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

PROV : SULAWESI TENDBARA KAB : MUNA

66 (1118-2) LENGTH : 7 Km LINK NO :

UPGRADE 6.5m road bed, 4.0m road with surface Base Cource ₹.

ITEN	UNIT	QUANTITY	(((UNIT Local	CUST >>> Foreign		COST Fore Ign	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
ite Clearance in Light Bush	· #2	0.0	159	91	·· 0	0	0
ubgrade Preparation	a2	0.0	20			0	0
ormal Fill	#3		1,631	866	лана с б	0	0
ill in Swaep	. a3	0.0	2,429	1,059	0	0	0
ormal Excavation to Spoil	83		959	525	0	0	0
ub Pase Course	•3	1170.0		1,355	3,615,300	1,585,350	5,200,650
ase Course	•3	1440.0	4,244	2,310	6,111,360		9,437,760
houlder	#2	17500.0	284	146	4,970,000		7,525,000
sphalt Patching	n2			1,383	393,690		545,820
urface Dressing (Single)	m2		636	595	0		6
urface Dressing (Double)	-2		and the second	936	0		(
arth Drain		12080.0	834	120	10,074,720		11,524,320
arth Drain in Swamp (by machine)	• • 3		1,144	476	0		
ipe Culvert D80ca			44,401	43,445	44,401	43,445	87,84
asonry Culvert (90x80cm)		0.0	55,350	37,949	0		. (
etaining Wall and Wing Wall (limber)	-2	. 0.0	12,615	246	0.	0	
etaining Hall and Wing Hall (Masonry)	#3	0.0	39,102	11,915	0	0	. (
abion Protection	∎3	0.0	8,729	121	. 0	Ó	199 (
ew Bridge (Timber)	SET	1.0	· · · ·		. 0	0	. (
en Bridge (Concrete)	SET	1.0	· · · ·		0	0	
		· . · · · ·	Sub Total		25,209,471	9,111,925	34,321,398
verhead (15%)			*	· · · · ·	3,781,420	1,366,788	5,148,208
							78.118.14
		• . •	TOTAL COST		28,990,891	10,478,713	39,469,604
			·	***********			
anual routine maintenance of road	. Ka	7.0	133,276	7,260	932,932	50,820	983,752
outine maintenance of gravel road	Ka	7,0		88,384	1,205,102		1,903,79
attic barrenance of grants root			Sub Total		-2,218,034		2,887,54
aintenance of limber Bridge (New)	• •2	0.0	8,201	1,233			-1
aintenance of Concrete Bridge (New)	#2	· · · .		2,792		0	. 1
aintenance of Timber Bridge (Exist)	•2			2,462	0	0	· ·
aintenance of Concrete Bridge (Exist)	a 2	0.0		2,404	. 0	0	· · · · ·
	· · ·		Earthwork &	Baugar-1 U.	ail Cort	De (Ka)	6 / 10 FI
			Earthwork a			Rp/Ka) s Rp/n21 s	5,638,51
			Concrete	•			
			Survived			Rp/#2) : (Rp) :	1 100 11
		- 	Maintenance			(%) :	2,600,32
			New Bridge		e er ruge	(7.)	7.3
			See of Luge	anar Hate		167	1.1

37-A-18 · .

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KAD : MUNA

ş

‡ Km

LINK NO : 65 (IIIC) LENGTH

SULAWESI TENGBARA

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

I.IEH			(((UND	COST >>>	(((((COST	>>>>>>
	UNIT	BUANTETY	LOCAL	FOREIGN	LOCAL	FOREIGH	JATOT
			*************			************	
lite Clearance in Light Bush	#2	3000.0	159	91	477,000	273,000	750,000
Subgrade Preparation	€ 2	0.0	20	ii	0	2731000	1001000
lornal Fill	R3	0.0	1,631	866	0	ů.	
ill in Swamp	e2	0.0	2 129	1,058	. 0	ů	
lormal Excavation to Spoil	a3	280.0	959	525	268,520	147,000	415,520
iub Rase Course	#3	286.0	3,090	1,355	883,740	387,530	1,271,270
ase Course	#3	240.0	4,244	2,310	1,018,560	554,400	1,572,960
ihoulder	· #2	2000.0		146	568,000	292,000	860,000
isphalt Fatching	. m2	0.0	3,579	1,383	0	2111000	0001000
Surface Dressing (Single)	#2	0.0	636	595	Ô.	Ő	
iurface Dressing (Double)	#2	0.0	784	936	0	Å	· · · ·
arth Drain		1940.0	834	120	1,617,960	232,800	1,850,760
arth Drain in Swamp (by machine)	₽ 3	0.0	1,144	476	19111100		110001100
ipe Culvert OBOca			44,401	43,445	44,401	43,445	87,84
lasonry Culvert (80x80cm)		0.0	55,358	37,949	0	10,113	1010
letaining Wall and Wing Wall (Timber)	»Z	0.0	12,615	246	ň	0	
Retaining Hall and Wing Hall (Hasonry)	n3	0.0	· · · · · · · · · · · · · · · · · · ·	11,915	Ő	, ů	
Babion Protection	n 3	0.0	8,729	121	ŏ	Ŏ	· · · · · (
lew Bridge (Timber)	SET	1.0			Ň		· · (
len Bridge (Concrete)	SET	1.0			0	· · · ·	
•						•	· · · ·
			Sub Total		4,878,181	1,930,175	6,808,358
Iverhead (15%)					731,727	289,526	1,021,25
			TOTAL CUST		5,609,908	2,219,701	7,829,605
anual routine maintenance of road	Kø	1.0	133,276	7,260	133,276	7,260	140,530
Boutine maintenance of gravel road	Kar	1.0	183,586	88,384	103,506	89,384	271,97
wathe wintenance of glover toou			Sub Total	00,001	316,862	88,384 95,644	412,50
aintenance of Timber Bridge (New)	m2	0.0	8,201	1,233	110100X 0	7J1017 0	121211
aintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792	0.	. 0	
aintenance of Timber Bridge (Exist)	n2	0.0	7,548	2,462	0	. V. A	
aintenance of Concrete Bridge (Exist)	#Z	0.0	3,919	2,404	ů i	0	· · · · · (
			Farthwork &	Pavenent Uni	t Cost (Rp/K	a) ,	7,829,60
			lisber		t Cost (Rp/m		1 facilos
			Concrete		t Cost (Ro/m		
			Survived	Value:	CCOSC SKD7# (Rp		500 60
				Rate without			50B,50
			New Bridge		orruge (x) {X}		5.23

PROV : SULAWESI TENGGARA H

KAB : MUNA

LINK NO : 61 (IIIC) LENGTH : 18 Km

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

	•				:		(Rp)
ITEN	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> Foreign		<	>>>>>> Total
			LUGHL	reacton		1060106	
						· · · ·	
Site Clearance in Light Bush	∎ 2	90000.0	159	91	14,310,000	8,190,000	22,500,000
Subgrade Preparation	.#2		20	11-	2,160,000		3,348,000
Vormal Fill	∎3	0.0	1,631	866			
Fill in Swamp			2,429	1,058	393,498	171,396	564,89
Normal Excavation to Spoil	สวี	882.0	959	525	845,838		1,309,88
Sub Base Course	₩3	11520.0	3,090	1,355	35,596,800		51,206,40
Pase Course	`#3.	0.0	4,244	2,310	0		
Shoulder	n 2	36000.0	284	146	10,224,000	5,256,000	15,480,00
Asphalt Patching	62	0.0	3,579	1,383	0	0	· · · •
Surface Dressing (Single)	#2	0.0	636	595	0	0	
Surface Dressing (Double)	#2·	0.0	784	936	0	0	
Earth Drain		35640.0	834	120	29,723,760	4,276,800	34,000,56
Earth Drain in Swamp (by machine)	A 3	720.0	1,144	476	823,680		1,166,40
Pipe Culvert D80cm		22.0	44,401	43,445	976,822		1,932,61
Masonry Culvert (80x80cm)	1 B.	0.0	55,359	37,949	O	0	
Retaining Wall and Wing Wall (Timber)	•2	0.0	12,615	216	. 0	0	н
Retaining Wall and Wing Wall (Masonry)	ø3.	0.0	39,102	11,915	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Gabion Protection	#3	0.0	8,729	121	0	0	
New Bridge (Timber)	SET	1.0	· · · •		98,658,374	11,523,436	110,181,81
New Bridge (Concrete)	SET	1.0			. 0		
				* a			•
en de la sete de la se		. *	Sub Total		193,712,772	47,976,792	241,687,56
Overhead (15%)					29,056,915	7,196,518	36,253,43
		•			100 310 101	SE 177 760	171 041 00
			TOTAL COST		222,769,697	55,173,310	.277,942,99
Manual routing maintenance of road	Ka	18.0	133,276	7,260	2,398,968	130,680	2,529,64
Routine maintenance of gravel road	KB	18.0	183,586	88,384	3,304,548		4,895,46
NUTLINE MAINTENNILE OF GLATEL FUED	Λ β	1010	Sub Total	1901	5,703,516		7,425,10
Naintenance of Timber Bridge (New)	a 2	840.0	8,201	1,233	6,989,940		7,924,56
Haintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792	010001010	· ·	111110
Haintenance of Timber Bridge (Exist)	n?	0.0		2,462	v G	-	
Haintenance of Concrete Bridge (Exist)	e2	0.0	3,719	2,404	0		
laintenance of concrete of tuge texist?	₩£		2111	2,101	· · · ·	· · ·	
			Earthwork &		nit Cost I	Rp/Kal :	8,401,86
and the second			linber	Bridge Un	nit Cost 🛛	Rp/n2} :	150,84
						- · · · ·	
			Concrete		vit Cast 🛛	Rp/#2) :	
			Sur vi ved	Value		Kp/ø2) : (Rp) :	20,482,56
		· · .	Sur vi ved	Value Rate without			20,482,56 4.9 45.5

37-a-20

PROV SULAWESI TENGGARA KAÐ MUNA

LINK NO 62 (IIIC) LENGTH ie. 4 1: in

UPERADE 6.0m road bed, 3.5m road with surface Subbase Cource

(Rp) I T E N <<< UNIT COST >>> COST)))))) ((((((UNIT QUANTITY LOCAL FOREISN LOCAL FORE 1GN TOTAL Sile Clearance in Light Bush •2 0.0 159 91 ÷0 0 - 0 ie H Subgrade Preparation 18000.0 a7 20 360,000 198,000 558,000 Normal Fill สวี 0.0 1.631 866 . . 0 . 0 ··· • • Fill in Swamp a3 0.0 2,429 1,058 0 0 Û Normal Excavation to Spoil 959 n3 487.0 467,033 525 255,675 722,708 Sub Base Course жJ 1753.5 3,090 1,355 5,418,315 2,375,992 7,794,307 Pase Course ø3 210.0 4,244 2,310 891,240 485,100 1,376,340 Shoulder 4,300,000 10000.0 284 2,840,000 a2 146 1,460,000 Asphalt Fatching **a**2 010 3,579 1,383 0 0 0 Surface Dressing (Single) •2 0.0 636 595 0 0 Û. Surface Dressing (Double) 784 #Z 0.0 936 0 0 û Earth Drain 7440.0 834 120 6,201,960 892,800 7,097,760 Earth Drain in Swamp (by machine) 476 1,144 #3 0.0 - 0 ា Û Pipe Culvert D80ca 488,411 11.0 44,401 43,445 477,895 966,306 . Masonry Culvert (80x80cm) 55,358 0.0 37,949 Ô 0 4 0 Retaining Wall and Wing Wall (Timber) 0.0 12,615 246 a2 Û 0 ۵ Retaining Wall and Wing Wall (Masonry) ω3 0.0 39,102 11,915 Q 0 0 Gabion Protection 0.0 121 **a**3 8,729 a A A 31,350,630 New Bridge (Timber) SET 1.0 --27,936,590 3,414,040 New Bridge (Concrete) ----SET 1.0 --Ô Û 0 Sub Total 44,606,549 9,559,502 54,166,051 Overhead 6,690,982 (15%) 1,433,925 8,124,907 TOTAL COST 51,297,531 62,290,958 10,993,427 533,104 Hanual routine maintenance of road K a 4.0 133,276 7,260 29,040 562,144 734,344 Routine maintenance of gravel road 4.0 103,586 88,384 353,536 1,087,880 Kn Sub Total 1,267,449 382,576 1,650,024 1,771,416 Naintenance of Timber Bridge (New) 216.0 8,201 1,233 266,328 2,037,744 ₽Z 1,857 • _ 0 2,792 0 Haintenance of Concrete Bridge (Hew) 0.0 ٥ в2 2,462 **û** Naintenance of Timber Bridge (Exist) **s**2 0.0 7,640 - AT 2,404 Naintenance of Concrete Bridge (Exist) 3,919 A Ô. •2 0.0

> Earthwork & Pavement Unit Cost (Rp/Km) 6,559,434 : limber Pridge Unit Cost (Ro/#21 166,913 1 Concrete Ðridge Unit Cost {Rp/m2} ŧ Survived (Rp) 3,117,722 Value 1 Naintenance Rate without Bridge (7,) 6.29 : New Bridge Cost Rate (7,) 57.88

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PROV : SULAWESI TENGGARA

KAB I MUNA

LINK NO : 60 (IIIC) LENGTH : 19 Km

UPGRADE : 0.0m road bed, 4.0m road with surface Subbase Cource (Rp)

IIEN IT I	· . ·			COSI >>>	(((>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	T I KU	QUANTITY	LOCAL	FORELGN	LOCAL	FOREIGN	TOTA
Site Clearance in Light Bush	#2	0,0	159	91	0	0	1
Subgrade Preparation	#2	6318.0	20	11	126,360	69,498	195,85
Rormal Fill	#3	0.0	1,631	866	Q	0	
Fill in Swamp	#3	1450.8	2,429	1,058	3,523,993	1,534,946	5,058,93
Normal Excavation to Spoil	-#3	0.0	759	525	· · · · 0	0	
Sub Base Course	·	1248.4	3,090	1,355	3,857,556	1,691,582	5,549,13
Rase Course	#3	4560.0	4,244	2,310	19,352,640	10,533,600	29,886,24
Shoulder	12	76000.0	284	146	21,584,000	11,096,000	32,680,00
Asphalt Patching	#2	0.0	3,579	1,383	0	0	
Surface Dressing (Single)	•2	0.0	636	595	0	0	· · ·
Surface Dressing (Double)	»2	0.0	784	936	0	0	
Earth Drain		0.0	834	120	0	0	
Earth Drain in Swamp (by machine)	. #3	4680.0	1,144	476	5,353,920	2,227,680	7,501,60
Pipe Culvert DBOca			44,401	43,445	0	1,11,1000	
Hasonry Culvert (80x80cm)		0.0	55,358	37,949	ů.	0	at the
Retaining Wall and Wing Wall (Timber)	2		12,615	246	. 0	· · · · · · · · · · · · · · · · · · ·	
Retaining Wall and Wing Wall (Masonry)	#3	0.0		11,915	0	. · v.	
Gabion Protection	#3 #3			-	0	· ^	÷.,
		0.0	8,729	121	. U		
New Bridge (fisber)	SEI	1.0			V.	U A	
New Bridge (Concrete)	SEI	1.0			ţ)	0	
			Sub Total		53,798,469	27,153,306	80,951,77
Overhead (15%)	۰.			· · · ·	0 0/0 170	1 A13 DDE	10 141 3/
nAstusad 1 137 1		· · ·			0,069,770	4,072,995	12,112,76
and the second			TOTAL COST		21 0/D 570	71 226 701	
	1.		TOTHE COST		61,860,239	31,226,301	93,094,54
lanual routine maintenance of road	Ka	19.0	,	7,260	2,532,244	137,940	
Routine maintenance of gravel road	· Ka	19.0		88,384	3,488,134	1,679,296	5,167,43
			Sub Total		6,020,378	1,017,236	7,837,61
Maintenance of Timber Bridge (New)	n 2	0.0	8,201	1,233	0	0	
Haintenance of Concrete Bridge (New)	s2	0.0	1,857	2,792	0	0	
Naintenance of Timber Bridge (Exist)	" # 2	464.0	7,649	2,462	3,548,672	1,142,368	4,691,04
Maintenance of Concrete Bridge (Exist)	a2	0.0	3,919	2,404	0	0	
***************************************						**************	
			Earthwork & I	Payesent IIn	nit Cast (Rr	(Ku) :	4,899,71
)/m2) :	101111
				orsoge on Value	•		3 310 / E
		:	Naintenance			•	2,219,65
·		· · ·	New Bridge		-	(X) : · (X) :	8,4
						[2] :	

SULAWESI TENGGARA PROV 3 KAB : MUNA LINK NO 2 59 (IIIC) LENGTH : 20 Ka UPGRADE

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

1 T E H					***********			********	(p)
	WHI	QUANTITY	{{{ UN] Local	EOST >>> Foreign		(((((AL	EOST FOREIGN	//// TO	>> MAR
		**********		·····	*				
lite Clearance in Light Bush	a2	32000.0	.166		E 465 /				
Subgrade Preparation	62	120000.0	159 20	91	5,088,0		,912,000	8,000,	
lornal Fill	a3	0.0	1,631	11	2,100,0	-	,320,000	3,720,	
ill in Swamp	a3	211.5		866 1,058	171	0	0		
lorsal Excavation to Spoil	•3	995.0	2,429 959	525	-674,0		293,595	967,	· .
Sub Base Course	ča ča	11200.0	3,090	1,355	954,5		522,375	1,476,	
lase Course	#3	0.0	4,244		34,608,0		,176,000	49,784,	•
ihoulder	#2	50000.0	284	2,310	12 000 /	0	0		
Isphalt Patching	AZ	.0.0		146	14,200,0	100 1	,300,000	21,500,	100
Surface Dressing (Single)	#Z	.0.0	3,579	1,383		U	U		
Surface Dressing (Double)	#2	0.0	636	595		U .	0		
arth Drain			784	936	A3 (60)	0 	. U.		
arth Drain in Swamp (by machine)	я в3	33200.0	834	120	27,699,1		,984,000	31,672,	•
ipe Culvert D80ca			1,144	476	343,		142,800	486,	
lasonry Culvert 180x80cm)	8	18.0	44,401	43,445	799,		782,010	1,581,	, 22
letaining Wall and Wing Wall (limber)	- 1	0.0	55,358	37,949	5	0	0		
	#2	0.0	12,615	: 246	· · ·	0	• 0		
Relaining Wall and Wing Wall (Masonry)	RJ	0.0	39,102	11,915		0	0		
iabion Protection	a3	0.0	8,729	121	1.14	0	• 0		
lem Bridge (limber)	SET	1.0		**		0	0		
lew Bridge (Concrete)	SET	1.0			· ·	0	0		
			Sub Total		86,755,	170 32	432,780	119,188,	,25
verhead (152)					13,013,	320 4	,864,917	17,878,	2
			TOTAL COST		99,768,1	790 . 37	,297,697	137,066,	,4
						·····			
anual routine saintenance of road	Ka V-	20.0	133,276	7,260	2,665,		145,200	2,810,	
coutine maintenance of gravel road	K	20.0	183,596 Cub : Jakat	88,384	3,671,		1767,680	5,439,	
Vintering of Linky Deider (New)	_ 7	^ ^	Sub Totai	1 977	6,337,		,912,880	8,250,	, I
aintenance of Timber Bridge (New)	#2	0.0	8,201	1,233		0	0		
aintenance of Concrete Bridge (Nex)	#2 -7	0.0	1,857	2,792		0			
aintenance of Timber Bridge (Exist)	. #Z	0.0	7,648	2,462		0	U A		
aintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404	$1 > t^{-1}$	V .	, V	•	
·····									
			Earthwork &			(Rp/Ka)		6,853,	,3
			lisber		lait Cost	(Rp/m2)			
			Concrete	· •	lait Cost	(Rp/a2)	ţ		
			Survived	Yalue	÷ .	(Rp)	;	19,913,	,6
			Haintenance		l Bridge	(7.)	1	÷	6.(
			New Bridge	Cost Rate		(7.)	;		

SULAWESI TENGBARA : 51 (111C)

KAB MUNA 1

LENGTH :

LINK NO 😐

UPBRADE : 7.0m road bed, 4.0m road with surface Subbase Cource (Rp)

-15 Km

ITEN	UNIT	QUANTITY	<<< UNIT	COST >>> Foreign	<<<< Local	< COST FOREIGN	>>>>>> Tota
Site Clearance in Light Bush	∎2	0.0	159	91	0	0	
Subgrade Preparation	=2	and the second second	20	11	2,100,000	1,155,000	3,255,00
Yormal Fill	#3	0.0	1,631	866	.,n	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Fill in Swamp	R3	0.0	2,429	1,058	· .		
Normal Excavation to Spoil	a 3	744.0	959	525	713,496	390,600	1,104,04
Sub Base Course	#3		3,090	1,355	29,664,000	13,008,000	42,672.0
Aase Course	· #3	0.0	4,244	2,310		1010001000	
Shoulder		45000.0	284	146	12,780,000	6,570,000	19,350,0
Asphalt Patching	n2	0.0	3,579	1,393	1211001000	010/01000	11100010
Surface Dressing (Single)	#2	0.0	636	595	Ŷ Û	ň	
Surface Dressing (Double)	#2	0.0	. 784	936	. v	ů.	1
Earth Drain		5200.0	834	120	4,336,800	624,000	4,960,8
Earth Drain in Swamp (by machine)		0.0		476	1,000,000	001000	1,0010
Pipe Culvert DBOca	, M.S. M	0.0	44,401	43,445	. 0	י ה	
iasonry Culvert (80x80cm)		0.0	55,358	37,949	, v 0	۰ ۸	
Retaining Wall and Wing Wall (limber)	#2	0.0	12,615	246	. v	0	
Retaining Wall and Wing Wall (Masonry)	r Ea	0.0	37,102	11,915	·· · · ·	· 0	
abion Protection	69 B3	0.0	*	11,713	0	· •	
lew Bridge (Timber)	SET		0,729	121	, v	· · ·	
lew Bridge (Concrete)		1.0			· V	v	
ien biloge (Concrete)	SET	1.0			v		$(x^*)_{i\in \mathbb{N}} \to \mathbb{N}$
			Sub Total		49,594,296	21,747,600	71,341,8
Jverhead 15%					7,439,144	3,262,140	10,701,2
			TOTAL COST		57,033,440	25,009,740	82,043,1
						· · ·	1
lanual routine maintenance of road	Ke	15.0	133,276	7,260	1,779,140	108,900	2,108,0
coutine maintenance of gravel road	- Ku	15.0	183,586	88,304	2,753,790	1,325,760	4,079,5
		•	Sub Total		1,752,930	1,434,660	6,107,5
laintenance of Timber Bridge (New)	, # 2			1,233	0	0	1.
laintenance of Concrete Bridge (New)	n2	0.0	1,857	2,792	. 0	· 0	
laintenance of Timber Bridge (Exist)	n2	0.0	7,648	2,462	0	()	
aintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404	0	0	
							·
			Earthwork &	Payement Ur	nit Cost (Rp/	'Ka) t	5,469,5
			Tiaber		nit Cost (Ro/		
			Concrete		nit Cost (Ro/		
			Survived	Value	-	sz, i ip) :	17,069,8
· .				Rate without		·	7,
		e	New Bridge				
						·· ·	

37-a-24

R

SULAWESI TENGGARA KAB : MUNA

LINK NO : 50 (IIIE) LENGTH : 19 Km

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

ITEK		RUANTLEY		COST >>>			>>>>>
	• UNI f	RONKILLE	LOCAL	FORELON	LOCAL	FORELGN	TOTA
ite Clearance in Light Bush	- 7	10444					
ubgrade Preparation	#2	38000.0	159	.9L	6,042,000	3,459,000	9,500,00
ormal Fil)	₿2	114000.0	20	H	2,280,000	1,254,000	3,534,00
ill in Swap	#3	0.0	1,631	866	0	0	t e v
	R3	4725.0	2,429	1,058	11,477,025	4,999,050	16,476,07
ormal Excavation to Spoil	43	912.0	759	525	874,608	478,800	1,353,40
ub Rase Course	∎3	12160.0	3,090	J.355	37,574,400	16,476,800	54,051,20
ase Course	RŠ	0.0	4,244	2,310	0	0	
houlder	B 2	38000.0	284	146	10,792,000	5,548,000	16,340,00
sphalt Patching	B 2	0.0	3,579	1,303	0		
urface Dressing (Single)	s 2	0.0	636	595	0	0	
urface Dressing (Double)	B2	0.0	784	936	0		
arth Drain	- 1	33100.0	834	120	27,605,400	3,972,000	31,577,40
arth Drain in Swamp (by machine)	a 3	3000.0	1,144	476		1,428,000	4,860,00
ipe Culvert D80cm	5 g	0.0	44,401	43,445	0	0	1100614
asonry Culvert (80x80cm)		0.0	55,358	37,949	0	. 0	
etaining Hall and Hing Wall (limber)	»2	0.0	12,615	246	. 0	0	
etaining Wall and Wing Wall (Masonry)	#3	0.0	39,102	11,915	0		
abion Protection	#3	0.0			· · · · ·	· V.	
ew Bridge (Timber)	SET		8,729	121	U	0	
ew Bridge (Concrete)			· •••		40,412,378	4,220,680	44,633,05
en wildge wonvieler	SET	1.0			. 0	Û	
			Sub Total		140,489,811	41,835,330	182,325,14
verhead (15%)					21,073,471	6,275,299	27,348,77
· · · · · · · · · · · · · · · · · · ·							
			TOTAL COST		161,563,282	48,110,629	209,673,91
anual routine maintenance of road	Ks	19.0	133,276	7,260	2,532,244	137,940	2,670,16
outine maintenance of gravel road	Ka	19.0		88,384	3 489,134	1,679,296	5,167,43
			Sub Total		6 020 378	1,817,236	7,837,61
aintenance of Timber Bridge (New)	e2	416.0	8,201	1,233	3,411,616	512,928	3,924,54
aintenance of Concrete Bridge (Kew)	a2	0.0	1,857	2,792	0	0	
aintenance of Timber Bridge (Exist)	s2	9,0	7,648	2,462		Õ	1.1.1
aintenance of Concrete Bridge (Exist)	· #2	0.0	3,919	2,404	0	ð	
asintenance of dunchese of tuge scatter	ML					· V	
			.	n			
			Earthwork &				8,333,99
					nit Cost (Rp/e		123,38
-				•	nit Cost (Rp/s		
			Survived	Value	(Rg) :	21,620,48
			Maintenance	Rate without	t Əridge (%) (%)		4,9

FROV :

40 : 47 (IIIC)

SULAWESI TENGGARA

Kab 🧯 Muna

7 Km

LINK NO

UPGRADE : 8.0m road bed, 4.0m road with surface Subbase Cource

LENGTH :

ITEH	UNIT	QUANTERY		COST >> Foreign		COST FORELGN	<<<<<>

ite Clearance in Light Bush	#2	0.0	159	91	0	0	
ubgrade Preparation	. .	56000.0	20	. 11	1,120,000	616,000	1,736,00
ormal Fill	a3	0.0	1,631	866		0	
ill in Swamp	÷3	0.0	2,429	1,059		0	
ormal Excavation to Spoil	e3	480.0				252,000	712,32
nb Base Course	•3	4480.0	3,090	1,355			19,913,60
ase Course	63		··· 4,244 ·	· · ·			
houlder	•2	28000.0	284	146		4,088,000	12,040,00
sphalt Patching	•2	0.0	3,579	1,383	• • •) . 0	
urface Dressing (Single)	s2	0.0	636	595			
urface Dressing (Double)	#2.		784	936) 0	
arth Drain		6600.0	834			792,000	6,296,40
arth Drain in Swamp (by machine)	e3	0.0	1,144	476			-1
ipe Culvert DBOcm		0.0	44,401				
asonry Culvert (80x80cm)		0.0	55,358	37,949		, ÷ 0	
etaining Hall and Wing Wall (limber)	#2	0.0		246		, , , , , , , , , , , , , , , , , , ,	
etaining Wall and Wing Wall (Hasonry)	#J.		39,102	11,915		, ν 1 Δ	
abion Protection	#3	0.0	B,729				
ex Bridge (Timber)	SET	1.0	0(12)		15,856,820	2,016,744	17,873,5
en Bridge (Concrete)	SET	1.0			1010001020). () () ()	1101010
			Sub Total		44,736,740	13,835,144	58,571,8
verhead (15%)		.1			6,710,511	2,075,271	8,785,71
		:	TOTAL COST		51,447,251	15,910,415	67,357,60
nual routine maintenance of road	Ka	7.0	133,276	7,260	932,932	50,820	983,7
utine maintenance of gravel road	K	7.0	183,586	88,384			1,903,7
			Sub Total		2,218,034		2,667,5
intenance of Timber Bridge (New)	s2	108.0	8,201	1,233			1 018,8
intenance of Concrete Bridge (New)	#2		1,857	2,792		0	10001
aintenance of Timber Bridge (Exist)	#2	0.0	7,648	2,462		0	
intenance of Concrete Bridge (Exist)	· #2	0.0	3,919	2,404		0	
	••		· · · · · · · · · · · · · · · · · · ·				
			Earthwork &	Pavegent	Unit Cost (Rp/Ke) :	6,686,1
			linber		· · · · ·	Rp/m21. t	190,3
						Rp/a2i ;	110491
		1	Survived	-		(Rp) :	7,965,4
			Maintenance		ut. Bridaa	{7}	6.

PROV :

Kari Muna

NK ND : 39 (111B-2)

SULAWESI TENGGARA

LENGTH : 5 Km

UPGRADE : 9.0m road bed, 4.0m road with surface Base Cource

	UNIT.	QUANTITY		COST >>> Foreign	>> Local	<<<< COST FOREIGN	
		********			LUGHL	FUNEION	101/
ite Clearance in Light Bush	#2	0.0	. 159 -	91	0	0	
ubgrade Preparation	#2	45000.0	20	a	900,000		1,395,00
ormal Fill	# 3	0.0	1,631	866	. 0	• •	
ill in Swamp	a 3	0.0	2 429	1,059	0	0	
ormal Excavation to Spoil	ø3	688.0	959	525	659,792		1,020,9
ub Base Course	e3	2800.0	3,090	1,355	8,652,000		
ase Course	8 3	1200.0	4,241	2,310	5,092,800		7,854,80
houlder	B2	25000.0	284		7,100,000		
sphalt Patching	#2	0.0	3,579	1,383			
urface Dressing (Single)	a 2	0.0	636	595	(
urface Dressing (Double)	# 2	0.0	784	936	ů Ú		111
arth Drain	2	0.0	834	120	0	0	
arth Drain in Swamp (by machine)	#3	0.0	1,144	476		0	
ipe Culvert D80ce		6.0	44,401	43,445	266,406		527,0
asonry Culvert (80x80cm)		0.0	55,358	37,949	-1001400 0		
etaining Hall and Wing Hall (Timber)	#2	0.0	12,615	246	0		
etaining Wall and Wing Wall (Masonry)	43 43	0.0	39,102	11,915		.0	
abion Protection	. aJ	0.0	9,729	11,113	u (U U	
ew Bridge (Timber)	SET	1.0	01121		•	•	· .
ex Bridge (Concrete)	SET	1.0			. 0	V V	
en brittige touncreter	JCI	1.0	· ·		(V V	
			Sub Total		22,670,998	11,332,870	34,003,8
verhead (15%)					3,400,649	1,699,930	5,100,5
			TOTAL COST		26,071,647	13,032,800	39,104,4
				:	•. •		
anual routine maintenance of road	Kr	5.0	133,276	7,260	666,380	36,300	702,6
outine maintenance of gravel road	Ka	5.0	183,596	88,384	917,930		1,359,8
			Sub Total		1,584,310	478,220	2,062,5
aintenance of Timber Bridge (New)	#2	0.0	8,201	1,233	0	0	
aintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792	0	1. 0	·
aintenance of limber Bridge (Exist)	R2	140.0	7,648	2,462	1,070,720	344,680	1,415,4
aintenance of Concrete Bridge (Exist)	#2	0,0	3,919	2,404	0	0	
				· · · · · · · · · · · · · · · · · · ·			
				Pavement Un		Rp/Ka) ;	7,820,8
			linber	· · · ·		Rp/m21 :	
			Concrete	Bridge Un	it Cost 🛛 (Rp/#2) :	
			Survived	Value		(Rp) :	6,223,0
				Rate without	8r i dge	(1) :	5.3
			New Bridge	Cost Data		(%) ;	

PROV :

KAB 😨 MUNA

LINK NO : 38 (TT1B-2) LE

SULAWESI TENGGARA

LENGTH : 4 Km

UPBRADE : 9.0m road bed, 4.0m road with surface Base Cource

I T E N	UNIT	QUANTITY	COCAL	COST >>> FOREIGN		K COST Foreign	>>>>>>> TOTAL

ite Clearance in Light Bush	s2	0.0	159	91	. 0	0	. t. a
Subgrade Preparation	∎2	36000.0	20	19 - A 👪	720,000	396,000	1,116,000
lormal Fill	#3	0.0	1,631	866	0	0	0
ill in Swamp	# 3	308.1	2,429	1,050	942,694	410,609	1,353,303
lormal Excavation to Spoil	#3	340.0	9 59	525	326,060	178,500	504,560
ub Base Course	R3	2240.0	3,090	1,355	6,921,600	3,035,200	9,956,800
ase Course	m3 .	960.0	4,244	2,310		2,217,600	6,291,840
houlder	ie2	20000.0	284	146	5,680,000	2,920,000	8,600,000
sphalt Patching	. eZ	0.0	3,579	1,383	0	0	
urface Dressing (Single)	. a2	0.0	636	595	0	0	. 0
urface Dressing (Double)	#2	0.0	784	.936	0	0	
arth Drain	Ē	0.0	B34	120		. 0	(
arth Drain in Swamp (by machine)	a 3	600.0	6.64	476	686,400	285,600	972,000
ipe Eulvert D80cm		1.0	44,401	43,445	44,401	43,445	87,816
asonry Culvert (80x80cm)			55,358	37,949	0	0	
etaining Wall and Wing Hall (limber)	#2	0.0	• .	246	- Ŭ	· · 0	· · · · · ·
etaining Hall and Wing Wall (Hasonry)	e3	0.0	39,102	11,915	Ň	. v	
abion Protection	#3		8,729	121	ů 0	0	
en Bridge (linber)	SET	1.0			0		· č
en Bridge (Concrete)	SET	1.0	'		Û	: 0	· · · · · (
			Sub Total	· · ·	19,395,395	9,486,954	28,882,341
verhead (15%)					2,909,309	1,423,043	4,332,35
					1		
			TOTAL COST		22,304,704	10,909,997	33,214,70
······			******			••••••••••••••••••••••••••••••••••••••	
anual routine maintenance of road	Kn	4.0	133,276	7,260	533,104	29,040	562,144
outine maintenance of gravel road	Ka	4.0	103,586	88,384	734,344	353 536	1,087,88
			Sub Total		1,267,449	382,576	1,650,02
aintenance of Timber Bridge (New)	#2		8,201	1,233	0	0	. I
aintenance of Concrete Bridge (New)	я2		1,957	2,792	0	0	
aintenance of Timber Bridge (Exist)	м2		7,648	2,462	152,960	49,240	202,20
aintenance of Concrete Bridge (Exist)	\$2	0,0	3,919	2,404	0	0	I
			•••••••		*************		
	· .		Earthwork &	Pavenent	nit Cost (Rp/	Ka) :	8,303,67
					nit Cost (Rp/		-1
					nit Cost (Rp/		
			1	Value .	(8		4,978,40
			Haintenance.				4.9)
			New Bridge		(X		7.7.

: SULAWESI TENGGARA KAB ; PROV MUNA

LINK ND : 37 (IIIB-1) LENGTH : 7 Km

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

ATEN ANTALA	UNIT	QUANTITY	COCAL	COST >>> Foreign	<<< LOCAL	COST FOREIGN	>>>>>>
						CURCION	TOTA
Site Clearance in Light Bush	- 6						:
Subgrade Preparation	#2	3000.0		91	477,000	273,000	750,00
Norgal Fill	■2	49000.0	20	. 11	780,000	539,000	1,519,00
· · · · · · · · · · · · · · · · · · ·	#3	0.0	1,631	866	. 0.	0	-
Fill in Swamp Normal Examples to Court	_ # 3	0.0	2,429	1,058	0	0	
Normal Excavation to Spoil	#3	1058.0	959	525	1,012,704	551,400	1,567,10
Sub Base Course	สวั	3920.0	3,090	1,355	12,112,800	5,311,600	17,424,40
Base Course	a3	1960.0	4,244	2,310	8,318,240	4 527 600	12,815,84
Shoulder	# 2	21000.0	284	146	5,964,000		9,030,00
Asphalt Patching	n2	0.0	3,579	1,383	0	0	.1000100
Surface Dressing (Single)	b 2	28000.0	636	595	17,808,000	16,660,000	34,468,00
Surface Dressing (Double)	#2	0.0	784	936	A 1200 1000	V 10001000	ססופטרויס
Earth Drain		0.0	834	120	0		1
Earth Drain in Swamp (by machine)	a3	0.0	1,144	476		U A	
Pipe Culvert D80cm		11.0	44,401	43,445	488,411	417 805	011 70
Hasonry Culvert (80x80cm)		0.0	55,358	37,949	111,00P	477,895	966,30
Retaining Wall and Wing Wall (Timber)	•2	0.0			•	. 0	÷.,
Retaining Wall and Wing Wall (Masonry)	a3	0.0	12,615	246	0	. 0	
Gabion Protection	a3		39,102	11,915	0		
New Bridge (Timber)		0.0	8,729	121	0	0	· · ·
New Bridge (Concrete)	SET	1.0			0	. 0	
NEW BLIDDE (COUCLECE)	SET	1.0			. 0	. 0	
			Sub Total		47,161,155	31,409,495	78,570,65
Overhead (15%)					7,074,173	4,711,424	11,785,59
			TOTAL COST		54,235,328	36,120,919	90,356,24
***************************************						aler die Sie fen die In. die aler aler ale ale die aler aler aler	
Manual routine maintenance of road	Ka	7.0	133,276	7,260	932,932	50,820	983,75
Routine maintenance of asphalt road	Ke	. 7.0	357,900	139,300	2,505,300	968,100	3,473,40
			Sub Total		3,438,232	1,018,920	4,457,15
laintenance of Timber Bridge (New)	∎2	0.0	8,201	1,233	0	0	
Maintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792	. 0	0	-
Maintenance of Timber Bridge (Exist)	n2	68.0	7,648	2,462	520,064	167,416	687,48
Maintenance of Concrete Bridge (Exist)	*2	0.0	3,919	2,404	Q	0	
			Earthwork &			p/Km) :	12,908,03
						p/a2) :	
						p/#2) :	
			Survived	Value		(Rp) 1	14,766,24
			Naintenance	Rate without	Bridge	(%) :	4.9
			New Bridge	Enst Bate		(%) :	

PROY

:

KAB : MUNA

LINK NO : 36 (IIIB-1) LENGTH : 8 Km

SULAWESI TENGGARA

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

ITEN	1111T	QUANTITY		COST))) FOREIGN	>> Local	<<<< COST Foreign	>>>>> Total
			Cont.	FUIL FOI			***************************************
Site Clearance in Light Bush	6 2	0.0	159	91	Ö		desert (
Subgrade Preparation	# 2	63000.0	20	11 - 11	1,260,000	693,000	1,953,000
Normal Fill	.43	0.0	1,631	865	0	0	
Fill in Swamp	÷ #3	.0.0	2,429	1,058	0	0	
Normal Excavation to Spoil	• • 3	1008.0	959	525	965,672	529,200	1,495,87
Sub Base Course	∎3	4084.0	3,090	1,355	12,619,560		18,153,38
Base Course	e3	2240.0	4,244	2,310	9,506,560		14,680,96
Shoul der	#2	40000.0	284		11,360,000		
Asphalt Patching	a2	0.0	3,579	1,383	0		(
Surface Dressing (Single)	•2	32000.0	636	595	20,352,000		39,392,000
Surface Dressing (Double)	e2	0.0	784	936	0	-	
Earth Drain	1	3600.0	834	120	3,002,400	-	3,434,400
Earth Drain in Swamp (by machine)	a3	0.0	1,144	476	0,111,110	0	
Pipe Culvert DBOc.		0.0	44,401	43,445	0	0	
Nasonry Culvert (80x80ce)	-	0.0	55,358	37,949	. 0	, î	í
Retaining Wall and Wing Wall (Timber)	· •2	0.0	12,615	246	ň	0	
Retaining Wall and Wing Wall (Masonry)	23	0.0	39,102	11,915	. 0	. 0	
Babion Protection	#3	0,0	8,729	11,710	0	. Ó	
New Bridge (Timber)	SET	1.0	-+	 121	14,019,261	1,483,048	15,502,30
New Bridge (Concrete)	SET	1.0			1410111201		101202100
			Sub Total		73,088,453	38,725,468	111,011,92
Overhead (15%)					10,962,967	5,808,820	16,771,78
		· · · ·	TOTAL COST		81,019,420	44,534,288	128,583,70
Nanual routine maintenance of road	Ke	8.0	133,276	7,260	1,066,208	58,080	1,124,28
Routine #aintenance of asphalt road	K	8.0	357,900	(38,300	2,863,200		3,969,60
		•••	Sub Total		3,929,408		
Maintenance of Timber Bridge (New)	#2	144.0	8,201	1,233	1,180,944		1,350,47
Maintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792	0	-	13000317
Haintenance of Finber Bridge (Exist)	92	112.0	7,648	2,462	856,576	•	1,132,32
Haintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404	0001010	•	1102104
		•	Earthwork &			Rp/Ka) :	13,844,50
			Timber			Rp/m2) :	123,80
			Concrete		it Cost I	Rp/a2) s	
			Survived	Value		(Rp) :	15,643,55
				Rate without	Bridge	(%) :	4.6
			New Bridge	Cost Rate		(7) ;	13.8

КАР 1 MUNA.

LINK ND : 34 (IIIB-1) LENGTH :

: SULAWESI TENGGARA

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

I T E H	100.1 T	QUANTITY		COST >>>		<i>(((((</i>	COST	>>>>>>
		ADHUITA	LOCAL	FOREIGN	LOC	AL	FORELGN	101/
the Character in Links Out				1 - C	:			
ite Clearance in Light Bush	N2		159	91		0	Q .	
ubgrade Preparation	•2		20	11	2,100,0	100	1,155,000	3,255,00
ormal Fill	#3	0.0	1,631	866		Ö	0	
ill in Swaep	a3	72.0	2,429	1,058	174,6	88	76,176	251,0
ormal Excavation to Spail	#3	1704.0	959	525	1,634,1		874,600	2,528,7
ub Pase Course	n 3	8400.0	3,090	1,355	25,956,0		1,382,000	37,338,0
ase Course	n3	4200.0	4,244	2,310	17,824,8		7,702,000	27,526,8
houlder	#Z	45000.0	284	146	12,780,0		6,570,000	19,350,0
sphalt Patching	#2	0.0	3,579	1,303			0	
urface Dressing (Single)	∎2	60000.0	636	595	38,160,0		5,700,000	73,860,0
urface Dressing (Double)	#Z	0.0	784	936			0	
arth Drain	9	3000.0	834	120	2,502,0		360,000	2,862,
arth Drain in Swamp (by machine)	n3	180,0	1,144	476	205,9		85,680	291
ipe Culvert D80cm		0.0	44,401	43,445		.0	001000	c, i j
asonry Culvert (80x80cm)		0.0	55,358	37,949		0	0	
etaining Hall and Hing Hall (Timber)	a 2		12,615	246		0	Ň	· .
etaining Hall and Wing Wall (Hasonry)	#3	0.0	39,102	11,915	· · · :	Δ	0	
abion Protection	#3		8,729	121	÷.,	0	v ۵	
ew Bridge (Timber)	SET	1.0			21,671,4		V 1 041 450	54 612
ew Bridge (Concrete)	SET	1.0			21301114	0	2,842,420	24,513,
	VL)					V .	i y v	
		:	Sub Total		123,009,1	45 8	8,767,876	191,777,0
verhead (15%)					18,451,3	1	0,315,181	28,766,
			TOTAL COST		141,460,5	116 7	9,083,057	220,543,5
***************************************				· · · · · · · · · · · · · · · · · · ·				
anual routine maintenance of road	Ka	15.0	133,276	7,260	1,999,1	40	108,900	2,108,
outine maintenance of asphalt road	Ke	15.0	357,900	138,300	5,369,5		2,074,500	7,443,
			Sub Total		7,367,6		2,183,400	9,551,
aintenance of Timber Bridge (New)	a2	136.0	8,201	1,233	1,115,3		167,688	1,283,
aintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792		0	. 0	• •
aintenance of Timber Bridge (Exist)	#2	80.0	7,648	2,462	611,8	40	196,960	808,
aintenance of Concrete Bridge (Exist)	•2	0.0	3,919	2,404		0	0	
			Earthwork &	Pavegent th	nit Cost	(Rp/Ka	1. 1	12,823,
			Tinber		nit Cost	(Rp/m2		207,1
			Concrete	•	nit Cost	(Rp/a2		
			Survived	Value		(Rp)	· ·	31,641,9
			Haintenance		Reidan	(%)	1	51j01151 4.
			mannenance	HALE ALTHOU	r ni i aye	101		11

PROV : SULAWEST TENGGARA KAB : MUNA LINK NU : 32 (IIIB-1) LENGTH : 19 Km

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

ITEN .	UNIT	QUANTITY	<<< UNI Local	T COST >>> Foreign) << Local	<<<< COST FORELGN)))))) Totai
Site Clearance in Light Bush	n 2	0.0	159	91	: 0	i	
Subgrade Preparation	a2	123500.0	20	11	2,470,000	1,358,500	3,828,50
lorsal Fill	# 3	0.0	1,631	866	C	0	. i i i
ill in Swamp	e3	0.0	2,429	1,058	0	0	an a fa dh
ormal Excavation to Spoil	· #3	1900.0	959	525	1,726,200	945,000	2,671,20
Sub Base Course	a 3	10540.0	3,090	1,355	32,877,600		47,294,80
lase Course	#3	5320.0	4 244	2,310	22,578,080		
ihoulder	÷	47500.0	284	146	13,490,000		20,425,00
isphalt Fatching	. #2	0.0		1,383	(
Surface Dressing (Single)	n 2		636	595	48,336,000		93,556,000
Surface Dressing (Double)	#2	0.0	784	936	() 0	
arth Drain		10000.0	834	120	6,340,000	1,200,000	9,540,00
arth Drain in Swamp (by machine)	•3	. 0.0	1,144	476		1,200,000	11010100
pe Culvert D80cm		0.0	44,401	43,445	С		
lasonry Culvert 180x80cm)		0.0	55,358	37,949			
Retaining Wall and Wing Wall (limber)	e2		12,615	246			
letaining Hall and Wing Wall (Hasonry)	#Z #3				. u	i 1	
			39,102	11,915	0	· · ·	
Sabion Protection	e3 arr	0.0	8,729	121) 200 540 0		16 SPT 17
len Bridge (Tinber)	SET	1.0			8,947,890	1,107,260	10,055,15
lew Bridge (Concrete)	SET	1.0			Ų	U U	
		. *	Sub Total	,	138,765,770	83,472,160	222,237,93
verhead (15%)			• •		20,814,865	12,520,874	33,335,68
· · · ·			TOTAL COST		159,580,635	95,992,984	255,573,61
	~						
anual coution minteriors of cont	٧.,	10.0	177 977	3 2/0	0 674 AJ	177 040	2 170 10
anual routine maintenance of road	Ke		133,276	7,260	2,532,244		2,670,18
nutine maintenance of asphalt road	' Kn	19.0	357,900	138,300	6,800,100		9,427,80
sistensors of Timber Oridan (Vau)	• 1	71. ^	Sub Total	1 777	9,332,344		12,097,98
aintenance of Timber Bridge (New)	*2		8,201	1,233		•	716,98
laintenance of Concrete Bridge (New)	#2	0.0	1,957	2,792			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
laintenance of Tinber Bridge (Exist)	#2		7,648	2,462			· · ·
aintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404	0	Q .	
			Earthwork &	Paveaont U	hit Cost 3	Ro/Ka) :	12,842,64
			linber			f(p/m2) :	12,012,01
			Concrete			Rp/m21 :	104/13
· .			Survived	Value u	mit 6051 5		10 070 01
· · · · · ·			Haintenance		e Deidaa	(Rp) :	10,079,81
			New Bridge		ir orrođe	(X) :	4.9
			nen orrode	605C KALE		(%) :	4.5

KAB : MUNA

LINK NO : 28 (IIIB-2) LENGTH :

I SULAWESI TENGGARA

6 Km

UPGRADE

: 8.0m road bed, 4.0m road with surface Base Cource

(Rp)

	*******	*********				4 M	(Rp)
LTEN	111144			COST >>) ((<<<< cost	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	TIKU	QUANTERY	LOCAL	FORELON	LOCAL	FOREIGN	IOTA
Sile Clearance in Light Bush	a2	0.0	159	91	. 0	0	
Subgrade Preparation	• B2	8000.0	20	- 11			248,00
Normal Fill	•3	0.0	1,631	866			240100
Fill in Swamp	#3	0.0	2,429	1,058			
Normal Excavation to Spoil	a3	152.0	959	525		-	225,56
Sub Base Course	m 3	1280.0	3,090	1,355			5,689,60
Pase Course	±3	1440.0	4,244	2,310			
Shoul der	∎2	24000.0	284				9,437,76
Asphalt Patching	eZ.	2400010		146			10,320,00
Surface Dressing (Single)	m2	0.0	3,579	1,383			
Surface Dressing (Double)	2		636	595	-		14 T
Earth Drain	-	0.0	784	. 936		-	· · · · · · · ·
	R	2000.0	834	120		•	1,908,00
Earth Drain in Swamp (by machine)	m 3	0.0	L ₁ 144	476			. 1
Pipe Culvert DBOcm		1.0	44,401	43,445	,	·· i 43,445	87,84
Masonry Culvert (80x80cm)	1	0.0	55,358	37,949	Q	0	÷ .
Retaining Wall and Wing Wall (Timber)	n2	0.0	12,615	246	0	0	
Retaining Wall and Wing Wall (Masonry)	∎3	0.0	39,102	11,915	i - Q	. 0	
Gabion Protection	њJ	0.0	8,729	121	5 C ()	•	
Hew Bridge (Timber)	SET	1.0	~~		0	0	
New Bridge (Concrete)	SET	1.0			0	. 0	÷
			Sub Total		18,900,729	7,016,045	27,916,77
Overhead (15%)					2,835,109	1,352,406	4,187,51
			TOTAL COST	н 	21,735,838	10,360,451	32,104,28
	·······		177 074		100 / 5/		
Nanual routine maintenance of road	Ka Va	6.0	133,276	7,260			843,21
Routine maintenance of gravel road	Ka	6.0	183,586	88,384			1,631,82
	-		Sub Total	2 5 1 1	1,901,172		2,475,03
laintenance of Timber Bridge (New)	#2	0.0	8,201	1,233			
laintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792			
laintenance of Timber Bridge (Exist)	₩2	56.0	•		•		566,16
faintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404	0	· · · 0	
			. 			14 14 44 45 14 14 14 14 14 14 14 14 14 14 14 14 14	
			Earthwork &	Pavezent	Unit Cost. (Rp/Kal :	5,350,71
			Tinber	Bridge	Unit Cost (Rp/#21 :	
			Concrete	Bridge	Unit Cost 👘 🕻	Rp/#2) :	
			Sur vi ved	Value		(Rp) :	2,844,80
			Naintenance		ut Bridge	(%) :	7.7
			New Bridge			(2) ;	

÷,

SULAWESI TENGGARA

MUNA КАВ -

25 (1110) LINK ND \$

LENOTH : 17 Km

6.0m road bed, 3.5m road with surface Subbase Cource (Rp) UFGRADE 2

ITEN CONTRACTOR	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> Foreign	VVVVV LOCAL	COST Foreign	>>>>>> 10ta

Gite Clearance in Light Bush	.m2	4000.0	159	91	636,000	364,000	1,000,00
Subgrade Preparation	#2	12000.0	20	11	240,000	132,000	372,00
lormal Fill	мJ	0.0	1,631	866	0	0	
Fill in Swamp	a 3	0.0	2,429	1,058	0	0	
Normal Exception to Spoil	e3	278.0	959	525	265,602	145,950	412,55
Sub Rase Course	#3	1513.4	3,090	1,355	1,676,406	2,050,657	6,727,06
Base Course	# 3	3150.0	4,244	2,310	13,369,600	7,275,500	20,645,10
Shoulder	•2	42500.0	284	146	12,070,000	6,205,000	18,275,00
Asphalt Patching	#2	0.0	3,579	1,383	0	0	
Surface Dressing (Single)	#2	0.0	636	595	0	0	
Surface Dressing (Double)	e2	0.0	784	936	Ô	0	
Earth Brain		5000.0	834	120	5,004,000	720,000	5,724,00
Earth Drain in Swamp (by machine)	a3	0.0	1,144	476	0		
Pipe Culvert DSOcm	91.7 B	0.0	44,401	43,445	· 0	0	
Masonry Culvert (80x80cm)		0.0	55,358	37,949	· 0	. V 0	•
Retaining Wall and Wing Wall (Timber)	•2	0.0	12,615	246	. 0	v	
		0.0			V .		
Retaining Wall and Wing Wall (Nasonry)	#J		•	11,915	0	v	
Sabion Protection	°∎3	0.0	8,729	121	v	U ·	
Yew Bridge (Timber)	SEI	1.0			U	V.	
lex Bridge (Concrete)	SET	1.0			Ų	V	11 - A
	*		Sub Total		36,261,608	16,894,107	53,155,71
Iverhead (151)					5,439,241	2,534,116	7,973,35
		·	TOTAL COST	:	41,700,849	19,426,223	61,129,07
				· • • • • • • • • • • • • • • • • • • •			
anual routine maintenance of road	Ke	17,0	133,276	7,260	2,265,692	123,420	2,389,11
coutine maintenance of gravel road	Ka	17.0	183,586	89,384	3,120,962	1,502,520	4,623,49
			Sub Tolal		5,386,654	1,625,948	7,012,60
laintenance of Timber Bridge (New)		0.0	8,201	1,233	0	0	
laintenance of Concrete Bridge (Hew)	₽2	0.0	t,857	2,792	0	0	
laintenance of Timber Bridge (Exist)	s7	126.0	7,649	2,462	963,640	310,212	1,273,86
laintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404	0	Q	
			Earthwork &	Pavenent Un	it Cost (Rp/)	(n) :	3,595,02
					it Cost (Rp/r		.1
					it Cost (Rp/)		
		•		Value on	ar ouse sppri {Rj		2,690,82
		1 A.		Rate without	Bridge {2)		
			New Bridge	Cost Rate	fridge (Z)		11.4
					1.5.	1	

PROV ų

Ì.

KAB : HUNA

LINK NO : : 22 (1110)

SULAWESI TENGGARA

LENGTH : 10 Km

UPGRADE : 7.5m road bed, 4.0m road with surface Subbase Cource (Rp)

****								(Rp)
1TEH		·	(((UN1)	T COST >>	>	(((((CUST	·////
	UNIT	QUANTITY	LOCAL	FOREIGN		ICAL	FOREIGN	TOTA
		** - * ** * * * * * *		•••••••••				
lite Clearance in Light Bush	∎2	0.0	159	- 91		0	0	
Subgrade Preparation	m 2	.0.0	20			ñ	0	1.1
lormal Fill	ń3	0.0	1,631	866		Ň	Ň	
ill in Swamp	a 3	0.0	2,429	1,058		Ň	· Ó	
lormal Excavation to Spoil	#3	0.0	959	525		ň	. A	
ub Base Course	\$ 3	254.0	3,090	1,355		0.4R	344,170	1,129,03
lase Course	a 3	2400.0	4 244	2,310			5,544,000	15,729,60
houlder	#2	35000.0	284	146			5,110,000	15,050,00
Sphalt Patching	•2	0.0	3,579	1,383		000 ·	0.	101000100
Surface Dressing (Single)	a2	0.0	636	575		Ň	Ň	
Surface Dressing (Double)	#2	0.0	784	936		۰ ۸	··· · · ·	
Farth Drain		0.0	834	120		ů.	0	2
Farth Drain in Swamp (by machine)	e3	.0.0	1,144	476		: 0:	0	
Pipe Culvert DBOca		5.0				•	017 005	
Hasonry Culvert (80x80cm)	a	2.0	55,358	43,445 37,949			217,225 75,898	
Retaining Hall and Wing Hall (Timber)	a2	0.0	12,615	246		0 110	0	186,61
Retaining Wall and Wing Wall (Masonry)	#3			11,915		0 .	· 0	
Gabion Protection	a3						· V	
len Bridge (Tiøber)	SET	1.0	01/21	121		0	0	1 107 74
lex Bridge (Concrete)	SET	1.0		·	2,966	1402	416,436	3,383,34
ich bridge ibbilieter	JEI	1.0				U	·U	
			Sub Total		24,210	087 1	1,707,729	35,917,81
Overhead (15%)					3,631	513	1,756,159	5,387,67
			TOTAL COST		27,841	,600 l	3,163,000	41,305,48
				~				
lanual routine maintenance of road	Kn	10.0	133,276	7,260	i,332	760	72,600	1,405,36
Noutine maintenance of gravel road	Km	10.0	183,586	88,384		860	883,840	2,719,70
			Sub Total		3,168		956,140	4,125,08
laintenance of Timber Bridge (New)	#2	16.0	9,201	1,233			19,728	150,94
laintenance of Concrete Bridge (New)	n2	0.0	1,857	2,792		. 0	0	
laintenance of limber Bridge (Exist)	a2	0.0	7,648	2,462		• 0	0	
aintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404	•	0	0	

		4	Earthwork &			(Rp/Ka		3,741,46
			Tinber		Unit Cost	(Rp/#2		243,17
			Concrete	Bridge	Unit Cost	(Rp/#2	} :	
			Sur vi ved	Yalue		(Rp)	1	451,61
			Maintenance		ut Bridge	(7,)	:	11.0
			Nen Bridge			(%)	1	9.4

PROY : SULAWEST TENGGARA KAB : MUNA

LINK ND : 21 (IIIC) LENGTH : 7 Km

UFGRADE : 5.5m road bed, 4.0m road with surface Subbase Cource (Rp)

							(Rp)
ITEH		****	<<< UNET	COST >>>	· › › › › › › › › › › › › › › › › › › ›	COST	>>>>>>
	UNIT	QUANTITY	LOCAL	FORELGH	LOCAL	FORELGN	TOTA
Site Clearance in Light Bush	a2	0.0	159	- 91	0	0	-
Subgrade Preparation	h 2	0.0	20	11	0	0	a george
formal Fill	a3	0.0	1,631	866	.0	0	
ill in Swamp	m 3	0.0	2,429	1,058	0	0	
formal Excavation to Spoil	· #3	0.0	959	525	Q	0	
Sub Pase Course	m3.	170.0	3,090	1,355	525,300	230,350	755,65
lase Course	#3	1680.0	4,244	2,310	7,129,920	3,880,800	11,010,72
Shoulder	-2	10500.0	284	er 1116 1	2,982,000	1,533,000	1,515,00
Asphalt Patching	s2	0.0	3,579	1,383	0	. 0	
Surface Dressing (Single)	m2	0.0	636	595	0	0	
Surface Dressing (Double)	m 2	0.0	784	936	Q	0	
arth Drain	9	0.0	834	120	0	0	
arth Drain in Swamp (by machine)	•3	0.0	1,144	476	0	0	
Pipe Cuivert D80cm	1	0.0	44,401	43,445	0	0	
lasonry Culvert (80x80cm)	Á	0.0	55,358	37,949	. 0	0	
Retaining Hall and Hing Wall (limber)	•2	0.0	12,615	246	0	0	
Retaining Wall and Wing Wall (Masonry)	m 3	0.0		11,915	0	0	1.1.1.1.1.1.1
abion Protection	.3	0.0	8,729	121	0	. 0	
len Bridge (Timber)	SET	1.0			0	0	
lew Bridge (Concrete)	SET	1.0	·		0	0	
			Sub Total		10,637,220	5,641,150	16,281,37
Iverhead (15%)			· .		1,595,583	846,622	2,442,20
JIST 104 /					19191919	010,011	111110
			TOTAL COST		12,232,803	6 490,772	18,723,5

anual routine maintenance of road	Kø	7.0	133,276	7,260	932,932	50,820	983,7
toutine maintenance of gravel road	Ke	7.0	183,586	88,384	1,285,102	618,698	1,903,7
	:		Sub Total		2,218,034	669,508	2,887,5
aintenance of Timber Bridge (New)	e2	0.0	8,201	1,233	0	0	
aintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792	0	0	
aintenance of Timber Bridge (Exist)	#2	24.0	7,648	2,462	183,552	59,088	242 6
laintenance of Concrete Bridge (Exist)	a2	0.0	3,919	2,404	0	0	
		•					
· · · · · · · · · · · · · · · · · · ·							
			Earthwork &	Pavement Uni	it Cost (Rp/	Ka) :	2,674,79
					it Cost (Rp/		
				-	it Cost (Rp/		
							345 5
			Survived	Value	- K	0) · 1	
				Value Rate without	Bridge (X	p) : / :	302,28 15.4

2

SULAWESI TENGGARA

KAD : MUNA

LINK MO : 19 (IIIC)

LENGTH : 6 K.m

UPGRADE : 8.0m road bed, 4.0m road with surface Subbase Cource (Rp)

								(Rp)
ITEN	UNIT	QUANTITY	KKK UNIT Local	COST >>> Foreign	LOC	(((((AL FI	COST Dreign	>>>>>> TOTA

Site Clearance in Light Bush	æ2	0.0	159	. 01		•		
Subgrade Preparation	n2	8000.0	20	91		0	U 10 000	
lornal Fill	#3	0.0		11	160,0	_	88,000	248,00
ill in Swamp	#3	0.0	1,631	866	· ·	0		
formal Excavation to Spoil	#3	28,0	2,429 959	1,058		0	0	·
Sub Base Course	#3	754.0		525	26,9		11,700	41 ₁ 55
lase Course	#3	1200.0	3,070	1,355	2,360,7		35,220	3,395,98
ihoulder	#3 #2	24000.0	4,244	2,310			72,000	7,961,80
Isphalt Patching	#2		284	146	6,816,0	00 3,5	04,000	10,320,00
Surface Dressing (Single)	#2 #2	0.0	3,579	1 383		0	0	
Surface Dressing (Double)		0.0	636	595		0	0	
arth Drain	#2	0.0	784	936		0	0	
	#	0.0	834	120		0.	0	
arth Drain in Swamp (by machine)	#3	0.0	L_144	476	•	0	0	· · · · ·
ipe Culvert DBOca		5.0	44,401	43,445	222,0	05 2	17,225	439,23
lasonry Culvert (80x80cm)	đ	0.0	55,358	37,949		0	0	
letaining Hall and Hing Hall (Timber)	#2	0.0	12,615	246		0	0	· · · ·
Retaining Wall and Hing Wall (Masonry)	я3	0.0	39,102	11,915		0	0	
Babion Protection	a 3	0.0	8,729	121		0	. 0 .	
len Bridge (Timber)	SET	1.0		· `	2,966,9	06 4.	16,436	3,383,34
leн Bridge (Concrete)	SET	1.0				0	0	
			Sub Total		17,645,3	23 9 A	47,581	25,692,90
			040 10101		11103010	23 010	11 3 201	201012110
iverhead (15%)					2,646,7	9B 1,2	07,137	3,853,93
			TOTAL COST		20,292,1	21 9,2	54,719	29,546,83
anual routine maintenance of road	Ka	6.0	133,276	7,260	799,6		3,560	843,2
outine maintenance of gravel road	Ke	9.0	183,586	88,384	1,101,5	16 5	30,304	1,631,82
A set of the			Sub Total		1,901,1		73,864	2,475,03
aintenance of Timber Bridge (New)	a2	16.0	8,201	1,233	131,2	16	19,728	150,94
aintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792		Q	0	
aintenance of Timber Bridge (Exist)	e2	0.0	7,649	2,462		0	0	
aintenance of Concrete Bridge (Exist)	m2	0.0	3,919	2,404		0	0	

			Earthwork &	Pavement L	Init Cost	(8p/Ka)	1	4,275,99
					Init Cost	(Rp/n2)	:	213 17
					Jnit Cost	(Rp/a2)		
				Yalue		(Rp)	1	1,359,35
			Haintenance		it Bridne	(2)		9.6
			New Bridge			(%)	÷	13.1

1 SULAWESI TENGGARA

LINK ND : 18 (IIIC)

UPGRADE :

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

ITEN	UNIT	QUANTITY	<<< UNIT Local	COST >>> Foreign	›››››› Local	COST FOREIGN	>>>>> TOTA
·							······································
ite Clearance in Light Bush	#2	0.0	159	91	0	0	· · · ·
ubgrade Preparation	#2	0.0	20	11	0	0	
ornal Fill	#3	0.0	1,631	866	0.	0	
11 in Swawp	#3	0.0	2,429	1,058	0	0	
greal Excavation to Spoil	a3	0.0	959	525	Q	Q	
ub Pase Course	83	160.0	3,070	1,355	519,120	227,640	746,71
ase Course		960.0	4,244	2,310	4,074,240	2,217,600	6,291,8
loulder	#2	16000.0	284	146	4,544,000	2,336,000	6,980,00
sphalt Patching	m2	0.0	3,579	1,383	0		•••
urface Dressing (Single)	•2	0.0	636	595	0	Ó	
urface Dressing (Double)	#2	0.0	784	936	0	0	
arth Drain		0.0	834	120	0	0	
arth Drain in Sxamp (by machine)	#3	0.0	1,144	476	ň	Ő.	
ipe Culvert DBOca		8.0	44,401	43,445	355,208	347,560	702,70
asonry Culvert (80x80cm)	- -	0.0	55,358	37,949	0001200	0	
etaining Hall and Hing Hall (Timber)	-2	0.0	12,615	246	Ň		. * *
etaining Wall and Wing Wall (Masonry)	63	0.0	37,102	11,915	0	· ^`	
abion Protection	m3	0.0	8,729	121	0 0	v A	1.1
ew Bridge (Tinber)	SET	1.0	. 01/21		2 011 001	A11 A11	3,383,3
en Bridge (Concrete)	SET	1.0			2,966,906	416,436 0	2120213
en brinde (fonciece)	acı	1.0			, V	, v	an a r
			Sub Total		12,459,474	5,545,236	18,004,7
verhead (15%)		· .	н 1		1,868,921	831,785	2,700,7
		· .	TOTAL COST		14,328,395	6,377,021	20,705,4
					***-*		
anual routine maintenance of road	X.	4.0	133,276	7,260	533,104	29,040	562,1
nutine maintenance of gravel road	X.	4.0	183,586	88,384	734,344	353,536	1,087,B
Werne perintenence of ALRAKT 1 nan		1.0	Sub Total	001201	1,267,448		
aintenance of Timber Bridge (New)	#2	16.0	8,201	1,233	131,216	382,576	1,650,0
aintenance of Concrete Bridge (New)	#2 #2				0651161 A	19,728	150,9
aintenance of Timber Bridge (Exist)	#2 #2	0.0	1,857	2,792	V V	0	
aintenance of Concrete Bridge (Exist)			7,640	2,462	V	V	
increance of concrete prioge (cxist)	#2	0.0	3,919	2,404	U	ŋ	
				Pavesent Uni	•		1,203,6
			Tinber		itCost {Rp/m		243,1
			Concrete		it Cost (Rp/e	2) ;	
			Survived	Value	· (Rp) t	298,7
. *			Naintenance	Rate without	Bridge (%)	1.	9,1
			New Bridge				

PROV : SULAWESI TENGGARA

KAB MUNA

5 Km

LINK ND :

UPGRADE : 0.0m road bed, 4.0m road with surface Subbase Cource

17 (IIIC) LENGTH :

1 T E H	UNIT	GUANTITY	<<< UNI LUCAL	F COST >> Foreign		<<<<< AL F(COST Dretgn	>>>>>> 1014
ite Clearance in Light Bush								
ubgrade Preparation	#2	0.0	159	91		0	- 0	
ormal Fill	#2	0.0	20	H		0 .	0	
ill in Swamp	- 3	0.0	1,631	868		0	- 0	
	#3	0.0	2,429	1,058	· .	0	0	1. A. A.
ormal Excavation to Spoil	=3	0,0	959	525		0		
ub Base Course	m 3	69.0	3,090	1,355	210,1	20 9	72,140	302,26
ase Course	#3	1200.0	4,244	2,310	5,092,8	00 2,72	12,000	7,864,80
houlder	#2	20000.0	· 284	146	5,680,0	00 2,92	20,000	8,600,00
sphalt Patching	m2	0,0	3,579	1,393		0	٠ ٥	
urface Dressing (Single)	•2	0.0	636	595		0	Ó	
urface Dressing (Double)	#2	0.0	784	936		0	Ó	
arth Drain	6	0.0	834	120		.0	ň	
arth Drain in Swamp (by machine)	n3	0.0	1,144	476		0	. 0	
ipe Colvert D80cm	8	16.0	44,401	43,445		-	15,120	1,405,53
asonry Culvert (80x80cm)		0.0	55,358	37,949		0 .	0	11400101
etaining Hall and Ning Hall (Timber)	•2	0.0	12,615	246		0	- 0	· · ·
etaining Hall and Wing Hall (Nasonry)	.3	6.4	39,102					797 64
abion Protection	#3 83	0.0		11,915	•		16,256	326,50
en Bridge (Timber)			8,729	121		0	. 0	
en Bridge (Concrete)	SET	1.0		•-	2,965,9		6,436	3,383,3
en prinde (rouciers)	SEI	1.0				0	0	
			Sub Total		14,910,4	94 6,97	1,952	21,682,44
verhead (15%)					2,236,5	74 J ₁ 04	15,792	3,282,3/
			TOTAL COST		17,147,0	68 8,01	17,744	25,164,81
							· · · · · · · ·	
anual routine maintenance of road	K	5.0	133,276	7,260			\$6,300	702,68
outine maintenance of gravel road	Ka	5.0	183,586	88,384			11,920	• •
			Sub Total		1,584,3		18,220	2,062,53
aintenance of Timber Bridge (New)	n 2	16.0	8,201	1,233		16	19,720	150,94
aintenance of Concrete Bridge (New)	#2	0.0	1,857	2,792		0	0	
aintenance of Timber Bridge (Exist)	∎2	0.0	7,648	2,462		0	Q	
aintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404		0	0	· ·
			Earthwork &			(Rp/Ka)	;	4,254,7
			Tinber	,	Unit Cost	(Rp/m2)	1	243,1
			Concrete		Unit Cost	(Rp/#2)	:	
			Sur vi ved	Value		(Rp)	t	120,90
			Maintenance		ut Bridge	(2)	3	9.1
			New Bridge	Cost Rate		(2)	1	15.

PROV . :

SULAWESI TENGGARA KAB : MUNA

LINK ND : 6 (IIID-1) LENGTH : 2 Km

UPGRADE : 8.0m road bed, 4.0m road with surface Dressing (1)

1161	UNIT	QUANTITY	<<< UHI	I COST >> Foreign		COST FOREIGN	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Site Clearance in Light Bush	∎2	0.0	159	91	Q	. 0	0
Subgrade Preparation	#2	0.0	20	H		0	0
formal Fill	# 3	0.0	1,631	866	0	0	· · · 0
fill in Swamp	6 3	0.0	2,429	1,058	0	0	0
formal Excavation to Spoil	•3	0.0	959	525	· 0	0	0
Sub Base Course	B 3	0.0	3,090	1,355	0	0	
lase Course	. #3	0.0	4,244	2,310	.)	0	0
Shoulder	e2	8000.0	284	146		1,168,000	3,440,000
Asphalt Patching	a2	309.0	3,579	1,393	• •	427 347	1,533,258
Surface Dressing (Single)		8000.0	636	595		4,760,000	9,848,000
Surface Dressing (Double)	# 2	0.0	781	936		0	0
Earth Drain		0.0	834	120		0	. 0
Earth Drain in Swamp (by machine)	3	0.0	1,144	476		0	
Pipe Culvert DBOca		0.0	44,401	43,445		ů	Ő
lasonry Eulvert (80x80cm)		0.0	55,358	37,949		0	. õ
Retaining Wall and Wing Wall (Timber)	•2	0.0	12,615	246		0	
Retaining Wall and Wing Wall (Nasonry)	#3	0.0	39,102	11,915			
Sabion Protection	83 83	0.0	0,729	121			0
saoton Protection len Bridge (Tinber)	SET		0,721		V		0
		1.0			V A	v 0	· · · · · 0
lew Bridge (Concrete)	SEI	1.0			ũ	v	
		· . ·	Sub Total		8,465,911	6,355,347	14,821,258
lverhead (15%)					1,269,805	953,302	2,223,186
			TOTAL COST		9,735,797	7,308,649	17,044,445
· · · ·							
lanual routine maintenance of road	Ka	2.0	133,276	7,260	266,552	14,520	281,072
Routine maintenance of asphalt road	Ke	2.0	357,900	138,300	715,900	276,600	792,400
			Sub Total		982,352	291,120	1,273,472
laintenance of Tisber Bridge (New)	±2	0.0	8,201	1,233		. 0	
faintenance of Concrete Bridge (New)	. #Z	0.0	1,957	2,792	0	0	
laintenance of Timber Bridge (Exist)	" 2	24.0	7,648	2,462		59,088	242,640
faintenance of Concrete Bridge (Exist)	#2	0.0	3,919	2,404		. 0	Ċ
			1 A. 1		· .		
			Earthwork &	Pavenent I	Unit Cost (Rp/)	(n) :	8,522,223
			lisber	Bridge	Unit Cost (Rp/	2} :	-
			Concrete	Bridge	Unit Cost (Rp/)		
	· .		Sur vi veð	Value	(Rg		
			Maintenance	Rate without			7.47
			New Bridge		(2)		

Appendix A-4

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

L T E H	UNIT	(1988)	(1989)	(1990)	< 1991 >	(*1992.)	(TOTAL)
EQUIPMENT :			-				
				'			
Bulldozer/Ripper	hr	275.1	508.5	7/0 6	1447 4	1401 0	2002.0
Swamp Bulldozer	hr	1.4	.0.9	768.0	1403.4 60.2	1027.8 160.2	3982.0
Hutor Grader	hr	757.4	1532.7	2055.9	2294.1		235.6
Hand-quide Vib. Roller	hr	215.9	242.6	524.9	923.7	2509.5 379.3	9150.5
lire Roller	hr	366.6	783.3	549.9			2286.4
Vibratory Roller (D&T)	ħr	570.6	1185.1		0,0	0,0	1699,0
Hydraulic Excavator; Wheel	hr	9.1	5.4	1575.0	1804.7	2245.2	7380,6
Wheel Loader	hr	881.4	0.4 1903.1	45.0	420.9	231.7	711.1
Hater Tank Truck	hr	334.3	741.1	2322.6	3000.8	2743.0	10750.9
Dump Truck	hr	534.5	· .	919.1	1011.1	1334,2	4339,0
Flat Bed Truck with Crane	hr		14983.1	17943.1	24627.5	25505.3	89745.0
Flat Bed Truck	hr	116.6	253.1	423.9	972.1	532.2	2297.9
Fortable Crusher/Screening	hr	498.5	1015.4	837.3	310.0	126.7	2705.9
Concrete Nixer	m hr	181.5	377.5	426.1	305.5	111.1	1401.7
Water Pump	hr	0.1	0.3	13.7	9.1	9,9	23.1
Concrete Vibrator	hr	0.1	0.3	12.4	7,7	0,9	21.4
Asphalt Sprayer	hr	0.1	0.3	9,9	7.0	0.9	18.2
ushinger sheater	111	, 366.6	783.3	549.9	0.0	0.0	1679.8
LABOUR :							
Nandur	man day	618.7	1470.6	1700.9	3246.6	2656.5	9693.5
Skilled Labourer	san day	1288.7	2718.3	3699.6	8364.2	4692.1	20752.9
Carpenter	nan day	555.2	1203.9	1789.6	4490.3	2525.5	10564.4
Hason	san day	0.0	0.0	6.4	1.9	0,0	8.3
Labourer	aan day	4943.1	14307.1	13105.9	29197.7	27261.2	98817.0
Driver	aan day	1401.4	3078.0	3581,9	4819.1	4854.1	17734.5
Oper at or	man day	743.6	1475.9	1937.5	2303.7	2076.4	8537.1
NATERIAL :			•				
Bitusen	Ŀ	75583.7	160731.8	112749.9	0,0	0.0	349065.4
Asphalt Oil	i	15033.3	32116.6	22550.0	0.0	0.0	67699.9
Kerosene	1	18012.9	38399.8	26949.9	0.0	0.0	83362.6
Sand	43	228,5	474.3	380.9	. 34. 3	4.5	1122.5
Cenent	bag	2.5	5.0	147.4	104.1	13.5	272.5
River Stone	63	0,0	0.0	6.4	1.9	0.0	8.3
Steel Houlds	set	1.0	2.0	58.0	39.6	5.4	106.0
Tisber	52	50.3	103.2	162.3	407.9	229.5	959,2
Faint	1	376.5	742.8	1172.0	2767,8	1487.0	6546.1
Reinforcing Steel	kg	31.9	63.8	1850.2	1292.5	172.2	3410.6
Tying Hire	kg	0,2	0.5	16.8	11.6	1,5	30,6
Equivalent Royalty	สวั	12816.3	27731.2	33580.2	37655.5	46877.1	158660.3

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

.

PROV : SULAWES	I TENGG	ARA	КАВ .	MUNA			
I T E N.		< 1989 >	(1989)	< 1990 >	< 1991 >	< 1992 >	< TOTAL >
QUIFHENT :		• •			•		
	· .			· ·			
Bulldozer/Ripper	hr	0.0	0.0	0.0	0.0	0.0	0.0
Swamp Bulldozer	hr	0.0	0.0	0.0	0.0	0.0	0.0
Notor Grader	hr	285.6	568.7	566.5	654.7	802.0	2957.5
Hand-guide Vib. Roller	hr	30.0	75.0	420.0	810.0	810.0	2145.0
Tire Roller	hr	285.6	569.7	566.5	654.7	882.0	2957.5
Vibratory Roller (D&T)	hr	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	83.6	173.3	212.0	281.2	361.4	1111.5
Nater Tank Truck	hr	0.0	0.0	0.0	0.0	0.0	0.0
Duep Truck	hr	562.3	1190.4	2112.3	3307.0	3788.3	10960.3
Flat Bed Truck with Crane	hr	892.2	1683.1	1706.2	1990.2	2557.5	8029.2
Flat Bed Truck	hr	1087.6	2176.8	2432.6	3060.8	3974.1	12653.9
Portable Crusher/Screening	hr	41.8	85.7	106.8	142.1	182.2	559.6
Concrete Nixer	hr	0.2	0.5	0.5	0.5	0.5	2.2
Water Puap	hr	0.2	0.5	0.5	0.5	0.5	
Eoncrete Vibrator	hr	0.2	0.5	0.5	0.5	0.5	2.2
Asphalt Sprayer	hr br	0.2	0.0	0.0	0.0	0.0	0.0
ushinger shi akat	nr ,		0.0	v.v	0.0	U . U	V. V
ABOUR :		• •					· .
		•				+	· ·
Nandur	san day	370.5	742.8	950.9	1319.4	1598.7	4982.3
Skilled Labourer	≢an day	247.2	476.2	712.6	1206.9	1397.7	1040 6
Carpenter	nan day	121.7	220.4	231.8	357.6	460.0	1399.5
Hason	man day	0.0	0.0	0.0	0.0	0.0	0.0
Labourer	nan day	4150.4	8353.3	10857.1	15003.9	10091.8	56458.5
Driver	aan day	465.3	919.6	1120.4	1492.6	1834.7	5832.6
Operator	∎an daγ	123.1	247.5	259.9	312.8	415.3	1358.6
							•
ATERIAL :				·			
						· .	
Bituaen	1	270.0	675.0	3780.0	7290.0	7290.0	19305.0
Asphalt Oil	1	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene	: 1	30.0	75.0	420.0	810.0	810.0	2145.0
Sand	a3	5.2	13.0	70.5	135.5	135.5	359.7
Cenent	bag	4,1	8.3	8.3	8.3	8.3	37.3
River Stone	æ3	0.0	0.0	0.0	0.0	0.0	0.0
Steel Houlds	set	0.0	0.0	0.0	0.0	0.0	0.0
Tinber	#3	11.0	20.6	20.9	32.3	41,6	126.4
Faint	ł	78.4	147.0	149.2	230.7	297.1	902.4
Reinforcing Steel	kg	21.5	43,0	43.0	43.0	43.0	193.5
Tying Wire	kg	0.1	0.3	0.3	0.3	0.3	1.3
Equivalent Royalty	£ 3	1186.5	2457.1	3005.4	3985.6	5121.9	15756.5

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

PROV : SULAWESI TENGGARA KAR : MUNA

BIEN	UNIT	< 198B >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	(TOTAL)	
		****						• • •
BULPHENT :	1			· .	· ·	·.	en e	
Bulldozer/Ripper	hr	078-1	500 C			1267.0		
SHanp Bulldozer	hr hr	275.1	508.5	760.0	1403.4	1027.8	3982.8	
Hotor Grader		1.4	0.9	12.9	60.2	160.2	235.6	
Hand-guide Vib. Roller	hr t-	1043.0		2633.3	2948.8	3391.6	12118.1	
Tire Roller	hr	245.9	317.6	944.9	1733.7	1189.3		
Vibratory Roller (D&T)	hr	652.2	1352.0	1116.4	654.7	882.0	4657.3	
	hr	570.6	1185.1	1575.0	1804.7	2245.2	7380.4	
Hydraulic Excavator; Wheel	hr	8.1	5.4	45.0	420.9	231.7	711.1	
Wheel Loader	hr	965.0	1976.4	2534.6	3282.0	3104.4	11062.4	
Water Tank Truck	hr	334.3	741.1	919.1	1011.1	1334.2	4339.8	:
Dump Truck	hr	7319.3	16073.5	20055.4	27934.5	29293.6	100705.3	
Flat Bed Truck with Crane	hr	1008.B	1936.2	2130.1	2962.3	3089.7	11127.1	
Flat Bed Truck	hr	1586.1	3192.2	3269.9	3370.8	4020.8	15439.8	
Portable Crusher/Screening	hr	223.3	464.2	532.9	447.6	293.3	1961.3	
Concrete Hixer	hr	0.3	0.8	14.2	8.6	1.4	25.3	
Water Puan	hr	0.3	0.8	12.9	8.2	1.4	23.6	
Concrete Vibrator	, hr	0.3	0.8	10.4	7.5	1.4	20.4	
Asphalt Sprayer	hr	366.6	783.3	549.9	0.0	0.0	1699.8	
ABOUR :								
nter en la construcción de la const La construcción de la construcción d								
Handur	aan day	989.4	2213.4	2651.8	4566.0	4255.2	14675.8	
Skilled Labourer	man day	1535.9	3194.5	4412.2	9571.1	6079,8	24793.5	
Carpenter	man day	676.9	1432.2	2021.4	4847.9	2985.5	11963.9	
Mason	∎an day	0.0	0.0	6.4	L 9	0.0	8.3	
Labourer	øan day	9093.5	22662.4	23965.0	44201.6	45353.0	145275.5	
Dr i ver	man day	1866.7	3997.6	4702.3	6311.7	6688.8	23567.1	
Operator	man day	866.7	1723.4	2197.4	2616.5	2491.7	7895.7	
ATERIAL :		· .						
B11		JEAF7 9	+/ 1 4 4 5	11/200.0	1004 0	3054 A	7/0734 4	
Bitunen	1.	75853.7	161406.8	116529.9	7290.0	7290.0	368370.4	
Asphalt Oil	1	15033.3	32116.6	22550.0	0.0	0.0	69699.9	
Kerosene].	18042.9	38474.8	27369.9	810.0	810.0	85507.6	
Sand	ø3	233.7	487.3	451.4	169.8	140.0	1482.2	
Cenent	bag	6.6	13.3	155.7	112.4	21.8	309.B	
River Stone	#3	0.0	0.0	6.4	1.9	0.0	8.3	
Steel Houlds	set	1.0	2.0	58.0	39.6	5.4	105.0	
Tiaber	n3	61.3	129.8	183.2	440.2	271.1	1085.6	
Paint	. 1	454.9	889.8	1321.2	2998.5	1784.1	7448.5	
Reinforcing Steel	kg	53.4	105.8	1893.2	1335.5	215.2	3604.1	
Tying Wire	kg	0.3	0.0	17.1	11.9	1.8	31.9	
Equivalent Royalty	a3	14002.8	30188.3	36505.6	41641.1	51999.0	174416.8	

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

PROV : SULAWES	SI TENGE	96417364	KAB :	MUNA		an a	(1000 Rp)
ITEN	UNIT	< 198B >	< 1989 >	< 1990 >	< 1991 >	(1992)	< TOTAL >
OUIPHENT :	:	86,991	182,976	223,754	281,309	269,489	1,044,519
Bulldozer/Ripper	15846	4,359	8,057	12,169		16,286	63,109
Swamp Bulldozer	11671	16	10	150	702	1,869	2,747
Hotor Grader	13548			28,001	31,080	34,000	124,107
Hand-guide Vib. Roller	1617	349			1,493	613	3,695
Tire Roller	10682	3,916	8,367	5,874	0	- V 1	18,137
Vibratory Roller (D&T)		3,862	8,023	10,662	12,217	15,200	49,964
Hydraulic Excavator; Wheel		102	68	569	5,324		8,994
Wheel Loader	16794		30,281	·		46,065	
Water Tank Truck	3942	1 717	2,921	3,623	3,985		17,105
Dump Truck	5462		B1,291	98,005		139,309	
Flat Bed Truck with Crane		582	1,263			2,657	
		1,615	1 100	2 7 7 7 7	1,008		9,061
Flat Bed Truck	3233	7 079	14 502	19 711		· A 000	11 510
Portable Crusher/Screening	43926	1,112	2	18,716 125	74	1000	209
Concrete Nixer	9183	0	0	- 6	3	0 ·	209
Water Pump Commente Withouter	486	0	. 0	3	2	. 0	5
Concrete Vibrator	312 2109		1,651	1,159		. 0.	
Asphalt Sprayer	2147	113	14071	រ រូវជា		v	41994
ABOUR :	· ·	17,422	48,288	52,904	106,902	87,357	314,873
Kandur	2500	1.547	3,676	4,252	8.116	6.641	24,232
Skilled Labourer	2250		6,116	8,324	18.819	10.534	46.692
Carpenter	3000	1,665	3,611	5,368	13,470	7 576	31.690
Nason	3000	0		19	5	0	24
Labourer	1750	8,650					155,427
Driver	2000					9,709	
Operator	2500		3,689	4,843	5,759		
ATERIAL :		51,580	109,967	96,314	70,804	45,142	373,807
Bituaen	300	22,675	48,219	33,824	0	. 0	104,718
Asphalt Dil	800	12,026	25,693	19,040	0		55,759
Kerosene	250	4,503	23,073 9,599	6,737	0	0	20,839
Sand	7500	1,713	3,557	2,856	257	33	8,416
Cement	5000	1,713	3,337	737	520	53 67	
River Stone	3500	0	23	22	520	0	29
Steel Houlds	8500	8	17	493	336	45	899
limber	125000					15 28,687	119,898
Paint		6,287	13,650	20,287	50,987		
Reinforcing Steel	3000 750	1,129	2,228	3,516	8,303	4,461	19,637
Tying Hire	1200	23	· 47 0	1,397 20	969 13	129 I	2,555 34
		11	U U	70	1.3		39

37-A-44

Appendix A-5

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

PROV : SULAWESI	TENGO	BARA	KAB :	MLINA	· · ·	· · ·	(1000 Rp)
ITEN	UNIT	< 198B >	< 1989 >	< 1990 >	< 1991 >	< 1992 >	〈 TOTAL 〉
EDUIPNENT		21,277	42,608	50,629	66,095	82,885	263,494
Bulldozer/Ripper	15846	. 0	0	0	0	Q	Č. Q
Swamp Bulldozer	11671	0	0	0	-	Ŭ,	0
Notor Grader	13548	3,869	7,704	7.674	8,869	-	40.045
Hand-guide Vib. Roller	1617	48	121	679			
Tire Roller	10682	3,050	6,074				31,589
Vibratory Roller (D&T)	6770	0	0	0	0		0
Hydraulic Excavator; Wheel	12651	Ō	0 0			•	•
Wheel Loader	16794	1,403		3,560		6,069	
Water Tank Truck	3942	0	0	0	0		: 0
Dump Truck	5462	3,071		11,537			
Flat Bed Truck with Crane	4994	4,455	8,405	8.570	18,062 9,939	17.772	44,091
Flat Bed Truck	3253	3,544	7.081	7,913	9,956	12,667	41,071
Portable Crusher/Screening	43926	1 836			6,241		
Concrete Nixer	9183	1	4	4	4		-
Nater Punp	486		0	0			
Concrete Vibrator	312	Ö	0	0	0	0	0
Asphalt Sprayer	2109	Ō	0	0	. 0	Ō	Õ
ASOUR :		10,347	20,688	26,567	37,108	44,887	139,597
Handur	2500	926	1,857	2,377	3,298	3,996	12,454
Skilled Labourer	2250	556	1,071	1,603	2,715	3,144	9,089
Carpenter	3000	365	685	695	1,072	1,380	4,197
Nason	3000	0	0	0	0	0	0
Labourer	1750	7,263	14,618	19,003	26,256	31,660	98,800
Briver	2000	930	1,839	2,240	2,985	3,669	11,663
Operator	2500	307	618	649	782	1,038	31394
IATERIAL :		2,069	4,020	5,650	9,203	10,849	31,791
Bitunen	300	81	202	1,134		2,187	5,791
Asphalt Dil	800	0	0	0	0	. 0	: 0
Kerosene	250	7	18	105	202	202	534
Sand	7500	39	97	528	1,016	1,016	2,696
Cenent	5000	20	41	41	41	41	184
River Stone	3500	0	0	0	0	0	0
Steel Houlds	8500	0	0	0	0	0	0
Timber	125000	1,375	2,575	2,612	4,037	5,200	15,799
Paint	3000	235	441	447	692	891	2,706
Reinforcing Steel	750	16	32	32	32	. 32	144
Tying Hire	1200	0	0	0	0	. 0 .	0
Equivalent Royalty	250	296	614	751	996	1,280	3,937

37-A-45

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

.

PROV : SULAWES	TENG	3ARA	KAB I	MUNA		(1000 Rp)				
ITEN	UNIT	< 1988 >	(1999)	(1990)	(1991)	< 1992 >	< TOTAL >			
e na ne na na eu en mana se proceser ne no an la bren de far na sin ne ne de he ne de he ne de he ne de he ne	*********	***				· · ·				
EQUIPHENT 1		108,268	225,594	274,383	347,404	352,374	1,308,013			
Bulldozer/Ripper	15846	4,359	8,057			16,286	63,109			
Swamp Bulldozer	11671	16	10	150	702	1,869	2,747			
Hotor Grader	13548	14,130	28,469	35,675	39,949	45,949	164,172			
Hand-guide Vib. Roller	1617		513	1,527	2,802	1,922	7,161			
Tire Roller	10682	6 966	14,441	11,925	2,802 6,993	9,421	49,746			
Vibratory Roller (D&T)	6770	3,862		10,662	12,217	15,200				
Hydraulic Excavator; Wheel	12651	102	69		5,324					
Kheel Loader	16794	16,205			55,117					
Nater Tank Truck	3942		2,921	3,623	3.985	5,259	17,105			
Duop Truck	5462	40,136	87,792		152,577	160,000				
Flat Bed Truck with Crane	4994	5,037	9,668		14,793					
Flat Bed Truck	3253	5,159	10.384	10.636	10,964					
Portable Crusher/Screening	43926	9,808	20.390	23.407	19,660	12.883				
Concrete Nixer	9183	······································	6	129	78	12	226			
Hater Pusp	486	0	0	6	3	0	9			
Concrete Vibrator	312	ŏ	0.		2	; Ū	5			
Asphalt Sprayer	2109		1,651	1,159	0	0	- 3,583			
ABOUR :	•	29,769	68,976	79,471	144,010	132,244	454,470			
Nandur	2500	2,473	5,533	6,629	11,414	10,637	36,686			
Skilled Labourer	2250	3,455	7,107	9,927	21,534		55,781			
Carpenter	3000	2,030	4,296	6,063	14,542	8,956	35,807			
Nason	3000	0	. 0	19		0	24			
Labourer	1750	15,913	39,658	41,938	77,351	79,367	254,227			
Driver	2000		7,995	9,403			47,130			
Operator	2500	2,155	4,307	5,492	6,541	5,229				
ATERIAL :		53,649	113,907	101,964	80,007	55,991	405,598			
Bitusen	300	22,756	48,421	34,958	2,187	2,187	110,509			
Asphalt Oil	800	12,026		18,040	. 0		55,759			
Kerosene	250	4,510	9 617	6,842	202	202	21,373			
Sand	7500	1,752	3,654	3,384	1,273	1,049	11,112			
Cement	5000	32	66	778	561	108	1,545			
River Stone	3500	Q	0	22	6	0	28			
Steel Koulds	8500	8	-17	493	336	45	899			
Tiaber	125000	7,662	16,225	22,899	55,024	33,887				
Paint	3000	1 364	2,669	3,963	8,995	5,352	22,343			
Reinforcing Steel	750	39	79	1,419	1,001	161	2,699			
Tying Wire	1200	0	0	20	13	1	34			
Equivalent Royalty	250	3,500	7,546	9,146	10,409	12,999	43,600			

Appendix A-6

QUANTITIES OF BRIDGE ON PROPOSED ROAD. LINKS

PROV : SULAWESI TENGGARA

KAB I MUNA

LINX No	BRIDBE NAME	Ka	From	<< TYI (EXIST)	PE >> (NEW)	DESIGN Load	SPAN Class	LENGTH (m)	NO	SPAN Length (n)	WIDTH (m)	AREA (EXIST) (p2)	AREA (NEW) (#2)		ABUT (nd)	ROAD Class
60	DALIMUSA	1	RUTA	KK				10.00	1	10.00	4.00	40.00		0	2	1110
	DONGKALA	4	RUTA	KK				10.00	1	10.00	4.00	40.00	:	Ō	2	
	Kahari	4	ruta	KK				7.00	1	7.00	4.00			. 0	2	· · ·
	LA TIMBERA	6	RUTA	, KK				8,00	É E	8.00	4.00	32.00	,	Ō	. 2	
	la ocu	9	RUTA	KK				25.00	. 5	5.00	4.00			. 4	· 2	
	TALEHBE	10	RUTA	KK				10.00	2	5.00	4.00	40.00		i	. 2	· .
	TATALA	12	RUTÀ	KK				10.00	2			40.00		i	2	
	WA CUBULU	14	RUTA	KK				10.00	2	5.00		40.00		i	2	
	CICOOCI	17	RUTA	KK				8.00	Ī	8,00	4.00			0	2	
	REE	17	RUTA	KK	•			8.00	. I		4.00	32.00		0	. 2	
	600	18	RUTA	KK				10.00	2	5.00	4.00	40.00		1	2	
61	LANGKUHÐE	1	L6K6	*********	TN	lot	(C)	65.00	 9	7.22	4.00	0.00	260.00	8	2	-1110
	KULIPERANGKA	2	LGKG		TM	101	(Ċ)	8.00	. 1	8.00	4.00	0.00	32.00	0	2	
	LANSKALOBA	5	L6K6		JK	101	(C)	7.00	1	7.00	4.00	0.00	28.00	0	2	
	LABOKED	5	L6K6	·	TN.	101	(B)	5.00	1	5,00	4.00	0.00	20.00	0	2	
	LANARANG1	6	LGKØ		TH	101	- (0)	8.00	1	8,00	4.00	0.00	32.00	0	-2	
	ULECUNUNBU	1	LGKG		TH	101	(C)	6.00	1	6.00	4.00	0.00	1	0	2	
	LAEA	. 1	LGKG		TN	10T	(0)	24.00	3		4.00	0.00	96.00	2	2	
	PENBULU NEHEA	9	LGKG	'	TH	101	(C)	7.00	1	7.00	4.00		28.00	0	2	
	LAHENSOU	10	LGKG	÷-	TN	10T	(C)	8.00	Ē	8.00	4.00	0.00	14 A.	0	2	
	LAMPANGI	11	LGKG		TN	101	(0)	8.00	1	8.00	4.00	0.00	32.00	0	2	· · ·
	LAURE	- 13	LGKG		TH	101	(C)	8.00	1	8,00	4.00	0.00		0	2	
	ALIARA	14	LGKG		18	101	(0)	8.00	E	8.00	4.00		32.00	0	2	
з.	TENDUANADI	14	L6K6		TN	101	(C)	B.00	1	8.00	4.00	0.00	32.00	0	2	
	BETAAU	15	1.6K6	·	١N	101	(0)	8.00	. 1	8.00	1.00		32.00	0	2	
	SAPERU	16	LGKG		TH	101	(0)	8.00	1	8.00	4.00	0.00	32.00	0	2	÷ 1
	LA KANBU	16	LGKG		18	101	(3)	8.00	1		4.00	0.00	32.00	0	2	
	EKONCUCU	18	LGKG		TN .	101	(3)	8.00	1	8.00	4.00	0.00	32.00	0	2	
	PESALU	18	LGKS		ŤŘ	101	(0)	8.00	1	8.00	4.00	0.00	32,00	Q	2	
62	LA-EA	4	ERBE	KK	18	10T	(C)	8.00	- 	8.00	4.00	32.00	32.00	0	2	1110
	EEBUBU	5	ERBE		1H	10T	(C)	12.00	2	6.00	4.00	0.00	48.00	· 1	2	
	SALONSA	6	ERBE		1M	LOT	(8)	10.00	2	5,00	4.00	0.00	40.00	ł	2	
	LA-KENSORO	7	ERBE		ТĦ	101	(C)	8.00	1	8,00	4.00	0.00	32.00		Z	
	NUNDUKO	8	ERBE		TN	lot	(C)	8.00	1	8.00	4.00		32.00	0	2	
	CBA. BARIKI		ERBE		TH	IOT	(C)	8.00	i	8.00	4.00	0.00	32.00	ò	2	

PROV : SULAWESI TENGDARA KAB : MUNA

	-											· · · ·		1		
	BRIDGE NAME							LENGTH	SPAN	SPAN	KLOTH	AREA		PIER	ABUT	ROAD
NO		Ka	From	(EX15T)	(NEW)	LOAD		(s)		LENGTH (a)		(EXIST) (#2)	(NEN) (#2)	(no)	(no)	CLASS
· 6	KAPODO	ŀ	KPDO	KK	*****	******		6.00	3	2.00	4.00	24.00				-9111
17	N. 1	. 2	LSSR		TN	IOT	(B)		 1	4.00	4.00	0.00	16.00	0	2	1110
	N. I		BHIR		TH	lot	(B)	4.00		4.00	4,00	0.00	16.00	0	2	IIIC
	N. I		LKRD		TN			4.00	 l	4.00	4.00		16.00	0	2	1110
21	N. I		NI.	KK				\$,00	3	2.00	4.00	24.00		~~~~	2	
22	N,]	2	NKRU	,	,	tot	• • • • • • • • •	4,00	1	4.00	4.00	0.00	16.00	0	2	1110
25	DENSORIRI	5	 N. I	 KK				10.00	3	3,33	6.00	60.00		2	2	
	LANEAU	. 7	N. I	KK				11.00	3	3.67	6.00	66.00		2	2	
28	HORUNDU	3	KNBR	KK				4.00	1	4.00	4.00	16.00		0		111D-
	HORUNDU 1 Vapae		KMBR KMBR	KK KK				4.00	1	4.00 6.00	4.00 4.00	16.00 24.00		0. 0	2	
32	BORUNENBE	6	TNPO	·····	TN	10T	 (B)	9.00	2	4.50	4.00	0.00	36.00	i	2	
	TOLIHBO	14	TNPO		TH .	101	(B)	10.00	2	5.00	4.00	0.00	40.00	1	2	
34	KANATANATA		DSSN	KK				5.00	3		4.00	20.00		2		IIIB-
	KONTU	·.	DSSN	KK				6.00	. 3	2.00	4.00	24.00		2	2	•
	GUAL 1	3	DSSN	KK	7.4		783	9.00		2.25	4.00	36.00	10 00	3	. 2	
	KONDOU	6	DSSH		TN	101	(A)	3.00	1	3.00	4.00	0.00	12.00	0	2	
	LONABU	8	DSSM		TN	LOT	(C)	12.00	2	6.00	4.00	0.00	48.00	1	2	
	KADAHU I	10	DSSK		TN	IOT	(B)	4.00	1	4,00	4.00	0.00	16.00	· 0	2	
	WADAHU II	12	DSSN		TM	TOL	(C)	6.00	1	6.00	4.00	0.00	24.00	. 0	2	
	NADAKA	14	055H		TK	101	{A}	3.00	: i	3,00	4.00	0,00	12.00	0	2	
· · ·	WATUMPE	15	DSSN		TN	lot	(C)	6.00	1	6.00	4.00	0,00	24,00	0	2	
36 .	BONE BONE Wansertwu		NPAE	KK	IN	lor	(B)	36.00	8	4.50		144.00		7		1118-
			WPAE	KK		· • • • • • • • •		28.00	7	4.00	••	112.00			2	
37			MPAE	KK				10.00	<u>:</u> 4	2,50	4.00	40.00	·	3.		111B-
	KATANGANA 1	7	WPAE	<u>. KK</u>				7.00		3.50	4.00	28.00		<u> </u>	2	
38	LANEOLO	2	KTGN	KK.				5.00	ا	5.00	4.00	20.00		0	2	1118-
39	KATANGANA	1	KT6H	KK				35.00	- 6	5.83	4.00	140.00		5	2	1118-
49	LON. BELANDA II Nanodada		LBB		11		(C)	6.00	1.	6.00	4.00	0.00	24.00	0	2	IIIC
	WAMORAPA	2	LBB	~-	TH	101	(0)	8.00	1	B.00	4.00	0.00	32.00	0	2	
	LON. BOLIO Labuko	4 7-	1.00 1.00		TH Th	LOT Lot	(C) (C)	7.00 6.00	1	7.00 6.00	4.00	0.00	28.00	0	2	
50	KO8A-KOBA	1	L SHA		TH	LOT	(C)	7.00		7.00	4.00	0.00	28.00	0	2	1110
	WALUE		LSNA		TH	LOT	(C)	40.00	5	8.00						1110
	LAYA		LSHA		TM	101					4.00		160.00	- 4	2	
	LAANAKAPATA		LSHA		111 T.M		(C) (C)	50.00		7.14	4.00	0.00	200.00	6	2	
	CODUCTURIN	3	CONH	**	10	101	(C)	7.00	I.	7.00	4.00	0.00	28.00	0	2	

37--A--48

Appendix A-7

CONSTRUCTION AND MAINTENANCE COST OF BRIDGES ON PROPOSED ROAD LINKS

FROV : SULAWESI TENGBARA KAU : MUNA

LINK NO : 6 (III8-1) LENGTH : 2 Km

		**********					(R	ip 1
I T E K	UNIT	QUARTETY	<<< UNIT LOCAL	CUST >>> FOREIGN	<<<<< Local.	COST FOREIGN	\$>>> To) ITAL

Superstructure (Tinber;Span Jm;101)	#2	0.00	45,559	4,084	٥	^		
Superstructure (Timber;Span 5m;101)	R 2	0.00	50,463	4,509	0	0		
Superstructure (limber;Span Bm;101)	e2		66,841	5,922	U A	v		2
Superstructure (limber;Span 3m;BH50)	m2	0.00	56,491	5,049	0	· •		
Superstructure (limber;Span 5m;BH50)	∎2	0.00	61,673	5,471	0	V A		
Superstructure (Timber;Span 8m;8H50)	=2	0.00	78,217	6,925	0	· · · · ·		- 1
Superstructure (Concrete; Span Ja; BNSO)	a Z		50,846	87,433	. ()		· · · · ·	
Superstructure (Concrete;Span Se;BHS0)	#2	0.00	52,182	97,542	0	· V		2
Superstructure (Concrete;Span 80;BNSO)	#2	0.00	53,726	106,148	. 0	V A		2
Superstructure (Concrete; SpaniOa; BH50)	R2		58,730	120,400	0	· • •		
Superstructure (Concrete;Span15m;BH50)	"2 "2		63,247	111,625	ò	0		
Substructure (Pier:for limber:101)	ND	0.00	396,853	37,996	· ^	. V		
Substructure (Abut; for fimber; [OT)	NO	0.00	1,079,749	172,146	0	. 0	÷.,	- 1
Substructure (Pier;for lieber;8050)	NO	0.00	593,653	56,242	0	in in		
Substructure (Abut; for Timber; 8850)	NO		1,220,647	192,243	. 0	U 10	÷.,	
Substructure (Pier;for Concrete;BH50)	NØ	0.00	1,540,360		0	•		
Substructure (Abut;for Concrete;BNSO)	NO	0.00		478,596	· · · · ·	0		I
Demolition of Bridge (Timber-)Timber)	n0 102	0.00		1,002,690		Ų A		4
Demolition of Bridge (linber-)Concrete)			12,605	1,552	0	0		. 1
Demolition of Bridge (Concrete)	82	0.00	12,605	1,552		0		4
perpirition of pringe (punctere)	m2	0.00	77,585	68,755	0			
Naintenance of Timber Bridge (New)	a 2	0.00	8,201	1,233	0	0		(
Haintenance of Concrete Bridge (New)	eZ	0.00	1,857	2,792	0	0	$(A_{i}) = \sum_{i=1}^{n} (A_{i}) = A_{i}$	
Naintenance of Timber Bridge (Exist)	6 2		7,648	2,462	183,552	59,098	242	64
Haintenance of Concrete Bridge (Exist)	R2	0.00	3,919	2,404	0	0		
(Hithout Overhead)	••••	IOTAL COST	(Timber Bridg	je}	0			
		÷	(Concrete Bri		• 0	i)		
]	IOTAL COST	(without Main	itenance)	0	0		
{ Overhead ; 151 }		INTAL COST	(Timber Bridg	(e)	0	0		1
			(Concrete Bri	dgel	0	0		
	1	INTAL COST	(without Mair		0	n		

PROV SULAWESI TENGGARA КАВ 2.

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MUNA

	:						t Rp .
JTEH	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> Foreign	\\\\\ LOCAL	COST FOREIGN	>>>>> TOTAI
uperstructure (Timber;Span 3m;101)	#Z		45,559	4,094	Q.	0	· · · · · ·
uperstructure (limber;Span 5m;101)	e2		50,463	1,509	807,408	72,114	B79,55
operstructure (Timber;Span Amit01)	#2		66,841	5,922	. 0.		le de la
operstructure (Timber;Span 3m;8H50)	a2	0.00	56,491	5,049	0	0	
uperstructure (finber;Span Sn;RN50)	#Z	0.00	61,673	5,471	0	U Q	
uperstructore (Timber;Span 8m;RH50)	N2	0.00	78,217	6,925	V	0	
iperstructure (Concrete:Span 34;8850)	■2		50,846	87,433	0		$ _{\mathcal{H}_{2}} = _{\mathcal{H}_{2}} + _{\mathcal{H}_{2}} + _{\mathcal{H}_{2}} + $
perstructure (Concrete;Span Sm;BN50)	#2 - 1	0.00	52,182	97,542	V V	0	
aperstructure (Concrete;Span 8a;BHSO)	, #2 -7	0.00	53,726	106,148	0	. 0	
uperstructure (Concrete;Span10a;BN50)	⇒ #2 #2	0.00	58,730	120,400	0	0	1.11
uperstructure (Concrete;Span15a;BH50) ubstructure (Pier;for Timber;10T)	NO	0.00		141,625	0	0	
ubstructure (Abut;for Timber;101)	NO	2.00	396,853	37,996	7 160 100	244 202	2 507 1
ubstructure (Pier;for Timber;BH50)	- NO		1,079,749	172,146	2,159,498	344,292	2,503,7
ubstructure (Abut;for Timber;BN50)	ND	0.00	1,220,547	192,243		0 D	
ubstructure (Pier;for Concrete;DNSO)	NO		1,540,360	478,596	- 0	<i>"</i>	
ubstructure (Abut;for Concrete;BN50)	NO		3,247,012	1,002,690	. · · · ·	. V	1 A.
exolition of Bridge (limber-)limber}	#2	0.00	12,605	1,552	0	Ŏ	
emailtion of Bridge (limber-)Concrete)	o2	0.00		1,552	ů	Ň	. *
emplition of Bridge (Concrete)	#2	0.00	77,585	68,755	Û	Û	4
sintenance of Timber Oridge (New)	m2	16.00	8,201	1,233	131,216	19,728	150,91
aintenance of Concrete Bridge (Nex)	s2	0.00		2,792	0	0	toop 1
aintenance of liøber Bridge (Exist)	a2	0.00			0	0	
aintenance of Concrete Bridge (Exist)	n 2	0.00	3,919	2,404	0	0	
(Without Overhead)	T	OTAL COST	(Timber Bridg		2,966,906	416,436	3,393,34
	-		(Concrete Bri	-	0	0	
	1	UTAL CUST	(without Mair	itenancel	2,966,906	416,436	3,383,3
	•••••••						
(Uverhead : 15%)	I	OTAL COST	(limber Bridg	e)	3,411,942	478,901	3,890,8
			(Concrete Bri		0	0	
•	J	OTAL COST	Without Hain	tenancel	3,411,942	478,901	3,890,8

PROV : SULAWESI TENGBARA

KAĐ MUNA ÷.

LINK NO : 18 (IIIC) LENGTH :

4 K.m

							<u>(</u> - Rp
	UNIT	QUANTITY	KKK UNTT Local	COST >>> FOREIGN	<<<<< Local	COST FOREIGN	>>>>>> Tota
				*****	88+4 44 -4-7488484		
uperstructure (Timber;Span 3m;101)	-2	0.00	45,559	4,084	0	0	
uperstructure (limber;Span 5m;10])	#2	16.00	50,463	4,509	807,40B	72,144	879,55
uperstructure (Timber;Span Bm;10f)	•2	0.00	66,841	5,922	0	0	01100
uperstructure (limber:Span Jm;8050)	# 2	0.00	56,491	5,049	D D	- 0	
uperstructure (Timber;Span Sm; 8H50)	s2	0.00	61,673	5,471	. Ő	Å	
uperstructure (limber;Span 8m;DH50)	.2	0.00	78,217	6,925	0	· 0	
uperstructure (Concrete;Span 3#;8H50)	n2	0.00	50,846	87,433	ů.	A .	
uperstructure (Concrete;Span 5a;BHSO)	.2		52,182	97,542	1	່. ຄໍ່	
uperstructure (Concrete;Span 8#;BH50)	#2	0.00	53,726	106,148	ů.	v A	
operstructure (Concrete;SpanlOn;BHSO)	n2	0.00	58,730	120,400	. 0	. <u>р</u> .	
uperstructure (Concrete;Span15#;DX50)	a2	0.00	63,247	141,625	. 0	0	
ubstructure (Pier;for lisber;10)	ND	0,00	396,853	37,996	0	Ň	
ubstructure (Abut; for limber; 101)	Na	2.00	1,079,749	172,146	2,159,498	344,292	2,503,79
ubstructure (Pier;for limber;8H50)	NO	0.00	583,653	56,242	0	6 - C	e10/01/1
ubstructure (Abut; for Timber; 8450)	NO	0.00	1,220,647	192,243	Ň	0	
ubstructure (Pier;for Concrete;8850)	NO	0.00	1,540,360	478,596	· 6	. <u>ñ</u> .	
ubstructure (Abut; for Concrete; 8H50)	NO	0.00	3,247,012	1,002,690	Ô	ů 0	
emolition of Bridge (Timber-)Timber)	∎2	0,00	12,605	1,552	Ň	ò	
emolition of Bridge (Timber-)Concrete)	#2	0.00	12,605	1,552	0	ů	
lenalition of Bridge (Concrete)	•2	0.00	77,585	68,755	0	ů	
			·		· · · · · · · · · · · · · · · · · · ·		· · · ·
aintenance of Timber Bridge (New)	•2	16.00	8,201	1,233	131,216	19,728	150,94
aintenance of Concrete Bridge (New)	. R2	0.00	1,857	2,792	0	0	
aintenance of linber Bridge (Exist)	•2		7,648	2,462	0	0	1 A A
aintenance of Concrete Bridge (Exist)	#2	0.00	3,919	2,404	0	0	•
(Wilhout Overhead)		MAL FAST	(limber Bride		2,966,906	416,436	3,383,34
Contract Orechego /		Stir Stat	(Concrete 8rd		1,001,00	110,130	
•	. 1	OTAL COST	(without Hair		2,966,906	416,436	3,383,34
(Overhead : 15%)	T	OTAL COST	(Timber Brid		3,411,942	478,901	3,890,84
			(Concrete Br		0	0	
	1	DIAL COST	(without Hair	ntenance)	3,411,942	478,901	3,890,84

: GULOWEBI TENDHARA KAB

LUNE NO : 19 (LUC)

PROV.

LENGTH : 6 Km

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NUMA

							(Rp)
ITEN	UNIT	QUANTITY	<<< UNIT LOCAL	COST >>> FOREIGN	///// Local	CUSI Foreign	>>>>>> Total
Superstructure (limber;Span 3m;101)	#2	0.00	45,559	4,084	0	0	(
Superstructure (Tinder;Span Sa;101)	.#2	16.00	50,463	4,509	807,408	72,144	879,552
Superstructure (limber;Span 8m;101)	ø2	0.00	66,841	5,922	0	0	(
Superstructure (Timber;Span 3m;BH50)	#2	0.00	56,191	5,049	. 0	- 0	(
Superstructure (Timber:Span Sm;BMS0)	s2	0.00	61,673	5,471	0	. 0	
Superstructure (Timber;Span 8m;BHSO)	a2		78,217	6,925	0	0	
Superstructure (Concrete;Span 3m;BHSO)	#2	0.00	50,846	87,433		0	
Superstructure (Concrete;Span 5x;BH50)	B2	0.00	52,182	97,542	0	0	
Superstructure (Concrete;Span Ba;BH50)	s 2	0.00	53,726	105,148	0	. 0	(
Superstructure (Concrete;Span10#;BNS0)	B2	0.00	58,730	120,400	0	0	
Superstructure (Concrete;Span15#;BHSO)	#2	0.00	63,247	141,625	0	. 0	
Substructure (Pier; for Timber; 101)	NO	0.00	396 853	37,996	0	0	
Substructure (Abut; for finber; 101)	NO		1,079,749	172,146	2,159,498	344,292	2,503,79
Substructure (Pier;for Timber;BN50)	ND	0.00	583,653	56,242		0	.,,.
Substructure (Abut; for Timber; 8H50)	NO		1,220,647	172,243	. 0	0	
Substructure (Piertior Concrete; BH50)	KO	0.00	1,540,360	478 596	0	0	÷
Substructure (Abut; for Concrete; BH50)	NO	0.00	3,247,012	1,002,690	0	0	· · · · ·
Demolition of Bridge (limber-)limber)	. #2	0.00	12,605	1,552	0	Ó	
lemnilition of Bridge (Timber-)Concrete)	s2	0.00	12,605	1,552	Q	. 0	· · ·
De≖olition of Bridge (Concrete)	. a2	0.00	77,585	68,755	0	0	·
laintenance of Timber Bridge (New)	#2	16.00	8,201	1,233	131,216	19,728	150,94
aintenance of Concrete Bridge (New)	a2	0.00	1,957	2,792	. 0	0	
laintenance of limber Bridge (Exist)	a2	0.00	7,648	2,462	0	0	I
laintenance of Concrete Bridge (Exist)	#2	0.00	3,919	2,404	0	. 0	
				-,			÷.,
(Nithout Overhead)	1	DIAL COST	lTi∎ber Brid	gel	2,966,906	416,436	3,383,34
			(Concrete Br		0	0	
	Ţ	OTAL COST	(without Hai	ntenancel	2,966,906	416,436	3,383,34
			••••				
(Overhead : 15%)	Ĩ	DTAL COST	flimber Brid (Concrete Br		3,415,942 0	478,901	3,890,84
	T	OTAL CUST	(without Mai	•	3,411,942	478,901	3,890,84

ETHENG : 21 (IIIE)

LENGTH : 7 Km

JTEN		*******	******	<:< UNIT	COST >>>))))		COST		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
		UNIT	QUANTITY	LOCAL	FOREIGN	LUCAL		FUREIGN		ATO1
Superstructure (Timber;Span 3m;101)	#2	0.00	45,559	4,084	0		۵		
	Tinber;Span 5n;101)	#2	0.00	50,463	4,509	0		0		1.1
luperstructure (finber;Span 8n;101)	a2	0.00	66,841	5,922	Ő	· · ·	้อ้	· .	
Superstructure (linber;Span 3m;BH50)	n 2	0.00	56,491	5,049	n i	•	Ň		
Superstructure (Tisber;Span 5s;BH50)	a2	0.00	61,673	5,471	ů		Å		
ouperstructure (liober;Span Bo;BH50)	•2	0.00	78,217	6,925	. 0.		0		-*
uperstructure (Concrete;Span 3#;8HSO)	#2	0.00	50,846	87,433	0		n.		
Superstructure (Concrete:Span 5±;8850)	a2.	0.00	52,182	97,542	0				
Superstructure (Concrete;Span 8m;BHS0)	a2	0.00	53,726	105,148	Ō	1.	Ŏ		
loperstructure (Concrete;Span1(#;BM50)		0.00	58,730	120,400	0		Ő.		
Superstructure (Concrete;Span15#;BX50}	m2	0.00	63,247	141,625	0		õ	•	
Substructure (Pi	er;for limber;101)	NO	0.00	396.853	37,996	0		Ō		
	ut;for fisher:101)	NO	0.00	1,079,749	172,146	. 0		0		
Substructure (Pi	er;for linber;BH50)	NO	0.00	583,653	56,242	. 0		0		
	ut;for Timber;BHS01	NO	0.00	1,220,647	192,243	0		Ó		1 1
Substructure (Pi	er; for Concrete; 8H50)	NO	0.00	1,540,360	478,596	Ó	•	Q		
ubstructure (Ab	ut;for Concrete;BHSO)	. NO	0.00	3,247,012	1,002,690	. 0		Ô		· .
emolition of Br	idge (limber-)limber)	a 2	0.00	12,605	1,552	0		0		
emolition of Br	idge {limber->Concrete}	n2	0.00	12,605	1,552	. 0		0		
eaolition of Br	idge (Concrete)	#2	0.00	77,585	68,755	0		0		
laintenance of I	inber Bridge (New)	e2	0.00	8,201	1.233	0		0		
laintenance of C	Concrete Bridge (New)	₽2	0.00	1,857		0		0		:
	inber Bridge (Exist)	#2	21.00	7,649	2,462	183,552		59,088		212,64
laintenance of C	oncrete Bridge (Exist)	#Z	0.00	3,919	•.	0	· ·	0		
	····					•••••••••				
{ }	fithout Overhead)	ĭ		(limber Bridg		0		0		
				(Concrete Bri		0		0		
	·	1	OTAL CUST	(without Mair	itenance)	. 0		0		
t f	lverhead : 15%)	-	NTAL COST	(linber Bride	10)	. 0		0		
		•	o.m. 0001	(Concrete Bri		ů 0		ů.		-
		7	1203 IA16	Without Hair		ů.		. 0		

FROV : SULAWEST TENDEARA KAB : MUNA

LINK NO : 22 (IIIC) LENGTH : 10 Km

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i	NO	1

·				·				1 119 1
ITEH		URLT	QUANTITY	<<< UNIT LOCAL	COSI >>> Foreton	///// Local	COS1 FORE LGN	\\\\ 010

Superstructure (limber;S		#2	0.00	45,559	4,084	0	0	(
Superstructure (limber;5)		. n2	16.00	50,463	4,509	807,408	72,144	879,55
Superstructure (Himber;Sp		#2	0.00	66,841	5,922	. 0	Q	
Superstructure (limber(S		≈2	0.00	56,491	5,049	0	. 0	
Superstructure (Timber;S		s2	0.00	61,673	5,471	0	0	
Superstructure (limber;S		#2		78,217	6,925	0	0	
uperstructure (Concrete		#2	0.00	50,846	87,433	. 0	0	
uperstructure (Concrete	Span 5#;BH50)	#2	0.00	52,182	97,542	. 0	. 0	
operstructure (Concrete		.m2	0.00	53,726	106,148	0	, Q	
Superstructure (Concrete		•2		58,730	120,400	0	0	•
Superstructure (Concrete	Span15n; BHSO)	n2	0.00	63,247	141,625	0	0	
Substructure (Pier:for T	nber;101)	ŃŨ	0.00	396,853	37,996	0	0	
lubstructure (Abut;for Ti	imber;10T)	NO	2.00	1,079,749	172,146	2,159,498	344,292	2,503,79
Nubstrücture (Pier;for Ti		NO	0.00	583,653	56,242	0	0	• •
ubstructure (Abut;for T	inber;8H50)	NO	0.00	1,220,647	192,243	Ö	0	
ubstructure (Pier;for Co		NO	0.00	1,540,360	478,596	0	0	1
ubstructure (Abut;for Co		NO	0.00	3,247,012	1,002,690	0	0	
enolition of Bridge (Tin		e2	0.00	12,605	1,552	0	, Q	
enolition of Bridge (Tin		a2	0.00	12,605	1,552	0	0	
enolition of Bridge (Co		#2	0.00	77,585	69,755	0	0	1. A.
aintenance of Timber Bri	dge (Nex)	#2	16.00	8,201	1,233	131,216	17,728	150,94
laintenance of Concrete I		2	0.00	1,857	2,792	0	0	•
laintenance of Timber Bri		#2	0.00	7,648	2,462	. 0	0	
laintenance of Concrete		a2		3,919	2,404	0	0	
(Without O	verhead)	·····	INTAL COSE	(limber Brid	ne)	2,966,906	416,436	3,383,34
				(Concrete Bri		2,700,700	. 0	
		, I	OTAL COST	Without Hair		2,966,906	416,436	3,383,34
t Overhead	157.)	1	DIAL COST	llimber Bride (Concrete Bri		3,411,942	478,901 0	3,890,84
		1	INTAL COST	Inithout Main		3,411,942	478,901	3,890,84

1409 : SULAWESI TENGBARA KAB : MUNA

LINK MO : 25 (LILC) LENUTH : 17 Km

	*****			********		*	(Rp)
	UNIT	QUANTITY	<<< UNIT Local	COS1 >>> Foreign	((((()))))) Local	COST Fore Lon	>>>>> 10tal

operstructure (limber;Span 3m;101)	n2	0.00	15,559	1,084	0	0	. (
operstructure (limber;Span Sm;101)	#2	0.00	50,463	4,509	0	0	ан на (
operstructure (liøber;Span 8m;101)	#2	0.00	66,841	5,922	- 0	0	· · · · · (
uperstructure (Finber;Span 3m;BH50)	#2	0.00	56,491	5,049	0	0	
uperstructure (linber;Span Sa;BH50)	. n2	0.00	61,673	5,471	0	0	
perstructure (Timber;Span 8m;RH50)	a2	0.00	78,217	6,925	0	0	(
operstructure (Concrete;Span 3a;BH50)	a2	0.00	50,846	87,433		0	
uperstructure (Concrete;Span 5n;DHSO)	m 2	0.00	52,182	97,542	0	0	
uperstructure (Concrete;Span 9#;BN50)	a2	0.00	53,726	106,148	0	0	
uperstructure (Concrete;Spanton;BMSO)	. e2	0.00	58,730	120,400	0	- 0	
operstructure (Concrete;Span15m;BMS0)	R2	0.00	63,247	141,625	0	. 0	1 1 A
ubstructure (Pier;för Timber;101)	NO	0.00	396,853	37,996	0	0	. (
ubstructure (Abut;for Timber;101)	NO	0.00	1,079,749	172,146	0	0	
ubstructure (Pier;for Timber;BH50)	ND	0.00	583,653	56,242	0	. 0	
ubstructure (Abut;for Timber;8850)	NO	0.00	1,220,647	192,243	. 0	0	. (
ubstructure (Pier; for Concrete; BH50)	NO	0.00	1,540,360	478,596	0	0	
ubstructure (Abut;for Concrete;BH50)	KO	0.00	3,247,012	1,002,690	0	0	· · · . (
emolition of Bridge (limber-)limber)	#2	0.00	12,605	1,552	0	Ó	1
emolition of Bridge (limber-)Concrete)	. c2	0.00	12,605	1,552	0	0	
emplition of Bridge (Concrete)	a2	0.00	77,585	68,755	0	• 0 •	
aintenance of Timber Bridge (New)	#2	0.00	ė,201	1,233	0	0	· . • .
aintenance of Concrete Bridge (Rem)	e2	0.00	1,857	2,792	0	0	· . · I
aintenance of Timber Bridge (Exist)	a2	126.00	7,648	•	963,648	310,212	1,273,86
aintenance of Concrete Bridge (Exist)	•2		3,919	2,404	0	0	
·							
(Hithoul Overhead)		01AL COST	(limber Brid		0	. 0	
y wirning averaged t			Concrete Br		0	0	
	1	0161 COST	Without Mai		0	v 0	
			(#1(1)(9)(1)(1)		v		
(Overhead : 15%)	1	DTAL COST	(linber Brid	nel	. 0	0	
			(Concrete Br	• • •	Ō	ů	
	. 1		(without Main		0		

PROV : SULAWESI TENGGARA

28

((118~2)

KAB : MUNA

ð Km

LENGTH :

LUNK NO 👔

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1 Rei

				· · ·					(Rp)	
I T E N	INT	QUANTITY		COST >>> FOREIGN		KKKK	CU FOREI		>>>>> TOTAL	-
	U3114	4000011111	LUUNL							
			а. 1							
Superstructure (limber;Span 3m;101)	#2	0.00	45,559	4,084	· ·	· Q ·	1997 - E.	() ·	(
Superstructure (Timber;Span 5#;101)	×2	0.00	50,463	4,509		.0	1	0	Q.	
Superstructure (limber;Span 8#;101)	#2	0.00	65,841	5,922		0		Ø		
Superstructure (limber;Span 3m;BH50)	. n2	0.00	56,491	5,049		0		0	0	
Superstructure (Timber;Span Sm;BH50)	02	0.00	61,673	:5,471		0		Û	9	
Superstructure (limber;Span R#:RH50)	#2	0.00	78,217	6,925		0		0	0	
Superstructure (Concrete;Span 3m;BH50)	-2	0.00	50,846	87,433		0	1.1	0 .	0	
Superstructure (Concrete;Span 5#;8850)	#2	0.00	52,182	97,542		0		0 -	· · · · · • •	
Superstructure (Concrete;Span 8m;BHSO)	nZ.	0.00	53,726	106,148		0		0	Q	
Superstructure (Concrete;Span10#;BH50)	m2	0.00	58,730	120,400		0		0	0	
Superstructure (Concrete; Span15m; 8N50)	a	0.00	63,247	141,625		: 0		0	. 0	
Substructure (Pier;for Timber;101)	- NO	0.00	396,853	37,996		0.0		0	0 1	
Substructure (Abut;for Tisber;107)	NO	0.00	1.079,749	172,146		0		0	· · Q	
Substructure (Pier: for Timber: 8050)	NO	0.00	593,653	56,242		0		0	0	
Substructure (Abut:for Timber;BHSO)	NO	0.00	1,220,647	192,213		0		0 .	0	
Substructure (Pier: for Concrete; 0850)	HO	0.00	1,540,360	478,596		0		0	. 0	
Substructure (Abul;for Concrete;8850)	NO	0.00	3,247,012	1,002,690		Ó		0	0	
Denotition of Bridge [Timber->Timber]	#2	0.00	12,605	1,552		0		0	0	
Demotition of Bridge (limber-)Concrete)	: m 2	0.00		1,552		0		0	0	
Demotition of Bridge (Concrete)	•2	0.00	77,585	68,755		Ö		0		
Haintenance of Timber Bridge (New)	s2	0.00	8,201	1.233		0	·	0	0	
Naintenance of Concrete Bridge (New)		0.00	1,857	2,792		0		0	0	
Maintenance of Timber Bridge (Exist)	#2	56.00	7,648		T.	28,289	137,8	12	556,160	
Haintenance of Concrete Bridge (Exist)	#2	0.00	3,919	2,404	-	0		0	0	
· · · · · · · · · · · · · · · · · · ·						•				
(Hithout Overhead)		Olai Phor		1999 - 1999 -					•	
V HELHOUE UVERHEAU J		UTAL 6031	(Timber Brid			0	1	0	0	
		ATAL DARY	(Concrete Br			v		V A	0	
	1	UTAL LUST	(without Nai)	ncenancei		0		Ų	Ō	
			·.				,			
1 h 1	-					:				
(Overhead : 15%)	1		(Tinber Brid			0		0	. 0	
· · ·	-		(Concrete Br			0		Q	0	
		DIAL COCY	(without Nai)	ntanserat		0		0	0	

PROV SULAWESI TENBGARA t $\mathbf{32}$

KAB ţ MUNA

LINK NO

1

(IIIB-1) LENGTH : 19] Km

1 T E H				641AU	<<< UNIT	COST >>>			>>>>>>
			 81 I 	QUANTITY	LUCAL	FOREIGN	LOCAL	FOREIGN	TOTA
· · · ·									
uperstructure			#2	0.00	45,559	4,084	· 0	0	· ·
uperstructure	(fimber;Span	5a;10T)	#2	76.00	50,463	4,507	3,835,188	342,684	4,177,8
uperstructure	(lieber;Spar	(Bm; LOT)	82	0.00	66,841	5,922	0	0	
uperstructure	(Timber; Spar	3a; BH50)	a 2	0.00	56,491	5,049		0	· · ·
operstructure	(linber;Spar	1 5#j9N50}	ø2	0.00	61,673		. 0	. 0	
	(limber;Spar		n 2	0.00	78,217	6,925	. 0	0	
	(Concrete; S		• # 2 ·	0.00	50,846	87,433	0	0	
uperstructure	(Concrete; Sp	an S#;8850)	42	0.00	52,182	97,542	-	, i	
uperstructure	(Concrete; S	an 8s;8850)	-#2	0.00	53,726	106,148	0		
uperstructure	(Concrete;S	an10m;8M50)	#2		58,730	120,400	0	ň	
uperstructure	(Concrete; S	an15#;BH50}	=2	0.00	63,247	141,625	. 0	Â	
ubstructure	Piersfor fin	per;10T)	NO	2.00		37,995	793,706	75,992	859.5
	Abut:for lim		ĦØ	4.00	1,079,749	172,146	4,318,996	688,584	5,007,5
	Piersfor Tim		NO	0.00	593,653	56,242	0	0	*) • • • • • •
ubstructure (Abut; for Tiat	per; 8X50)	NO	0.00	1,220,647	192,243	Ō	0	
ubstructure (Pier;for Con	rete;BH50)	NO	0.00	1,540,360	478,596	Ŏ	. 0 .	
	Abut; for Cont		NO.		3,247,012	1,002,690	0	ŏ	
	Bridge (limbe		∎2	0,00	12,605	1,552	. 0	0	
	Bridge (Timbe		#2	0.00	12,605	1,552	0	0	
emplition of	Bridge (Conce	ete)	m 2	0.00	77,585	68,755	0	. 0	
aintenance of	Timber Bridg	n (New)	ø2	76.00	8,201	1,233	623,276	93,708	711 0
	Concrete Bri		#2			2,792	023,276	· · · · · · · · · · · · · · · · · · ·	71619
	Tieber Bridg		#2		7,648	2,462	· . 0	0	
	Concrete Bri		 12		3,919	2,404	0	0	· .
athrenonic Di	CONCIECE DI	uge sexistr		0.00	2111	2,101	U	0	· .
*****			 	******					
ан на с	Without Over	head)	1	OTAL COST	(Timber Brid	lge)	B,947,890	1,107,260	10,055,1
		-	7		(Concrete Br		0 042 000	0 A 10 1 01 1	46
			1	UTHE LOST	(without Hai	ntevauce)	8,947,890	1,107,260	10,055,1
	~~~~~		 ••••					***********	
м <b>(</b>	Overhead : I	51)	1	OTAL COST	(Timber Brid		10,290,074	1,273,349	11,563,4
					(Concrete Br		0	0	
	· ·		. 1	OTAL COST	(without Mai	ntenance)	10,290,074	1,273,349	11,563,4

PROV	<b>1</b> .	SULAWESI TENDOARA	КАВ	ŧ	MUNA
LINK NO	1	34 (IIIB~1)	LENGTH	:	15 Km

(Rp)	
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		4					с кр. і
	UNIT	QUANTITY		COST >>> Foreign	\\\ Local	(( COST FOREIGN	>>>>> Total
Superstructure (Timber;Span 3m;10T)	a2	24.00	45,559	4,084	1,093,416	98,016	1,191,432
Superstructure (Timber:Span 5m;101)	•2	16.00	50,463	4,509	B07,40B	72,144	879,552
Superstructure (Timber;Span 8m;101)	#Z	96.00	66,841	5,922	6,416,736	568,512	6,985,248
Superstructure (Timber;Span 3m;BNSO)	e2	0.00	56,491	5,049	· · · · •	0	· ()
Superstructure (limber;Span Sm;BMSO)	#2	0.00	61,673	5,471	- <b>0</b>	<b>. ()</b>	. 6
Superstructure (Timber;Span Ba;BHSO)	∎2	0.00	78,217	6,925	0	0	· · · · (
Superstructure (Concrete;Span 3m;BNSO)	£2	0.00	50,846	87,433	G	0	. 0
Superstructure (Concrete;Span 5m;BHSO)	82	0.00	52,182	97,542	0	0	
Superstructure (Concrete;Span 8m;BH50)	62	0.00	53,726	106,148	0	0	
Auperstructure (Concrete;Span10m;BN50)	•7	0.00	5B,730	120,400	0	0	· . · (
Superstructure (Concrete;Span15#;BX50)	#2		63,247	141,625	0	۵	· · · · · · · · · · · · · · · · · · ·
ubstructure (Pier;for Tlaber;101)	NO	1.00	396,853	37,996	396,953	37,996	434,84
Substructure (Abut;for Timber;101)	NO	12.00	1,079,749	172,146	12,956,988	2,065,752	15,022,74
ubstructure (Pier;for Timber;8H50)	NO	0.00	583,653	56,242	0	-1	
ubstructure (Abut;for Timber;8N50)	NO	0.00	1,220,647		õ		
ubstructure (Pier;for Concrete;BH50)	NO	0.00	1,540,360	478,596	ň	0	
Substructure (Abutilor Concrete:BM50)	NO	0.00	3,247,012	1,002,690	· A.		
eadlition of Bridge (Timber->Timber)	#2	0.00	12,605	1,552	· Å	. 0	
Demolition of Oridge (Timber-)Concrete)	BZ		12,605	1,552	V A	۰ ۱	
Demolition of Bridge (Concrete)	#2 #2	0.00	77,585	1,352	V .	, v	
VEROLITION OF DIJUGE (CONCIDENT)	#1	0.00	11,000	001100		· · · ·	
faintenance of Timber Bridge (New)	-1	171 00	6 161	1 977	1 115 77/	123.160	1 307 031
	e2	136.00	8,201	1,233	1,115,336	167,688	1,283,02
faintenance of Concrete Bridge (New)	•2	0.00	1,857	2,792		0	
aintenance of Høber Bridge (Exist)	#2	80.00	7,648	2,462	611,840	196,960	808,80
laintenance of Concrete Bridge (Exist)	#2	0.00	3,919	2,404	0	0	· •
( Without Overhead )	T	OTAL COST	(limber Brid		21,671,401	2,842,420	24,513,82
			(Concrete Br	idge)	0	0	(
	Ţ	OTAL COST	(without Hai	ntenance)	21,671,401	2,842,420	24,513,82
			· ·				
( Overhead : 15% )	T	OTAL COST	(linber Brid	ge)	24,922,111	3,268,703	28,190,89
			(Concrete Br		0	0	
	· Y	OTAL COST	(without Hai		24,927,111	3,268,783	28,190,89
						-1-0-1.00	*******

PROV	t	SULAWESI TENGGARA	KAB	Ţ	MUNA
LINK NO	:	36 (1118-1)	LEMATH		o ka

(IIIB-1) LENGTH : 8 Km 36

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				·			( Rp
ITEN.	UNIT	QUANTERY	((( UNIT Local	COST >>> Foreign	<<<<< Local	COST FORE IGN	>>>>>> fotal
	*		***************				
uperstructure (limber;Span 3m;10T)	∎2 .	0.00	45,559	4,084	۰. ۵	• 6	
uperstructure (Timber;Span 5#;101)	#2	144.00	50,463		7,266,672	649,296	7,915,96
uperstructure (Timber;Span 8m;10T)	•2	0.00	66,841	5,922	112001012	011110 N	111210
uperstructure (Timber;Span 3m;BH50)	#2	0.00	56,491	5,049	Ô	ů	- 1
uperstructure (Timber;Span 5#;BN50)	a2	0.00		5,471	n n	0	
uperstructure (Timber;Span 8m;BMSO)	<b>2</b>	0.00	78,217		0		
uperstructure (Concrete;Span 3m;BM50)	. #2	0.00		87,433	ò	õ	1990 - C
uperstructure (Concrete;Span 5m;BM50)	•2	0.00		97,542	ň	· · · · ·	
uperstructure (Concrete;Span Bs;BH50)	#2	0.00	53,726	106,148	ň	Ň	
uperstructure (Concrete;Span10m;BH50)	a2		58,730	120,400		0	
uperstructure (Concrete;Span15#;BN50)	a2	0.00	63,247	141,625		ň	and the second sec
ubstructure (Pier;for Timber;101)	NO		396,B53	37,998	2,777,971	265,972	3,043,94
ubstructure (Abut;for Timber;101)	NO	2.00	1,079,749	172,146	2,159,498	344,292	2,503,79
ubstructure (Pier;for Timber;BN50)	NO	0.00	583,653	56,242	11001100	0	*level.
ubstructure (Abut;for Timber;BN50)	NO		1,220,647	192,243		ň	
ubstructure (Pier;for Concrete;BN50)	NO		1,540,360	478,596	ň	, n	•
ubstructure (Abut;for Concrete;BH50)	NO	0.00	3,247,012	1,007,690	ð		
emolition of Bridge (Timber-)Timber)	s2	144.00		1,552	1,815,120	223,488	2,038,60
emolition of Bridge (limber-)Concrete)	a2	0.00	12,605	1,552	0	0	
emplition of Bridge (Concrete)	a2	0.00	77,585		0	0	
aintenance of Timber Bridge (New)	<b>s</b> 2	144.00	8,201	1,233	1,180,944	177,552	1,358,49
aintenance of Concrete Bridge (New)	a2	0.00	•		0	0	-,,-
aintenance of Timber Bridge (Exist)	<b>s</b> 2	112.00	7,648	2,462	856,576	275,744	1,132,3
aintenance of Concrete Bridge (Exist)	#2	0.00	3,919	2,404	•	0	
( Without Overhead )	11	JIAL CUST	(Timber Brid (Concrete Br	•	14,019,261 0	1,493,04B 0	15,502,3
	ti	ITAL COST	(without Hai	ntenancel	14,019,261	1,483,048	15,502,3
( Overhead ; 15% )		DTAL COST	(Timber Brid	*	16,122,150	1,705,505	17,827,6
- · · · ·			(Concrete Br		0	0	
	11	DIAL COST	(without Hai	ntenance)	16,122,150	1,705,505	17,827,65

PROV		:	SUL.	AWESI TENGGARA	KAB	. 1	MUNA
t, ink	ND	:	37	(1118-1)	LENGTH	:	7 Km

							( Rp )
ITEN, such and an and a second s	UNIT	QUANTITY	<<< UNIT LOCAL	COST: >>> FOREIGN	<<<<< Local	COST Foreign	>>>>> TOTAL
	*****				,		
uperstructure (limber;Span 3m;101)	s2	0,00	45,559	4,084	() () () () () () () () () () () () () (	¢.	0
Superstructure (limber;Span Sm;101)	<b>n</b> 2		50,463		0	0	
Superstructure (Timber;Span 8a;101)	02		66,941	5,922	.0	. 0	0
Superstructure (Timber;Span 3#;BH50)	82		56,491	5,049	0	. 0	0
Superstructure (limber;Span 5m;BHSO)	.2		61,673	5,471	0	0.	0
Superstructure (Timber;Span B#;BN50)	a2		78,217	6,925	0	0	0
Superstructure (Concrete;Span 3#;BNSO)	s2		50,846	87,433	0	0	0
Superstructure (Concrete;span 5#;BNSO)	#2			97,542	Ó		0
	#2		53,726	106,148	0	· . 0	Â.
Superstructure (Concrete;Span 8#;BN50)					V A	А	
Superstructure (Concrete;SpaniOa;BN50)	. •2		58,730	120,400	. V	0	. ν.·
Superstructure (Concrete;Span15#;BH50)	#2		63,247	111,625	0	V . A	V
Substructure (Pier;for Timber;101)	NO		396,853	37,996	U	· · ·	0
Substructure (Abut;for Timber;101)	NO		1,079,749	172,146	Ų.	. U	· 0
Substructure (Pier;for 11mber;BM50)	NO		583,653	56,242	Ű	. 0	U
Substructure (Abut;for Timber;BH50)	NO		1,220,647	192,243	0	· ()	· U ·
Substructure (Pier;for Concrete;BH50)	NO		1,540,360	478,596	. 0		. 0
Substructure (Abut;for Concrete;BN50)	Na		3,247,012	1,002,690	0	Ű	0
Desolition of Bridge (Timber->Timber)	÷#2	0.00	12,605	1,552	: 0	• • • •	0.
emolition of Bridge (Timber-)Concrete)		0.00	12,605	1,552	0	. <u>Q</u>	· · · 0
Depolition of Bridge (Concrete)	<b>#</b> 2	0.00	77,585	6B,755	0	0	·
laintenance of Timber Bridge (New)	<b>s</b> 2	0.00	8,201	1 233	. 0	. 0	0
taintenance of Concrete Bridge (New)	<b>a</b> 2	0.00	1,857	2,792	0	0	. 0
laintenance of Timber Bridge (Exist)		68.00		2,462	520,064	167,416	687,480
faintenance of Concrete Bridge (Exist)	•2		3,919	2,404	0	0	0
		*******					
( Without Overhead )		IOTAL COST	(Timber Brid	QE)	0	. 0	0
			(Concrete Br		0	0	0
			(without Hai)		0	• 0	0
				<b>-</b>	******		
( Overhead : 15% )		TOTAL COST	(linber Brid	ge)	0	· 0	0
			(Concrete Br	i dao 1	0	0	0
			Toones eve of	rugei	•	•	•

5. F

PROV	3	SULAWESI TENBBARA	KAB	- <b>‡</b>	MUNA
LINK NO	ų	38 (11182)	LENGTH	1	4 Km

	(	R	p	)
 			-	

Superstructure (limber;Span 3m;101)   model   model	1168	UNIT	QUANTITY	<<< UNIT	COST >>> FOREIGN	<<<<< Local	COST Foreign	>>>>>> Total
Superstructure (11)   no   no   S0,483   4,507   no   no     Superstructure (11)   no   no   66,841   5,722   no   no     Superstructure (11)   fileber; Span 3s; BNS0)   no   no   no   no   no     Superstructure (11)   fileber; Span 3s; BNS0)   no   no <t< th=""><th></th><th></th><th>*****</th><th>***********</th><th></th><th>***************</th><th></th><th></th></t<>			*****	***********		***************		
Super Structure (Timber; Span Sm; 101)   n2   0.00   50,463   4,509   0   0     Super structure (Timber; Span Sm; 101)   n2   0.00   56,491   5,049   0   0     Super structure (Timber; Span Sm; 101)   n2   0.00   56,491   5,049   0   0     Super structure (Timber; Span Sm; 101)   n2   0.00   16,473   5,471   0   0   0     Super structure (Concrete; Span Sm; 1050)   n2   0.00   78,217   6,4723   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0<	Superstructure (limber;Span 3m;101)	a2	0.00	45.559	4,084	0	۵	
Superstructure (Timber; Span 3a; BMS0)   =2   0.00   56, 441   5, 922   0   0   0     Superstructure (Timber; Span 3a; BMS0)   =2   0.00   56, 441   5, 922   0   0   0     Superstructure (Timber; Span 3a; BMS0)   =2   0.00   56, 441   5, 922   0   0   0     Superstructure (Timber; Span 3a; BMS0)   =2   0.00   56, 441   5, 922   0   0   0     Superstructure (Concrete; Span 3a; BMS0)   =2   0.00   53, 726   106, 148   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0		<b>n</b> 2	0.00			Õ	, v A	
Super Structure (flimber; Span 3s; BNS0)   a2   0.00   56, 491   5,049   0   0     Super structure (flimber; Span 8s; BNS0)   a2   0.00   61,673   5,471   0   0     Super structure (flimber; Span 8s; BNS0)   a2   0.00   50,846   87,473   0   0   0     Super structure (Concrete; Span 8s; BNS0)   a2   0.00   52,182   97,542   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0		s2	0.00			Ó	. <u> </u>	
Superstructure (11 Suber; Span 5s; BMSO)   s2   0.00   41,673   5,471   0   0     Superstructure (11 Suber; Span 3s; BMSO)   s2   0.00   78,217   6,725   0   0   0     Superstructure (Concrete; Span 3s; BMSO)   s2   0.00   50,184   87,413   0   0   0   0     Superstructure (Concrete; Span 10s; BMSO)   s2   0.00   52,182   77,542   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0		· a2	0.00			ò	. v	
Superstructure (Interrete; Span 6a; BMSO)   a2   0.00   70,217   6,925   0   0   0     Superstructure (Concrete; Span 5a; BMSO)   a2   0.00   52,162   97,542   0   0   0     Superstructure (Concrete; Span 6a; BMSO)   a2   0.00   53,726   106,148   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0 <t< td=""><td></td><td>a2</td><td>0.00</td><td></td><td>•</td><td>ĥ</td><td></td><td></td></t<>		a2	0.00		•	ĥ		
Superstructure (Concrete;Span 3a;BHS0)   e2   0.00   50,846   87,433   0   0   0     Superstructure (Concrete;Span 6a;BHS0)   e2   0.00   52,102   97,542   0   0   0     Superstructure (Concrete;Span 10a;BHS0)   e2   0.00   53,726   106,148   0   0   0     Superstructure (Concrete;Span 10a;BHS0)   e2   0.00   53,726   106,148   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0 <td< td=""><td>Superstructure (Timber:Span Om:BH50)</td><td>e2</td><td></td><td></td><td></td><td>0</td><td>- 14 - <b>0</b></td><td>í</td></td<>	Superstructure (Timber:Span Om:BH50)	e2				0	- 14 - <b>0</b>	í
Superstructure (Concrete;Span 58;BKS0)   e2   0.00   52,182   97,542   0   0   0     Superstructure (Concrete;Span 168;BKS0)   e2   0.00   53,726   106,140   0   0   0     Superstructure (Concrete;Span 168;BKS0)   e2   0.00   53,726   106,140   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	Superstructure (Concrete;Span 3m;BH50)	e2	0.00			Ô	ň	. j
Superstructure (Concrete; Span Ba; BN50)   a2   0.00   53,726   106,148   0   0   0     Superstructure (Concrete; Span Da; BN50)   a2   0.00   58,730   120,400   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	Superstructure (Concrete;Span So;BMSO)	e2				Ô	0	· · ·
Superstructure (Concrete;Span10a;BMS0)   n2   0.00   50,730   120,400   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	Superstructure (Concrete;Span 8#;8N50)	•2				ń		
Superstructure (Concrete;Span1Se; RMSO)   m2   0.00   63,247   141,625   0   0   0     Substructure (Pier; for Tiaber; 101)   N0   0.00   376,853   37,996   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	Superstructure (Concrete; Span10±; BN50)	1				Ň.	0	
Substructure (Pier; for Timber; 101)   N0   0.00   376, 833   37, 996   0   0     Substructure (Abut; for Timber; 8450)   N0   0.00   1,079, 749   172, 146   0   0   0     Substructure (Pier; for Timber; 8450)   N0   0.00   583, 653   56, 242   0   0   0   0     Substructure (Pier; for Timber; 8450)   N0   0.00   1, 220, 647   172, 243   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0						Ň	ά. Δ.	
Substructure (Abut; for Timber; 10T)   H0   0.00   1,079,749   172,146   0   0   0     Substructure (Pier; for Timber; PKS0)   H0   0.00   1,220,647   192,243   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0<						· · · ·	ν - Λ	
Substructure (Pier; for Timber; PNS0)   H0   0.00   503,653   56,742   0   0     Substructure (Abut; for Timber; PNS0)   H0   0.00   1,220,647   192,743   0   0   0     Substructure (Abut; for Concrete; PNS0)   H0   0.00   1,220,647   192,743   0   0   0   0     Substructure (Abut; for Concrete; PNS0)   H0   0.00   1,240,647   192,743   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0						Ň	v ۸	
Substructure (Abut; For Timber; BMSO)   NO   0.00   1,220,647   192,243   0   0   0     Substructure (Abut; For Concrete; BMSO)   NO   0.00   1,540,360   478,596   0   0   0   0     Substructure (Abut; For Concrete; BMSO)   NO   0.00   1,220,647   192,243   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0		NO				Ň	· · ·	
Substructure (Pier; for Concrete; BMS0)   NU   0.00   1,510,360   478,596   0   0   0     Substructure (Abut; for Concrete; BMS0)   NU   0.00   3,217,012   1,002,690   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0		-				ů		. i
Substructure (Abut; for Concrete; RM50)   NU   0.00   3,217,012   1,002,690   0   0   0     Demolition of Bridge (Timber-)Timber)   m2   0.00   12,605   1,552   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0<						Ő	•	
Demolition of Bridge (Timber->)Tabler}   m2   0.00   12,605   1,552   0   0   0     Demolition of Bridge (Timber->Concrete)   m2   0.00   12,605   1,552   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0						ň	· 0	
Demolition of Bridge (limber-)Concrete)     #2     0.00     (2,605     1,552     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0						۰. ۸	n N	
Demolition of Bridge (Concrete)     m2     0.00     77,585     68,755     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>о О · ·</td> <td>0</td> <td></td>						о О · ·	0	
Maintenance of Concrete Bridge (New)   m2   0.00   1,857   2,792   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0						0	Ö	
Haintenance of Concrete Bridge (New)   m2   0.00   1,857   2,792   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	Naintenance of Timber Bridge (New)	₽2	0.00	8,201	1,233	0	0	(
Maintenance of Timber Bridge (Exist)   #2   20.00   7,648   2,462   152,960   49,240   202,200     Maintenance of Concrete Bridge (Exist)   #2   0.00   3,919   2,404   0   0   0     ( Without Overhead )   TOTAL COST (Timber Bridge)   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	Maintenance of Concrete Bridge (New)	#2	0.00	•		0	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Haintenance of Concrete Bridge (Exist)   m2   0.00   3,919   2,404   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	Naintenance of Timber Bridge (Exist)	\$2	20.00	7,648		152,960	49.240	202.200
{Concrete Bridge} 0 0 0 TOTAL COST (without Haintenance) 0 0 0 { Overhead : 15% } TOTAL COST (Timber Bridge) 0 0 0 (Concrete Bridge) 0 0 0	Maintenance of Concrete Bridge (Exist)	#2	0.00			•	•	•
{Concrete Bridge} 0 0 0 TOTAL COST (without Haintenance) 0 0 0 { Overhead : 15% } TOTAL COST (Timber Bridge) 0 0 0 (Concrete Bridge) 0 0 0	( Without Overboad )		0101 0001	(Tishar Drid			·	
TOTAL COST (without Haintenance) 0 0 ( ( Overhead : 15% ) TOTAL COST (Timber Bridge) 0 0 ( (Concrete Bridge) 0 0 0 (	i nichool ofcinicao /					0	v ۸	
{ Overhead : 15% } TOTAL COST (Timber Bridge) 0 0 ( (Concrete Bridge) 0 0 0		1				ې ۵	v A	
(Concrete Bridge) 0 0 (				1011 1011 1011			ν	
(Concrete Bridge) 0 0 (	f Averbased + 157 )		1101 6061	Hishor Brid	no)	A	ĥ	
	1 SICINCOU I LUA F		aver root			ń		
TUTAL MANY THILINGE HEIDELED V V V 1		1	1203 1410			ò	О	
		I	OTHE BOAL	SWICHOUL HEL		<b>v</b>		

PROV :

SULAWESI TENGGARA KAB :

LINK NO 📑

39 (IIIB-2)

LENGTH : 5 Km

MUNA

( Rp )

		1.1	An est a				1 Kp J
ITEN	UNIT	QUANTITY	<<< UNIT Local	COST >>> Foreign	،/// در Local	COST FOREIGN	>>>>>> TOTAL
1		A AA	15 550	4 004	۵		٨
Superstructure (Timber;Span 3m;10T)	#2		45,559		0	· · · ·	v A
Superstructure (Timber;Span 5m;10T)	n2		50,463	4,509	V	V A	. U
Superstructure (Timber;Span 8m;10T)	#2		66,841	5,922		U.	
luperstructure (Timber;Span 3m;BH50)	62		56,491	5,049	V	· · · ·	<b>.</b>
uperstructure (limber;Span 5m;BH50)	\$2		61,673	5,471	V	. V	
uperstructure (limber;Span 8m;8H50)	62		78,217		U	U · A	
uperstructure (Concrete;Span 3#;8HSO)	#2		50,846	67,433	V	Ű	
uperstructure (Concrete;Span 5m;BN50)	■2		52,182	97,542	. U	U A	
uperstructure (Concrete;Span 8m;BMSO)		0.00	53,726		0	Ų A	
uperstructure (Concrete;SpantOm;BN50)	#Z	1. A.	58,730	120,400	· 0		100 Sec. 199
Superstructure (Concrete;Span15#;BMSO)			63,247			V	
Substructure (Pier; for Timber; 101)	NO		396,853	37,996	Û.	Ų.	. (
Substructure (Abut;for Timber;101)	NO		1,079,749	172,146	0	0	
Substructure (Pier; for Timber; BNSO)	NO		593,653	56,242	0	0 :	
ubstructure (Abut;for Timber;BNSO)	NO	0,00	1,220,647	192,243	. 0	0	
Substructure (Pier;for Concrete;BN50)	HO	0.00	1,540,360	478,596	0	0	. (
Substructure (Abut;for Concrete;BH50)	NO.	0.00	3,247,012	1,002,690	0	. 0	. (
eaplition of Bridge (limber-)limber)	• · • #2	0.00	12,605	··· 1,552	0 1	0	(
Demolition of Bridge (Timber-)Concrete)	a2		12,605	1,552	0	. 0	. ·
Demolition of Bridge (Concrete)	n2	0.00	77,585	68,755	0 .	Û	· · · (
aintenance of Timber Bridge (New)	•2	0.00	8,201	1,233	0	· Q.	ст
laintenance of Concrete Bridge (New)	#2		1,057	2,792	0	0	¹
laintenance of limber Bridge (Exist)	e2			2,462	1,070,720	311,690	1,415,400
laintenance of Concrete Bridge (Exist)	<b>n</b> 2		3,919	2,404	0	0	
· · · · · · · · · · · · · · · · · · ·				-•			
( Without Overhead )	ا	IOTAL COST	(Timber Brig		0	- 0	
	÷		(Concrete Br	idge)	0	÷ 0	
		IOTAL COST	Iwithout Hai	ntenancel	0	0	
( Overhead : 15% )	Ī	IOTAL COST	llimber Brig		0	0	1
			(Concrete Br		0	0	· · · ·
		IOTAL COST	(without Mai	intenance)	0 -	0	1 . I

: SULAWESI TENBGARA KAĐ : MUNA

PROV

LINK NO : 49 (IIIC)

LENGTH : 7 Km

				********	*********				( Rp )
1 <b>J E H</b>			UN) T	QUANTITY	<<< UNLT LOCAL	COSY >>> Foreign	<<< Local	(<< COST Fore Ign	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
				*********				***********	
Superstructure	(Timber:Span	30;101)	#2	0.00	45,559	4,084	Û.		
Superstructure			#2	0.00	50,463		U.	. 0	and the second sec
Superstructure			#2	109.00	66,841	4,509 5,922	ט מכת מוך ל	0	
Superstructure			#2	0,00	56,491	5,049	7,218,828	639,576	7,859,10
Superstructure			*2	0.00	61,673	5,471	v	Ų	· ·
Superstructure			#2	0.00	78,217	6,925	v	0	
Superstructure			a2	0.00	50,846	87,433	U U	0	
Superstructure			62	0.00	52,182	97,542	· · · ·		
Superstructure			#2		53,726	106,148	. U		
Superstructure			#2		58,730		0	V	
Superstructure			#2		63,247	141,625	۷ ۸	0	
Substructure (i			NO	0.00	396,853	37,996	· V	0	
ubstructure (	Nutifor Timb	er:105)	NO	8.00	1,079,749	172,146	8,637,992	1,377,168	IN ALL LA
Substructure (			ND	0.00	583,653	56,242	01001111	1,577,100	10,015,16
lubstructure (			NO		1,220,647	192,243	U	U 0	
ubstructure (			NÖ	0.00	1,540,360	478,596		Q - 1.1 - 1.1 - 1.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.1 - 0.	ter en
Substructure (			NO	0.00	3,247,012	1,002,690	0	· · · · ·	and
emolition of I			#?	0.00	12,605	1,002,810	0	· · · · · · · · · · · · · · · · · · ·	
eaclition of l			#1 #2	0.00	12,605	1,552	U A	0	
Penolition of I			#2		77,585	-		0	
	a tage sooner			V.VV	11909	69,755	U		
laintenance of	linder Arida	e (Hex)		108.00	8,201	1,233	885,708	133,164	1,018,87
taintenance of			12		1,857	2,792	000,100	100,104	11/1010101
laintenance of			#2		7,648	2,462	0	0	
laintenance of					3,919	2,404	0	· · · · ·	· · · · · · · · · · · · · · · · · · ·
officencie of		age textori			2111	101	. <b>v</b>		
********	•••••••							************	*
· (	Without Over	head )	1	IOTAL COST	(Tiaber Brid	ge)	15,856,820	2,016,744	17,873,56
· ·					(Concrete Br		0	0	
	· · · · ·			IOTAL COST	lwithout Hai	ntenancel	15,856,820	2,016,744	17,873,56
	n	EN 1		INTAL ADA	JTC.L. 5.7		10 455		55 FEL 55
· •	Overhead : 1	94 J		INTRE COST	(Timber Brid	•	18,235,343	2,319,256	
			· .		(Concrete Br		10 075	0 TID 251	
				UUTAL COST	(without Mai	ncenancei	18,235,343	2,319,256	20,554,59

ITEM UNIT QUANTITY LOCAL FOREIGN LOCAL FOREIGN Uperstructure (Timber;Span Sm;10T) m2 0.00 45,559 4,004 0 0 uperstructure (Timber;Span Sm;10T) m2 0.00 50,463 4,509 0 0								
UNIT GUANTITY     LOCAL     FOREIGN     LOCAL     FOREIGN     TOTA       uperstructure (fisher;Span Sm;101)     m2     0.00     45,559     4,084     0     0     0       uperstructure (fisher;Span Sm;101)     m2     0.00     50,483     4,509     0     0     0       uperstructure (fisher;Span Sm;1050)     m2     0.00     56,491     5,049     0     0     0       uperstructure (fisher;Span Sm;1050)     m2     0.00     76,272     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0	******		*********					( Rp
upperstructure (fibber;Span Ss;101)   s2   0.00   50,443   4,509   0   0     upperstructure (fibber;Span Ss;101)   s2   416.00   66,841   5,922   27,805,855   2,463,552   30,269,44     upperstructure (fibber;Span Ss;1850)   s2   0.00   56,491   5,049   0   0     upperstructure (fibber;Span Ss;1850)   s2   0.00   76,217   6,922   27,805,855   2,463,552   30,269,44     upperstructure (Concrete;Span Ss;1850)   s2   0.00   76,217   6,922   0   0   0     upperstructure (Concrete;Span Ss;1850)   s2   0.00   52,182   97,542   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	A <b>LTEX</b> S CONTRACTOR AND	UNIT	QUANTITY					>>>>>> TOTA
upperstructure (fibber;Span Ss;101)   s2   0.00   50,443   4,509   0   0     upperstructure (fibber;Span Ss;101)   s2   416.00   66,841   5,922   27,805,855   2,463,552   30,269,44     upperstructure (fibber;Span Ss;1850)   s2   0.00   56,491   5,049   0   0     upperstructure (fibber;Span Ss;1850)   s2   0.00   76,217   6,922   27,805,855   2,463,552   30,269,44     upperstructure (Concrete;Span Ss;1850)   s2   0.00   76,217   6,922   0   0   0     upperstructure (Concrete;Span Ss;1850)   s2   0.00   52,182   97,542   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0		****	• • • • • • • • • • • • • •		***			6.9×=u==a±u=4
upperstructure (fibber;Span Ss;101)   s2   0.00   50,443   4,509   0   0     upperstructure (fibber;Span Ss;101)   s2   416.00   66,841   5,922   27,805,855   2,463,552   30,269,44     upperstructure (fibber;Span Ss;1850)   s2   0.00   56,491   5,049   0   0     upperstructure (fibber;Span Ss;1850)   s2   0.00   76,217   6,922   27,805,855   2,463,552   30,269,44     upperstructure (Concrete;Span Ss;1850)   s2   0.00   76,217   6,922   0   0   0     upperstructure (Concrete;Span Ss;1850)   s2   0.00   52,182   97,542   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0	unerstructure (fisher:Spin 3s:101)	#2	0.00	45.559	4.084	0. 1	. 0	n an sta Tao ta
uperstructure (1) wher (Span Ba; 101)   m2   416.00   66,841   5,922   27,805,855   7,463,552   30,269,44     uperstructure (1) wher (Span Ba; BMSO)   m2   0.00   56,491   5,047   0   0     uperstructure (1) wher (Span Ba; BMSO)   m2   0.00   78,217   6,925   0   0     uperstructure (Concrete; Span Ba; BMSO)   m2   0.00   50,848   97,433   0   0     uperstructure (Concrete; Span Ba; BMSO)   m2   0.00   52,182   97,542   0   0     uperstructure (Concrete; Span Ba; BMSO)   m2   0.00   58,730   120,400   0   0     uperstructure (Concrete; Span Ba; BMSO)   m2   0.00   63,247   14,625   0   0     uperstructure (Rourcete; Span Ba; BMSO)   m2   0.00   63,247   14,625   0   0     ubstructure (Pier (F) fiber; BMSO)   m2   0.00   53,633   56,242   0   0   0     ubstructure (Abut; for Timber; BMSO)   m2   0.00   1,20,647   192,243   0   0   0   0   0   0   0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>0</td><td>0</td><td>an an a</td></td<>						0	0	an a
uperstructure (Timber;Span Sm;BMSO)   m2   0.00   56,491   5,049   0     uperstructure (Timber;Span Sm;BMSO)   m2   0.00   76,217   6,925   0     uperstructure (Concrete;Span Sm;BMSO)   m2   0.00   50,846   97,433   0   0     uperstructure (Concrete;Span Sm;BMSO)   m2   0.00   52,182   97,542   0   0     uperstructure (Concrete;Span Sm;BMSO)   m2   0.00   53,726   106,148   0   0     uperstructure (Concrete;Span Sm;BMSO)   m2   0.00   53,726   106,148   0   0     uperstructure (Concrete;Span Sm;BMSO)   m2   0.00   53,726   106,148   0   0     uperstructure (Concrete;Span Sm;BMSO)   m2   0.00   53,727   106,400   0   0     uperstructure (Concrete;Span Sm;BMSO)   m2   0.00   1,747,148   6,537,972   1,377,168   10,015,11     ubstructure (Fier;for Timber;BMSO)   M0   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Timber;BMSO)   M0   0.00   1,240,50   1,552   0 <t< td=""><td></td><td>#2</td><td>416.00</td><td></td><td></td><td>27,805,855</td><td>2,463,552</td><td>30,269,40</td></t<>		#2	416.00			27,805,855	2,463,552	30,269,40
upperstructure (fimber;Span Ba;BH50)   m2   0.00   76,217   6,925   0   0     upperstructure (Concrete;Span Sa;BH50)   m2   0.00   50,846   87,433   0   0     upperstructure (Concrete;Span Ba;BH50)   m2   0.00   52,182   97,542   0   0     upperstructure (Concrete;Span Ba;BH50)   m2   0.00   53,726   106,144   0   0     upperstructure (Concrete;Span Ba;BH50)   m2   0.00   63,247   141,625   0   0   0     upperstructure (Concrete;Span Ba;BH50)   m2   0.00   53,724   141,625   0   0   0     upperstructure (Concrete;Span Ba;BH50)   m2   0.00   53,427   141,625   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0		•2	0.00	56,491	5,049	0	0	
uperstructure (Concrete;Span 3#;BM50)   #2   0.00   50,846   87,433   0   0     uperstructure (Concrete;Span 8#;BM50)   #2   0.00   52,182   77,542   0   0     uperstructure (Concrete;Span 8#;BM50)   #2   0.00   53,726   106,148   0   0     uperstructure (Concrete;Span 15#;BM50)   #2   0.00   58,730   120,400   0   0     uperstructure (Concrete;Span 15#;BM50)   #2   0.00   58,735   120,400   0   0     uperstructure (Concrete;Span 15#;BM50)   #2   0.00   58,735   120,400   0   0     ubstructure (Pier;for Fisher;BH50)   N0   10.00   396,853   37,976   3,968,530   379,760   4,348,4     ubstructure (Abut;for Tisher;BH50)   N0   0.00   1,220,647   172,243   0   0     ubstructure (Abut;for Tisher;BH50)   N0   0.00   1,220,647   172,243   0   0     ubstructure (Pier;for Concrete;BH50)   N0   0.00   1,240,651   1,552   0   0     eaolition of Bridge (Isher->Ensher)   #2   0.00		a2	0.00	61,673	5,171	. 0	. 0	
uperstructure (Concrete; Span Sm; BMSO)   m2   0.00   52,182   97,542   0   0     uperstructure (Concrete; Span Sm; BMSO)   m2   0.00   53,726   106,148   0   0     uperstructure (Concrete; Span10m; DMSO)   m2   0.00   58,730   120,400   0   0     uperstructure (Concrete; Span10m; DMSO)   m2   0.00   58,772   141,625   0   0     ubstructure (Concrete; Span15m; BMSO)   m2   0.00   53,774   172,146   8,657,992   1,377,168   10,015,14     ubstructure (Abut; for Timber; BMSO)   M0   0.00   583,553   52,724   0   0     ubstructure (Abut; for Timber; BMSO)   M0   0.00   1,220,647   192,743   0   0     ubstructure (Abut; for Concrete; BMSO)   M0   0.00   1,220,647   192,743   0   0     ubstructure (Abut; for Concrete; BMSO)   M0   0.00   1,220,647   192,743   0   0     ubstructure (Abut; for Concrete; BMSO)   M0   0.00   1,240,557   0   0   0     ewolition of Bridge (Timber-NConcrete)   m2 <t< td=""><td></td><td>#Z</td><td>0.00</td><td></td><td>6,925</td><td>. 0</td><td>. 0</td><td></td></t<>		#Z	0.00		6,925	. 0	. 0	
uperstructure (Concrete;Span Ba;BHSO)   =2   0.00   S3,724   106,148   0   0     uperstructure (Concrete;Span10;DHSO)   =2   0.00   S8,730   120,400   0   0     uperstructure (Concrete;Span10;DHSO)   =2   0.00   S3,247   141,625   0   0     ubstructure (Concrete;Span15;DHSO)   =2   0.00   376,953   37,995   3,548,53   579,792   1,377,168   10,015,1     ubstructure (Abut;for Timber;DHSO)   N0   0.00   583,653   56,242   0   0     ubstructure (Pier;for Concrete;PHSO)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Pier;for Concrete;PHSO)   N0   0.00   1,240,356   1,552   0   0     ubstructure (Abut;for Concrete;PHSO)   N0   0.00   1,240,55   1,552   0   0     eaolition of Pridge (Timber->)Enocrete)   =2   0.00   12,605   1,552   0   0     eaolition of Pridge (Timber->Concrete)   =2   0.00   12,605   1,552   0   0     aintenance of Timber Pridge (New)   =2   416.		<b>m</b> 2				0	. 0	
upperstructure (Concrete;Span10a;DHSO)   a2   0.00   58,730   120,400   0   0     upperstructure (Concrete;Span10a;DHSO)   a2   0.00   63,247   141,625   0   0     ubstructure (Pier;for Timber;D1)   N0   10.00   396,833   37,996   3,968,530   319,960   4,348,4     ubstructure (Pier;for Timber;D1)   N0   0.00   583,653   56,242   0   0     ubstructure (Pier;for Timber;DHSO)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Pier;for Concrete;DHSO)   N0   0.00   3,247,012   1,007,978   0   0     ubstructure (Pier;for Concrete;DHSO)   N0   0.00   3,247,012   1,002,690   0   0     ubstructure (Pier;for Concrete;DHSO)   N0   0.00   3,247,012   1,002,690   0   0     eaolition of Bridge (Timber->Eancrete)   a2   0.00   12,605   1,552   0   0     eaolition of Bridge (Emex)   a2   0.00   12,605   1,552   0   0   0     aintenance of Timber Bridge (New)   a2   0.00			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0	0	
upperstructure (Concrete;SpanlSm;BMS0)   m2   0.00   63,247   141,625   0   0     ubstructure (Pier;for Timber;D1)   N0   10.00   396,853   37,996   3,968,530   379,960   4,348,4     ubstructure (Abut;for Timber;BHS0)   N0   0.00   583,653   56,242   0   0     ubstructure (Pier;for Timber;BHS0)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Timber;BHS0)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Concrete;BHS0)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Concrete;BHS0)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Concrete;BHS0)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Timber;BHS0)   N0   0.00   3,247,012   1,002,650   0   0     ubstructure (Abut;for Concrete;RHS0)   N0   0.00   12,605   1,552   0   0   0     eaolition of Bridge (Timber-Sconcrete)   =2		-				0	•	
ubstructure (Pier; for Timber; 107)   N0   10.00   396,853   37,996   3,968,530   379,960   4,348,4     ubstructure (Abut; for Timber; 101)   N0   8.00   1,079,749   172,146   8,637,992   1,377,168   10,015,1     ubstructure (Abut; for Timber; 107)   N0   0.00   583,653   56,242   0   0     ubstructure (Abut; for Timber; 107)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Abut; for Concrete; 107)   N0   0.00   1,247,012   1,002,690   0   0     ubstructure (Abut; for Concrete; 10850)   N0   0.00   3,247,012   1,002,690   0   0     ewolition of Bridge (Timber-)Timber)   #2   0.00   12,605   1,552   0   0     ewolition of Bridge (Toncrete)   #2   0.00   12,605   1,552   0   0     aintenance of Timber Stidge (New)   #2   0.00   12,605   1,552   0   0     aintenance of Timber Bridge (New)   #2   0.00   1,253   3,411,616   512,928   3,924,5     aintenance of Timber Bridge (Kew)   <						0.		1 A
ubstructure (Abut; för Himber; 101)   NO   0.00   1,079,749   172,146   8,637,992   1,377,169   10,015,1     ubstructure (Pier; for Timber; 8M50)   NO   0.00   583,653   56,212   0   0     ubstructure (Abut; for Timber; 8M50)   NO   0.00   583,653   56,212   0   0     ubstructure (Abut; for Concrete; 8M50)   NO   0.00   1,220,647   192,213   0   0     ubstructure (Abut; for Concrete; 8M50)   NO   0.00   3,247,012   1,002,650   0   0     ubstructure (Abut; for Concrete; 8M50)   NO   0.00   12,605   1,552   0   0     emolition of Bridge (Timber-)Concrete)   n2   0.00   12,605   1,552   0   0     eaolition of Bridge (Concrete)   n2   0.00   12,605   1,552   0   0     aintenance of Timber Bridge (MeM)   n2   416.00   8,201   1,233   3,411,616   512,928   3,924,5     aintenance of Concrete Bridge (MeM)   n2   416.00   8,201   1,233   3,411,616   512,928   3,924,5     ( Without Overhead )<						0		
ubstructure (Pier;for Timber;RH50)   NO   0.00   583,653   56,242   0   0     ubstructure (Abut;for Timber;RH50)   NO   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Concrete;RH50)   NO   0.00   1,210,360   478,596   0   0     ubstructure (Abut;for Concrete;RH50)   HO   0.00   1,220,647   192,243   0   0     ubstructure (Abut;for Concrete;RH50)   HO   0.00   1,240,510   478,596   0   0     ubstructure (Abut;for Concrete;RH50)   HO   0.00   3,247,012   1,002,690   0   0     eaolition of Bridge (Timber-) Soncrete)   #2   0.00   12,605   1,552   0   0     eaolition of Bridge (Eoncrete)   #2   0.00   1,257   2,792   0   0     aintenance of Concrete Bridge (Exist)   #2   0.00   3,917   2,404   0   0     ( Without Overhead )   TOTAL COST (Timber Bridge)   40,412,378   4,220,680   44,633,0     ( Dverhead : 15% )   TOTAL COST (Vimber Bridge)   46,474,235   4,853,782   51,328,0 <td></td> <td></td> <td></td> <td>· . · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td>· · · •</td> <td></td>				· . · · · · · · · · · · · · · · · · · ·			· · · •	
sbstructure (Abut; for Timber; BM50)   N0   0.00   1,220,647   192,243   0   0     ubstructure (Pier; for Concrete; BM50)   N0   0.00   1,540,360   478,596   0   0     ubstructure (Abut; for Concrete; BM50)   N0   0.00   1,540,360   478,596   0   0     ubstructure (Abut; for Concrete; BM50)   N0   0.00   3,247,012   1,002,690   0   0     exacition of Bridge (Timber->Timber)   n2   0.00   12,605   1,552   0   0     exacition of Bridge (Timber->Concrete)   n2   0.00   12,605   1,552   0   0     exacition of Bridge (Concrete)   n2   0.00   77,585   68,755   0   0     exacition of Bridge (New)   n2   416.00   8,201   1,233   3,411,616   512,928   3,924,5     aintenance of Timber Bridge (New)   n2   0.00   1,857   2,792   0   0     aintenance of Concrete Bridge (Exist)   n2   0.00   3,919   2,404   0   0     ( Without Overhead )   TDIAL COST (Himber Bridge)   40,412,378   4,2			N 1 1					10,013,1
ubstructure (Pier; for Concrete; RHSO)   N0   0.00   1,540,360   478,596   0   0     ubstructure (Abut; for Concrete; RHSO)   N0   0.00   3,247,012   1,002,690   0   0     ewolition of Bridge (Timber-)   #2   0.00   12,605   1,552   0   0     ewolition of Bridge (Timber-)Concrete)   #2   0.00   12,605   1,552   0   0     ewolition of Bridge (Timber-)Concrete)   #2   0.00   12,605   1,552   0   0     ewolition of Bridge (Timber-)Concrete)   #2   0.00   17,585   68,755   0   0     ewolition of Bridge (New)   #2   416.00   8,201   1,233   3,411,616   512,928   3,924,5     aintenance of Timber Bridge (New)   #2   0.00   1,857   2,922   0   0     aintenance of Concrete Bridge (New)   #2   0.00   7,648   2,462   0   0     ( Without Overhead )   TOTAL COST (Timber Bridge)   40,412,378   4,220,680   44,633,0     ( Dyerhead : 15% )   TOTAL COST (Without Maintenance)   40,412,378   4,220,680 <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td>U</td><td></td></td<>					•		U	
ubstructure (Abut; for Concrete; DNSO)   H0   0.00   3,247,012   1,002,690   0   0     ewolition of Bridge (limber-)Timber)   m2   0.00   12,605   1,552   0   0     ewolition of Bridge (limber-)Concrete)   m2   0.00   12,605   1,552   0   0     ewolition of Bridge (Timber-)Concrete)   m2   0.00   12,605   1,552   0   0     ewolition of Bridge (Toncrete)   m2   0.00   12,605   1,552   0   0     ewolition of Bridge (Toncrete)   m2   0.00   17,585   68,755   0   0     aintenance of Timber Bridge (New)   m2   416.00   8,201   1,233   3,411,616   512,929   3,924,5     aintenance of Concrete Bridge (New)   m2   0.00   1,857   2,792   0   0     aintenance of Concrete Bridge (Exist)   m2   0.00   7,648   2,462   0   0   0     ( Without Overhead )   TOTAL COST (Timber Bridge)   40,412,378   4,220,680   44,633,0     ( Dverhead : 15% )   TOTAL COST (Without Maintenance)   40,412,378   4,220,680						V	V	1
exolition of Bridge (limber-)Tinber)   m2   0.00   12,605   1,552   0   0     exolition of Bridge (Timber-)Concrete)   m2   0.00   12,605   1,552   0   0     exolition of Bridge (Timber-)Concrete)   m2   0.00   12,605   1,552   0   0     exolition of Bridge (Concrete)   m2   0.00   12,605   1,552   0   0     aintenance of Timber Bridge (New)   m2   0.00   77,585   68,755   0   0     aintenance of Concrete Bridge (New)   m2   0.00   1,857   2,792   0   0     aintenance of Timber Bridge (Exist)   m2   0.00   7,648   2,462   0   0     aintenance of Concrete Bridge (Exist)   m2   0.00   3,919   2,404   0   0     (Without Overhead)   TDTAL COST (Timber Bridge)   40,412,378   4,220,680   44,633,0     (Concrete Bridge)   0   0   0   0   0     (Uverhead : 15%)   TOTAL COST (Timber Bridge)   46,474,235   4,853,782   51,328,0     (Concrete Bridge)   0   0			10.11.11.1			V.	0	·
exolition of Bridge (Timber->Concrete)   #2   0.00   12,605   1,552   0   0     exolition of Bridge (Concrete)   #2   0.00   77,585   68,755   0   0     aintenance of Timber Bridge (New)   #2   416.00   8,201   1,233   3,411,616   512,928   3,924,5     aintenance of Concrete Bridge (New)   #2   0.00   1,857   2,792   0   0     aintenance of Concrete Bridge (Exist)   #2   0.00   7,648   2,462   0   0     aintenance of Concrete Bridge (Exist)   #2   0.00   3,919   2,404   0   0     ( Without Overhead )   TOTAL COST (Timber Bridge)   40,412,378   4,220,680   44,633,0     ( Dverhead : 15% )   TOTAL COST (Without Maintenance)   40,412,378   4,220,680   44,633,0     ( Overhead : 15% )   TOTAL COST (Vimber Bridge)   46,474,235   4,853,782   51,328,0						v		
ewolition of Pridge (Concrete)   w2   0.00   77,585   68,755   0   0     aintenance of Timber Bridge (New)   w2   416.00   8,201   1,233   3,411,616   512,928   3,924,5     aintenance of Concrete Bridge (New)   w2   0.00   1,857   2,792   0   0     aintenance of Timber Bridge (Exist)   w2   0.00   7,648   2,462   0   0     aintenance of Concrete Bridge (Exist)   w2   0.00   3,919   2,404   0   0     ( Without Overhead )   TDTAL COST (Timber Bridge)   40,412,378   4,220,680   44,633,0     ( Dverhead : 15% )   TOTAL COST (Without Maintenance)   40,412,378   4,220,680   44,633,0     ( Overhead : 15% )   TOTAL COST (Timber Bridge)   46,474,235   4,853,782   51,328,0						. 0	0	1.
aintenance of Concrete Bridge (New)   m2   0.00   1,857   2,792   0   0     aintenance of Jimber Bridge (Exist)   m2   0.00   7,648   2,462   0   0     aintenance of Concrete Bridge (Exist)   m2   0.00   3,919   2,404   0   0     ( Without Overhead )   1DIAL COST (Timber Bridge)   40,412,378   4,220,680   44,633,0     (Concrete Bridge)   0   0   0   0   0     ( Without Overhead )   1DIAL COST (Without Haintenance)   40,412,378   4,220,680   44,633,0     ( Overhead : 15% )   10TAL COST (Without Haintenance)   40,412,378   4,220,680   44,633,0     ( Overhead : 15% )   10TAL COST (Without Bridge)   46,474,235   4,853,782   51,328,0					•	0	0	- · · · 
aintenance of Concrete Bridge (New) =2 0.00 1,857 2,792 0 0 aintenance of Timber Bridge (Exist) =2 0.00 7,648 2,462 0 0 aintenance of Concrete Bridge (Exist) =2 0.00 3,919 2,404 0 0 ( Without Overhead ) IDTAL COST (Timber Bridge) 40,412,378 4,220,680 44,633,0 (Concrete Bridge) 0 0 TDTAL COST (Without Haintenance) 40,412,378 4,220,680 44,633,0 (Dverhead : 15%) TOTAL COST (Timber Bridge) 46,474,235 4,853,782 51,328,0 (Concrete Bridge) 0 0	aintenance of Timber Bridge (New)	. #2	415.00	8,201	1,233	3,411,616	512,928	3,924,5
aintenance of Timber Bridge (Exist) #2 0.00 7,648 2,462 0 0 aintenance of Concrete Bridge (Exist) #2 0.00 3,919 2,404 0 0 (Without Overhead) TDTAL COST (Timber Bridge) 40,412,378 4,220,680 44,633,0 (Concrete Bridge) 0 0 TDTAL COST (Without Haintenance) 40,412,378 4,220,680 44,633,0 (Dverhead : 15%) TOTAL COST (Timber Bridge) 46,474,235 4,853,782 51,328,0 (Concrete Bridge) 0 0			0.00	•			0	
( Without Overhead ) IDTAL COST (Timber Bridge) 40,412,378 4,220,680 44,633,0 (Concrete Bridge) 0 0 TOTAL COST (without Maintenance) 40,412,378 4,220,680 44,633,0 (Dverhead : 15%) TOTAL COST (Timber Bridge) 46,474,235 4,853,782 51,328,0 (Concrete Bridge) 0 0		•2	0.00	7,648	2,462	0	0	
(Concrete Bridge) 0 0 TOTAL COST (without Haintenance) 40,412,370 4,220,680 44,633,0 ( Dverhead : 15% ) TOTAL COST (Timber Bridge) 46,474,235 4,853,782 51,328,0 (Concrete Bridge) 0 0	aintenance of Concrete Bridge (Exist)	•2	0.00	3,919	2,404	0	0	
(Concrete Bridge) 0 0 TOTAL COST (without Haintenance) 40,412,378 4,220,680 44,633,0 ( Dverhead : 15% ) TOTAL COST (Timber Bridge) 46,474,235 4,853,782 51,328,0 (Concrete Bridge) 0 0								
(Concrete Bridge) 0 0 TOTAL COST (without Haintenance) 40,412,370 4,220,680 44,633,0 ( Dverhead : 15% ) TOTAL COST (Timber Bridge) 46,474,235 4,853,782 51,328,0 (Concrete Bridge) 0 0	( Without Overhead )	1	OTAL COST	(limber Bri	dae)	40.412.378	4.220.680	44.633.0
TDTAL EOST (without Haintenance) 40,412,378 4,220,680 44,633,0 ( Dverhead : 15% ) TOTAL EOST (Timber Bridge) 46,474,235 4,853,782 51,328,0 (Concrete Bridge) 0 0				1		0		,,-
(Concrete Bridge) 0 0			OTAL COST			40,412,370	4,220,680	44,633,0
(Concrete Bridge) 0 0	*****							
(Concrete Bridge) 0 0	( Overhead : 15% )	I	OTAL COST	(Timber Brid	lae)	46.474.235	4,853,782	51.328 0
						0	0	
		. 1	OTAL COST			46,474,235	4,853,782	51,328.0

PROV : SULAWESI TENBGARA KAB : MUNA

37**-**A-64

PROV LINK NO

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40 (IIIC)

KAB I MUNA

LENOTH : 19 Km

*****							( Rp )
1 TEN	UNIT	QUANTITY	<<< UNIT	COSI >>> FORELGN	\\\\\ LOCAL	COST Foreign	>>>>>> Total
Superstructure [limber;Span 3m;10])	#2	0.00	15 550	1 0.01	•		
Superstructure [Timber:Span Smj10]]	12	0.00	45,559	4,084	0	0.	(
Superstructure (limber;Span 8m;101)	÷ #2	0.00	50,463	4,509	0	0	(
Superstructure (Timber;Span 3m;8H50)	a2	0.00	66,841	5,922	0	0	
Superstructure (limber;Span 5m;BN50)	#2 #2		56,491	5,049	0	0	
Superstructure (Timber; Span Ba; BM50)	ez 1 n2	0.00	61,673	5,471	0	0	
Superstructure (Concrete; Span 3#; BMSO)	#2 	0.00	78,217	6,925	0	0	ļ
Superstructure (Concrete;Span 5=;BM50)	#2 #2	0.00	50,846	87,433	0	0	
Superstructure (Concrete;Span 0+18850)	#2	0.00	52,182		0	0	
Superstructure (Concrete;SpaniOm;BHSO)	e e c 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00	53,726	106,149	0	Q	
Superstructure (Concrete; Span 5a; BHSO)	62	0.00	58,730	120,400	Q	0	
Substructure (Pier;for Timber;101)		0.00	63,247	141,625	0	0	
Substructure (Abutjior Timber;101)	XO		396,853	37,996	Ç	\$	
Substructure thoughter timber ; [VI]	NO	0.00	1,079,749	172,146	0	0	
Substructure (Pier; for Timber; 8850)	KO	0.00	583,653	56,242	0	0	
Substructure (Abut; for Tieber; BH50)	NO	0.00	1,220,647	192,243	0	• . <b>Q</b>	
Substructure (Pier; for Concrete; 8H50)	ND		1,540,360	478,596	0	0	5
Substructure (Abut; for Concrete; BH50)	NO		3,247,012	1,002,690	0	O -	
Demolition of Bridge (Timber-)Timber)	e2	0.00	12,605	1,552	` <b>0</b> '	0	
Demolition of Bridge (Timber-)Concrete			12,605	1,552	<b>0</b>	•	
Demolition of Bridge (Concrete)	<b>n</b> 2	0.00	77,585	68,755	0	0	
Naintenance of Timber Bridge (New)	=2	0.00	8,201	1,233	0	0	
Haintenance of Concrete Bridge (New)	#2	0.00	1,857	2,792	0	0	
Naintenance of Timber Oridge (Exist)	<b>#2</b>	464.00	7,648	2,462	3,549,672	1,112,369	4,691,04
Maintenance of Concrete Bridge (Exist)	<b>≜</b> 2	0.00	3,919	2,404	0	0	
					*****		
( Without Overhead )		IOTAL COST	llimber Brid	lge)	0	0	
			(Concrete 8)		Ô.	. 0	
	1	IOTAL COST	(without Mai		0	0	·
	•					*	*
( Overhead : 15% )		INTAL FORT	(Timber Brid	inel	۰- ۸		
CONTROL INT			(Concrete B		0	. 0	

TUTAL COST (Traber Bridge) (Concrete Bridge) TOTAL COST (Without Maintenance)

0

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PROV : SULAWEST TENGBARA KAB : MUNA

61 (IIIC)

LINK NO :

LENGTH : 18 Km

j di Kanalari	19 M	۰.				r	· · · ·		( Rp
ITEH			UNIT	QUANTITY		COSI >>> Foreign	/// Local	<<< COST Fore Ign	>>>>>> IOTAI
	**************				****			************	************
uperstructure	(Timber;Span 3m;	1011	•2	0.00	15,559	4,091	0	0	
	(Timber;Span Sa;		<b>#2</b>		50,463	4,509	1,009,260	90,180	1,099,44
	(Timber;Span Hag		•2		66,841	5,922	54,809,620	4,856,040	59,665,66
	(Timber;Span 3m)		#2	0.00	56,491	5,049	0		
	(Tieber;Span 5a)		•2	0.00	61,673	5,471	- 0	0	
	(Timber;Span Bm;		#2	0.00	•	5,925	0	0	a de la composición d
	(Concrete;Span 3		. ∎2	0.00	50.846	87 433		0	
	(Concrete;Span 5		#2		52,182	97,542	. 0	0	an a
	(Concrete;Span 6		#2	0.00	53,726	106,148	0	0	
	(Concrete;Spanic		a2-	0.00		120.400	0	j (	
	(Concrete; Span15		#2	0.00	63,247	141,625	0	÷	en e proc
	ier;for Timber;1		NO	10.00	396,953	37,996	3,968,530	379,960	4,348,49
	but;for linber;f		KO	36.00	1,079,749	172,146	38,870,964	6,197,256	45,069,22
ibstructure (P	ier;for Timber;E	9N501	ND	0.00	583,653	56,242	0	0	
ibstructure (A	but;for Timber;E	HSO)	NO NO	0.00	1,220,647	192,243	. 0	0	
ibstructure (P	ier;for Concrete	e; 8850)	NO NO	0.00	1,540,360	478,596	· · . 0	0	
ibstructure (A	but;for Concrete	BHSOI	NO	0.00	3,247,012	1,002,690	- 0	0	
emolition of B	ridge (limber-))	(imber)	#2	0.00	12,605	1,552	0	0	:
endition of B	ridge (Tinber-)(	(oncrete)	#2	0.00	12,605	1,552	0		
emolition of B	ridge (Concrete)	ł .	#2	0.00	77,595	60,755	0	0	
intenance of	Timber Bridge (N	lou)	#2	840.00	8,201	1,233	6,880,840	1,035,720	7,924,56
	Concrete Bridge		a2	0.00	1,857	2,792	0,050,010	0	
	Timber Bridge (E				7,648	2 462		0	
	Concrete Bridge		\$2	0,00	•	2,404	0	0	
						• [ 10]			:
,, ,							• • • • • • • • • • • • • • • • • • •		
( )	Without Overhead	1)	T	OTAL COST	lTimber Brid		98,658,374	11,523,436	110,101,81
					(Concrete Br		0	. 0	
			1	OTAL COST	(without Mai	ntenance)	98,658,374	11,523,436	110,181,81
							:		
( )	Overhead : 15% )	)	T	OTAL COST	(Tisber Brid		113,457,130	13,251,951	126,709,08
					(Concrete Br	idge)	0	0	
		•	Ì	OTAL COST	(without Mai		113,457,130	13,251,951	126,709,08

37**-**A-66

PROV	:	SULAWESI TENG	GARA KAĐ	:	MUNA
LINK NO	· 1	95 (IIIC)	LENGTH :	4	Km

LENGTH : 4 Km -

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ITEN	10111	QUANTITY		COST >>> Foreign	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	COST	>>>>>
				runcion	LOCAL	FORELGN	TOTA
				·			
uperstructure (limber;Span 3m;101)	#2	0.00	45,559	4,084	. 0	0	
uperstructure (limber;Span 5x;101)	#2	40.00	50,463	4,509	2,018,520	180,360	2,198,88
uperstructure (Timber;Span 8m;10T)	#2	176.00	66,841	5,922	11,764,016	1,042,272	12,806,28
uperstructure (limber;Span 3m;BN50)	s2	0.00	56,491	5,049	0	0	
uperstructure (Timber;Span 5m;BH50)	. ₽2	0.00	61,673	5,471	0	0	:
uperstructure (limber;Span 8m;BNSO)	•2	0.00	78,217	6,925	0	0	
uperstructure (Concrete;Span 3s;BH50)	•2	0.00	50,846	87,433	0	0	
uperstructure (Concrete;Span 5m;BH50)	a2	0.00	52,182	97,542	0	0	
uperstructure (Concrete;Span 0m;8MSQ)	a2	0.00	53,726	105,148	0	0	
uperstructure (Concrete;SpanlOa;BHSO)	,eZ	0.00	58,730	120,400	0	· • •	
uperstructure (Concrete;Span15a;BH50)	¢Z	0.00	63,247	141,625	0	Q	
ubstructure (Pier;for Timber;101)	NO	2.00	396,853	37,995	793,706	75,992	869,69
ubstructure (Abut; for Timber; 101)	NO	12.00	1,079,749	172,146	12,956,988	2,065,752	15,022,74
ubstructure (Pier;for Timber;8850)	NO	0.00	583,653	56,242	0	0	
ubstructure (Abut;for Timber;BH50)	NO	0.00	1,220,647	192,243	0	· . 0	
ubstructure (Pier;for Concrete;BH50)	NO	0.00	1,540,360	478,596	- 0	0	
ubstructure (Abut;for Concrete;8850)	NO	0.00	3,247,012	1,002,690	0	0	
exolition of Bridge (Timber-)Timber)	s2	32.00	12,605	1,552	403,360	49,664	453,02
emolition of Bridge (limber->Concrete)	62	0.00	12,605	1,552	0	0	
emolition of Bridge (Concrete)	a2	0.00	77,585	68,755	0	0	
aintenance of Timber Bridge (New)	#2	216.00	8,201	1,233	1,771,416	266,320	2,037,74
aintenance of Concrete Bridge (New)	e?	0.00	1,857	2,792	. 0	0	-,,-
aintenance of Timber Bridge (Exist)	#2	0.00	7,648	2,462	0	0	
aintenance of Concrete Bridge (Exist)	•2	0.00	3,919	2,404	0	Q	
( Hithout Overhead )	1	OTAL COST	(Timber Brid	ae)	27,936,590	3,414,040	31,350,63
			(Concrete Br		0	0	
	. 1	OTAL COST	Without Main		27,936,590	3,414,040	31,350,63
( Overhead : 15% )	. 1	ATAL COST	(Timber Brid	ne)	32,127,079	3,926,146	36,053,22
Continual + 10% /	1	0111E 0001	{Concrete Br		0	0	00100012
	1	INTAL FACT	twithout Main		32,127,079	3,926,146	36,053,2
		0166 0031	sustinue nati	incellonce)	A*11413011	011101140	001000111

