

APPENDIX

INPUT DATA

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

PRV. : *SULAWESI SELATAN* KAB. : *PANGKAJENE KEPULAUAN* SURVEY YEAR: *1984*

Code No.	KECAMATAN NAME	CULTIVATED AREA : (PA)	YIELD RATE : (Y)	FARMER'S POPULATION : (AP)	CIRCULATED COMMODITY : (PG)
01	<i>LIUKANG TANGAYA</i>	<i>0</i>	<i>0.00</i>	<i>895</i>	<i>0</i>
02	<i>KALUKUANG MASALIMA</i>	<i>0</i>	<i>0.00</i>	<i>448</i>	<i>0</i>
03	<i>LIUKANG TAPABIRING</i>	<i>0</i>	<i>0.00</i>	<i>112</i>	<i>0</i>
04	<i>PANGKAJENE</i>	<i>5,400</i>	<i>0.52</i>	<i>24,627</i>	<i>0</i>
05	<i>BALOCCI</i>	<i>2,181</i>	<i>5.58</i>	<i>13,097</i>	<i>0</i>
06	<i>BUNGORD</i>	<i>3,040</i>	<i>5.64</i>	<i>17,910</i>	<i>0</i>
07	<i>LABAKANG</i>	<i>5,881</i>	<i>5.13</i>	<i>21,269</i>	<i>0</i>
08	<i>MA'RANG</i>	<i>4,103</i>	<i>5.42</i>	<i>15,672</i>	<i>0</i>
09	<i>SIGERI MANDALE</i>	<i>4,423</i>	<i>4.74</i>	<i>17,910</i>	<i>0</i>

	r ₁	r ₂	r ₃	r ₄
ANNUAL AVERAGE GROWTH RATE %	<i>3.6</i>	<i>1.1</i>	<i>2.0</i>	<i>4.9</i>

FARMER'S CONSUMPTION : (Cp)	NON-AGRO REQUIREMENT : (NG)
<i>0.13</i> Ton/head/year	<i>0.078</i> Ton/ton

	SEDAN	BUS	TRUCK	MOTOR CYCLE	AVERAGE FREIGHT TONAGE
RATE OF EACH VEHICLE TYPE %	<i>29.18</i>	<i>13.23</i>	<i>20.03</i>	<i>37.55</i>	<i>0.8</i> Ton/Truck

Appendix A-2 Engineering Data

ROAD LINK DATA

PROVINCE : Sulawesi Selatan

KABUPATEN: Pangkajene Kepulauan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
01	Mappasaile	Pangkajene	6	Pangkajene	3	
				Bungoro	3	
02	Toli-toli	Pangkajene	5	Pangkajene	5	
03	Pangkajene	Lekoboddong	4	Pangkajene	4	
04	Matojeng	Bontokio	5	Pangkajene	5	
05	Senggerang	Soreang	16	Pangkajene	4	
				Balocci	12	
06	Matojeng	BaleanginKm24	31	Pangkajene	24	
				Bungoro	7	
06 a	Baleangin Km24	Parang Luara Km 33	4	Balocci	2	I.L.N No. 69
				Bungoro	2	
06 b	Parang Luara Km 33	Tondongkura	3	Balocci	3	I.L.N No. 70
07	Boriappaka	Talappasa	3	Bungoro	3	
08	Batiling	Pertigaan	6	Bungoro	2	
				Labakang	4	
09	Labakkang	Manggal- lekana	4	Labakang	4	
10	Biringkassi	Mappasaile	10	Bungoro	10	
11	Bontoa	Labakkang	2	Labakang	2	
12	Talaka	Kassikebo	3	Marang	3	
13	Gentung	Taraweang	9	Labakang	9	
14	Taraweang	Tabo-tabo	4	Bungoro	1	
				Labakang	3	
15	Biringkassi	Tonasa II&III	12	Bungoro	12	
16	Amung	Parenreng	6	Sigeri Mandale	5	
				Ma'rang	1	
17	Padanglampe	Ma'rang	11	Ma'rang	11	
18	Ma'rang	Kassikebo	12	Ma'rang	12	
19	Segeri	Bawasalo	5	Ma'rang	1	
				Sigeri Mandale	4	
20	Ma'cope	Parenreng	5	Sigeri Mandale	5	
21	Parenreng	Benteng	4	Sigeri Mandale	4	
22	Manggalung	Mandalle	6	Sigeri Mandale	6	

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

I.L.N = Input Link Number.

ROAD LINK DATA

PROVINCE : Sulawesi Selatan

KABUPATEN: Pangkajene Kepulauan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
23	Sp. Benteng	Boddie	6	SigeriMandale	6	
24	Boddie	Lamasa	2	SigeriMandale	2	
25	Pertigaan Mappasaile	Lekocaddi	6	Pangkajene	5	
				Bungoro	1	
26	Jagong	Matojeng	4	Pangkajene	4	
27	Batiling	Beangge	5	Labakang	5	
28	Labakkang	Moncongbori	6	Labakang	6	
29	Segeri	Amung	9	SigeriMandale	9	
30	Tabo-tabo	Padakki	4	Bungoro	4	
31	Sapanjang	Gentung	3	Labakang	3	
32	Tabo-tabo	B L K	5	Bungoro	5	
33	Japing-japing	Bontolang-kasa	6	Pangkajene	6	
34	Baru-baru	Bontojai	4	Pangkajene	4	
35	Sp. Leang Lonrong	Leanglonrong	2	Pangkajene	0.5	
				Balocci	1.5	
36	Labakkang	Tonasa Barat	10	Labakang	10	
37	Bottoe	Padanglampe	8	Ma'rang	3	
				SigeriMandale	5	
38	Sp. Ma'rang	Attangsalo	4	Ma'rang	4	
39	Jatie	Tappole	8	Labakang	8	
40	Salotallang	Samaelo	3	Pangkajene	2	
				Bungoro	1	
41	Leppangeng	Taraweang	7	Labakang	7	
42	Bande	Gentung	3	Labakang	3	
43	Gentung	Jatie	4	Labakang	4	
44	Laikang	Talaka	2	Ma'rang	2	
45	Talaka	Padanglampe	9	Ma'rang	9	
46	Tamangapa	Sp. Padanglampe	5	Ma'rang	5	

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

ROAD LINK DATA

PROVINCE :Sulawesi SelatanKABUPATEN: Pangkajene Kepulauan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
47	K a b b a	Taraweang	2	Pangkajene	2	
48	Matojeng	Belae	4	Pangkajene	4	
49 a	Tamangngapa	Bawasalo	5	Ma'rang	5	I.L.N No. 74
49 b	Sp. Tamangngapa	Pitusunggu	3	Ma'rang	3	I.L.N No. 49
50	Kayuara	Pattallassang	3	Pangkajene	3	
51	Bontomate'ne	Panaikang	3	Ma'rang	1	
				SigeriMandale	2	
52	Lamasa	Marangancang	7	SigeriMandale	7	
53	Peseng	Benteng	12	SigeriMandale	12	
54	B o n e	Manjalling	2	SigeriMandale	2	
55	Siloro	Mangilu	5	Bungaro	5	
56	Samaelo	S e l a	9	Bungaro	9	
57	Balocci	Bonto-bonto	3	Balocci	3	
58	Tonasa I	Batumapara	5	Balocci	5	
59	Sp. Tonasa I	Bankengsa-kiang	4	Balocci	4	
60	Biringkassi	Ta'lappasa	2	Bungoro	2	
61	Bucinri	S o l o '	3	Pangkajene	3	
62	Bontojai	Bontomanai	3	Pangkajene	3	
63	Japing-japing	Banggae	2	Pangkajene	2	
64	Pa'doang ² an	Balanacang	3	Pangkajene	3	
65	Tondongkura	KM. 34.90	31	Balocci	31	
65 a	KM.34.90	KM. 49.90	15	Balocci	15	I.L.N No. 71
65 b	KM.49.90	KM. 53.1	4	Balocci	4	I.L.N No. 72
65 c	KM.53.1	Senggerang	11	Balocci	11	I.L.N No. 73
66	Jalan Dlm Kota	Pangkajene	6	Pangkajene	6	

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

I.L.N = Input Link Number.

ROAD LINK DATA

PROVINCE : Sulawesi Selatan

KABUPATEN: Pangkajene Kepulauan

LINK NO.	BEGINNING POINT (DESA NAME)	END POINT (DESA NAME)	LENGTH (KM)	THROUGH THE KEC. NAME & LENGTH		REMARKS
				KEC. NAME	LENGTH (KM)	
67	Lamasa	Bawasalo	6	Ma'rang	1	
				SigeriMandale	5	
68	Panaikang	Meddubu	3	Ma'rang	3	

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

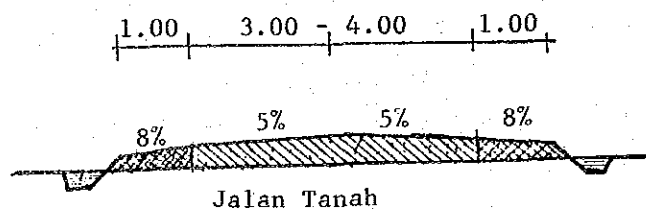
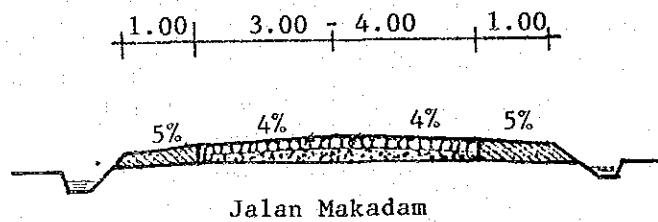
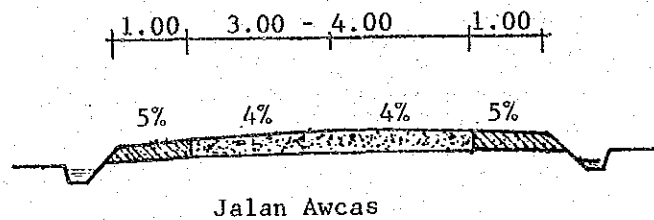
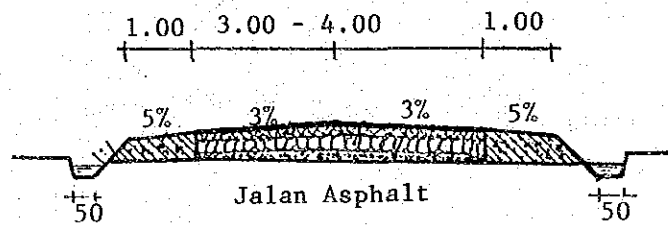
What Kind of Design Criteria has being applied for the new road construction and the improvement for the Kabupaten Road ?

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

Please draw the Typical Cross Section of the Kabupaten Road.

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

TYPICAL CROSS SECTION.



KABUPATEN: Pangkajene Kep. LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1980/1981

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten Etn. 1980/1981

LINK NO. Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per-kerasan(m)	Type per-kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
	Inpres Dati II					
19	Kota - Segeri	4	Asphalt Seal	2.85	24,972	
		-	-	-		
5	Tala - Tanete	4	Asphalt Seal	0.80	5,420	
		-	-	-		
12	Tala - Kassikebo	4	Gravel	1	6,200	
		-	-	-		
28	Pundata - Mongongbori	4	Asphalt Seal	1.40	7,265	
		-	-	-		
28	Erasa - Pundata	4	Asphalt Seal	2	10,280	
		-	-	-		
1	Lejang - Boriapaka	4	Asphalt Seal	3.20	29,200	
		-	-	-		
34	Baru ² - Bonta Perak	4	Asphalt Seal	1.50	7,230	
		-	-	-		
25	Cambatoa - Lekocadi	4	Asphalt Seal	1.10	5,685	
		-	-	-		
5	Baleangng - Sengoreng		Asphalt Seal	1.70	13,300	
		-	-	-		
4	Minasatene - Bt. Manai	4	Asphalt Seal	1	4,912	
		-	-	-		
36	Labakkang - Tonasa	4	Asphalt Seal	2	10,106	
		-	-	-		
34	Boto Perak - Bontojai	4	Asphalt Seal	2	10,210	
		-	-	-		
45	Bonto ² - Bonto Tengae	4	Gravel	0.80	5,120	
		-	-	-		
18	Marang - Pitue	4	Asphalt Seal	1.50	7,800	
		-	-	-		
7	Boriopaka - Talapasa	4	Gravel	1.70	11,440	
		-	-	-		
3	Paccelang - Bulu ²	3	Gravel	1	5,700	
		-	-	-		

3 Bulu² - Pandanglan 3 Gravel 0.50 3,969

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

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

KABUPATEN: Pangkajene Kep. LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1981/1982

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1981/1982

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per-	Type per-	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		kerasan(m) Lebar Jembatan	kerasan Type Jembatan			
	Inpres Jalan					
6	Minasa Tene - Tondong Kura	4	Gravel	20	60,000	
		-	-	20 bh		
	Inpres Dati II					
45	Bonto Sunggu - Kusuarang	4	Gravel	1.50	10,865	
		4	-	3 m		
18	Bonto Sunggu - Bawapitu	4	Gravel	1.70	9,225	
		-	-	-		
44	Laihang - Tala	4	Gravel	1.35	7,893	
		-	-	-		
22	Tamarupa - Manggalung	4	Gravel	2.2	14,145	
		-	-	-		
53	Bone - Benteng	3	Gravel	3.0	18,655	
		-	-	-		
20	Apputang - Parenreng	4	Gravel	1.4	9,430	
		-	-	-		
57	Baleanging - Bonto-Bonto	4	Gravel	2.4	12,813	
		-	-	-		
10	Bowong - Bujung Tangaya	4	Gravel	-	11,941	
		-	-	-		
34	Baru ² - Bontawa	4	Gravel	2	11,512	
		-	-	-		
28	Pundata - Blaccini Baji	4	Asphalt Seal	2	10,455	
		-	-	-		
10	Maduntu - Bowong	4	Asphalt Seal	2	11,423	
		-	-	-		
36	Tonasa - Kokoa	4	Asphalt Seal	1	6,171	
		-	-	-		
33	Kalibone - Japing	4	Asphalt Seal	1.5	7,872	
		-	-	-		
2	Tamalaho - Tekolabbua	4	Asphalt Seal	2	10,496	
		4	-	-		

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

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

KABUPATEN: Pangkajene Kep. LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1981/1982

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1981/1982

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
30	Tabo ² - Padakki	3	Gravel	2.5	16,774	
		-	-	-		
9	Biunga Polong - Burinci	-	-	-	6,560	
		4	Beton	10 m		
52	Tamarupa	4	Gravel	1	5,689	
		-	-	-		
11	Labakkang	3	Gravel	2.5	14,248	
		-	-	-		

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

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

KABUPATEN: Pangkajene Kep. LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1982/1983

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
	Inpres Jalan					
16,21, 22,23	Amung - Mandalle	3	Gravel	12	91,922	
		-	-	6 bh		
31	Gentung - Sepanjang	4	Gravel	3.20	19,000	
		-	-	-		
30	Tabo-Tabo - Padakki	3	Gravel	4.00	20,733	
32	Tabo-Tabo - Blk	-	Beton	1 bh		
10	Bowong Cindea - Bujung Tangaya	3	Gravel	4.30	18,210	
		-	-	-		
5	Tonasa I - Padakki	2	Awcas	7.00	2,952	
		-	-	-		
	Inpres Dati II					
40	Salotallong - Samatea	3	Gravel	3.2	22,320	
		-	-	-		
68	Kaba - Madumbu	3	Gravel	3.2	14,764	
		-	-	-		
10	Bowong - Biringkassi	3	Gravel	1.5	9,677	
		-	-	-		
29	Boring - Amung	3	Gravel	3	27,909	
		-	-	-		
41	Salabo - Leppangeng	5	Gravel	1	16,730	
		-	-	-		
34	Baru ² - Bontoa	3	Gravel	1	7,810	
		-	-	-		
9	Malise - Kayumate	3	Gravel	1.2	9,354	
		-	-	-		
36	Tonasa - Kokoa	3	Gravel	1.5	11,788	
		-	-	-		
60	Bonto Rannu - Biringkassi	4	Gravel	1.2	8,930	
		-	-	-		
5	Bolleanging - Padakki	4	Asphalt Seal	6	22,502	
		-	-	-		

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

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

KABUPATEN: Pangkajene Kep. LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1982/1983

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1982/1983

LINK NO : Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
29	Timporongan-Amputtang	4	Asphalt Seal	3	21,281	
		-	-	-		
34	Bonto Tene - Bonto Manai	4	Asphalt Seal	3	34,400	
		-	-	-		
12	Tala - Kassi kebo	4	Asphalt Seal	2.5	17,344	
		-	-	-		
19	Timporongan - Bawasalo	4	Asphalt Seal	3	20,525	
		-	-	-		

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

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

KABUPATEN: Pangkajene Kep. LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED IN 1983/1984

Biaya konstruksi penanganan

jalan dan jembatan Kabupaten thn. 1983/1984

LINK NO Nomor Ruas	LOCATION From - To (dari - ke)	Lebar per- kerasan(m)		LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type per- kerasan Type Jembatan			
66	Jalan Kota Pangkajene	3	Gravel	6,850	149,980	
		-	Beton	7 bh		
4	Pesantren - Minasatene	3	Gravel	0.75	7,970	
		-	-	-		
	Inpres Dati II					
64	Tumampua - Jagong	4	Asphalt Seal	7.2	32,565	
		-	-	-		
6	Matojeng - Siloro	4	Asphalt Seal	7.6	53,434	
		-	-	-		
18	Bonto Peo - Kalukue	4	Asphalt Seal	3	18,915	
		-	-	-		
9	Lembang - Erasa	4	Asphalt Seal	3.85	23,003	
		-	-	-		
23	Akkobang - Benteng	4	Gravel	1.7	15,070	
		-	-	-		
34	Bontomanai - Pagong	3	Gravel	2	15,777	
		-	-	-		
24	Tamarupa - Lamasa	3	Gravel	2	24,175	
		-	-	-		
36	Tanasa - Kokoa	4	Gravel	2.5	24,215	
		-	-	-		
2	Jagong - Balanakang	4	Gravel	1.5	13,830	
		-	-	-		
62	Soreng - Japin-Japin	3	Gravel	1.15	9,402	
		-	-	-		
42,43	Bande - Jatie	4	Gravel	2	20,028	
		-	-	-		
63	Kalibone - Bonggae	3	Gravel	1	8,000	
		-	-	-		
34	Bonto Panno - Bt. Jai	3	Gravel	1.85	12,598	
		-	-	-		

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

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

KABUPATEN: Pangkajene Kep. LOCATION AND COSTS OF THE KABUPATEN

ROADS CONSTRUCTED OR IMPROVED 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)	Type per- kerasan	LENGTH Panjang (KM)	COSTS Harga (Rp 10 ⁶)	REMARKS Keterangan
		Lebar Jembatan	Type Jembatan			
	Inpres Jalan					
64	Jalan Kota Pangkajene	6	Awcas	1.85	40,363	
		4	Beton	9		
65.1	Tondangkura - Lanne	3.5	Gravel	5.2	56,565	
		4	Beton	12		
65.2	Lanne - Birao	3.5	Gravel	6.75	81,065	
		4	Beton	22		
1	Jln.Mangga - Pasar Pangkajene	4	Asphalt Seal	8.5	9,467	
		-	-	-		
	Inpres Dati II					
38	Moncongbori - Kayumate	3	Gravel	2.38	32,072	
		-	-	-		
48	Minasatene - Belae	3	Gravel	3.50	71,885	
		-	-	-		
55	Siloro - Sela	4	Gravel	3	38,006	
		-	-	-		
18	Bawapitu - Busunge	3	Gravel	1	20,210	
		-	-	-		
18	Bawapitu	-	-	-	10,315	
		4	Beton	9.5 m		
4,25	Minasatene -Tala-Tala Matoanging - Lekocaddi	4	Asphalt Seal	9.3	51,808	
		-	-	-		

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

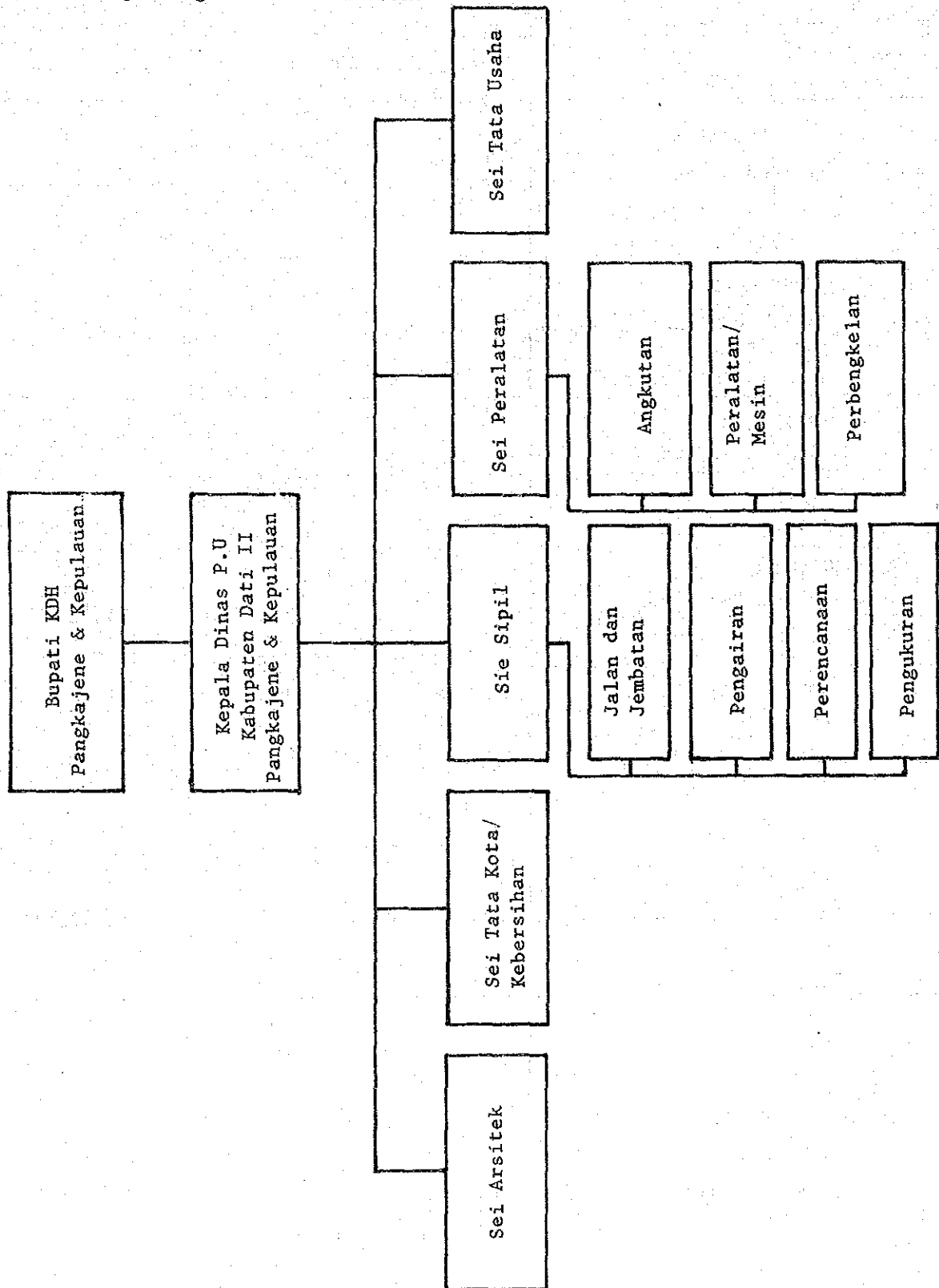
1. : Asphalt surface / penetrasi macadam
2. : Asphalt seal / pelaburan aspal
3. : Gravel / kerikil
4. : Gravel /AWCAS / kerikil / japat

EXISTING ORGANIZATION IN KABUPATEN

Structur Organisasi yang ada dari P.U Kabupaten

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

Harap digambar bagan organisasi dari DPUK.



EXISTING STAFF RESOURCES OF BINA MARGA OF PU KABUPATENTenaga Dinas PUK yang adaPROPINSI: Sulawesi SelatanKABUPATEN: Pangkajene Kepulauan

DESCRIPTION /Uraian	NUMBER / Jumlah	REMARKS Keterangan
CONTROLLING STAFF Staff teknis. PUK	(14)	(13)
DPUK ENGINEER Sarjana Teknik		
ASSISTANT ENGINEER Sarjana Muda Teknik	1	
TECHNICIAN STAFF Staff Teknik (STM)	13	13
ADMINISTRATION Tenaga Administrasi	8	
SUPERVISOR Tenaga Pengawas	11	
WORKING FORCE Tenaga Pelaksana Lapangan	(27)	
OPERATORS Operators	3	
DRIVERS Supir	5	
MECHANICS Mechanic	2	
TRADESMAN Tukang	6	
L A B O U R Buruh / Pekerja	8	
OTHERS Lain-lain	3	
TOTAL / JUMLAH	60	13

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

LOCATION AND AREA OF DPUK WORKSHOP

E-06

Lokasi Workshop DPUK

PROPINSI : Sulawesi Selatan

KABUPATEN: Pangkajene Kepulauan

LOCATION Lokasi	AREA (m2) Luas	NUMBER Jumlah	REMARKS Keterangan
Jagung	1500	1	Terletak di ibukota

PROPINSI: Sulawesi Selatan

E-07

KABUPATEN: Pangkajene Kepulauan

LAND ACQUISITION COST

Daftar harga pembebasan tanah

DESCRIPTION Uraian	UNIT Satuan	RATE (RP) Harga	REMARKS Keterangan
CITY/kota	M2	750 - 1000	
VILLAGE / desa	M2	500 - 750	
RICE FIELD/sawah	M2	750 - 900	
DRY FIELD/ladang	M2	300 - 500	
MIX CROPS/panen	M2	750 - 900	
FOREST/hutan	M2	-	
SWAMP / rawa	M2	500 - 750	
OTHERS / lain-lain	M2	-	

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
2	B2	215.651.000	11	
5	C1	104.075.000	7	
22	C2	44.400.000	5	
14	C3	28.950.000	3	

NOTE: DATI II

LIST OF EXISTING EQUIPMENT OF LOCAL CONTRACTOR

Name of contractor

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDIT TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Tipe	P.Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer							
Motor Grader							
Tyre Roller							
Steel Whell Roller							
Vibration Roller							
Wheel Loader							
Front End Loader and Backhoe							
Mobile Crane							
Concrete Mixer							
Stone Crusher							
Portable Compressor							
Hydraulic Excavator							
Asphalt Paving Machine							
Asphalt Sprayer							
Asphalt Mixing Machine							
Mobile Workshop							
Mechanic Rammer							
Plate Tamper							
Pile Driver							
Leg Drill							
Hand Hammer							
Farm Tractor							
Dump Truck		1978	2	1	3		
Water Tank Truck							
Fuel Tank Truck							
Pick Up			6	-	6		
Jeep			5	-	5		
Motorcycle			35	-	32		
Generator							
Water Pump			6	-	-		
Others							

LIST OF EXISTING EQUIPMENT OF P.U KABUPATEN

NAME OF EQUIPMENT Jenis peralatan	EXISTING CONDITION/ Kondisi Peralatan					REASON OF BAD CONDIT TION/Sebab Kerusakan	REQUIRE - MENT / Ke- butuhan peralatan baru
	TYPE/ Tipe	P. Y	NUMBER / Jumlah				
			GOOD Baik	BAD Rusak	TOTAL Jumlah		
Bulldozer							1
Motor Grader							2
Tyre Roller							2
Steel Whell Roller	MP.6P	78,83	3	3	6	Sudah Tua	1
Vibration Roller	MGB. I	83,84	3	-	3		-
Wheel Loader							2
Front End Loader and Backhoe							-
Mobile Crane							-
Concrete Mixer							1
Stone Crusher	ES.GD	79	1	-	1		-
Portable Compressor							-
Hydraulic Excavator							1
Asphalt Paving Machine							-
Asphalt Sprayer	ES.GD	84	1		1		2
Asphalt Mixing Machine							-
Mobile Workshop							-
Mechanic Rammer							-
Plate Tamper							-
Pile Driver							-
Leg Drill							1
Hand Hammer							3
Farm Tractor							-
Dump Truck							9
Water Tank Truck							-
Fuel Tank Truck							-
Pick Up							1
Jeep							-
Motorcycle							-
Generator							-
Water Pump							2
Others Crusing Plant							1
-							

Appendix A-3

CONSTRUCTION AND MAINTENANCE COST FOR PROPOSED ROAD LINKS

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : 6 (IIIB-1) LENGTH : 31 Km
 UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	0.0	161	91	0	0	0	
Subgrade Preparation	m ²	0.0	20	11	0	0	0	
Normal Fill	m ³	4220.0	1,666	865	7,030,520	3,650,300	10,680,820	
Fill in Swamp	m ³	0.0	2,477	1,055	0	0	0	
Normal Excavation to Spoil	m ³	1540.0	976	524	1,503,040	806,960	2,310,000	
Sub Base Course	m ³	4014.0	3,170	1,351	12,724,380	5,422,914	18,147,294	
Base Course	m ³	6440.0	4,319	2,303	27,811,360	14,831,320	42,642,680	
Shoulder	m ²	62000.0	290	146	17,980,000	9,052,000	27,032,000	
Asphalt Patching	m ²	102.0	3,389	1,312	345,678	133,824	479,502	
Surface Dressing (Single)	m ²	124000.0	590	509	73,160,000	63,116,000	136,276,000	
Surface Dressing (Double)	m ²	0.0	736	800	0	0	0	
Earth Drain	m	1400.0	774	119	1,083,600	166,600	1,250,200	
Earth Drain in Swamp (by machine)	m ³	0.0	1,140	475	0	0	0	
Pipe Culvert 80cm	m	200.0	39,421	40,307	7,884,200	8,061,400	15,945,600	
Masonry Culvert (80x80cm)	m	12.0	54,374	34,731	652,488	416,772	1,069,260	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	254.5	38,541	11,421	9,808,684	2,906,644	12,715,328	
Babion Protection	m ³	260.0	9,554	121	2,484,040	31,460	2,515,500	
New Bridge (Timber)	SET	1.0	--	--	15,487,516	1,262,362	16,749,878	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	177,958,506	107,858,556	287,817,062
Overhead (15%)						26,693,775	16,478,783	43,172,558
					TOTAL COST	204,652,281	124,337,339	330,989,620

Manual routine maintenance of road	Km	31.0	122,040	7,260	3,783,240	225,060	4,008,300
Routine maintenance of asphalt road	Km	31.0	338,900	131,200	10,505,900	4,067,200	14,573,100
			Sub Total		14,289,140	4,292,260	18,581,400
Maintenance of Timber Bridge (New)	m ²	160.0	8,854	1,121	1,416,640	179,360	1,596,000
Maintenance of Concrete Bridge (New)	m ²	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	36.0	8,273	2,405	297,828	86,580	384,408
Maintenance of Concrete Bridge (Exist)	m ²	436.0	4,225	2,336	1,842,100	1,018,496	2,860,596

Earthwork & Pavement Unit Cost (Rp/Km)	:	10,055,718
Timber Bridge Unit Cost (Rp/m ²)	:	120,390
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	21,232,241
Maintenance Rate without Bridge (%)	:	5.96
New Bridge Cost Rate (%)	:	5.82

PROV : SULAWESI SELATAN KAR : PANGKAJENE KEPULAUAN
 LINK NO : 5 (IIIA) LENGTH : 16 Km
 UPGRADE : 7.0m road bed, 4.5m road with surface Dressing (2)
 (Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	16000.0	161	91	2,576,000	1,456,000	4,032,000	
Subgrade Preparation	m2	0.0	20	11	0	0	0	
Normal Fill	m3	305.0	1,666	865	509,130	263,825	771,955	
Fill in Swamp	m3	0.0	2,477	1,055	0	0	0	
Normal Excavation to Spoil	m3	2017.0	976	524	1,968,592	1,056,908	3,025,500	
Sub Base Course	m3	1680.0	3,170	1,351	5,325,600	2,269,680	7,595,280	
Base Course	m3	0.0	4,319	2,303	0	0	0	
Shoulder	m2	40000.0	290	146	11,600,000	5,840,000	17,440,000	
Asphalt Patching	m2	2182.0	3,389	1,312	7,394,798	2,862,784	10,257,582	
Surface Dressing (Single)	m2	72000.0	590	509	42,480,000	36,648,000	79,128,000	
Surface Dressing (Double)	m2	0.0	736	800	0	0	0	
Earth Drain	m	4000.0	774	119	3,096,000	476,000	3,572,000	
Earth Drain in Swamp (by machine)	m3	0.0	1,140	475	0	0	0	
Pipe Culvert Ø80cm	m	15.0	39,421	40,307	591,315	604,605	1,195,920	
Masonry Culvert 180x80cm	m	8.0	54,374	34,731	434,992	277,848	712,840	
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	151.5	38,541	11,421	5,838,961	1,730,281	7,569,242	
Gabion Protection	m3	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	81,814,388	53,485,931	135,300,319
Overhead (15%)						12,272,158	8,022,889	20,295,047
					TOTAL COST	94,086,546	61,508,820	155,595,366

Manual routine maintenance of road	Km	16.0	122,040	7,260	1,952,640	116,160	2,068,800
Routine maintenance of asphalt road	Km	16.0	338,900	131,200	5,422,400	2,099,200	7,521,600
			Sub Total		7,375,040	2,215,360	9,590,400
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	335.5	4,225	2,336	1,417,487	783,728	2,201,215

Earthwork & Pavement Unit Cost (Rp/Km)	:	9,724,710
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	6,078,224
Maintenance Rate without Bridge (%)	:	6.16
New Bridge Cost Rate (%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : 18 (IIB-1) LENGTH : 12 Km
 UPGRADE : 6.0m road bed, 3.5m road with surface Dressing (1)
 (Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	24000.0	161	91	3,864,000	2,184,000	6,048,000	
Subgrade Preparation	m ²	84600.0	20	11	1,692,000	930,600	2,622,600	
Normal Fill	m ³	0.0	1,666	865	0	0	0	
Fill in Swamp	m ³	9847.7	2,477	1,055	24,392,752	10,389,323	34,782,075	
Normal Excavation to Spoil	m ³	18004.0	976	524	17,571,904	9,434,076	27,006,000	
Sub Base Course	m ³	6558.3	3,170	1,351	20,789,811	8,860,263	29,650,074	
Base Course	m ³	2450.0	4,319	2,303	10,581,550	5,642,350	16,223,900	
Shoulder	m ²	30000.0	290	146	8,700,000	4,380,000	13,080,000	
Asphalt Patching	m ²	59.0	3,389	1,312	196,562	76,096	272,658	
Surface Dressing (Single)	m ²	42000.0	590	509	24,780,000	21,378,000	46,158,000	
Surface Dressing (Double)	m ²	0.0	736	800	0	0	0	
Earth Drain	m	23020.0	774	119	17,817,480	2,739,380	20,556,860	
Earth Drain in Swamp (by machine)	m ³	36900.0	1,140	475	42,066,000	17,527,500	59,593,500	
Pipe Culvert Ø80cm	m	87.0	39,421	40,307	3,429,627	3,506,709	6,936,336	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	115.6	38,541	11,421	4,455,339	1,320,267	5,775,606	
Gabion Protection	m ³	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	24,205,584	2,872,128	27,077,712	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	204,542,609	91,260,712	295,803,321
Overhead (15%)						30,681,391	13,689,106	44,370,497
					TOTAL COST	235,224,000	104,949,818	340,173,818

Manual routine maintenance of road	Km	12.0	122,040	7,260	1,464,480	87,120	1,551,600
Routine maintenance of asphalt road	Km	12.0	338,900	131,200	4,066,800	1,574,400	5,641,200
			Sub Total		5,531,280	1,661,520	7,192,800
Maintenance of Timber Bridge (New)	m ²	112.0	8,854	1,121	991,648	125,552	1,117,200
Maintenance of Concrete Bridge (New)	m ²	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	40.0	4,225	2,336	169,000	93,440	262,440

Earthwork & Pavement Unit Cost (Rp/Km)	:	25,750,954
Timber Bridge Unit Cost (Rp/m ²)	:	278,235
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	23,999,831
Maintenance Rate without Bridge (%)	:	2.33
New Bridge Cost Rate (%)	:	9.16

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 62 (IIIB-1) LENGTH : 3 Km

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

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	2000.0	161	91	322,000	182,000	504,000	
Subgrade Preparation	m2	2025.0	20	11	40,500	22,275	62,775	
Normal Fill	m3	0.0	1,666	865	0	0	0	
Fill in Swamp	m3	276.6	2,477	1,055	685,139	291,813	976,951	
Normal Excavation to Spoil	m3	420.0	976	524	409,920	220,080	630,000	
Sub Base Course	m3	926.0	3,170	1,351	2,935,420	1,251,026	4,186,446	
Base Course	m3	840.0	4,319	2,303	3,627,960	1,934,520	5,562,480	
Shoulder	m2	6000.0	290	146	1,740,000	876,000	2,616,000	
Asphalt Patching	m2	0.0	3,389	1,312	0	0	0	
Surface Dressing (Single)	m2	12000.0	590	509	7,080,000	6,108,000	13,188,000	
Surface Dressing (Double)	m2	0.0	736	800	0	0	0	
Earth Drain	m	4000.0	774	119	3,096,000	476,000	3,572,000	
Earth Drain in Swamp (by machinal)	m3	1500.0	1,140	475	1,710,000	712,500	2,422,500	
Pipe Culvert D80cm	m	0.0	39,421	40,307	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,897	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	38,541	11,421	0	0	0	
Gabion Protection	m3	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					21,646,938	12,074,214	33,721,152	
Overhead (15%)					3,247,040	1,911,132	5,058,172	
					TOTAL COST	24,893,978	13,885,346	38,779,324

Manual routine maintenance of road	Km	3.0	122,040	7,260	366,120	21,780	387,900
Routine maintenance of asphalt road	Km	3.0	338,900	131,200	1,016,700	393,600	1,410,300
			Sub Total		1,382,820	415,380	1,798,200
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	32.0	4,225	2,336	135,200	74,752	209,952

Earthwork & Pavement Unit Cost (Rp/Km)	:	12,926,442
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	4,043,008
Maintenance Rate without Bridge (%)	:	4.64
New Bridge Cost Rate (%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : 56 (IIC) LENGTH : 9 Km
 UPGRADE : 6.0m road bed, 3.0m road with surface Subbase Course
 (Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	9000.0	161	91	1,449,000	819,000	2,268,000
Subgrade Preparation	m2	6000.0	20	11	120,000	66,000	186,000
Normal Fill	m3	0.0	1,666	865	0	0	0
Fill in Swamp	m3	0.0	2,477	1,055	0	0	0
Normal Excavation to Spoil	m3	96.0	976	524	93,696	50,304	144,000
Sub Base Course	m3	721.5	3,170	1,351	2,287,155	974,746	3,261,901
Base Course	m3	1440.0	4,319	2,303	6,219,360	3,316,320	9,535,680
Shoulder	m2	27000.0	290	146	7,830,000	3,942,000	11,772,000
Asphalt Patching	m2	0.0	3,389	1,312	0	0	0
Surface Dressing (Single)	m2	0.0	590	509	0	0	0
Surface Dressing (Double)	m2	0.0	736	800	0	0	0
Earth Drain	m	18000.0	774	119	13,932,000	2,142,000	16,074,000
Earth Drain in Swamp (by machine)	m3	0.0	1,140	475	0	0	0
Pipe Culvert 80cm	m	24.0	39,421	40,307	946,104	967,368	1,913,472
Masonry Culvert (80x80cm)	m	12.0	54,374	34,731	652,488	416,772	1,069,260
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	3.2	38,541	11,421	123,331	36,547	159,878
Gabion Protection	m3	0.0	9,554	121	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
					Sub Total		
					33,653,134	12,731,057	46,384,191
Overhead (15%)					5,047,970	1,909,658	6,957,628
					TOTAL COST		
					38,701,104	14,640,715	53,341,819

Manual routine maintenance of road	Km	9.0	122,040	7,260	1,098,360	65,340	1,163,700
Routine maintenance of gravel road	Km	9.0	185,442	88,186	1,668,978	793,674	2,462,652
			Sub Total		2,767,338	859,014	3,626,352
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	44.0	4,225	2,336	185,900	102,784	288,684

Earthwork & Pavement Unit Cost (Rp/Km)	:	5,926,869
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	1,304,760
Maintenance Rate without Bridge (%)	:	6.80
New Bridge Cost Rate (%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 43 (IIIB-1) LENGTH : 4 Km

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

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	8000.0	161	91	1,288,000	728,000	2,016,000	
Subgrade Preparation	m ²	21000.0	20	11	420,000	231,000	651,000	
Normal Fill	m ³	0.0	1,666	865	0	0	0	
Fill in Swamp	m ³	0.0	2,477	1,055	0	0	0	
Normal Excavation to Spoil	m ³	3989.0	976	524	3,892,288	2,089,712	5,982,000	
Sub Base Course	m ³	1917.5	3,170	1,351	6,078,475	2,590,542	8,669,017	
Base Course	m ³	1120.0	4,319	2,303	4,837,280	2,579,360	7,416,640	
Shoulder	m ²	12000.0	290	146	3,480,000	1,752,000	5,232,000	
Asphalt Patching	m ²	0.0	3,389	1,312	0	0	0	
Surface Dressing (Single)	m ²	16000.0	590	509	9,440,000	8,144,000	17,584,000	
Surface Dressing (Double)	m ²	0.0	736	800	0	0	0	
Earth Drain	m	0.0	774	119	0	0	0	
Earth Drain in Swamp (by machine)	m ³	0.0	1,140	475	0	0	0	
Pipe Culvert D80cm	m	35.0	39,421	40,307	1,379,735	1,410,745	2,790,480	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	12.8	38,541	11,421	493,324	146,188	639,512	
Gabion Protection	m ³	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	4,308,424	452,826	4,761,250	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total			
						35,617,526	20,124,373	55,741,899
Overhead (15%)						5,342,628	3,018,655	8,361,283
					TOTAL COST	40,960,154	23,143,028	64,103,182

Manual routine maintenance of road	Km	4.0	122,040	7,260	488,160	29,040	517,200
Routine maintenance of asphalt road	Km	4.0	338,900	131,200	1,358,600	524,800	1,880,400
			Sub Total		1,843,760	553,840	2,397,600
Maintenance of Timber Bridge (New)	m ²	28.0	8,854	1,121	247,912	31,388	279,300
Maintenance of Concrete Bridge (New)	m ²	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	22.8	4,225	2,336	96,118	53,144	149,262

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	14,656,937
Timber Bridge	Unit Cost	(Rp/m ²)	:	195,551
Concrete Bridge	Unit Cost	(Rp/m ²)	:	
Survived Value		(Rp)	:	7,551,639
Maintenance Rate without Bridge		(%)	:	4.09
New Bridge Cost Rate		(%)	:	8.54

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

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

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

(Rp)

ITEM	UNIT	QUANTITY	«« UNIT COST »»		«««« COST »»»»»»		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	161	91	0	0	0
Subgrade Preparation	m2	1215.0	20	11	24,300	13,365	37,665
Normal Fill	m3	500.0	1,666	865	833,000	432,500	1,265,500
Fill in Swamp	m3	165.9	2,477	1,855	410,934	175,024	585,958
Normal Excavation to Spoil	m3	600.0	976	524	585,600	314,400	900,000
Sub Base Course	m3	1004.0	3,170	1,351	3,182,680	1,356,404	4,539,084
Base Course	m3	1960.0	4,319	2,303	8,465,240	4,513,880	12,979,120
Shoulder	m2	14000.0	290	146	4,060,000	2,044,000	6,104,000
Asphalt Patching	m2	0.0	3,389	1,312	0	0	0
Surface Dressing (Single)	m2	28000.0	590	509	16,520,000	14,252,000	30,772,000
Surface Dressing (Double)	m2	0.0	736	800	0	0	0
Earth Drain	m	11420.0	774	119	8,839,080	1,358,980	10,198,060
Earth Drain in Swamp (by machine)	m3	900.0	1,140	475	1,026,000	427,500	1,453,500
Pipe Culvert Ø80cm	m	0.0	39,421	40,307	0	0	0
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	38,541	11,421	0	0	0
Sablon Protection	m3	0.0	9,554	121	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					43,946,834	24,888,053	68,834,887
Overhead (15%)					6,592,025	3,733,207	10,325,232
TOTAL COST					50,538,859	28,621,260	79,160,119

Manual routine maintenance of road	Km	7.0	122,040	7,260	854,280	50,820	905,100
Routine maintenance of asphalt road	Km	7.0	338,900	131,200	2,372,300	918,400	3,290,700
Sub Total					3,226,580	969,220	4,195,800
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	68.0	4,225	2,336	287,300	158,848	446,148

Earthwork & Payement	Unit Cost	(Rp/Km)	:	11,308,589
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived	Value	(Rp)	:	5,773,182
Maintenance Rate without Bridge	(%)	:		5.30
New Bridge	Cost Rate	(%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 40 (IIIB-1) LENGTH : 3 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance In Light Bush	m ²	6000.0	161	91	966,000	546,000	1,512,000	
Subgrade Preparation	m ²	1620.0	20	11	32,400	17,820	50,220	
Normal Fill	m ³	0.0	1,666	865	0	0	0	
Fill in Swamp	m ³	221.3	2,477	1,055	548,160	233,471	781,631	
Normal Excavation to Spoil	m ³	420.0	976	524	409,920	220,000	630,000	
Sub Base Course	m ³	883.0	3,170	1,351	2,799,110	1,192,933	3,992,043	
Base Course	m ³	840.0	4,319	2,303	3,627,960	1,934,520	5,562,480	
Shoulder	m ²	9000.0	290	146	2,610,000	1,314,000	3,924,000	
Asphalt Patching	m ²	0.0	3,389	1,312	0	0	0	
Surface Dressing (Single)	m ²	12000.0	590	509	7,080,000	6,108,000	13,188,000	
Surface Dressing (Double)	m ²	0.0	736	800	0	0	0	
Earth Drain	m	6000.0	774	119	4,644,000	714,000	5,358,000	
Earth Drain in Swamp (by machine)	m ³	1200.0	1,140	475	1,368,000	570,000	1,938,000	
Pipe Culvert 80cm	m	0.0	39,421	40,307	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	38,541	11,421	0	0	0	
Gabion Protection	m ³	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	24,085,550	12,850,824	36,936,374
Overhead (15%)						3,612,832	1,927,623	5,540,455
					TOTAL COST	27,698,382	14,778,447	42,476,829

Manual routine maintenance of road	Km	3.0	122,040	7,260	366,120	21,780	387,900
Routine maintenance of asphalt road	Km	3.0	358,900	131,200	1,016,700	393,600	1,410,300
			Sub Total		1,382,820	415,380	1,798,200
Maintenance of Timber Bridge (New)	m ²	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	0.0	4,225	2,336	0	0	0

Earthwork & Pavement Unit Cost (Rp/Km)	:	14,158,943
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	3,906,926
Maintenance Rate without Bridge (%)	:	4.23
New Bridge Cost Rate (%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 39 (IIIB-1) LENGTH : 8 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	16000.0	181	91	2,576,000	1,456,000	4,032,000	
Subgrade Preparation	m ²	0.0	20	11	0	0	0	
Normal Fill	m ³	0.0	1,666	865	0	0	0	
Fill in Swamp	m ³	0.0	2,477	1,055	0	0	0	
Normal Excavation to Spoil	m ³	3085.0	976	524	3,010,960	1,616,540	4,627,500	
Sub Base Course	m ³	2033.5	3,170	1,351	6,446,195	2,747,258	9,193,453	
Base Course	m ³	2240.0	4,319	2,303	9,674,560	5,158,720	14,833,280	
Shoulder	m ²	24000.0	290	146	6,960,000	3,504,000	10,464,000	
Asphalt Patching	m ²	0.0	3,389	1,312	0	0	0	
Surface Dressing (Single)	m ²	32000.0	590	509	18,880,000	16,288,000	35,168,000	
Surface Dressing (Double)	m ²	0.0	736	800	0	0	0	
Earth Drain	m	16000.0	774	119	12,384,000	1,904,000	14,288,000	
Earth Drain in Swamp (by machine)	m ³	0.0	1,140	475	0	0	0	
Pipe Culvert Ø80cm	m	0.0	39,421	40,307	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	660.0	38,541	11,421	25,437,060	7,537,860	32,974,920	
Gabion Protection	m ³	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total			
						85,368,775	40,212,378	125,581,153
Overhead (15%)						12,805,316	6,031,856	18,837,172
					TOTAL COST	98,174,091	46,244,234	144,418,325

Manual routine maintenance of road	Km	8.0	122,040	7,260	976,320	58,080	1,034,400
Routine maintenance of asphalt road	Km	8.0	338,900	131,200	2,711,200	1,049,600	3,760,800
			Sub Total		3,687,520	1,107,680	4,795,200
Maintenance of Timber Bridge (New)	m ²	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	86.0	4,225	2,336	363,350	200,896	564,246

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	18,052,291
Timber Bridge	Unit Cost	(Rp/m ²)	:	
Concrete Bridge	Unit Cost	(Rp/m ²)	:	
Survived Value		(Rp)	:	9,402,073
Maintenance Rate without Bridge		(%)	:	3.32
New Bridge Cost Rate		(%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : 26 (IIIB-1) LENGTH : 4 Km
 UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	161	91	0	0	0	
Subgrade Preparation	m2	0.0	20	11	0	0	0	
Normal Fill	m3	0.0	1,666	865	0	0	0	
Fill in Swamp	m3	0.0	2,477	1,055	0	0	0	
Normal Excavation to Spoil	m3	0.0	976	524	0	0	0	
Sub Base Course	m3	0.0	3,170	1,351	0	0	0	
Base Course	m3	0.0	4,319	2,303	0	0	0	
Shoulder	m2	8000.0	290	146	2,320,000	1,168,000	3,488,000	
Asphalt Patching	m2	240.0	3,389	1,312	813,360	314,880	1,128,240	
Surface Dressing (Single)	m2	16000.0	590	509	9,440,000	8,144,000	17,584,000	
Surface Dressing (Double)	m2	0.0	736	800	0	0	0	
Earth Drain	m	7920.0	774	119	6,130,080	942,480	7,072,560	
Earth Drain in Swamp (by machine)	m3	0.0	1,140	475	0	0	0	
Pipe Culvert 80cm	m	6.0	39,421	40,307	236,526	241,842	478,368	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	630.0	38,541	11,421	24,280,830	7,195,230	31,476,060	
Babion Protection	m3	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SE1	1.0	--	--	0	0	0	
New Bridge (Concrete)	SE1	1.0	--	--	0	0	0	
					Sub Total	43,220,796	18,006,432	61,227,228
Overhead (15%)						6,483,119	2,700,964	9,184,083
					TOTAL COST	49,703,915	20,707,396	70,411,311

Manual routine maintenance of road	Km	4.0	122,040	7,260	488,160	29,040	517,200
Routine maintenance of asphalt road	Km	4.0	338,900	131,200	1,355,600	524,800	1,880,400
			Sub Total		1,843,760	553,840	2,397,600
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,225	2,336	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	17,602,828
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	0
Maintenance Rate without Bridge		(%)	:	3.41
New Bridge Cost Rate		(%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : 34 (111B-2) LENGTH : 4 Km
 UPGRADE : 6.0m road bed, 4.0m road with surface Base Course

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	0.0	161	91	0	0	0	
Subgrade Preparation	m2	0.0	20	11	0	0	0	
Normal Fill	m3	0.0	1,666	865	0	0	0	
Fill in Swamp	m3	0.0	2,477	1,055	0	0	0	
Normal Excavation to Spoil	m3	0.0	976	524	0	0	0	
Sub Base Course	m3	0.0	3,170	1,351	0	0	0	
Base Course	m3	0.0	4,319	2,303	0	0	0	
Shoulder	m2	8000.0	290	146	2,320,000	1,168,000	3,488,000	
Asphalt Patching	m2	572.0	3,389	1,312	1,938,508	750,464	2,688,972	
Surface Dressing (Single)	m2	0.0	590	509	0	0	0	
Surface Dressing (Double)	m2	0.0	736	800	0	0	0	
Earth Drain	m	0.0	774	119	0	0	0	
Earth Drain in Swamp (by machine)	m3	0.0	1,140	475	0	0	0	
Pipe Culvert Ø90cm	m	0.0	39,421	40,307	0	0	0	
Masonry Culvert (80x80cm)	m	6.0	54,374	34,731	326,244	208,386	534,630	
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	38,541	11,421	0	0	0	
Babion Protection	m3	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					4,584,752	2,126,850	6,711,602	
Overhead (15%)					687,712	319,027	1,006,739	
					TOTAL COST	5,272,464	2,445,877	7,718,341

Manual routine maintenance of road	Km	4.0	122,040	7,260	488,160	29,040	517,200
Routine maintenance of gravel road	Km	4.0	185,442	88,186	741,768	352,744	1,094,512
			Sub Total		1,229,928	381,784	1,611,712
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,225	2,336	0	0	0

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	1,927,586
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	0
Maintenance Rate without Bridge		(%)	:	20.88
New Bridge Cost Rate		(%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 19 (IIIA) LENGTH : 5 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m2	2000.0	161	91	322,000	182,000	504,000	
Subgrade Preparation	m2	13215.0	20	11	264,300	145,365	409,665	
Normal Fill	m3	0.0	1,666	865	0	0	0	
Fill in Swamp	m3	240.2	2,477	1,055	594,975	253,411	848,386	
Normal Excavation to Spoil	m3	873.0	976	524	852,048	457,452	1,309,500	
Sub Base Course	m3	1204.0	3,170	1,351	3,816,680	1,626,604	5,443,284	
Base Course	m3	640.0	4,319	2,303	2,764,160	1,473,920	4,238,080	
Shoulder	m2	10000.0	290	146	2,900,000	1,460,000	4,360,000	
Asphalt Patching	m2	279.0	3,389	1,312	945,531	368,048	1,311,579	
Surface Dressing (Single)	m2	12000.0	590	509	7,080,000	6,108,000	13,188,000	
Surface Dressing (Double)	m2	8000.0	736	800	5,888,000	6,400,000	12,288,000	
Earth Drain	m	4000.0	774	119	3,096,000	478,000	3,572,000	
Earth Drain in Swamp (by machine)	m3	900.0	1,140	475	1,026,000	427,500	1,453,500	
Pipe Culvert 80cm	m	5.0	39,421	40,307	197,105	201,535	398,640	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m3	0.0	38,541	11,421	0	0	0	
Gabion Protection	m3	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					Sub Total	29,746,799	19,377,835	49,324,634
Overhead (15%)						4,462,019	2,936,675	7,398,694
					TOTAL COST	34,208,818	22,514,510	56,723,328

Manual routine maintenance of road	Km	5.0	122,040	7,260	610,200	36,300	646,500
Routine maintenance of asphalt road	Km	5.0	338,900	131,200	1,694,500	656,000	2,350,500
			Sub Total		2,304,700	892,300	2,997,000
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	20.0	4,225	2,336	84,500	46,720	131,220

Earthwork & Pavement Unit Cost (Rp/Km)	:	11,344,666
Timber Bridge Unit Cost (Rp/m2)	:	
Concrete Bridge Unit Cost (Rp/m2)	:	
Survived Value (Rp)	:	5,414,147
Maintenance Rate without Bridge (%)	:	5.28
New Bridge Cost Rate (%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 11 (TIIB-2) LENGTH : 2 Km

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

(Rp)

I T E M.	UNIT	QUANTITY	««« UNIT COST »»»		««««« COST »»»»»»		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	161	91	0	0	0
Subgrade Preparation	m2	0.0	20	11	0	0	0
Normal Fill	m3	0.0	1,666	865	0	0	0
Fill in Swamp	m3	0.0	2,477	1,055	0	0	0
Normal Excavation to Spoil	m3	525.0	976	524	512,400	275,100	787,500
Sub Base Course	m3	0.0	3,170	1,351	0	0	0
Base Course	m3	0.0	4,319	2,303	0	0	0
Shoulder	m2	4000.0	290	146	1,160,000	584,000	1,744,000
Asphalt Patching	m2	257.0	3,389	1,312	870,973	337,184	1,208,157
Surface Dressing (Single)	m2	0.0	590	509	0	0	0
Surface Dressing (Double)	m2	0.0	736	800	0	0	0
Earth Drain	m	200.0	774	119	154,800	23,800	178,600
Earth Drain in Swamp (by machine)	m3	0.0	1,140	475	0	0	0
Pipe Culvert Ø80cm	m	0.0	39,421	40,307	0	0	0
Masonry Culvert (Ø0x80cm)	m	0.0	54,374	34,731	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,897	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	38,541	11,421	0	0	0
Gabion Protection	m3	0.0	9,554	121	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
Sub Total					2,698,173	1,220,084	3,918,257
Overhead (15%)					404,725	183,012	587,737
TOTAL COST					3,102,898	1,403,096	4,505,994

Manual routine maintenance of road	Km	2.0	122,040	7,260	244,080	14,520	258,600
Routine maintenance of gravel road	Km	2.0	185,442	88,186	370,884	176,372	547,256
Sub Total					614,964	190,892	805,856
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	0.0	4,225	2,336	0	0	0

Earthwork & Pavement Unit Cost	(Rp/Km)	:	2,252,998
Timber Bridge Unit Cost	(Rp/m2)	:	
Concrete Bridge Unit Cost	(Rp/m2)	:	
Survived Value	(Rp)	:	0
Maintenance Rate without Bridge	(%)	:	17.88
New Bridge Cost Rate	(%)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : 17 (IIIB-1) LENGTH : 11 Km
 UPGRADE : 6.0m road bed, 4.0m Road with surface Dressing (1)
 (Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m ²	0.0	161	91	0	0	0
Subgrade Preparation	m ²	6000.0	20	11	120,000	66,000	186,000
Normal Fill	m ³	0.0	1,666	865	0	0	0
Fill in Swamp	m ³	0.0	2,477	1,055	0	0	0
Normal Excavation to Spoil	m ³	5289.0	976	524	5,162,064	2,771,436	7,933,500
Sub Base Course	m ³	1914.4	3,170	1,351	6,068,648	2,586,354	8,655,002
Base Course	m ³	3080.0	4,319	2,303	13,302,520	7,093,240	20,395,760
Shoulder	m ²	22000.0	290	146	6,380,000	3,212,000	9,592,000
Asphalt Patching	m ²	0.0	3,389	1,312	0	0	0
Surface Dressing (Single)	m ²	44000.0	590	509	25,960,000	22,396,000	48,356,000
Surface Dressing (Double)	m ²	0.0	736	800	0	0	0
Earth Drain	m	21780.0	774	119	16,857,720	2,591,820	19,449,540
Earth Drain in Swamp (by machine)	m ³	0.0	1,140	475	0	0	0
Pipe Culvert 80cm	m	24.0	39,421	40,307	946,104	967,368	1,913,472
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0
Retaining Wall and Wing Wall (Timber)	m ²	0.0	13,887	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m ³	6.4	38,541	11,421	246,662	73,094	319,756
Babion Protection	m ³	0.0	9,554	121	0	0	0
New Bridge (Timber)	SET	1.0	--	--	15,487,516	1,262,362	16,749,878
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
			Sub Total		90,531,234	43,019,674	133,550,908
Overhead (15%)					13,579,685	6,452,951	20,032,636
			TOTAL COST		104,110,919	49,472,625	153,583,544

Manual routine maintenance of road	Km	11.0	122,040	7,260	1,342,440	79,860	1,422,300
Routine maintenance of asphalt road	Km	11.0	338,900	131,200	3,727,900	1,443,200	5,171,100
			Sub Total		5,070,340	1,523,060	6,593,400
Maintenance of Timber Bridge (New)	m ²	160.0	8,854	1,121	1,416,640	179,360	1,596,000
Maintenance of Concrete Bridge (New)	m ²	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	98.0	4,225	2,336	414,050	228,928	642,978

Earthwork & Pavement Unit Cost (Rp/Km)	:	12,211,017
Timber Bridge Unit Cost (Rp/m ²)	:	120,390
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	10,137,653
Maintenance Rate without Bridge (%)	:	4.91
New Bridge Cost Rate (%)	:	12.54

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : B (IIIC) LENGTH : 6 Km
 UPGRADE : 6.0m road bed, 4.0m road with surface Subbase Course
 (Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	161	91	0	0	0
Subgrade Preparation	m2	8505.0	20	11	170,100	93,555	263,655
Normal Fill	m3	80.0	1,666	865	133,280	69,200	202,480
Fill in Swamp	m3	3118.5	2,477	1,055	7,724,524	3,290,017	11,014,541
Normal Excavation to Spoil	m3	490.0	976	524	478,240	256,760	735,000
Sub Base Course	m3	648.0	3,170	1,351	2,054,160	875,448	2,929,608
Base Course	m3	1440.0	4,319	2,303	6,219,360	3,316,320	9,535,680
Shoulder	m2	12000.0	290	146	3,480,000	1,752,000	5,232,000
Asphalt Patching	m2	0.0	3,389	1,312	0	0	0
Surface Dressing (Single)	m2	0.0	590	509	0	0	0
Surface Dressing (Double)	m2	0.0	736	800	0	0	0
Earth Drain	m	300.0	774	119	232,200	35,700	267,900
Earth Drain in Swamp (by machine)	m3	6300.0	1,140	475	7,182,000	2,992,500	10,174,500
Pipe Culvert Ø80cm	m	12.0	39,421	40,307	473,052	483,684	956,736
Masonry Culvert 180x80cm	m	0.0	54,374	34,731	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	38,541	11,421	0	0	0
Gabion Protection	m3	0.0	9,554	121	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	28,146,916	13,165,184	41,312,100
Overhead (15%)					4,222,037	1,974,777	6,196,814
				TOTAL COST	32,368,953	15,139,961	47,508,914

Manual routine maintenance of road	Km	6.0	122,040	7,260	732,240	43,560	775,800
Routine maintenance of gravel road	Km	6.0	185,442	88,186	1,112,652	529,116	1,641,768
			Sub Total		1,844,892	572,676	2,417,568
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	76.0	4,225	2,336	321,100	177,536	498,636

Earthwork & Pavement	Unit Cost (Rp/Km)	:	7,918,153
Timber Bridge	Unit Cost (Rp/m2)	:	
Concrete Bridge	Unit Cost (Rp/m2)	:	
Survived Value	(Rp)	:	1,171,843
Maintenance Rate without Bridge	(%)	:	5.09
New Bridge Cost Rate	(%)	:	

PROV : SULAWESI SELATAN KAB : PANIKAJENE KEPULAUAN
 LINK NO : 66 (IIIB-1) LENGTH : 6 Km
 UPGRADE : 6.0m road bed, 4.0m road with surface Dressing (1)

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL	
			LOCAL	FOREIGN	LOCAL	FOREIGN		
Site Clearance in Light Bush	m ²	0.0	161	91	0	0	0	
Subgrade Preparation	m ²	0.0	20	11	0	0	0	
Normal Fill	m ³	0.0	1,666	865	0	0	0	
Fill in Swamp	m ³	0.0	2,477	1,055	0	0	0	
Normal Excavation to Spoil	m ³	0.0	976	524	0	0	0	
Sub Base Course	m ³	1518.0	3,170	1,351	4,812,060	2,050,818	6,862,878	
Base Course	m ³	1680.0	4,319	2,303	7,255,920	3,869,040	11,124,960	
Shoulder	m ²	12000.0	290	146	3,480,000	1,752,000	5,232,000	
Asphalt Patching	m ²	0.0	3,389	1,312	0	0	0	
Surface Dressing (Single)	m ²	24000.0	590	509	14,160,000	12,216,000	26,376,000	
Surface Dressing (Double)	m ²	0.0	736	800	0	0	0	
Earth Drain	m	11880.0	774	119	9,195,120	1,413,720	10,608,840	
Earth Drain in Swamp (by machine)	m ³	0.0	1,140	475	0	0	0	
Pipe Culvert 80cm	m	0.0	39,421	40,307	0	0	0	
Masonry Culvert (80x80cm)	m	0.0	54,374	34,731	0	0	0	
Retaining Wall and Wing Wall (Timber)	m ²	0.0	13,887	246	0	0	0	
Retaining Wall and Wing Wall (Masonry)	m ³	0.0	38,541	11,421	0	0	0	
Gabion Protection	m ³	0.0	9,554	121	0	0	0	
New Bridge (Timber)	SET	1.0	--	--	0	0	0	
New Bridge (Concrete)	SET	1.0	--	--	0	0	0	
					38,903,100	21,301,578	60,204,678	
Overhead (15%)					5,835,465	3,195,236	9,030,701	
					TOTAL COST	44,738,565	24,496,814	69,235,379

Manual routine maintenance of road	Km	6.0	122,040	7,260	732,240	43,560	775,800
Routine maintenance of asphalt road	Km	6.0	338,900	131,200	2,033,400	787,200	2,820,600
			Sub Total		2,765,640	830,760	3,596,400
Maintenance of Timber Bridge (New)	m ²	0.0	0,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m ²	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m ²	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m ²	92.0	4,225	2,336	388,700	214,912	603,612

Earthwork & Pavement Unit Cost (Rp/Km)	:	11,539,230
Timber Bridge Unit Cost (Rp/m ²)	:	
Concrete Bridge Unit Cost (Rp/m ²)	:	
Survived Value (Rp)	:	7,029,006
Maintenance Rate without Bridge (X)	:	5.19
New Bridge Cost Rate (X)	:	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 1 (IIIA) LENGTH : 6 Km

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

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Site Clearance in Light Bush	m2	0.0	161	91	0	0	0
Subgrade Preparation	m2	0.0	20	11	0	0	0
Normal Fill	m3	0.0	1,666	865	0	0	0
Fill in Swamp	m3	0.0	2,477	1,055	0	0	0
Normal Excavation to Spoil	m3	0.0	976	524	0	0	0
Sub Base Course	m3	0.0	3,170	1,351	0	0	0
Base Course	m3	0.0	4,319	2,303	0	0	0
Shoulder	m2	12000.0	290	146	3,480,000	1,752,000	5,232,000
Asphalt Patching	m2	637.0	3,389	1,312	2,158,793	835,744	2,994,537
Surface Dressing (Single)	m2	24000.0	590	509	14,160,000	12,216,000	26,376,000
Surface Dressing (Double)	m2	0.0	736	800	0	0	0
Earth Drain	m	2900.0	774	119	2,244,600	345,100	2,589,700
Earth Drain in Swamp (by machine)	m3	0.0	1,140	475	0	0	0
Pipe Culvert DB0cm	m	0.0	39,421	40,307	0	0	0
Masonry Culvert (80x80cm)	m	0.0	51,374	34,731	0	0	0
Retaining Wall and Wing Wall (Timber)	m2	0.0	13,887	246	0	0	0
Retaining Wall and Wing Wall (Masonry)	m3	0.0	38,541	11,421	0	0	0
Gabion Protection	m3	0.0	9,554	121	0	0	0
New Bridge (Timber)	SET	1.0	--	--	0	0	0
New Bridge (Concrete)	SET	1.0	--	--	0	0	0
				Sub Total	22,043,393	15,148,844	37,192,237
Overhead (15%)					3,306,508	2,272,326	5,578,834
				TOTAL COST	25,349,901	17,421,170	42,771,071

Manual routine maintenance of road	Km	6.0	122,040	7,260	732,240	43,560	775,800
Routine maintenance of asphalt road	Km	6.0	338,900	131,200	2,033,400	787,200	2,820,600
			Sub Total		2,765,640	830,760	3,596,400
Maintenance of Timber Bridge (New)	m2	0.0	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.0	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.0	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	192.0	4,225	2,336	811,200	448,512	1,259,712

Earthwork & Pavement	Unit Cost	(Rp/Km)	:	7,128,512
Timber Bridge	Unit Cost	(Rp/m2)	:	
Concrete Bridge	Unit Cost	(Rp/m2)	:	
Survived Value		(Rp)	:	0
Maintenance Rate without Bridge		(%)	:	8.41
New Bridge Cost Rate		(%)	:	

Appendix A-4

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

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	312.7	554.3	694.0	720.6	630.2	2911.8
Swamp Bulldozer	hr	0.0	172.1	180.7	5.5	103.9	462.2
Motor Grader	hr	262.2	701.6	735.0	918.0	902.6	3519.4
Hand-guide Vib. Roller	hr	620.3	563.1	1559.6	1630.5	366.7	4740.2
Tire Roller	hr	599.9	763.7	641.6	1171.6	728.3	3905.1
Vibratory Roller (D&F)	hr	191.3	662.7	708.5	707.0	722.0	2991.5
Hydraulic Excavator; Wheel	hr	0.9	1451.9	1586.2	68.4	474.4	3581.8
Wheel Loader	hr	496.6	1405.5	1645.8	1694.9	1605.2	6848.0
Water Tank Truck	hr	54.2	406.0	460.8	417.4	433.0	1771.4
Dump Truck	hr	4167.9	13230.7	14941.7	14322.2	14045.8	60708.3
Flat Bed Truck with Crane	hr	110.8	177.8	623.2	697.9	367.6	1977.3
Flat Bed Truck	hr	797.6	1023.0	1187.7	1863.7	1005.6	5877.6
Portable Crusher/Screening	hr	79.0	220.7	214.9	427.7	371.7	1314.0
Concrete Mixer	hr	99.2	47.2	434.7	523.0	93.1	1197.2
Water Pump	hr	67.3	34.6	294.6	356.4	70.2	823.1
Concrete Vibrator	hr	3.7	9.2	14.4	23.3	24.6	75.2
Asphalt Sprayer	hr	599.9	763.7	641.6	1171.6	728.3	3905.1
LABOUR :							
Mandur	man day	554.3	1560.9	2044.9	1964.6	1726.3	7851.0
Skilled Labourer	man day	594.1	1531.5	1678.5	1668.6	2220.1	7692.8
Carpenter	man day	2.1	474.5	649.6	440.8	907.8	2474.8
Mason	man day	159.2	63.5	700.6	832.9	114.1	1870.3
Labourer	man day	6003.8	17658.2	21543.4	21646.9	20039.3	86891.6
Driver	man day	979.9	2733.6	3140.2	3233.8	2917.1	13004.6
Operator	man day	554.1	1326.7	1853.0	1929.9	1401.9	7065.6
MATERIAL :							
Bitumen	l	125945.6	162089.4	131904.7	240628.0	149356.4	809924.1
Asphalt Oil	l	24600.0	30608.3	26308.3	48038.3	29861.6	159416.5
Kerosene	l	29727.2	37569.0	31481.9	57460.0	35693.6	191931.7
Sand	m ³	476.0	543.8	673.3	1072.0	584.5	3349.6
Cement	bag	115.4	158.4	477.4	658.5	403.7	1813.4
River Stone	m ³	159.2	63.5	700.6	1001.9	205.1	2130.3
Steel Moulds	set	15.0	48.5	84.5	130.0	130.0	408.0
Timber	m ³	0.0	42.7	58.5	39.2	81.6	222.0
Paint	l	0.0	345.5	459.8	235.4	489.1	1529.8
Reinforcing Steel	kg	595.8	1635.1	2695.5	4261.4	4384.6	13572.4
Tying Wire	kg	5.3	14.8	24.5	376.7	221.8	643.1
Equivalent Royalty	m ³	3946.0	18369.3	21099.5	19623.9	19045.9	82084.6

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

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	0.0	0.0	0.0	0.0	0.0	0.0
Swamp Bulldozer	hr	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader	hr	433.7	863.5	864.0	816.7	758.5	3736.4
Hand-guide Vib. Roller	hr	472.5	1087.5	1215.0	1575.0	1800.0	6150.0
Tire Roller	hr	433.7	863.5	864.0	816.7	758.5	3736.4
Vibratory Roller (O&T)	hr	0.0	0.0	0.0	0.0	0.0	0.0
Hydraulic Excavator; Wheel	hr	0.0	0.0	0.0	0.0	0.0	0.0
Wheel Loader	hr	176.2	363.8	375.3	386.6	384.4	1686.3
Water Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Dump Truck	hr	2002.1	4356.3	4680.5	5467.9	5903.4	22410.2
Flat Bed Truck with Crane	hr	1623.2	3481.7	3668.2	3670.0	3730.2	16173.3
Flat Bed Truck	hr	1983.5	4065.4	4168.1	4282.8	4248.6	18748.4
Portable Crusher/Screening	hr	89.0	184.2	190.3	196.6	195.9	856.0
Concrete Mixer	hr	5.4	11.8	12.5	12.5	12.5	54.7
Water Pump	hr	5.4	11.8	12.5	12.5	12.5	54.7
Concrete Vibrator	hr	5.4	11.8	12.5	12.5	12.5	54.7
Asphalt Sprayer	hr	0.0	0.0	0.0	0.0	0.0	0.0
LABOUR :							
Mandur	man day	784.8	1653.8	1733.2	1901.3	1986.5	8059.6
Skilled Labourer	man day	373.0	847.8	936.9	1176.9	1416.9	4752.3
Carpenter	man day	27.9	59.1	59.9	59.9	108.2	314.0
Mason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	man day	9336.9	19681.8	20636.7	22688.5	23625.0	95868.9
Driver	man day	994.6	2112.1	2221.3	2371.5	2454.7	10154.2
Operator	man day	204.6	412.1	416.4	404.7	384.8	1822.6
MATERIAL :							
Bitumen	l	4252.5	9787.5	10935.0	14175.0	16200.0	55350.0
Asphalt Oil	l	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	l	472.5	1087.5	1215.0	1575.0	1800.0	6150.0
Sand	m ³	84.1	193.0	215.0	275.0	312.5	1079.6
Cement	bag	80.1	172.6	182.4	182.5	183.4	801.0
River Stone	m ³	0.0	0.0	0.0	0.0	0.0	0.0
Steel Moulds	set	0.0	0.0	0.0	0.0	0.0	0.0
Tiebar	m ³	2.1	4.4	4.5	4.5	8.8	24.3
Paint	l	8.8	17.7	17.7	17.7	48.8	110.7
Reinforcing Steel	kg	411.9	887.1	937.3	937.8	942.5	4116.6
Tying Wire	kg	3.7	8.0	8.5	8.5	8.5	37.2
Equivalent Royalty	m ³	2497.5	5153.4	5317.3	5477.0	5443.4	23888.6

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

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :							
Bulldozer/Ripper	hr	312.7	554.3	694.0	720.6	630.2	2911.8
Swamp Bulldozer	hr	0.0	172.1	180.7	5.5	103.9	462.2
Motor Grader	hr	695.9	1565.1	1599.0	1734.7	1661.1	7255.8
Hand-guide Vib. Roller	hr	1092.8	1650.6	2774.6	3205.5	2166.7	10890.2
Tire Roller	hr	1033.6	1627.2	1505.6	1988.3	1486.8	7641.5
Vibratory Roller (D&T)	hr	191.3	662.7	708.5	707.0	722.0	2991.5
Hydraulic Excavator; Wheel	hr	0.9	1451.9	1586.2	68.4	474.4	3581.8
Wheel Loader	hr	672.8	1769.3	2021.1	2081.5	1989.6	9534.3
Water Tank Truck	hr	54.2	406.0	460.8	417.4	433.0	1771.4
Dump Truck	hr	6170.0	17587.0	19622.2	19790.1	19949.2	83118.5
Flat Bed Truck with Crane	hr	1734.0	3659.5	4291.4	4367.9	4097.8	18150.6
Flat Bed Truck	hr	2781.1	5088.4	5355.8	6146.5	5254.2	24626.0
Portable Crusher/Screening	hr	168.0	404.9	405.2	624.3	567.6	2170.0
Concrete Mixer	hr	104.6	59.0	447.2	535.5	105.6	1251.9
Water Pump	hr	72.7	46.4	307.1	368.9	82.7	877.8
Concrete Vibrator	hr	9.1	21.0	26.9	35.8	37.1	129.9
Asphalt Sprayer	hr	599.9	763.7	641.6	1171.6	728.3	3905.1
LABOUR :							
Handur	man day	1339.1	3214.7	3778.1	3865.9	3712.8	15910.6
Skilled Labourer	man day	967.9	2379.3	2615.4	2845.5	3637.0	12445.1
Carpenter	man day	30.0	532.6	709.5	500.7	1016.0	2788.8
Mason	man day	159.2	63.5	700.6	832.9	114.1	1870.3
Labourer	man day	15340.7	37340.0	42180.1	44335.4	43664.3	182860.5
Driver	man day	1974.5	4845.7	5361.5	5605.3	5371.8	23158.8
Operator	man day	758.7	1738.8	2269.4	2334.6	1786.7	8888.2
MATERIAL :							
Bitumen	l	130198.1	171876.9	142839.7	254803.0	165556.4	865274.1
Asphalt Oil	l	24600.0	30608.3	26308.3	48038.3	29861.6	159416.5
Kerosene	l	30199.7	38656.5	32696.9	59035.0	37493.6	198081.7
Sand	m ³	560.1	736.8	888.3	1347.0	897.0	4429.2
Cement	bag	195.5	331.0	659.8	841.0	587.1	2614.4
River Stone	m ³	159.2	63.5	700.6	1001.9	205.1	2130.3
Steel Moulds	set	15.0	48.5	84.5	130.0	130.0	408.0
Timber	m ³	2.1	47.1	63.0	43.7	90.4	246.3
Paint	l	8.8	363.2	477.5	253.1	537.9	1640.5
Reinforcing Steel	kg	1007.7	2522.2	3632.8	5199.2	5327.1	17687.0
Tying Wire	kg	9.0	22.8	33.0	385.2	230.3	680.3
Equivalent Royalty	m ³	6443.5	23522.7	26416.8	25100.9	24489.3	105973.2

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

PROV : SULAWESI SELATAN

KAB : PANGKAJENE KEPULAUAN

(1000 Rp)

ITEM	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		57,045	164,742	189,138	187,673	170,918	769,516
Bulldozer/Ripper	15796	4,939	8,755	10,962	11,382	9,954	45,992
Swamp Bulldozer	11584	0	1,993	2,093	63	1,203	5,352
Motor Grader	13483	3,535	9,459	9,910	12,377	12,169	47,450
Hand-guide Vib. Roller	1588	985	894	2,476	2,589	582	7,526
Tire Roller	10700	6,418	8,171	6,865	12,536	7,792	41,782
Vibratory Roller (D&I)	6738	1,288	4,465	4,773	4,763	4,864	20,153
Hydraulic Excavator; Wheel	12622	11	18,325	20,021	863	5,987	45,207
Wheel Loader	16678	8,282	23,440	27,448	28,267	26,771	114,208
Water Tank Truck	3936	213	1,599	1,813	1,642	1,704	6,970
Dump Truck	5425	22,610	71,776	81,058	77,697	76,198	329,339
Fiat Bed Truck with Crane	4991	553	887	3,110	3,483	1,834	9,867
Fiat Bed Truck	3275	2,612	3,350	3,889	6,103	3,293	19,247
Portable Crusher/Screening	43564	3,441	9,614	9,361	18,632	16,192	57,240
Concrete Mixer	8954	888	422	3,892	4,682	833	10,717
Water Pump	478	32	16	140	170	33	391
Concrete Vibrator	308	1	2	4	7	7	21
Asphalt Sprayer	2063	1,237	1,575	1,323	2,417	1,502	8,054
LABOUR :		17,152	48,494	61,285	61,628	56,130	244,689
Handur	2000	1,108	3,121	4,089	3,929	3,452	15,699
Skilled Labourer	2000	1,188	3,063	3,357	3,337	4,440	15,385
Carpenter	3000	6	1,423	1,948	1,322	2,723	7,422
Mason	3000	477	190	2,101	2,498	342	5,608
Labourer	1500	9,005	26,487	32,315	32,470	30,058	130,335
Driver	3500	3,429	9,567	10,990	11,318	10,209	45,513
Operator	3500	1,939	4,643	6,485	6,754	4,906	24,727
MATERIAL :		61,208	88,379	85,408	136,416	95,209	466,620
Bitumen	250	31,486	40,522	32,976	60,157	37,339	202,480
Asphalt Oil	700	17,220	21,425	18,415	33,626	20,903	111,589
Kerosene	250	7,431	9,392	7,870	14,365	8,923	47,981
Sand	5000	2,380	2,719	3,366	5,360	2,922	16,747
Cement	3750	432	594	1,790	2,469	1,513	6,798
River Stone	4500	716	285	3,152	4,508	922	9,583
Steel Moulds	7000	105	339	591	910	910	2,855
Timber	150000	0	6,405	8,775	5,880	12,240	33,300
Paint	2500	0	863	1,149	588	1,222	3,822
Reinforcing Steel	750	446	1,226	2,021	3,196	3,288	10,177
Tying Wire	1200	6	17	29	452	266	770
Equivalent Royalty	250	986	4,592	5,274	4,905	4,761	20,518

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

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		43,560	91,134	94,838	99,385	100,819	429,736
Bulldozer/Ripper	15796	0	0	0	0	0	0
Swamp Bulldozer	11584	0	0	0	0	0	0
Motor Grader	13483	5,847	11,642	11,649	11,011	10,226	50,375
Hand-guide Vib. Roller	1588	750	1,726	1,929	2,501	2,858	9,764
Tire Roller	10700	4,640	9,239	9,244	8,738	8,115	39,976
Vibratory Roller (D&I)	6738	0	0	0	0	0	0
Hydraulic Excavator; Wheel	12622	0	0	0	0	0	0
Wheel Loader	16678	2,938	6,067	6,259	6,447	6,411	28,122
Water Tank Truck	3936	0	0	0	0	0	0
Dump Truck	5425	10,861	23,632	25,391	29,663	32,025	121,572
Flat Bed Truck with Crane	4991	8,101	17,377	18,307	18,316	18,617	80,718
Flat Bed Truck	3275	6,495	13,314	13,650	14,026	13,914	61,399
Portable Crusher/Screening	43564	3,877	8,024	8,290	8,564	8,534	37,289
Concrete Mixer	8954	48	105	111	111	111	486
Water Pump	478	2	5	5	5	5	22
Concrete Vibrator	308	1	3	3	3	3	13
Asphalt Sprayer	2063	0	0	0	0	0	0
LABOUR :		20,601	43,532	45,704	50,082	52,504	212,423
Handur	2000	1,569	3,307	3,466	3,802	3,973	16,117
Skilled Labourer	2000	747	1,695	1,873	2,353	2,833	9,501
Carpenter	3000	83	174	179	179	324	939
Hason	3000	0	0	0	0	0	0
Labourer	1500	14,005	29,522	30,955	34,032	35,437	143,951
Driver	3500	3,481	7,392	7,774	8,300	8,591	35,538
Operator	3500	716	1,442	1,457	1,416	1,346	6,377
MATERIAL :		3,174	6,995	7,555	8,796	10,267	36,787
Bitumen	250	1,063	2,446	2,733	3,543	4,050	13,835
Asphalt Oil	700	0	0	0	0	0	0
Kerosene	250	118	271	303	393	450	1,535
Sand	5000	420	965	1,075	1,375	1,562	5,397
Cement	3750	300	647	684	684	687	3,002
River Stone	4500	0	0	0	0	0	0
Steel Moulds	7000	0	0	0	0	0	0
Timber	150000	315	660	675	675	1,320	3,645
Paint	2500	22	44	44	44	122	276
Reinforcing Steel	750	308	665	702	703	706	3,084
Tying Wire	1200	4	9	10	10	10	43
Equivalent Royalty	250	624	1,288	1,329	1,369	1,360	5,970

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

PROV : SULAWESI SELATAN

KAB : PANGKAJENE KEPULAUAN

(1000 Rp)

I T E M	UNIT	< 1988 >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
EQUIPMENT :		100,605	255,876	283,976	287,058	271,737	1,199,252
Bulldozer/Ripper	15796	4,939	8,755	10,962	11,382	9,954	45,992
Swamp Bulldozer	11584	0	1,993	2,093	63	1,203	5,352
Motor Grader	13483	9,382	21,101	21,559	23,388	22,395	97,825
Hand-guide Vib. Roller	1588	1,735	2,620	4,405	5,090	3,440	17,290
Tire Roller	10700	11,058	17,410	16,109	21,274	15,907	81,758
Vibratory Roller (D&T)	6738	1,288	4,465	4,773	4,763	4,864	20,153
Hydraulic Excavator; Wheel	12622	11	18,325	20,021	863	5,987	45,207
Wheel Loader	16678	11,220	29,507	33,707	34,714	33,182	142,330
Water Tank Truck	3936	213	1,598	1,813	1,642	1,704	6,970
Dump Truck	5425	33,471	95,408	106,449	107,360	108,223	450,911
Flat Bed Truck with Crane	4991	8,654	18,264	21,417	21,799	20,451	90,585
Flat Bed Truck	3275	9,107	16,664	17,539	20,129	17,207	80,646
Portable Crusher/Screening	43564	7,318	17,638	17,651	27,196	24,726	94,529
Concrete Mixer	8954	936	527	4,003	4,793	944	11,203
Water Pump	478	34	21	145	175	38	413
Concrete Vibrator	308	2	5	7	10	10	34
Asphalt Sprayer	2063	1,237	1,575	1,323	2,417	1,502	8,054
LABOUR :		37,753	92,026	106,989	111,710	108,634	457,112
Mandur	2000	2,677	6,428	7,555	7,731	7,425	31,816
Skilled Labourer	2000	1,935	4,758	5,230	5,690	7,273	24,886
Carpenter	3000	89	1,597	2,127	1,501	3,047	8,361
Mason	3000	477	190	2,101	2,498	342	5,608
Labourer	1500	23,010	56,009	63,270	66,502	65,495	274,286
Driver	3500	6,910	18,959	18,764	19,618	18,800	81,051
Operator	3500	2,655	6,085	7,942	8,170	6,252	31,104
MATERIAL :		64,382	95,374	92,963	145,212	105,476	503,407
Bitumen	250	32,549	42,968	35,709	63,700	41,389	216,315
Asphalt Oil	700	17,220	21,425	18,415	33,626	20,903	111,589
Kerosene	250	7,549	9,663	8,173	14,758	9,373	49,516
Sand	5000	2,800	3,684	4,441	6,735	4,484	22,144
Cement	3750	732	1,241	2,474	3,153	2,200	9,800
River Stone	4500	716	285	3,152	4,508	922	9,583
Steel Moulds	7000	105	339	591	910	910	2,855
Timber	150000	315	7,065	9,450	6,555	13,560	36,945
Paint	2500	22	907	1,193	632	1,344	4,098
Reinforcing Steel	750	754	1,891	2,723	3,899	3,994	13,261
Tying Wire	1200	10	26	39	462	276	813
Equivalent Royalty	250	1,610	5,880	6,603	6,274	6,121	26,480

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO	BRIDGE NAME	Km	From	<< TYPE >>		DESIGN LOAD	SPAN CLASS	LENGTH (m)	SPAN NO	SPAN LENGTH (m)	WIDTH (m)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS
				(EXIST)	(NEW)							(EXIST) (m2)	(NEW) (m2)			
18	KASI KEBU I	10	PTSG	--	TM	10T	(B)	4.00	1	4.00	4.00	0.00	16.00	0	2	IIIB-1
	KASI KEBU II	11	PTSG	--	TM	10T	(B)	4.00	1	4.00	4.00	0.00	16.00	0	2	
19	PATIROKANJA	3	SIRH					3.00	1	3.00	4.00	20.00		0	2	IIIA
39	JATIE I	1	BTLG					1.50	1	1.50	4.00	6.00		0	2	IIIB-1
	JATIE II	1	BTLG					2.00	1	2.00	4.00	8.00		0	2	
	JATIE III	2	BTLG					3.00	1	3.00	4.00	12.00		0	2	
	JATIE IV	3	BTLG					2.50	1	2.50	4.00	10.00		0	2	
	JATIE V	4	BTLG					3.00	1	3.00	4.00	12.00		0	2	
	BALAE	6	BTLG					5.00	1	5.00	4.00	20.00		0	2	
	ULUBATU	7	BTLG					4.50	1	4.50	4.00	18.00		0	2	
41	TARAMEANG	3	LPNG					4.00	1	4.00	4.00	16.00		0	2	IIIB-1
	TARAMEANGA	6	LPNG					7.00	1	7.00	4.00	28.00		0	2	
	TARAMEANGB	7	LPNG					6.00	1	6.00	4.00	24.00		0	2	
43	PATALLASSANG	1	PTLS	--	TM	10T	(C)	7.00	1	7.00	4.00	0.00	28.00	0	2	IIIB-1
	GOYANG-GOYANG	2	PTLS					6.50	1	6.50	3.50	22.75		0	2	
56	BORONGUNTIA	6	BNGR					11.00	1	11.00	4.00	44.00		0	2	IIIC
62	BONTOMANAI	2	BTJI					8.00	1	8.00	4.00	32.00		0	2	IIIB-1
66	PANGKAJENE	2	PKJN					4.00	1	4.00	4.00	16.00		0	2	IIIB-1
	PANGKAJENE2	2	PKJN					4.00	1	4.00	4.00	16.00		0	2	
	PANGKAJENE3	2	PKJN					3.00	1	3.00	4.00	12.00		0	2	
	PANGKAJENE4	2	PKJN					5.00	1	5.00	4.00	20.00		0	2	
	PANGKAJENES	2	PKJH					3.00	1	3.00	4.00	12.00		0	2	
	PANGK	2	PKJN					4.00	1	4.00	4.00	16.00		0	2	

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO	BRIDGE NAME	Km	<< TYPE >>		DESIGN LOAD	SPAN CLASS	LENGTH (m)	SPAN NO	SPAN LENGTH (m)	WIDTH (m)	AREA	AREA	PIER (no)	ABUT (no)	ROAD CLASS	
			(EXIST)	(NEW)							(EXIST)	(NEW)				
1	N.1	6	PKJN	KB			4.00	1	4.00	4.00	16.00		0	2	IIIA	
	N.1	4	PKJN	KB			17.00	2	8.50	4.00	68.00		1	2		
	N.1	3	PKJN	KB			8.00	1	8.00	4.00	32.00		0	2		
	N.1	2	PKJN	KB			6.00	1	6.00	4.00	24.00		0	2		
	N.1	2	PKJN	KB			4.00	1	4.00	4.00	16.00		0	2		
	N.1	1	PKJN	KB			9.00	1	9.00	4.00	36.00		0	2		
5	BALLEANGIN	2	BLCI	KB			2.50	1	2.50	4.00	10.00		0	2	IIIA	
	CAPPALI	4	BLCI	KB			5.00	1	5.00	4.00	20.00		0	2		
	PANAKKI	5	BLCI	KB			10.00	1	10.00	4.00	40.00		0	2		
	N.1.1	10	BLCI	KB			6.50	1	6.50	9.00	58.50		0	2		
	N.1.2	10	BLCI	KB			13.00	1	13.00	9.00	117.00		0	2		
	N.1.3	12	BLCI	KB			10.00	1	10.00	9.00	90.00		0	2		
6	NATOJENG	4	PKJN	KB			5.00	1	5.00	4.00	20.00		0	2	IIIB-1	
	SALOTALLANG I	5	PKJN	KB			25.00	2	12.50	3.50	87.50		1	2		
	SALOTALLANG II	5	PKJN	KB			3.50	1	3.50	4.00	14.00		0	2		
	KALOROKONDOA	6	PKJN	KB			7.00	1	7.00	3.50	24.50		0	2		
	N.1	7	PKJN	KB			4.00	1	4.00	4.00	16.00		0	2		
	HACCINA	10	PKJN	KB			8.50	1	8.50	4.00	34.00		0	2		
	SILORO	11	PKJN	KB			5.00	1	5.00	4.00	20.00		0	2		
	LEANGKACA	15	PKJN	KB			8.00	1	8.00	4.00	32.00		0	2		
	BINTAWAN	17	PKJN	KB			4.50	1	4.50	4.00	18.00		0	2		
	SAMBERA	18	PKJN	KB			8.00	1	8.00	4.00	32.00		0	2		
	CAI	18	PKJN	KB			3.50	1	3.50	4.00	14.00		0	2		
	PUNGKERO	24	PKJN	KB			5.00	1	5.00	4.00	20.00		0	2		
	TABORA	24	PKJN	KB			5.00	1	5.00	4.00	20.00		0	2		
	SANGGI	26	PKJN	KB			14.00	1	14.00	4.00	56.00		0	2		
	TUI	27	PKJN	KB			12.00	1	12.00	4.00	48.00		0	2		
PAYAMLOMBASA	28	PKJN	KB	TH	10T	(C)	40.00	5	8.00	4.00	0.00	160.00	4	2		
PAKU-PAKU	29	PKJN	KB				4.00	1	4.00	4.00	16.00		0	2		
8	CAMBAN	1	BTLG	KB			4.00	1	4.00	4.00	16.00		0	2	IIIC	
	BILABILA I	3	BTLG	KB			4.50	1	4.50	4.00	18.00		0	2		
	BILABILA II	4	BTLG	KB			6.00	1	6.00	4.00	24.00		0	2		
	BILABILA III	6	BTLG	KB			4.50	1	4.50	4.00	18.00		0	2		
17	PAKKECCEE	2	MRNG	KB			4.50	1	4.50	4.00	18.00		0	2	IIIB-1	
	CAMBANG	4	MRNG	KB			6.00	1	6.00	4.00	24.00		0	2		
	SAMBAN II	7	MRNG	KB			5.00	1	5.00	4.00	20.00		0	2		
	SAMBAN I	8	MRNG	KB			5.00	1	5.00	4.00	20.00		0	2		
	BULUSIPONG	9	MRNG	KB			4.00	1	4.00	4.00	16.00		0	2		
	ANUNG	11	MRNG	KB	TH	10T	(C)	40.00	5	8.00	4.00	0.00	160.00	4		2
18	KAYUMATE I	5	PTSG	KB	TH	10T	(A)	3.00	1	3.00	4.00	0.00	12.00	0	2	IIIB-1
	KAYUMATE II	6	PTSG	KB			10.00	1	10.00	4.00	40.00		0	2		
	GUSUNGBE I	7	PTSG	KB	TH	10T	(A)	3.00	1	3.00	4.00	0.00	12.00	0	2	
	GUSUNGBE II	7	PTSG	KB	TH	10T	(A)	3.00	1	3.00	4.00	0.00	12.00	0	2	
	JANNAE I	8	PTSG	KB	TH	10T	(A)	3.00	1	3.00	4.00	0.00	12.00	0	2	
	JANNAE II	9	PTSG	KB	TH	10T	(B)	4.00	1	4.00	4.00	0.00	16.00	0	2	
	JANNAE III	9	PTSG	KB	TH	10T	(B)	4.00	1	4.00	4.00	0.00	16.00	0	2	

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

PROV : SULAWESI SELATAN KAR : PANGKAJENE KEPULAUAN

LINK NO : 5 (IIIA) LENGTH : 16 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber; Span 3m; BH50)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber; Span 5m; BH50)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber; Span 8m; BH50)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete; Span 3m; BH50)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete; Span 5m; BH50)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete; Span 8m; BH50)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete; Span 10m; BH50)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete; Span 15m; BH50)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,149,320	154,495	0	0	0
Substructure (Pier; for Timber; BH50)	NO	0.00	826,657	48,632	0	0	0
Substructure (Abut; for Timber; BH50)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier; for Concrete; BH50)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	0,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	335.50	4,225	2,336	1,417,487	783,728	2,201,215
<hr/>							
(Without Overhead)	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0
<hr/>							
(Overhead : 15%)	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : SULAWESI SELATAN

KAD : PANGKAJENE KEPULAUAN

LINK NO : 6 (IIR-1)

LENGTH : 31 Km

(Rp)

ITEM	UNIT	QUANTITY	«« UNIT COST »»		«««« COST »»»»»		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3a; 10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber; Span 5a; 10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber; Span 8a; 10T)	m2	160.00	71,778	5,137	11,484,480	821,920	12,306,400
Superstructure (Timber; Span 3a; BNSO)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber; Span 5a; BNSO)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber; Span 8a; BNSO)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete; Span 3a; BNSO)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete; Span 5a; BNSO)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete; Span 8a; BNSO)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete; Span 10a; BNSO)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete; Span 15a; BNSO)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier; for Timber; 10T)	NO	4.00	426,099	32,863	1,704,396	131,452	1,835,848
Substructure (Abut; for Timber; 10T)	NO	2.00	1,149,320	154,495	2,298,640	308,990	2,607,630
Substructure (Pier; for Timber; BNSO)	NO	0.00	628,657	48,632	0	0	0
Substructure (Abut; for Timber; BNSO)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier; for Concrete; BNSO)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut; for Concrete; BNSO)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	160.00	8,854	1,121	1,416,640	179,360	1,596,000
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	36.00	8,273	2,405	297,828	86,580	384,408
Maintenance of Concrete Bridge (Exist)	m2	436.00	4,225	2,336	1,842,100	1,018,496	2,860,596
(Without Overhead)			TOTAL COST (Timber Bridge)		15,487,516	1,262,362	16,749,878
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		15,487,516	1,262,362	16,749,878
(Overhead : 15%)			TOTAL COST (Timber Bridge)		17,810,643	1,451,716	19,262,360
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		17,810,643	1,451,716	19,262,360

PROV : BULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 8 (IIC) LENGTH : 6 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber;Span 3m;BH50)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber;Span 5m;BH50)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber;Span 8m;BH50)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete;Span 3m;BH50)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete;Span 5m;BH50)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete;Span 8m;BH50)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete;Span10m;BH50)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete;Span15m;BH50)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,149,320	154,495	0	0	0
Substructure (Pier;for Timber;BH50)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut;for Timber;BH50)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier;for Concrete;BH50)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut;for Concrete;BH50)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	76.00	4,225	2,336	321,100	177,536	498,636

(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SULAWESI SELATAN

KAB : PANGKAJENE KEPULAUAN

LINK NO : 17 (III B-1)

LENGTH : 11 Km

(Rp)

J I T E N	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	160.00	71,778	5,137	11,484,480	821,920	12,306,400
Superstructure (Timber;Span 3m;BMS0)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber;Span 5m;BMS0)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber;Span 8m;BMS0)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete;Span 3m;BMS0)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete;Span 5m;BMS0)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete;Span 8m;BMS0)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete;Span10m;BMS0)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete;Span15m;BMS0)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier;for Timber;10T)	NO	4.00	426,099	32,863	1,704,396	131,452	1,835,848
Substructure (Abut;for Timber;10T)	NO	2.00	1,149,320	154,495	2,298,640	308,990	2,607,630
Substructure (Pier;for Timber;BMS0)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut;for Timber;BMS0)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier;for Concrete;BMS0)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut;for Concrete;BMS0)	NO	0.00	3,249,225	939,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	160.00	8,854	1,121	1,416,640	179,360	1,596,000
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	98.00	4,225	2,336	414,050	228,928	642,978
(Without Overhead)	TOTAL COST (Timber Bridge)				15,487,516	1,262,362	16,749,878
	TOTAL COST (Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				15,487,516	1,262,362	16,749,878
(Overhead : 15%)	TOTAL COST (Timber Bridge)				17,810,643	1,451,716	19,262,360
	TOTAL COST (Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				17,810,643	1,451,716	19,262,360

PROV : SULAWESI SELATAN

KAB : PANGKAJENE KEPULAUAN

LINK NO : 18 (III B-1)

LENGTH : 12 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	48.00	48,923	3,541	2,348,304	169,968	2,518,272
Superstructure (Timber; Span 5m; IOT)	m2	64.00	54,190	3,910	3,468,160	250,240	3,718,400
Superstructure (Timber; Span 8m; IOT)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier; for Timber; IOT)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut; for Timber; IOT)	NO	16.00	1,149,320	154,495	18,389,120	2,471,920	20,861,040
Substructure (Pier; for Timber; BMSO)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	112.00	8,854	1,121	991,648	125,552	1,117,200
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	40.00	4,225	2,336	169,000	93,440	262,440
<hr/>							
(Without Overhead)	TOTAL COST (Timber Bridge)				24,205,584	2,892,128	27,097,712
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				24,205,584	2,892,128	27,097,712
<hr/>							
(Overhead : 15%)	TOTAL COST (Timber Bridge)				27,836,422	3,325,947	31,162,369
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				27,836,422	3,325,947	31,162,369

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 19 (IIIA) LENGTH : 5 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; IOT)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber; Span 5m; IOT)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber; Span 8m; IOT)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier; for Timber; IOT)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut; for Timber; IOT)	NO	0.00	1,149,320	154,495	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,403	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	20.00	4,225	2,336	84,500	46,720	131,220

(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 39 (IIB-1) LENGTH : 13 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber;Span 3m;BMS0)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber;Span 5m;BMS0)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber;Span 8m;BMS0)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete;Span 3m;BMS0)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete;Span 5m;BMS0)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete;Span 8m;BMS0)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete;Span 10m;BMS0)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete;Span 15m;BMS0)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier;for Timber;10T)	N0	0.00	426,099	32,863	0	0	0
Substructure (Abut;for Timber;10T)	N0	0.00	1,149,320	154,495	0	0	0
Substructure (Pier;for Timber;BMS0)	N0	0.00	626,657	48,632	0	0	0
Substructure (Abut;for Timber;BMS0)	N0	0.00	1,300,451	171,666	0	0	0
Substructure (Pier;for Concrete;BMS0)	N0	0.00	1,330,113	452,906	0	0	0
Substructure (Abut;for Concrete;BMS0)	N0	0.00	3,249,225	939,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	86.00	4,225	2,336	363,350	200,896	564,246
<hr/>							
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
<hr/>							
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN
 LINK NO : 41 (IIIB-1) LENGTH : 7 Km

(Rp)

I T E M	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber;Span 3m;BHSO)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber;Span 5m;BHSO)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber;Span 8m;BHSO)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete;Span 3m;BHSO)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete;Span 5m;BHSO)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete;Span 8m;BHSO)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete;Span 10m;BHSO)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete;Span 15m;BHSO)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut;for Timber;10T)	NO	0.00	1,149,320	154,495	0	0	0
Substructure (Pier;for Timber;BHSO)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut;for Timber;BHSO)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier;for Concrete;BHSO)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut;for Concrete;BHSO)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	68.00	4,225	2,336	287,300	158,848	446,148

(Without Overhead)	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

(Overhead : 15%)	TOTAL COST (Timber Bridge)				0	0	0
	(Concrete Bridge)				0	0	0
	TOTAL COST (without Maintenance)				0	0	0

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 43 (IIIB-1) LENGTH : 4 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	28.00	71,778	5,137	2,009,784	143,836	2,153,620
Superstructure (Timber;Span 3m;BMS0)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber;Span 5m;BMS0)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber;Span 8m;BMS0)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete;Span 3m;BMS0)	m2	0.00	31,719	81,925	0	0	0
Superstructure (Concrete;Span 5m;BMS0)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete;Span 8m;BMS0)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete;Span 10m;BMS0)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete;Span 15m;BMS0)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier;for Timber;10T)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut;for Timber;10T)	NO	2.00	1,149,320	154,495	2,298,640	308,990	2,607,630
Substructure (Pier;for Timber;BMS0)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut;for Timber;BMS0)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier;for Concrete;BMS0)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut;for Concrete;BMS0)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	28.00	8,854	1,121	247,912	31,388	279,300
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	22.75	4,225	2,336	96,118	53,144	149,262
(Without Overhead)			TOTAL COST (Timber Bridge)		4,308,424	452,826	4,761,250
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		4,308,424	452,826	4,761,250
(Overhead : 15%)			TOTAL COST (Timber Bridge)		4,954,688	520,750	5,475,438
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		4,954,688	520,750	5,475,438

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 56 (IIIC) LENGTH : 9 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 101)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber; Span 5m; 101)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber; Span 8m; 101)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber; Span 3m; BMS0)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber; Span 5m; BMS0)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber; Span 8m; BMS0)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete; Span 3m; BMS0)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete; Span 5m; BMS0)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete; Span 8m; BMS0)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete; Span 10m; BMS0)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete; Span 15m; BMS0)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier; for Timber; 101)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut; for Timber; 101)	NO	0.00	1,149,320	154,495	0	0	0
Substructure (Pier; for Timber; BMS0)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut; for Timber; BMS0)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier; for Concrete; BMS0)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut; for Concrete; BMS0)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	44.00	4,225	2,336	185,900	102,784	288,684
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(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
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(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SULAWESI SELATAN KAB : PANGRAJENE KEPULAUAN
 LINK NO : 66 (IIIB-1) LENGTH : 6 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;IOT)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber;Span 5m;IOT)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber;Span 8m;IOT)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber;Span 3m;BMSO)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber;Span 5m;BMSO)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber;Span 8m;BMSO)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete;Span 3m;BMSO)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete;Span 5m;BMSO)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete;Span 8m;BMSO)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete;Span 10m;BMSO)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete;Span 15m;BMSO)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier;for Timber;IOT)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut;for Timber;IOT)	NO	0.00	1,149,320	154,495	0	0	0
Substructure (Pier;for Timber;BMSO)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut;for Timber;BMSO)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier;for Concrete;BMSO)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut;for Concrete;BMSO)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	92.00	4,225	2,336	388,700	214,912	603,612
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 1 (IIIA) LENGTH : 6 Km

(Rp)

ITEM	UNIT	QUANTITY	<<< UNIT COST >>>		<<<<< COST >>>>>		>>>>> TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber;Span 3m;10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber;Span 5m;10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber;Span 8m;10T)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber;Span 3m;BHSO)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber;Span 5m;BHSO)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber;Span 8m;BHSO)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete;Span 3m;BHSO)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete;Span 5m;BHSO)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete;Span 8m;BHSO)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete;Span 10m;BHSO)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete;Span 15m;BHSO)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier;for Timber;10T)	N0	0.00	426,099	32,863	0	0	0
Substructure (Abut;for Timber;10T)	N0	0.00	1,149,320	154,495	0	0	0
Substructure (Pier;for Timber;BHSO)	N0	0.00	626,657	48,632	0	0	0
Substructure (Abut;for Timber;BHSO)	N0	0.00	1,300,451	171,666	0	0	0
Substructure (Pier;for Concrete;BHSO)	N0	0.00	1,530,113	452,906	0	0	0
Substructure (Abut;for Concrete;BHSO)	N0	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	192.00	4,225	2,336	811,200	448,512	1,259,712
(Without Overhead)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0
(Overhead : 15%)			TOTAL COST (Timber Bridge)		0	0	0
			(Concrete Bridge)		0	0	0
			TOTAL COST (without Maintenance)		0	0	0

PROV : SULAWESI SELATAN KAB : PANGKAJENE KEPULAUAN

LINK NO : 62 (IIIB-1) LENGTH : 3 Km

(Rp)

ITEM	UNIT	QUANTITY	UNIT COST		COST		TOTAL
			LOCAL	FOREIGN	LOCAL	FOREIGN	
Superstructure (Timber; Span 3m; 10T)	m2	0.00	48,923	3,541	0	0	0
Superstructure (Timber; Span 5m; 10T)	m2	0.00	54,190	3,910	0	0	0
Superstructure (Timber; Span 8m; 10T)	m2	0.00	71,778	5,137	0	0	0
Superstructure (Timber; Span 3m; BMSO)	m2	0.00	60,663	4,379	0	0	0
Superstructure (Timber; Span 5m; BMSO)	m2	0.00	66,227	4,745	0	0	0
Superstructure (Timber; Span 8m; BMSO)	m2	0.00	83,994	6,007	0	0	0
Superstructure (Concrete; Span 3m; BMSO)	m2	0.00	51,718	81,925	0	0	0
Superstructure (Concrete; Span 5m; BMSO)	m2	0.00	52,886	91,542	0	0	0
Superstructure (Concrete; Span 8m; BMSO)	m2	0.00	54,305	99,704	0	0	0
Superstructure (Concrete; Span 10m; BMSO)	m2	0.00	59,245	113,234	0	0	0
Superstructure (Concrete; Span 15m; BMSO)	m2	0.00	63,503	133,369	0	0	0
Substructure (Pier; for Timber; 10T)	NO	0.00	426,099	32,863	0	0	0
Substructure (Abut; for Timber; 10T)	NO	0.00	1,149,320	154,495	0	0	0
Substructure (Pier; for Timber; BMSO)	NO	0.00	626,657	48,632	0	0	0
Substructure (Abut; for Timber; BMSO)	NO	0.00	1,300,451	171,666	0	0	0
Substructure (Pier; for Concrete; BMSO)	NO	0.00	1,530,113	452,906	0	0	0
Substructure (Abut; for Concrete; BMSO)	NO	0.00	3,249,225	959,362	0	0	0
Demolition of Bridge (Timber->Timber)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Timber->Concrete)	m2	0.00	13,480	1,374	0	0	0
Demolition of Bridge (Concrete)	m2	0.00	77,837	64,824	0	0	0
Maintenance of Timber Bridge (New)	m2	0.00	8,854	1,121	0	0	0
Maintenance of Concrete Bridge (New)	m2	0.00	1,895	2,456	0	0	0
Maintenance of Timber Bridge (Exist)	m2	0.00	8,273	2,405	0	0	0
Maintenance of Concrete Bridge (Exist)	m2	32.00	4,225	2,336	135,200	74,752	209,952

(Without Overhead)

TOTAL COST (Timber Bridge)	0	0	0
(Concrete Bridge)	0	0	0
TOTAL COST (without Maintenance)	0	0	0

(Overhead : 15%)

TOTAL COST (Timber Bridge)	0	0	0
(Concrete Bridge)	0	0	0
TOTAL COST (without Maintenance)	0	0	0

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