85,243	5,137	0	0	
Superstructure (Timber;Span Jm:8850)		0.00 72,043	1,379	0	0	
Superstructure (Timber;Span 5m;RNSO)	<b>a</b> 2	0.00 78,652	4,745	0	0	$\{t_{i_1},\dots,t_{i_n}\}_{i=1}^n$
Superstructure (Timber;Span Bm;BM50)	≢2	0.00 99,752	6,007	0	uta ni a taga 0 a	Company of the
Superstructure (Concrete; Span 3m; BH50)		4.75 61,498	81,925	1,522,075		3,549,71
Superstructure (Concrete; Span 5m; BMSO)	and the second second	4.00 62,917	91,542	3,397,518	4,943,268	8,340,78
Superstructure (Concrete; Span Bo; 8450)	a?	0.00 64,626	99,704	0.	0	
Superstructure (Concrete; Span10m; 8M50)	<b>#2</b>	0.00 70,529	113,234	.0	0	a in order
Superstructure (Concrete; Spant5#; BH50)	#2 <b>4</b>	9.50 75,645	133,369	3,744,427	6,601,765	10,346,19
Substructure (Pier; for Timber; 101)	ND	0.00 506,055	32,863	0	0	100
Substructure (Abut; for Timber; 101)	NO	0.00 1,349,398	154,495	0	0.	1.1
Substructure (Pier; for Timber; 8M50)	HO	0.00 744,249	40,632	0.1	0	1.5
Substructure (Abut; for Timber; BK50)	HO	0.00 1,528,934	171,666	0	0	
Substructure (Pier; for Concrete; BHSO)	KO .	0.00 1,795,557	452,906	0	0	400,00
Substructure (Abut; for Concrete; BH50)	NO 1	2.00 3,754,600	959,362	45,055,200	11,512,344	56,567,54
Demolition of Bridge (Timber->Timber)		0.00 15,925	1,374	0	0	
Demolition of Bridge (Timber->Concrete)		3.80 15,925	1,374	1,175,265	101,401	1,276,66
Demolition of Bridge (Concrete)		0.00 91,055	64,824	0	0	
			0.100		and a la	1.4
Haintenance of Timber Bridge (New)	<b>£</b> 2	0.00 10,306	1,121	0	0	
Haintenance of Concrete Bridge (New)		8.25 2,129	2,456	273,044	314,782	508,02
Maintenance of Timber Bridge (Exist)		0.00 8,977	2,405	. 0	0	
Haintenance of Concrete Bridge (Exist)		0.00 4,249	2,336	. 0	0	
	<b></b> .		-,			
( Without Overhead )	TOTAL	COST (Fieber Bride	je) ·	0	0	
	1. F.	(Concrete Br		51,891,485	25,186,421	80,080,90
	TOTAL	COST (without Main		54,874,485	25,186,421	80,080,90
				•		· ·
:						
( Overhead : 15% )	TOTAL	COST (Tiaber Brid		. 0	0	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Concrete Br		63,128,659	20,764,384	92,093,04
	TOTAL	COST (without Hair	-	63,120,658	28,964,384	92,093,04

SULAWESI SELATAN KAB : BARRU

1 LINK NO : 29 (111A)

LENGTH : 5 Km

		*********					( Rp
TERES	UNET	QUANTITY	<<< UNIT	COST >>> FOREIGN	((((( Local	COST FOREIGN	>>>>> 101A
Superstructure (limber:Span Jm;101)	<b>#2</b>	0.00	58,101	3,54i	:	۸	
Superstructure (limber; Span 5m; 101)	<b>#2</b>	0.00	64,356	3,910	ň	0	10,70,00%
uperstructure (Timber: Span 8m; 101)	<b>#2</b>		85,213	5,137	0	0	Frank C.
uperstructure (limber; Span 3m; BH50)	#2	0,00	72,043	1,379	ň	ů.	
uperstructure (limber;Span 5m;BM50)	#2	0.00	78,652	4,745	ň	ń	
uperstructure (Timber;Span Bm;BHSO)			99,752	6,007	Ó	Ġ	
Superstructure (Concrete; Span 3m; PM50)	<b>#</b> ?	0.00	61,498	81,925	. 0	0	11 11
Superstructure (Concrete;Span 5a;BH50)	. ≥2	0.00	62,917	91,512	0	0	
uperstructure (Concrete;Span 8m;8M50)	<b>p</b> 2	54.00	64,626	99,704	3,489,804	5,384,016	8,873,8
Superstructure (Concrete; Spanion; BM50)	<b>#</b> 2	0.00	70,529	113,234	0	0	
operstructure (Concrete;Span15m;BH50)	#2	0.00	75,645	133,369	0	0	
Substructure (Pier; for Timber; 101)	Hü	0.00	506,055	32,863	0	0	
Substructure (Abul; for Timber; 101)	, xo	0.00	1,349,398	154,195	0	0	
Substructure (Pier; for Timber; PMSO)	NO	0.00	744,249	48,632	. 0	0	
Substructure (Abut; for Timber; BM50)	KO	0.00	1,528,934	171,666	0	0	100
Substructure (Pier; for Concrete; PM50)	NO	0.00	1,795,557	452,906	0	0	
Substructure (Abut; for Concrete; 8H50)	NO	*****	3,754,600	959,362	15,018,400	3,837,448	18,855,8
Jesolition of Bridge (limber-)limber)	<b>n</b> 2	0.00	15,925	1,374	0	0	
Demolition of Bridge (Timber-)Concrete)	<b>\$</b> 2	0.00	15,925	1,374	0	0	
emolition of Bridge (Concrete)	₽2	0.00	91,055	64,824	. 0	0	
faintenance of Timber Bridge (New)	#2	0.00	10,306	1,121	0	0	
aintenance of Concrete Bridge (New)	e2	54.00		2,456	114,966	132,624	247,5
laintenance of Timber Bridge (Exist)	*2	0.00		2,405	0	0	
laintenance of Concrete Pridge (Exist)	<b>a</b> ?	0.00	4,249	2,336	0	0	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			**********		*****		
(Without Overhead)		OTAL COST	(limber Bridg		0	0	
			(Concrete Bri		18,508,204	9,221,464	27,729,6
		OTAL COST	(without Hain	tenancel	18,508,204	9,221,464	27,729,6
**************			***	:			*
(Overhead : 15%)	Ţ	OTAL COST	(Nieber Bridg	e)	.0	. 0	
			(Concrete Bri		21,284,435	10,604,684	31,889,1
•	ĭ	DIAL COST	(without Main	tenance)	21,284,435	10,604,684	31,989,1

PROV : SULAWESI SELATAN

KAB I BARRU

LINK NO : 31 (IIIA)

31 (IIIA) LENGTH 1 3 Km

	 				e jake a		(Rp 1
ITEH	UNIT	QUANTETY	<<< UNIT LOCAL	COST >>> FORETGN	(((((Local	COST FOREIGH	>>>>> Total
			PD 101	7 641		Δ.	
Superstructure (Himber; Span 3m; 101)	#?	0.00		3,541			
Superstructure (Timber; Span 5m; 101)	e 2	0.00	64,356	3,910	0	۷ ^	(
Superstructure (Timber;Span 8m;10T)	n2	0.00	85,243	5,137	V	,	
Superstructure (Timber; Span 3m; DNSO)	a2	0.00	72,043	1,379	0	0	
Superstructure (limber:Span Sm: 8M50)	6 2	0.00	78,652	4,745	0	۷	
Superstructure (limber;Span 8m;BMSO)	8 2	0.00	99,752	6,007	V	۷ .	
Superstructure (Concrete; Span 3m; 8HSO)	27	0.00	61,498	81,925	0	۷	
Superstructure (Concrete;Span Sa;BH50)	#Z	0.00	62,917	91,542	U A	٥	
Superstructure (Concrete; Span Ba; BMSO)	*2	0.00	64,626	99,704	V	0	A Committee of the Comm
Superstructure (Concrete; Span10*; 8M50)	# 2	0.00	70,529	113,234	V	V	
Superstructure (Concrete;SpanlSm;BM50)	42	0.00	75,645	133,369	0	Ų	
Substructure (Pier; for Timber; 101)	HO	0.00	506,055	32,863	0	Ų	
substructure (Abut; for Timber; 101)	NO	0.00	1,349,398	154,495	0	Ų	11
ubstructure (Pier;for Timber;BH50)	HO	0.00		48,632	0	0	
ubstructure (Abut) for Timber; 9H50)	KO	0.00	1,528,934	171,666	0 .	0	
Substructure (Pierifor Concrete; BHSO)	HO	0.00	1,795,557	452,906	0	0	
Substructure (Abut; for Concrete; 8H50)	NO	0.00	3,751,600	959,362	0	0	en e
Demolition of Bridge (Timber->Timber)	. •2	0.00	15,925	1,374	0	0	
emolition of Pridge (Timber->Concrete)	#2	0.00	15,925	1,374	0	0	
Demolition of Bridge (Concrete)	82	0.00	91,055	64,824	· 0	0	•
laintenance of Timber Bridge (New)	#2	0.00	10,306	1,121	0	0	
laintenance of Concrete Bridge (New)	₽2	0.00	2,129	2,456	0	0	
laintenance of limber Bridge (Exist)	a 2	15.00	9,977	2,405	134,655	36,075	170,73
laintenance of Concrete Bridge (Exist)	22	0.00	4,249	2,336	0	0	
(Without Overhead)	т	ntar énet	(Timber Bridg		0	٨	
t without planess !			(Concrete Bri		0	o O	1 "
		ATAL COCT	(without Main		v .	, v	
	•	OTHE COST	AMITHORY NATI	I CHBILLY		V	
			e 1 e		*********		
(Overhead : 15%)	. 1	NTAL PROF	(Timber Oride	18)	: n · ·		
t Dictileds & 104 f	'	0 inc 6001	(Concrete Bri		0	٥	
	. 1	NIM PACT	(without Main		ń	Λ	
	'	UINL UUUI	PASSIONS HIGH	rechance!	. v	, v	

PROV : SULAWESI SELATAN

KAD : DARRU

PROV	* SULAW	JESI SE	LATAN	KAD	T BA	RRU		
ON MATH	: 32 (IIIB-1)	LENGT	H : 2	3 Km		
~~~~~~~		·. ·						( Rp )
ITEH		UNIT	QUANTITY		COST >>> FOREIGN	<<<<<	COST FOREIGN	>>>>> TOTAL
	*************				*********	**********	***********	
Superstructure (Timber;S	ipan 3m; 101)	*2	12.00	58,101	3,541	697,212	42,492	737,704
Superstructure (limber:S		₽2	16.00	64,356	3,910	1,029,696		1,092,258
Superstructure (Timber;S	ipan 8m; 101)	<b>#</b> 7	288.00	85,243	5,137	22,845,124	1,376,716	24,221,840
Superstructure (limber)		n7	0.00	72,043	4,379	0	0	(
Superstructure (limber:S		₽2	0.00	78,652	1,745	0	0	0
Superstructure (limber;		■?	0.00	99,752	6,007	: : : 0 : .	0	0
Superstructure (Concrete	Span 30; BMS0)	<b>8</b> 2	0.00	61,498	81,925	j 0°	0	•
Superstructure (Concrete		<b>£</b> 7	0.00	62,917	91,542	0	2.0	ſ
Superstructure (Concrete		•2	0.00	64,626	99,704	0.00	0	(
Superstructure (Concrete		<b>#2</b>	0.00	70,529	113,234	0	0	. (
Superstructure (Concrete		<b>e2</b>	0.00	75,645	133,369	0	()	
Substructure (Pier:for	liaber;101)	NO	6.00	506,055	32,863	3,036,330	197,178	3,233,50
Substructure (Abut; for )	limber; 1011	HO	10.00	1,349,390	154,495	13,193,980	1,544,950	15,038,930
Substructure (Pier;for )	limber; BH50)	NO	0.00	744,249	48,632	0	6	(
Substructure (Abut;for )	liaber; PH501	NO.	0.00	1,528,934	171,666	0	0	
Substructure (Pier;for C	Concrete; BH501	NO	0.00	1,795,557	452,906	0	. 0	. (
Bubstructure (Abut;for (	Concrete; 8H50)	KO	0.00	3,754,600	959,362	0	0	(
Demolition of Bridge (Ti	aber->Timber)	a2	0.00	15,925	1,374	0	0	C
Demolition of Bridge (Ti		•2	0.00	15,925	1,374	0		Ġ
Demolition of Bridge (Co		<b>=2</b>	0.00	91,055	64,824	Ō	. 0	
Maintenance of Timber Br	idoe (Hen)	<b>#</b> 2	296.00	10,304	1,121	3,050,576	331,816	3,382,392
Haintenance of Concrete		<b>a</b> 2	and the second second	2,129	2,456	0	. 0	(
Maintenance of Timber Br		<b>#2</b>	0.00	8,977	2,405	Ŏ	. 0	į
Haintenance of Concrete		<b>#2</b>	0.00	4,249	2,336	+ "x " + 0	0.	1 (
					*********		<u> </u>	
( Without (	Overhead 1	1		(Timber Brid (Concrete Br		41,102,342	3,223,896 0	44,326,23
		1		(without Hai		41,102,342	3,223,896	44,326,23
( Overhead	: 15%)	1	OTAL COST	(Finber Brid		47,267,693	3,707,480	50,975,17
4				(Concrete Br		0	0	
		1	NYAS PACY	<b>lwithout</b> Mai	ntunancal	47,267,693	3,707,480	50,975,174

PROV SULAWEST SELATAN

KAB : BARRU

LINK NO :

42 (111B-2) LENGTH : 46 Km

							( Rp )
JTÉŘ NAS BOLE Maria (1988)	UNIT	QUANTITY	<<< UNIT	COST >>> FOREIGN	LOCAL		>>>>> TOTAL
					***************************************		
Superstructure (Timber:Span 3m; 101)	•2	12.00	58,101	3,511	677,212	42,492	739,704
Superstructure (limber:Span Sm:101)	. a2	72.00	61,356	3,910	4,633,632	281,520	4,915,152
Superstructure (Timber) Span Ba; (OT)	*2	120.00	05,243	5,137	10,229,160	616,440	10,845,600
Superstructure (Timber; Span 3m; RH50)	#2	0.00	72,043	4,379	0	0	<b>0</b>
Superstructure (fimber; Span 5@; BH50)	m2	0.00	78,652	4,745	J 41 - 0	0.	0
Superstructure (Timber; Span 8m; Bh50)	#2	0.00	99,752	6,007	-1 -1 -0 -	. 0	0
Superstructure (Concrete; Span Ja; BN50)		0.00	61,498	81,925	1.0	0.	0
Superstructure (Concrete; Span 5m; BMSO)	₽2	0.00	62,917	91,542	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	<b>#</b> 2	0.00	64,626	99,704	1 - 1 - 1 - 1 - 0	0	0
Superstructure (Concrete; SpantOm; BM50)		0.60	70,529	113,234	0	0	0
Superstructure (Concrete; SpantSa; 8M50)	<b>»</b> 2	0.00	75,645	133,369	0	0	9
Substructure (Pier; for Timber; 101)	NO	1.00	506,055	32,863	506,055	32,863	53B,918
Substructure (Abut; for Timber; 101)	NO	18.00	1,349,398	154,495	24,289,164	2,780,910	27,070,079
Substructure (Pier; for Timber; 8H50)	NO	0.00	744,249	48,632	0	0	Q
Substructure (Abut; for Timber; 8H50)	NO	0.00	1,528,934	171,666	0	· 0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,795,557	452,906	0		0
Substructure (Abut; for Concrete; 8M50)	HO	0.00	3,754,600	959,362	≓is. v 0	0	0
Demolition of Bridge (Timber->Timber)	<b>62</b>	0.00	15,925	1,374		0	0
Demotition of Bridge (Timber-)Concrete)	e2	0.00		1,374	0	0	C
Demolition of Bridge (Concrete)	<b>m</b> 2		91,055	64,824	0	0	0
Naintenance of limber Bridge (New)	m2	204.00	10,306	1,121	2,102,424	228,684	2,331,108
Maintenance of Concrete Bridge (New)	<b>a</b> 2	0.00	2,129	2,456	. 0	0	0
Maintenance of Timber Bridge (Exist)	<b>#</b> ?	0.00	8,977	2,405	.: 1.5	0	0
Maintenance of Concrete Bridge (Exist)	<b>#</b> 2	0.00	4,249	2,336	0	0	.0
t Without Overhead )		OTAL COST	Nimber Bride		40,355,223	3,754,225	44,109,448
	: "		(Concrete Bri		0	0	. 0
	1	OTAL COST	(without Hair	itenance)	40,355,223	3,754,225	44,109,448
I fluorina d 187 1		DIAL CARY	(Timber Bridg		46,408,506	4,317,359	50,725,865
( Overhead : 15% )			(Concrete Bri		0 - 0 - 10 - 10 - 10 - 10	4,317,337	30,723,863
						4,317,359	50,725,065
	- 1	018F FN21	(without Kair	regances	46,408,506	4,317,337	2011521002

