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ANNEXED SHEETS

- A-I. TRFFIC DATA
 - -2. LATTER ON TRAFIC DATA
 - B. DIAGRAM OF INTER-EXCHANGE JUNCTION LINES PLAN
 - C. CABLE GROUPING DATA
 - D. DATA ON DETERMINING NO. OF CABLE DAIRS
 - E. LAYOUT PLAN FOR LOADING SPACING
 - F. LAYOUT PLAN FOR PCM-24 REPEATER SPACING

ANNEXED A-1

TRAFFIC DATA

CALCULATION FOR ALTERNATIVE ROUTING NETWORK BANGKOK, THAILAND

- YEAR 1976 -

TOTAL NUMBER OF SUBSCRIBERS	310000
TOTAL NUMBER OF EXCHANGES	58
TOTAL NUMBER OF TANDEM EXCHANGES	7

GRADE OF SERVICE

DIRECT JUNCTION BETWEEN EXCHANGES	00002
TRUNK TO TANDEM	00001
TRUNK TO TOLL	00001
TRUNK TO SPECIAL SERVICE .	00010
TRUNK FROM TOLL EXCHANGE	00002
LEAST NUMBER OF LINES ON HIGH USAGE ROUTE	10

I = Originating exchange

J = Terminating exchange

CIJ = Approximate cost for a Junction line including switching Equipment.

CIP = Last Trunk capacity

AIJ = Traffic between exchanges I and J

V/M = Variance to mean ratio (offered traffic)

MQ = Availability of Switching Equipment.

NIJ = The number of circuit Required for AIJ

EIJ = The congestion on the route I, J

OFL = Overflow traffic

VAR = Variance of overflow traffic

Routing = Routing between exchange, VIA direct routes, tandem routes.

LIST OF EXCHANGES

EX NO	NAME	- ABBRFV - L OF	MEDNAT :	NU OF SU3	TANDEM AREA
1	THANDNTOK	ŢΚ		,3000	7
2/1	SAMRAN RAT 1	SR 1		10000	1
2/2	SAMRAN RAT 2	SR 2		10000	1
- 2/3	SAMRAN RAT 3	SR 3		10000	- 1
3/2 3/1	SURAWONG 1 SURAWONG 2	SW 2	T7	10000 10000	7 (
3/3	SURAWONG 3	5% 2 5W 3		10000	7
4/1	PHLOEN CHIT 1	PL 1	тз	10000	3
4/2	PHLOEN CHIT 2	PL 2		10000	3, ,
5	THONBURI	TH 2	15	20000	5
6/1	PHAHONYOTHIN 1	PY 1	T2	10000 .	2
6/2	PHAHONYOTHIN 2	PY 2		5000	2 1
7/1	KRUNG KASEM 1	KK 1	T1	10000 .	1
7/2	KRUNG KASEM 2	KK 2		10000	1
8/1	CHAIYA PHRUK 1	CP 2 CP 1		10000	6
8/2 9	CHAIYA PHRUK 2	CP Z TM		10000 10000	6 3
10	SATHUPRACIT	SP		3000	7 1
11	NGAM WBNG W/ V	พพพ		5000	4
12	PHRA PRACACING	PC		3000	5
13	DOMMUNIC	שֿת		3000	4
14	BANGNA	ָּה אי		-20000	6 -
15	BANG KHEN	4 K		5000	4 .
16	BANG KAL	БС		6000	5 '
17	DV OKAMONG	DK		9000	5
18	RANG SU	hS		10000	2
19 20	PANG PLAD KLONG CHAN	B₽ K€		80 <i>0</i> 0 8000	1
21	INTHAMARA	I M		6000	6 2
22	POO CHAO SAMING PRAI	PS		5000	6
23	SAMUT PRAKAN	SMP		5000	6
24	RANG SIT	ks		800	2
25 ⋄	BANG CHAN	ясн		80%	2 '
27	ON DUT 2	0N 5 ·		Ġ.	6
28	NONG KHEEM	N.K		800	5
29	ON NUT 1	ON 1			6
30	PHASEL CHARGEN	P SR LP 2		2000	5
31 32	PAKKRET	PK	•	300U n	2
	LUK SI	្ត្រ រូន	T4 -	- 2000	4
35	HUZ MAK	ни	•	8000	6
36	RAM INDRA	RIG		800	2 -
37	ASOK, CIN DAENG	۸sc		5000	3
38	BANG YA PHRAEK	ВҮР		o	Ó
39	SUKHUMVIT	SKV		O	3
	- BANG KHUN TIAN	BKT		- 0	5
41 - 42	CHARAN SANIT WONG	CHW		5000	5
43	LAT PHRAO 1 TROK CHAN	TC		- 50 0 0	2 ====
44	PATHUMWAN :	- PTW		5000 5000	7
45	PRAKHANONG	PKN.	Т6	5000	6
46	MUBAN SETHAKIT	MsK	. •	. 0	5 ·1 ·1
47	LAT KRABANG	· LKB	•	·	6
	SNAMBIN CONMUANG	SDM		O	4
, 49°	POM PHRAJUL	PPJ		0	5, 2,
	SAMSEN	SS		5000	-1
51,	NONTHABURI	NN BTN		3000	2 \~\\[\]
5252	PATHUM-THANI	TOLL	 -		2
	- SPECIAL SERVICE			+00G 	
The second secon	LOINE OLIVIOL	4 / 1, 1			S CONTRACTOR
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	CALC	ULATION	FOR	ALTERNA	TIVE	Rout	rING	NETWORK	BANGKU	K , TH	4 I LAN	D D
	FROM	J = 1	. тк	SUB =	3000) :	SYSTEM	1 C 400	TAN	DEM 4R	£4 =	7
J	NAME	CIJ	C/P.	.LIA		MQ	NIJ	EIJ	OFL	 V4R	ROUT	ING
1	TK .	. 0		8, 23	. ,_	_	; 17	0,00020			1	•
- 2/1		8514-			i		-		40 64:			-·T7·
2/2	SR 2	8514	0° 43	4064	· - .	-	, -	1,0000				T7
· 2/3 · 3/1	- SK 3~ SW 1	8514 · 6518	- 110 43 00 56	4 ₀ 64 -		-		‱1¦occo. 10₀1533		-	•	T7
3/1 -3/2-				19 ₀ 86 19 ₀ 86	. .				1 c 6 7	3₀⊍4 ~-3₀⊍4		T7 T7
3/3	SW 3	6518		, 10 ₀ 86	-		. 12			. 3.64		17
-4/1-				5o17	· · · · · · · · · · · · · · · · · · ·				5:17 -			
4/2	PL 2	8975	9o44	· 5 ₀ 17	-	- ,	/ - ·	100000		5017		T7
				11 _c 66 -			13.	-001424		3074	5	T7
6/1	PY 1	12689	0.52	3,58	,		` · —	1,0000		3°58 ·		T7
				···-1 ₀ 79 -					1:79			- T7
7/1	KK 1	8975 8075	0.44	3 ₀ 84 3 ₀ 84	. -	- ,	_	1,0000	∵, 3₀84 3₀84	3684		17
8/1	CP 1	12200	0° 47					100000		2°25		T7 T7
				2 ₀ 25 -		-		1°0'0'0'0		2025	•	
9 '	TM	7030	0.36	4090	i, <u> </u>	_	. - 	1.0000		4 9 9 9		T7
. 10	. SP	6825	- Qo 3Q	1 ₀ 19	<u>. </u>	· –			lc19			· T7
11	N WW	32158	0 • 68	1006	, - -	-		1,00000		1.06		T7
_12	PD	_31489_		Oo 64				<u>። የ</u> የ• ዕ ዕ ዕ ዕ ଦ	0 ₅ 64	0°64		T 7
13	MA	95269		0064			- ' '	100000	0c 64	0064	•	T7
	. BN			1099-					lc 99			Τ7
15	BK .	28255	0 ₀ 67	1006	-	-	**	100000	1006	1000		T 7
16 - 17	BC	14219- 14769	0•41	1 ₀ 27 1 ₀ 70				1 ₀ 0006.	•	,1,27		-17
_	BS	_ 24353_				_		1 - 0000	1 ₀ 76 2 ₂ 12	1.70		T7
19	8 P	12812	0 ₀ 52	1070			_	1,0000	1 ₀ 70	1070		T7- T7
20	. KC		-	1 ₀ 38		.		1 ₀ 0 0 0 0 1		- 1 ₀ 38		· T7
21	IM	14342	0054	. 1003		_	٠ ٠	1,0000	1:03	1.03		17
22	PS -	33607		99		-		1 o o o o o	· 0° 99	- 0099		- T7
23	SMP	72260		, 0 ° 88		-	. =	1,0000	0,99	ं ७,७७		τ7
				0 ₀ 17-					Gc 17 ·			T7
25	ВСН	89767	0076			-	· -	1,0000				17
28 30	PSR			0 ₀ 17-				1 ₀ 0000.				T 7
				0052.		_	_	1 ₀ 00000 1 ₀ 0000		0.42		17
33	LS	37510	Co 45		_			1,0000		,		T7 T7
				1。86_				1 o QOQQ-				
36	RID	71460		=	_	-	_	100000				T 7
. 75	- ASD	11282	.0.50 .	2o 58-			`	-1,0000				17
41	CHM	24018	0.66	2 ₀ 91	~ `	-		1,00000	-2091 4	2091		17
42				1 o 79 ·				1 o Q G G O				T 7
43	1C			90 60		-		′ 0 ₀ 0469				T 7
		i		1,92-				1°0000-				· T7
45				1013	- ,	-	-	1 a 0 0 0 0	1013	1013	•	T7
. 50 51	ss NN	_12200 _ 30262	0•51 - 0 ₀ 68			-		1 ₀ 0000				77 ÷~
				00 17 4				100000 100000		. 0a64		Ť7
101	TOLL	n in the derivative of the second		6000			 - 14				151	17
	\$ PS	-		1.50				C.0100.				
_T7		8668	• •	87.56	1,10			/ 0.0010	4			
`				1								-
	TOT	AL		150.02	•		215					•

•	CALC	ULATION	FOR	ALTERNA	SVITA	ROUTING	NETWORK	BANGKOK	, TH	AILAND · '
	FROM	I = 2/1	SR	1 SUB =	1900	SYSTEN	C 400	TANDI	EM AR	E4 = 1
J	HAME	CIJ	C/P	AIJ	V/M	MQ NIJ	EIJ	OFL	VAR	ROUTING
1	TK	8514 0	0.38	2.12	. – (,	·- · -	1.0000	2.12	2.12	71
2/2		· · · · · · · · · · · · · · · · · · ·		47o 04- 47o 04		- 65	0	4		
		•		47004	• •		~ 6°00'50 ~		• -	2/2
3/1		6057	Ωo 34		-4.7		νου357		5 ₀ 25	
				44069.		<u></u> 52.			5025	3/2 - 71
3/3	SW 3		O ₀ 34	44069		- 52	020357	· ·	6,25	
		7286	0.42	37 ₀ 63.		43	0 ₀ 0506	191	-6.94	4/1T1
4/2	PL 2		0042	37, 63		· " 43·		1091	5094	
-5	-TH-2-	64 15		32,93	<u>.</u> -	40.				
6/1	PY, 1	81 56	0042	18,82.		22	0,0816	1c54	4023	
.6/2	PY 2	8156	0.42	9041.		12.	- 0an977 -	n _o 92. i	1099	6/2 T1
7/1	KK 1	51 86	9 • 57	42034	: 41 🖚 *	- 44	0.0910	3c 85∙ :	14005	7/1 T1
-7/2-	-KK-2-	51 86	Oc.57	42034-		44-	—იეი 0 9 1 (դ~~~	3c 85	14005	·7/2T1
8/1		11649	٥° 51	23, 52			050932		6048	8/1 T1
.8/2-						26			6048	·8/2- T1-
9	TΜ		₽₀ 37	21,17			Q&Q534 *		3,29	9 T1
									-	
11	NMM	23907	Qn 63	6012			1,0000		6,12	T1
13	DM	39628	0042	3,53		, -	i, 150000 C			
	- BN								-	
,15	вк	13607	0.39		-		1,00000	3 ₀ 29.	3,29	
16										
17	DК	8514	0 ₀ 37	5, 27		, -	1,0000		5.27	
				14011-	مست ندست - در،		0.1178			
19 20	B P	75 93	0.43	11029		~ .	0,0942	1006:	2:45	
21		. 10976	0.50							
22	PS			4ი 80 2ი 35 -	_		_ 1°0400 -		4 6 8 0	
23	SKP	41078	0.42				. 1 ₀ 0000	2c 35		
. 24					_				2,35	T1
25	BCH	76860	0.73	ი 64				no 64r	00 94. 0064	
=	-	. 37064						0-60	0.004	" T1
30	PSR	12261	0 34	1.51	·		100000		1.51	71
		. 14648	00.40	20 40	,\		-100000			
33	LS	30768	9.66	1,32	_ ,			1c32	1032	71
					,	21.		1 _n 95	50.30	35 T1.
36	RID		Cc 42	Øc 64	·		1,0000			T1
. 37		. 7900		18082		23	- 0 ₀ 0626	1c 18:	-	37 - T1
41	CHW	87.70	0.39	. 8a 23.	' ` -	- 11	4 0 ₀ 0900	00 74F		
. 42	LP 1			9041	– .	11.	001386		2075	
43	TC	75 93		3, 53	. –	- -	100000	3º 53'	3,53	T1
	_ PTW			21 ₀ 17	·		Q ₀ .0534	1013	.3e29	44 T1
45	. PKN	13730	no 39	11076	₹ -	- 15	0.0789	Q ₀ 93: -1	2.18	45 T1
									7006	T1
51.		13913	0.40		· , -		/ 1 ₀ 0000 ~		3007	
				0 ₀ 98 .		_	.lonoac	,		
្តិហ្វែ។		ņ				- `, 59		· ·		
سائد ائت	s Ps			5.00			G+010G'		·	11.1
A1		6856		112.29	1.68	152	o•0010			
	, , , , , ,	an water	,.				` .	*		•
1.5	ioi	A.L		800.02		1035	•			
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	•	•		•				, P:	GE	ৰ্
	CALCULATIO	N FOR A	LTERNAT	rive Ro	UTING	NETWORK	BANGKO	K , TH	ILAND	
	FROM I = 2	/2 SR 2	SUB =	10000	SYSTEM	C 400	TaN	DEM AR	A = 1	
J	NAME CIJ	C/P.	LIA	V/M . M		-	OFL	VAK	ROUTI	NG .
1 .	• •	0.38	2•12 " •47 ₀ 04 "	\ <u>_</u>	~ <u> </u>	1.0000		. 2.12		T1
2/2	- SR - 1 0		470 04 =			_0°0050 _0°0050~			2/2	- ,
2/3						~ი ^ი ბ ს გბ~			2/3	
3/1	SW 1 6057	-		- , -	- 52	000357		6.25	-	T 1
3/2 -	Sh 2 6057 Sh 3 6057				52 52	"ი _ი იპ57. ი₀იპ57	_	-5°25 6°25		
	PL 17286			::_		-0 ₀ 0506-				T1 T1 -
4/2	PL 2 72.86		37 ₀ 63 .			0.0506				T1
5	- TH 2 6415	i n _{o.} 33	32° 93 🚊			- no 0343 -		3 89	5	T1
6/1	PY 1 8156	_	-	- : -	. 55			4c23		T1
	PY 2 8156					•		_	_	T1 ·
7/1	KK 1 5186 51865186			``		-0-0910 0-0910-		14c 5	i	T1
8/1	CP 1 11649		23 ₀ 52		26	000932	2 ₀ 19	6,48	_	T1
	CP 2 - 11649					- 0° 0932-	-	6048	•	T1
9	TM 7849		21017	,	. 26		1c13	3.29	•	T1
10 .	SP 16976	0034		::				-3095		Tl
11	NWW 23907		6012	·	-	100000	6c12	6c12		Tl
12	PD13791 DM 39628		4 o 23 3 o 53 -			1 ₀ QODG_ 1 ₀ QODQ	4ء 2 <i>3</i> 3ء 53	3,53		T1
14.		7 . 0 • 64				_			••	Tì
15	BK 13607		3, 29		-	109000	3 ₅ 29	3.29		T1
16	BC 81 75	5 - 0o 37	. 4052	<u></u>	_	_1 0 0 0 0 0 0	4 ₂ 52	···- 4°52		T1 -
(17	DK 8514	=	5 ₀ 27	_	· -	100000	5, 27	,5°27		T1
ł	_BS10670				•	4, 1178				
19	BP 7593 KC 30931	·-	11029		14	_0°0942 _1°0000 -	1c 06	2045		T1 T1
21	IM 10976		- 4 ₀ 80			100000 10000	4c 8()	408Q		T1
i	. PS 32674	_				-1.00000-	2035			
	SMP 41078 RS 98660									
i						<u>1 o G n n n</u>	—_ ^c 94 ∙			
25		0,73								
	NK37064			· - · -						
30 31	PSR 12261 LP 2 14648						1 ₀ 51 2 ₀ 40 -			T1
1	'LS 30708					1,00000				T1
1	_HM 12444	0 • 52	-1 8 ₀ 82		21	-0.1038-	1a 95 -	5a30		
· · 36	RID 34834		Qo 64 -	, -	<u>'</u> - ·	1,00000	ე ი 64	. Da 04		Tl
	. ASD 7900) · V•40	-18085-4		23	c0050	1c13	- 3028	37	
. 41		0.39				0.0900				Tl
- 42	-LP 112383 TC 7593					_1°0,000 8°1380		2°75 3°53		T1 T1
	PTW 5750									
45	PKN 13730	0.39	11076		. 15	QoQ789	n ₀ 93	2018	45	Ti
50	SS 7081	0 • 41	7.06	<u></u> -		. 1,00000	7a C6	7006		T1 -
51	NN 13913	3 0 ₀ 40	3067		-	100000	3c 67	3067		Tl
	. PTN 95860)0 ₀ 73	- 0 ₀ 98 #	: . . -		1 ₀ 0666.	0 ₀ 98	Oo 98	· ·	Tl
101	TOLL 0	· -							-	
Τ1	6856	;	12.27	1.68	152	0.0010				٠
	TOTAL :		300.02		1 035	1				
				•			*		•	٠.

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	•			·····					NETWCRK				
		FROM -	**					: _:.,	C 400			··	•
•	J 	BMAN	CIJ	C/P	AIJ								
	1 2/1_	TK -SR-1	8514 0		2.12 47.04-				1.00029 000029	2.12			
	2/2	SR 2	Ų		47004	_	_	65	$0^{\circ}0050$	· -	-	2/2	
	2/3. 3/1	SR 3 Sh 1			47 ₀ 04 44 ₀ 69				0_0026_ 0_357				
			. 6057	დი 34 " "Сი 34 "	44009 44069	, -			n。n357				
	2/3	SW 3	6057				-	52	0.0357	1060		3/3	
	4/1_	_PL-1-	7286 - -	-n _o 42-					n ₀ 6 5 6 6	1。91			
	4/2		7286							1091		4/2	
			•		32,93.			40	000343-				
	6/1		81 56	0042						1654			1 -
		PY 2						12· 44	0 ₀ 0977- 0 ₀ 0910		1099 14005		
	7/1 7/2	KK 1	51 86 51 86	0 ₀ 57					- 0° 0810 -				
	8/1	-	11649									8/1	
		_ CP. 2							0,0932.				
	9	TM	7849	Co 37		· <u></u>		26	000534	1013		9	
	10 .	sp	10976 -		3 ₀ 95.	::			1.00000-	3e 95	3 ₀ 95		. 1
	11	NWW	23907	0° 63	6,12	• -	_	-				2	
	12	_PD	_ 137,91	_Ǖ34_	4 ₀ 23-				1 ₀				
	13	MO	39528	0 ₀ 42		L							1
•	14								_ 1,0000-				
	15	BK	13607	0+39		· -				-			T
	16	=		-		\ 			1.00000				T
	17 18	DK	8514 10670	0 ₀ 37					1,0000 0,1178-				
	19	8 P	75 93	n _o 43					Co0942			19	
	20	KC	30931	_					1 o o o o o				
	21	IM	10976		4 80						4080		Т
	22	PS	32604						1 o Q C G G.	2c 35	- 2035	;	Т
	23	SMP	41978	20042	20 35	· -	-	_	1,00000	2c 35	2, 35		1
	24	_ RS	_98660						1 • 0 0 0 0 0 –				T
	25	BCH	76860	0673	0.064	···			1.00000				τ
						.·` .		·	- 1.09900				T
	30	PSR	12261	0034	1.51		_	-	100000		1051		7
						•7 · =		<i>-</i>	1-0000				. T
	33	LS	30708 12464		1.032			- 21	100000 08801		1 o 32		
	 36	RID	34834		00 64								1
-			7900		- 18.82		. <u> </u>	23	_ 0°0626				ำ
	41	CHM	8770		8c 23	<i>!</i>	- , -		60 0 90C				7
-	42	LP 1				٠	🗕 .		.0 ₀ 1386				٦
_	43	TC	75 93		· 3 ₀ 53		-	,	- •		,3°53		1
_} -	44								r _o 0534.				
	45	PKN			11076		⇒ `		0.0789			3 45	1
•					7096				100000	_			3
. ,	51				3.67			. · -	300001	" 3≈67 C-09		7 J	7 7
	ະສ	TGLL						- - 59		45 20 '	(,0 30	(; t	
Je.	111	JULL SPS			5.00				0.0100_				
7	a, tan 7 T 1 °		68.56	~	112-27				0.0610			* '	
134	3 - e-m					ar faragi S		·		• •		ŧ.	
مراه الأنام المراه		7. T.C.1			800.02	, , , , , , , , , , , , , , , , , , ,	٠٤٠	1 035	•		•		
				** 5	git fit sie gelaanse maksgel. Ge			~~.	موسورة مموسودي		•		
T 13 T	A May Co	SACE GALL	P. W. Sec. 1 Fred	N. 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1.7 c				•	• •			

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	,		•			,				•	المرائدة	PaGE	5
₹ 6m.	. (ÀL	CULATION	FOR	ALTERNA	TIVE	ROU	TING ()	NETWORK	BANGKOK	, T	HAILAN	 1D
	F	NO.] = 3/1	sw	i suB =	1000	30	SYSTEM	C 400	TANU	em a	REA =	7
 J	 N	MF	ctu	C/P		A\.		ב ֶנוא י	EIJ	0FL	VAF	KOUT	ING
- 1	т:	ζ.	6518	ი.40	7.10	131 <u>-</u>	. :	10	0.0828	 0.59 -	1 . 1	7 1	 T7
2/	1SI	2 1	6057	00 39.		<u>, 2:1</u>	·		-0°0395-				
2/:		₹ 2	6.057	0,39	51,12	_	· –	58	0.0395	29 02		7 2/2	T7
2/:			6057 -	-Go 39		-	-		0 ₀ 0 395 _	2 ₅ 02	ಕಿಂ3	37 2/3	- T7 -
3/3		y 1	n		53,81		: -	· 73	ბიბავი	· •	-	3/1	
(3/3 3/3		. 2	ი ე	<u> </u>	53 ₀ 81	-	_ 	73	¢° ŏ¢ 5¢~		·	_	
		-	6518	O- 40	,53 ₀ 81	_	_	73	9,0020	~ ~	_	-,-	
4/:		2	6518	0040 0040	53 ₀ 27			ون - بناه	– ი. ი. 0407– ი. 0407	2 ₀ 17		4-4/1-	
5	TI	_			43 ₀ ር5 -	<u> </u>		49	00 0458-			4 4/2	T7 T7·
6/:		/ 1	8822	0043	19.37		_	23	000727			04 6/1	T7
6/2	2 :: . P '	/ 2	8822 .		90 69				<u>0.1080 -</u>			8.6/2	
7/		(1	6518	0.40	46,28	_	-	52	000479	2022		8 7/1	T7
					46 _{0,} 28	·		52-	Bo0479-	25 22	-807	8.7/2	T 7
8/1		2 1	10731	0049	31.75		_	35	000761	2c 42		9 8/1	т7
8/2					31 ₀ 75 -				Qa0761			· · · · · · · · · · · · · · · · · · ·	T 7
10	T! Si		5852 7849	0.38	· 35 ₀ 52 · 4 ₀ 52		_	41	0.0494	1 0 75		4 9 .	T7
11	31 N		26866	0.62	6,19	· -			1000000 100000	4 ₀ 52 -			· 17
12-	P (3 ₀ 71			·		6c 19 3c 71	6 o 1		ፐፖ ፐፖ-
13	DI		41078	00 40	4036		_	-	100000	40 36	4 0 3		T7
14	B1	٠	25245	.0 ₀ 61	12038	. , . —.		13-		=		9 14	
15	81	ζ.	144 (3	6. 38	6 ₀ 73	_	· -	-	100000	60 73	607		T7
,	B(11282		7 ₀ 75 ·		-		-1000ceg-	7 _c 75 -	- 7o7	' 5	77
_ 17	Dł		11771	0.37	10,33		-	. 14	0.0657	6° 98 .	jo.	3 17	17
18.	B S				1 4 ₀ 53								T 7
. 20	- B1		8924 29250	0.43	17c 22	·	• _	21		1:19	•	1 19	T 7
21	I		11474	n _e 50	6046	\ <u></u>	· _		- 1,0000- 1,0000	6c 46	806 604		- T7 T7
22			30931		6019	: —			-100000-	_	6 ₀ 1		T7
23		!P	3 94 05	0.40	6019		_	_	1,0000		601		T7
24	R	S - •	-101260	0071	1o16-				-1,60000-	 -1a 16			
25		H	79460	00 70	0.86	··· -	_	- ~	~100000		0 o 8		T7
28	- N				1 ₀ 03				~ 1°00000°		100	,3 	· T7
30		SR		0 ₀ 38	2058		· -	- '.	100000		205		T7
31 33	L! ኒ:		32158 -		3, 23	:			1 o 0 o o o -				· T7
					2 ₀ 69 25 ₀ 40			71	1,0000 0,0454		206		T7
. 36		, [D		0.40	0 ₀ 86						იდ-⊶ა მი0		[
				_	26 ₀ 64			31	- '0a0615-				
41	CI			0 ₀ 37	10076	· _	· _ ·	. 14	000780			91 41	T7
42			. 13179 .		9069				-000745				
~ 43	,Т(5596	0.37		_	-	15	0.0812	• Gc 95	202	26 43	T7
					23,14		<u>-</u> .		Ço Q538				T7
45	Pi		12812		15087		-	20		0° 58		57 45	T7
					7 ₀ 26	·/=	-						
51 52	1 <i>N</i>		24910.		3 ₀ 71			. -		30 71	3.7	71	77
52 70		IN . ILL		G • 71.	40°00			59					. 77
-					477000 5.00	, -			Q ₀ Q010	_		- 101	
17		J	5730		117.50	1.79	9	•	0.0010		 -	······································	
-	·	ΙΠ.	TAL	-;	999.99	• • • • • •		1278					•

	CALC	CULATION	FOR	ALTERNA	TIVE	ROUT	ING	NETWORK	BANGKOK	, THE	ILAN	D
	. FROM	I = 3/2	SW		10000		YSTEM	C 400	T A ND {	M ARE	<u> </u>	7
•	NAME	CIJ	C/P	LIA	ΛŃΚ	МQ	NIJ	EIJ	OFL	VAR	ROUT	II
1		6518	0.40					0.0828	0.59	1.17		-
								0°0395				'
			n _o 39					, 0°0395 .		8 0 37		
•					•			6eEnon		·8°37		•
3,					-	-	^ .	0°0050 _0°0050		_	3/1	
ď	'3 SW 3	o		53,81	- 1956 		•				3/3	
		•		_	`. ,			0.0407		9014	-	
	'2 PL 2	6518			· -			000407	2c 17	9014		
s	TH-2	8412	06 42	43 ₀ 05 ₀				00,0458 -		-7060	-5	
6,			0,43					.0°0,252		3094.		
61	2 PY2							0°1080 -				
7,		6518	00 40					000479				
			0 40 0 49					იი479 იიი761		- 80 / 8 - 80 (· 9		_
43 e	'2 CP2.		-					000761	-			
G		5852	↑•38	35,52				000494	1c 75	6024		
_	sP	- 7849						- 1 ₀ 0000 -	_		•	
1		26866	9.62	6.19			-		60 1 9	6019		
1	2 PD	-26137	0 • 62	·		···		1 o 0 0 0 0 o -	3 _c 71	-3 ₀ 71		
1.	אם נ	41078	Q0 4Q	· 4 ₀ 36				100000	4c 36	4036		
1		. 25245			′ -		13-	- 0 ₀ 1689 -			14	
1		14403	Co 38	6, 73	· ' -	•		1,0000		6,73		
	5 - BC			· 7 · 75	,=	—		1000nc				-
$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$		11771	0 37	10.33	_			.,0°°0657 0°°0748	Φc 68	1 ₀ 53		
1		8924	Qa 43					Co 0 693	1c19	3021		
	KC -			-	-			100000-	-			
2	'=	11454	0.50			-	_	1,0000	6c 46	6046		
2	2. PS .	30931	0 • 40	6019	. , – .,			1°c000 -	б _о 19	6.19		
2		3 94 05	0 • 40		•			1,00000	6c 19	6019		
2		_						1-00006-				>
2		-	0670				·	1,0000	0° 86			
2					·=	-		-100000				
:3 :::3			0 ₀ 38	2,58 2,23		_	_	160000 160000	=	2058		
3 3		32158	0.40					1,9000		2069		
: 3			-				31.	0,0454_	-			. ,
3		36283	06.40	and the second s	_	_	_	100000		0.86		
3			0 • 41	26.64	, -	-	31	0a0615.				
4	т Снм		იი 37		· -	_	14	0.6786		1091		٠
	5 Lb 1			9069	· ·-·			. 960745.				
_ 4	= =	55 96	ი 37		-	-	15	0.0812	0e 96	2,26		
(\4					, < , ,		28. 20	0 ₀ 0538				
~ 4 =	5 PKN D SS		`^+37 ^-42	,	: • • =			_0°0618 0°0894∠		2c57		
. 5		24910	Pc 61		. —							
		.101060 -			. -	.,		- 1,0000				
	TGLL		-	40°C.				noncin	-	_		
			<u></u>	5 • NA-		:	1 n.	0.0100.		·	. 111	
Ţ	7	5730		117.50	1.79	,	159	0.0010	•			
	ومنهد يعدوني د	بحي ده سيد.	·			- :-		•-				*
T .	10	ŢĄĽ		999.99	-	•	1278	•				
Det 1		ا میروسیدها در کاران		سي ميه سامد څ	•••	***			•	4		
Ever have		The second second			•							

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		CALC	ULATION	FOR	ALTERNA	TIVE	ROUT	ING	NETWORK	BANGKU	K . TH	ATLEND
<u>-</u>			<u> </u>									
		FROM	I = 3/	3 SW	3 SUB =	1066	n S	YSTEM	C 400	TAN	DEM ARE	À = 7
		•						 •	,			
	J	NAME	CIJ	C\b	AIJ	V/M	μQ	NIJ	ETJ	OFL	VAR	ROUTIN
• •		~ · ·			· · · · · · · · · · · · · · · · · · ·	• • • •	***					• •
	1	TK	6518	0.40	7.10		_	10		0.59	1.17	
	2/2		6057 . 6057					•	0°0395			
	-			0 ₀ 39.					(°0,0395 0,0395	2.02	8.37	
•	3/1	Sh 1		- 00 39				36 · 73	0,0393	2602	8037	2/3 - 1
· · · · · ·		- Sh 2	· -						0°0050	. .	·	3/1 -3/2
1	3/3	Sh 3		-	53 ₀ 81		· <u>-</u>		0°0050 -			3/3
				On 4C -	53a27-				aaa407			
	4/2	PL 2	6518	0040	53,27			60			9014	
· • • •	. 5	TH 2	8412				`_		0-0458-	1097	0د د 7	5 T
	6/1	PY 1	8822	Ço 43	19 ₀ 37	• -	-	23	0.0727	1041	3094	6/1 T
· -	6/2-	PY 2	8822	0.43	···- 9 ₀ 69 -	·		12-	0.1080		2028	6/2 - T
	7/1	KK 1	6518	0.40	46c 28 ·	-	· - ·	52	0 09479	2, 22	. 8.73	7/1 .T
									n ₀ 0479		8078-	··7/2T
	1/8	CP 1	1 0731	0.49	31075			35	009761	2 _c 42	8°(·8	8/1 T
		- CP. 2			31 ₀ 75	. 	–	35 - -	ao0761 -	_	- Bo 119	8/2- T
	9	TM	5852	0° 38	-						- 6.24	
			7849			•			1 ₀ 0000.			· T
	11	NWW	26866	0.62	6,19	_	, - .	, -	1.0000	6c 1 9	6019	
					3 ₀ 71 -				—1 º ∪ ∪ ∪ ∪ −			
	13 14 -	DM BN	41078 25245	0 - 40	4036		4	-	1º 0000 '		4 0 3 6	т. Т
	15	BK	14453	Qo 38	12°38 6°73			- د 1	-0°1689-			
	16 .		11282	_	7 ₀ 75-		` _	•=	_100000 _10060#		6.73	7
1	17	DK	11771	0.37	10,33			. 14			1053	
									ი _ი ე 748	1 o (/ O	11033 12075	.19T
	19	ВР	8924	0.43	17,22	_		21	0,0693		3.21	
	20	кс		0.63					- 1,00000		- 8061.	T
	21	IM.	11404	0050	6046		· - ·		1.00000			Ť
	22	Ps .	30931	. Do 40			::		100000			
	23	SHP	3 94 6 5	0 • 40	6012	=	=	=			6019	ī
			101260		1 ₀ 16-		-		1 00000	1:16	- 1016-	
	25	BCH	79460	0 ₀ 70	Q ₀ 86				, 1º 6 0 0 0 0		0.86	7
	28	NK							1 0 0 0 0 0 0	1 ₀ Q3	1 ₀ Ç3	T
	30	PSR	14648	_		· · -			I° \tilde{U} U \tilde{U}	2c 58	2,58	
	31								1 ₀ 0000-			· - · T
	33	LS	32158	ባ ₀ ፋና	-		_	. -	100000			1
									0 - 0 454 -			
	36 37	RID	36283 7644	0 • 40	₽₀86 26₀64 _		·		1,00000 -		6085	T
	41		7644- 12077	•		,; - →			- 000615~			
					10076	-		14			1.91	41 T
	43	TC	55 CA		11 ₀ 84,				-11011/45 000812			
1 3		PTW	54G4	-0.37 -0.37	23.14			58- 	-0°0238-	1- 25 1- 25	3-7E	43 T
J.—	45	PKN	12812	0.37	15 ₀ 87.	/ -	· —	20		0- 08	2 ₀ 57	45 T
	_								-0.0894-		1.30	50 7
	5 I	NN	24910	0061	3 ₀ 71							JU - 1 - 1
•··									1,0000			
		TCLL		_	40,00.		. <u>-</u> .	59				101
									0.0100	-		
	T7	•		•					0.0016	•		- '
												•
		TCT.	ΔI		999.99		4.	1278	•	•		

J 1	FROM NAME	I = 4/1	PL	1 0110				_			
	NAME			1 20B	= 10000	, Sy	STEM	C 400	TAND	EM ARI	EA = 3
_		CIJ	C/P	LIA	V/K	PQ		EIJ		VAR	ROUTIN
2/.1	ΤK		0.43		" -	-		1.0000	2.93	2.93	
					•			ـــ٥٥ م٠			
2/2	SR 2		Qo 40	29° 28						5.50	
								-0.0576-			
3/1	Sh 1		0040	69.40		-	77		2053 1		
								0.0364			
3/3	Sh 3		0o40	69040		· - ·		0.0364			
4/1- . 4/2	PL1- PL 2							0_0020 0_0020			-
								0,00021 0,0769			.4/2
6/1	PY 1		0040	17 _c 35				069709 - 0 ₆ 9720	2045 1225	3036	
								-0.1073-			
7/1	KK 1			3¢₀.36						4075	•
								000467			
8/1	CP 1		0-40	26,39				Co0581		4085	
								- 0,0581-		4085	
9	TM	-	0.40		` -				1025	3.36	
10	.sP.							1 0 0 0 0 0			
11	NWW		0061		·		_	1,0000	6c 51	6,51	
12	P C	28032	0.62-	3069				1 0 0 0 0 0 0		-3,69	
13	DM		9649	5.75	·· _ ·		_	1,0000	5 _c 75	5e75	
14.	- BN						16.	_Q_0767.			
15	ВK			Go 14				100000		6014	
.16	. BC	. 12322 :	Ωο 37	6 ₀ 72	<u>.</u>	= .		1 ₀ 0000	60 72	6072	1
17	ŊΚ	12812		5,78			-	1,0000	5c 78	5.78	٦
18		10731	0.49.					<u> </u>	1 c 51	- 3°60	-181
19	BP	8617	00 42		: ~· -			0 ₀ 1073	9c 93	1096	19 1
201	KC .	23907	n • 60			` -		~~ 1° 0'0'0'0"	5e 78 ·	5078	
21	ΙM		0 • 41	4 ₀ 55		-	- '.	100000	4c 55	.4°55	
22				6. 33	:		<u>-</u>	- 160600 -		6°33	7
23	SMP		00 40	6ი 33		. , – , .	- .		_ 6 ₀ 33_	6033	
_ 24								1 o O O O O O -			
25	BCH	72060	υ ^ν 69	ი 58		_		100000		0.58	
							 -	- 100000 -			
30	PSR	25245		2024		-	-	1 6 0,600		2024	
							- · - ·	1 º Ა Ც Ც Ლ			
33	LS		0.62				_	1,0000	-	2046	
35								0.0682			
36 37	RID		00 40	0.58		-	-	****		0.58	7
41	ASD CHW	5340 12750		. ქეი/6 7 ₀ 95	1. J.			ნ₀0789 - ნ₀0794			
	. LP 1					_ ,	11	. 0 ₀ 1525		1031	
43	TC		Qn 41	4088			- 21/-			4c88	
_	-							0.0675			
45	PKN			13,19				000913			
50	SS .							100000			
51	NN .			3º 90		-		1,0000		3.90	
. 52		96060	0.71	1o-74		-	- ,	198000			
	TOLL				-			_		-	101
	S PS			5.00				0 . 0 1 00			
T3 -	•	5730		125-21				0.0610			

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		_	,			•	•	,	•		P	AGE	
	÷							پ					
		LALC	ULATION	FOR	ALTERN/	TIVE	KUUT	ING	NETWORK	BANGKO	к, тн	q I LAN	VD
		FROM -	[= 4/2	2 PL	2 SUB =	1600	a S	YSTEN	1 C 400	TAN	DEM AR	EA =	3
						.				··· •	•	•	
	J	NAME	CIJ	C/P	VIJ	VVK	MQ	NIJ	EIJ	OFL	VAR	ROUT	IN
	Į.	TK .	. 8975	43	2.93				1.000C	2.93	2.93		T
_								34-	0 ₀ 0570				
2	2/2	SR 2	7286	00.40	29, 28	-	'	34	0,0570	1667	5 5 5 0	2/2	T
									0 ₀ 0 570			•	T
	3/1	5h 1	6518	00 40	69,40	-	-	77	0 ₀ 0364	2:53	11090		T
J	_		- 6518		69°40 69°40				0°0364 0°0364				
	3/3		6518 Ω	•	•			77 40.	~~- 0 ° C C S O ~~		11090	-	T
	1/2	PL 2	0	-		, ,					_	· •	
			:1.03 <u>02.</u>	290 4.8 ₂₂	. 81 و 51 قبيب				ـــ 0 ₀ 0769 -		8019	•	٠,٢
έ	5/1	PY I	71 32	0040	· 17 ₀ 35	-		21		1, 25	3,36		T
•					8 ₀ 67				Qo 1973		1 0 96	6/2	T
	•	. KK 1	6210		30036				_000467.		4075		Т
		•							0 ₀ 0467 -			-	
ع ع ۔۔۔ و	2/1	CP 1	71.83 - 71.83	Ço 4€ C-4€		<u>-</u>			ີ່ດ₀0581 Ω₀0581		4 6 8 5		T
ç		TM	6569	. დ. 40 ი. 40	17 ₀ 35,			21		1:25	- 4ი გნ პი 36		, T
		SP -							1 ₀ 0000	•	· 3°28		
	li	NWN	24018	0061	6,51	• _	-	_	100000	6c 51	6:51		T
1	2	- PD	28032	.0 - 62	3 ₀ 69-				1 o 0 0 0 0		3009		T
1	13	DM	37398	ტი 40	5, 75	· -		· -	100000	5c 75	5 ₀ 75	_	T
1			12751				-	16	- 0°0767				
	15	BK	12383		6014		-	· -	100000	6: 14	Úo 14		T
`. '	l 6 17	BC DK	12322· 12812	₽o 37 -	60 72 50 78				1 ₀ 0000		6,72		- · T
	 								100000 001162		5678 30 ab -e -	. 1 a	T T
	19	BP	8617	Qo 42	8 ₀ 67		•		Co 1073	∩ ₀ 93	1,96		τ
2		KC	23907						1000000:		_		т
:	21	IM	חקפק	Qo 41	. 4 ₀ 55	•		-	100000		•		. 7
	22	PS	25579		6 ₀ 33	. –	- · - :		- 1 ₀ 0000 .		- 6033	; <u> </u>	T
		SMP	34053	۵ ₀ 40	6,33	-	-		100000		6,33		7
		RS			1,53				1 ° 0 0 0 0 0 -				
	25 28	BCH	72060	0.69	0 ₀ 58		_	, -	1°4000 1°4000		V 658		Ţ
	20 30	NK PSR	74460 25245	0.61	2024		·						1
	31	LP 2	12322		2o 17			,	- 1 ₀ 0000-		_		
	33	LS	28478	0062	2046			· _	100000				T
	35	ММ	7849 -	9o 41	21011				0° 0685	1s 44-	4017	'35	T
	36	RID	32158		Co 58			· -	- U - 1 - 1 - 1				1
									0 ₀ 0789 -				
	41	CHW	12750				- •		0.0794	-	_		7
•	42 43	. LP 1. TC	- 1 0608 8054		40 88				0 ₀ 1525 1 ₀ 0000				T T
		PTW	5596						0°0675				
	45	PKN	8924		· 13 ₀ 19	` <u> </u>	_		000913				7
					6051	–			100000-	6c 51	6 ₀ 51		7
	51	NN			3, 90		-	`'			3,90		1
	52		•		1004				100000 .	-	1004		7
	•	TOLL	•	_					0,000		-	101	
	'l' 73	5 PS ·	0 5730		125•21	_	· 		0.0166- 0.0016	* *		11	
	•	 .			_	1.62							
-		TOT			800.00		, .	1026		•			

	•	CALC	ULATION	FCR	ALTERNAT	TIVE S	ROUTING	NETWCRK	BANGKOK	, THAI	LAND
		FROM	I = 5	TH	2 SUB =	20000	SYSTEA	1 C 400	TANUE	M AREA	= 5
	J	NAME	CIJ	C/P	AIJ	V/M	ціи рм	·EIJ	OFL	VAR R	UUT I NG
-	1	TK	12200	0.37,			- 10	0.0724		0.98 1	
·								0°0362		_	
	2/2	SR 2	6415	0.40	64041	_	• —	_ ი _ი ი 362 ი. ი. 362		0 65 2	
	3/1	Sh 1	8412	0042	55,49	_		. 000423	-	0 ₀ 05 3	•
	3/2	Sh 2						0.0423.			
(3/3	SW 3		0.42	55,49	_	- 62			0005 3	
•	4/1	PL 3		. Co 48				0.0795			
	4/2	PL 2	10362	no 48		·. -	- 27	0.0795	1c 89	5.67 4	/2 75
		TH 2	; <u>.</u>		126 ₀ 84			ივიი -			
	6/1	PY 1	11282	0.50	23 ₀ 78	-	- 26			6088 6	
-	6/2	PY 2	11282				-	0 ₀ 1 1 36 -		3013 6	
	7/1	KK 1	7132	0.40	52.52	- ~~		. 0c0424		9.32 7	
	8/1 8/2	CP 1 CP 2	14936 14036	0°38	20681 20681	-	25	- 0 ₀ 0631 0 ₀ 0631 -		3079 8	
	5	TM	11444	₩ 50	12.86			0.00031 -		3.79 t 3.43 9	
	10	SP	13791	-	3 ₀ 86			100000 -	=	3086	, 15 T5
	11	NKK	28144	0.62	4095	-		100666	4c 95	4095	T5
	12 -	PD	10976		_			0 ₀ 1363	-	2032 1	
	13	949	75460	0.70	6 ₀ 24	—	-	100000		6,24	15
	14	8 N	31266		8e 92 -	. 🗕	12	0 ₀ 6.803.		1054	
	15	вк	25651	0061		· -		100000	40 95	4095	T5
	16	BC	5750				31	- 0 ₀ 0475.		3.80 3	
r	17	DK	61.59	0°39	34c 09 -	-	- 40	000449	1c 53	5037 1	
(<u></u>	8	BS	12995	0.37	12088			6 ₀ 0590	0c 76 -	1085	18 T5
	19	Bb.	8322	A-43	34,09.	-	- 39	0°0 82	1:83	6 ₀ 57 1	19 T5
	20 .	KC	35247	0•4C	.10 ₀ 31	-	13		v° 58	2018 8	
	21	IM	13371	9 • 37	8 ₀ 32	-	11	_	ሳ ₀ 78	1662 2	
	22	PS	36952		. 4046			- 1 ₀ 0006 -	- 4c 46	4046	T5
	23	SMP	78267	Q • 7Q	4046	-		100000	4c 46	4046	T5
		RS						1 º ccco			· T5
	25	BCH	84460	0.70	1.03		÷ -	-0 - 2 -	1003	1.03	T 5
	28	NK		. Q • 40 .	_			1,0000	_	3641	T5
	30	PSR		0.42	8,52		. – 11	-	ກະ 86	1081	
	31 33	LP 2 LS		0.62 0.40	.3 ₀ 86 1 ₀ 98	-		1,0000		3.86	T5
	35				16 ₀ 65	_	- 21	1 ₀ 0000 		1,598	T5 35 T5
	36	RID		. 0 • 40 - 0 • 40	1003			1°0000 		1063	75 75
	37 .		11465	•	11089		- 15	0 ₀ 0826.		2031	
	41	CHR	6415	0.40	22, 20.		- 27			3057	
		LP 1	14709		- 11 ₀ 89	, – ,	15		-	2031	
	43	TC	11098	0.49	11046		- 13		. 1c 52	3042	
<u> </u>	- 44	_PT% .		0.42	26026_		31	0,0563			
*	45	PKN	26025	A-61	19040	· -	- 10	. •		4089	45 T5
	50		9996		6044	_= <u>-</u> _	.	loncan.		0044	T 5
~	51	NN	24687	0.61	2097	<u> </u>		1,00000	_	2,97	T5
	52		103460		0 ₂ 79	-	. .	100000-		ùa 79	Т5
		TCLL.	0	-	40 ₀ 00.	-	- 59		-		th t
		-SPS	•		10.00.			0.0100		-	'1'
y va	T5	¥ .	5730		102.02	2.13	145	0.0010			
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	Yerko					! "		•			
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••••	CALO	ULATION	FOR	ALTERNA	TIVE	ROUT	ING	NETWORK	BANGKOK	 TH:	ÀILAN	D.
<u> </u>	FROM	I = 6/2	2 PY	2 SUB =	500	c S	YSTEM	C 400	TAND	EM AR	: EA =	2
J	RAME	CIJ	C/P	AIJ	۸/۸	MQ	NIJ	· EIJ	CFL	VAR	ROUT	IN
1	ΤK	12689	0.37	1.96				1.0000	1.96	1.96		Т.
2/	158 1	- 8156	C: 42-	11079-	- -		15-	0° 0798		-2021	2/1-	T
2/:	_	81 56	Çc 42	11079	-	-	15	000798	ი 94	2021	2/2	τ
2/:	3 SR E-	8156			·	- -		0 ₀ 0798 -	0 _c 94 .	- 2021	2/3	· · T
	1 · Sh 1	8822	Co 43	10.48	•••		13	0.1003	1005	2。36	3/1	T
- 3/2		8822		-10048				-0.1003	10 C 5	- 2,36	3/2	
3/:	3 Sh 3	8822	0o43	10.48	-		13	0.1003		. 2036	3/3	T
	5 · br 5	-7132 - 7132	6,40 6,40	12 ₀ 58 -12 ₀ 58			10-	<u>0</u> -0749				
-'	TH S	11282			_	_	16	000749 - 001034-	0.94	2026	4/2	T
6/1		71262		19,65			32	001034-	1c41	3.43		
6/2		^		9.82	-			0.0020			6/1 6/2	•
7/		7030	0.40	11.79	_	_	15	0.0798	∩. 94	2.21		T
	2 - KK-2			11 ₀ 79				0° 0798				· T
8/:		11465		6081	-		10	00.713	00 49	0.96		ĭ
8/2	5 Cb 5	11465	0c37.	6081 -	-	- .	10	.000713 -		0.96	8/2	ī
Ç	TM	10731	Cc 49	5 _c 24	_	_	-	1,9 0,000	5c 24	5c24	•	T
10	SP	13546	0638	. 1 ₀ 57		-		1 0 0 0 0 0 0	- 1c57	1e57		T
11	Nhh	11343	Q ₀ 50	3c41	-	-	-	1,00000	3c 41	3041		۲
12	- PD -	•		1 ₀ 02 _				1 ₀	1c 02	1062		- T
13	אס	307C8	63 ريار	4072		-	-	100000	4c 72	4072		ĭ
14	ВN	26583	0062 .	-	-	- ,	••	- 100000	7c 34 -	7.34		7
15	ВK	7951	0041	9004	-	423	12	0°0845	0c 76	1054	15	Т
15	ВС	13301	0.37	2 ₀ 36	-	. 		100COC		2,36		Ŧ
17	DK	13791	Co 38	3014	. –	_	_	1 9 0 0 00	3c 14	3 ₀ 14		Ţ
. 18.	-	6569		17c03 ,	····	—		~0 ₀ n656				
19	R P K C	82.07	0.42	8 ₀ 59	., \ -		11	0 6 1 0 4 3	0 ខេង	1 。ខម	19	T
21	I M	14586	Co 38 -	- 5,45		- .		1,00000				T
22	PS	575° 32269	0 ₀ 38 0 ₀ 40	7c23 . 3 _c 67	· -	-	10	= '	no 64	1.28	21	τ
23	SMP	40743	00 40	3,67	· _		. . .	1,00000 1,0000		3.67		7
24		. 8266°		1 ₉ 26	_	_		-	კ _ი 67 1₀25	3.67		Ţ
25	вĊН	35726	0040	0₀54	_		-	1,0000	C ₀ 54	° 1020		٠ ٢
28	NK -		?₀76	n _o 31	, <u>.</u> .	<u>.</u>		. 100CDG.		0.31		T
30	PSR	27029	0.62	0.79	_	-		100000	Co 79	0631		T
31	- LP 2	8822	0043		-			-1,0000		2004		ĭ
33	Ls	13791	^c 38	3,62		-	_	100000	3º 62	3,62		7
	H#	10976 .	. Qo 49	5 ₀ 45				1 o o con		5:45		Ť
36	RID	25914	na 61	0 ₀ 54	· _		-	100000	nc 54	2054		T
	- ASD	5852		6 ₀ 29	<u> </u>		– .	100000	6c 29	6029		T
41	CHW	1226:	್ಕ್ 37	3,41	-		- .	100000	3c 41	3041	•	T
42	LP 1	6927	0.39	- 6c 88 -			- <u>-</u> :.	1,00000	- 6¢ 98 🧸	6688		T
43	T C	11588	Co 37	3,27	-	-	_	100000	3:27	3027		T
	PTW	7383		5 ₀ 89	· · · ·		· ·	1.0000.		5089		7
45 50	PKN SS	13546 6364	0 ₀ 38	3e41	-	_	-	1,00000	35 41	3041		τ
51	NN.		0°39 0°49	. 8 ₀ 51.	. -		11	.001509.	n. 86	1080	50	T
	ии РТИ	19914 84090		2004 005∯	_	_		1,00000	=	2004		T
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	SPS			2 ₀ 50	- 🙃	_	20	04 10 00 04 10 00	· <u>-</u>	-	101	
T2		5730		106,22	1020		138	00010 0010		-	111	

CALCULATION FOR ALTERNATIVE ROUTING NETWORK PANGRAIK, THALLAND					<u> </u>										wa b
CALCULATION FOR ALTERNATIVE ROUTING NETWERK PANGAUK, THAILAND FROM I = 7/1 KK 1 SUB = 10 fbb SYSTEM Fare Tidule had 1	7			•	, ,					٠					
NAME CIJ C/P AIJ V/Y FO NIJ EIJ FEL VIA KOUTING	<u>ر</u>	-	*** *										P2	G ₁ :	سرا ذ 1
PROM = 771 KK SUB = 10000 SYSTEM	3			czu'ci	I ATTION	FGR	Alterna:		្ត ឧបបរ	ring	NETWCRK	PANGKUr			D
NAME CIJ C/P AIJ V/Y FO NIJ EIJ CFL VIN ROUTING			****								ARF 10) <u>1</u>	-	•	
TK	2			FRUM	1 = //1	. KK	1 506 =	10000	-	okositte		1 - 131	JEN KRE		-
2/1 SN 1			J	NAME	CIJ	C/P	AIJ,	۷/۲	γQ	ИIЛ		UFF	V 1.ν	KUUT	ING
2/2 SR 2 SIRE 0-356 49013 - ST. 0-03289 1-61 0-57 2/2 T1 2/3 SR 3 5186 0-363 49013 - ST. 0-05280 1-65 0-357 2/2 T1 3/1 SN 1 6518 0-040 46095 - 53 0-06453 2-13 0-443 3/1 T1 3/2 SN 2 6518 0-640 46095 - 53 0-06453 2-13 0-443 3/2 T1 3/3 SN 2 6518 0-640 46095 - 53 0-06453 2-13 0-443 3/2 T1 3/4 SN 2 6518 0-640 46095 - 53 0-06453 2-13 0-443 3/3 T1 3/4 SN 2 6518 0-640 46095 - 50 0-60453 2-13 0-443 3/3 T1 3/4 SN 2 6518 0-640 46095 - 50 0-60453 1-13 0-443 3/3 T1 3/4 SN 2 6518 0-640 46095 - 50 0-60453 1-13 0-443 3/3 T1 3/4 SN 2 6518 0-640 46095 - 50 0-60453 1-13 0-443 3/3 T1 3/4 SN 2 6518 0-640 46095 - 50 0-60453 1-13 0-643 3/3 T1 3/4 SN 2 6518 0-640 46095 - 50 0-60453 1-12 0-72 5/4/1 T1 3/4 SN 2 0-610 0-399 43-677 - 50 0-60458 1-12 0-3 3-71 5 T1 4/2 P1 2 7132 0-640 21-644 - 26 0-60458 1-12 0-3 3-71 5 T1 4/1 PV 1 7030 0-640 21-644 - 26 0-60458 1-12 0-3 3-71 5 T1 4/1 PV 1 7030 0-640 21-644 - 26 0-60458 1-12 0-3 3-610 6/1 T1 3/4 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 CP 1 70364 0-68 10-057 - 12 0-61341 1-39 3-664 8/2 T1 3/4 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 CP 1 70364 0-68 10-037 - 12 0-61341 1-39 3-664 8/2 T1 3/4 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 CP 1 70364 0-68 10-037 - 12 0-61341 1-39 3-664 8/2 T1 3/4 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 659 0-6020 - 7/2 3/1 SN 2 0 - 50.77 - 7/2 3/1 SN 2 0 -	0		1	ΤK	8975	0.43	3.11	-	-	· 					
2 2/3 SR 3 5186 0-356 490.33 - 57 0-60.220 1c6; -0c57.2/3 T1 2/1 Sh 1 c618 0-604 460.95 - 53 0-60.433 2:13 0-40.3/2 T1 3/2 Sh 2 6518 0-604 460.95 - 53 0-60.453 2:13 0-40.3/2 T1 3/3 SN 2 6518 0-604 460.95 - 53 0-60.453 2:13 0-40.3/2 T1 4/1 PL 1 6210 0-39 43.677 - 50 0-60.428 1:27 7-72.5 4/1 T1 4/2 PL 2 6210 0-39 43.677 - 50 0-60.428 1:27 7-72.5 4/1 T1 5 T1! 2 71.32 0.40 2.60.74 - 25 0-60.618 1:23 3-71.5 T1 6/1 PY 1 70.30 0-60 21.644 - 26 0-60.628 1:37 4-61.6/1 T1 5 €/2 PY 2 70.36 0-60 16.052 - 14 0-60.628 0-35 2-67.6/2 T1 7/2 KK 2 0 - 50.777 - 69 0-60.20 - 7/1 7/2 KK 2 0 - 50.777 - 69 0-60.20 - 7/2 8/1 CP 1 10.364 0-648 160.37 - 12 0-13.41 1:39 3-64.8/2 T1 10 SP 11526 0-37 3-20 - 12 0-13.41 1:39 3-64.8/2 T1 10 SP 11526 0-37 3-20 - 1-10.600 3-23 3-2.8 T1 10 SP 11526 0-37 3-20 - 1-10.600 3-23 3-2.8 T1 11 NNM 126/7 0-38 56.46 - 1-10.600 3-2.3 3-2.8 T1 12 PC 14648 - 6.38 2-2.13 1 1 1 0.676 5.45 5.46 T1 12 PC 14648 - 6.38 2-2.13 1 1 1 0.676 5.45 5.46 T1 14 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 245/76 0-61 7-64 - 10.000 - 7.64 7-54 7-54 11 BN 257 0-60 0-62 10.000 - 10.000 - 7.64 7-54 7-54 11 BN 258 0-60 0-70 10.000 - 10.000 - 7.64 7-54 7-74 11 BN 245/76 0-61 7-64 7-64 7-64 7-64 7-64 7-6															
271 SN 1 6518 0.647 46.095 - 53 0.6483 2.13 0.48 3/1 T1 272 SN 2 6518 0.640 46.095 - 53 0.6483 2.13 0.48 3/1 T1 272 SN 2 6518 0.640 46.095 - 53 0.6485 2.13 0.48 3/1 T1 272 SN 2 6518 0.640 46.095 - 53 0.6485 2.13 0.48 3/3 T1 4/1 PL 1 6210 0.39 43.667 - 50 0.62828 1.07 7.255 4/1 T1 4/2 PL 2 6210 0.39 43.667 - 50 0.62828 1.07 7.255 4/1 T1 4/2 PL 2 6210 0.39 43.667 - 50 0.62828 1.07 7.255 4/2 T1 6/1 PY 1 7.030 0.640 21.084 - 26 0.6618 1.29 3.71 5 T1 6/1 PY 1 7.030 0.640 21.084 - 26 0.6618 1.29 3.71 5 T1 6/1 PY 2 7.030 0.640 110.92 - 14 0.6028 0.99 2.007 6/2 T1 7/2 KK 2 0 - 50.77 - 69 0.6020 - 7/1 7/2 KK 2 0 - 50.77 - 69 0.6020 - 7/1 7/2 KK 2 0 - 50.77 - 69 0.6020 - 7/2 8/1 CP 1 1.0364 0.648 1.037 - 12 0.1341 1.39 3.664 8/1 T1 9 6/2 CP 2 1.0364 0.648 1.037 - 12 0.1341 1.39 3.664 8/1 T1 0 SF 11526 6.37 3.28 - 12 0.6072 - 7/2 11 NNN 13677 0.38 5.46 - 10.0072 1.0343 1.39 3.664 8/1 T1 10 SF 11526 6.37 3.28 - 12 0.6072 1.0343 1.39 3.664 8/1 T1 11 NNN 13677 0.38 5.46 - 1.0000 3.23 5.28 T1 11 NNN 13677 0.38 5.46 - 1.0000 3.23 5.28 T1 12 PPD 1.4648 6.08 2.013 - 1.0000 3.23 5.28 T1 13 DM 37175 0.600 6.88 - 2.13 - 1.0000 3.23 5.28 T1 14 BN 2.4576 0.61 7.64 - 1.0000 7.62 5.46 T1 15 BK 12261 0.37 7.92 - 11 0.6773 0.66 5.88 T1 16 BC 8.22 0.43 6.22 - 1.0000 7.64 7.04 T1 17 DK 10241 0.48 7.86 - 10 0.6136 0.52 5.22 T1 18 BS 4.663.0.42 12.556 - 1.6000 7.76 5.22 T1 19 BP 6.66 0.40 20.53 - 25 0.6058 1.23 1.5 T1 18 BS 4.663.0.42 12.556 - 1.0000 7.67 5.22 1.1 1 24 RS 94260 0.671 1.182 - 1.0000 7.67 5.22 1.1 1 25 BCH 72467 6.67 1.1082 - 1.0000 7.67 5.22 1.1 1 25 BCH 72467 6.67 1.1082 - 1.0000 7.6 5.22 1.1 1 26 BCH 72467 6.67 1.1082 - 1.0000 7.6 5.2 5.2 T1 27 RS 94260 0.671 1.182 - 1.0000 7.0000 7.6 5.2 5.2 T1 28 RS 94260 0.671 1.182 - 1.00000 7.6 5.2 5.2 T1 29 ST366 0.40 0.68 5.0000 - 1.0000 7.0000 7.6 5.2 5.2 T1 20 SS SS SS 6.60 0.60 0.60 0.60 0.60 0.60	2							_	-						
3/2 Sh 2 6518	•	•							` -			· · · · · · · · · · · · · · · · · · ·			
3/2 SN		. ``						-		,					
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		CALC	ULATION	FOR	ALTERNA	TIVE	ROUTI	NG	NETWCRK	BANGKOK	, THA	ILAN	ND -
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7	-3/2. 3/3	. S // S .	6518	Co 40	46 ₀ 95	-	••• .,,,,,,,,	- 53-		2013	8 ₀ 48		T1
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į	•••••	42	LP 1	13056	0031 -	- 9c 40	. 		13	-0 ₀ 0657		- 1c35	42	T6
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CALCULATION	FOR	ALTERNATIVE	ROUTING	NETWORK	BANCKOK	THAT	LAMO

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	-2/1-	-SR-1	11649 -	0 ₀ 30	31 ₀ 33	······································		-0c0289	no 91	3-05-2	/1 T6
	2/2	SR 2	11649	00 30	31 ₀ 33	-	- 39	0 ₀ 0289	ი $_{o}$ 9 $_{1}$	3005 2	
-	2/3	SR 3	11649		31,33-			Ს º ᲡᲒ୫୬ ~		- 3.05.2	/3 -T6
•	3/1	5 W 1	10731	0.989	23° 50	· ••		0,0345		2045 3	/1 T6
		-Sh 2	10731		23,50.			- no0345		2o45 3	/2 - T6 · -
(3/3	SW 3	19731	0.29	23,57	_	– 3ú	0.0345	0 ₀ 81	2,45 3	/3 T6
-		PL1			-,28098	•		n _o ე329			
	4/2	PL 2	71 83	೧₀31	28,98	-	- 36	0.0329	0c 95	3013 4	/2 T6
		TH 2			14, 16			Co C460 ·			
	6/1	PY 1	11465	0.30	18,80	-	- 24	0.0465	Ωc 87.	2043 6	
	7/1	- PY -2 KK 1	10364	.0a30 0+29	- 9 ₀ 40 .			- Go4657		_	
					21 ₀ 93 · 21 ₀ 93		- 28	0.0380	_0c 83	2045 7	/1 T6
	2/1	- KK-2- CP 1	. 71:204		32090		- 48	-0.0386			
•	8/2	CP 2	ç.		- 32.90	_		- 0.0050° = 0.0050° =	_		/1
	9'	TM	79 °0	η.33	35.25		- 42·				/2 .
	10	SF	11465	0°30 °				-100000	1.33	4.72 9	
	11	NAM	30829	Po 35	3,92	-		100000	3° 92	3 ₀ 53	T6
	. 12	P.C	_34834					1 ° ນມະນະ		3092	T6
	13	NM N	74060	Ωo 63	5 ₀ 17			100000	5° 17.		·T6 ·
	14	BN	82.07		. 20,37		2A-	000727		5c17	T6
	15	3 K	26025	€ ₀ 52	5,48			1,0000	5 ₀ 45.	4 ₀ 22 1 5 ₀ 48	
	15	BC	25914	0.52.		- .		1,0000	4 ₀ 23 ₁₋	4.23	T6
	17	ÐΚ	26806	0c 53	5,64			1.00000	50 G 4	5064	T6 T6
1	.18				- 8062 -		•	0, 0703			
	19	ВP	13247	₽o 31	11c28	_	- 16	000444	0,50	1016 1	
	20	KC	12567		- 16029	- .	21.	-		2023 2	
	21	. I#	11098	^o 30	6,58	-	- 10	000627	Qo 41	0.80 2	
	22	PS	12138	Co 52 -		٠ , 🕶	•	- 0a1267 -		2,82 2	
	23	sṛp	27252	G ₀ 66	10018	' -		1,0000	10e 18	10.18	T6
	24 .	RS .	10686r	Po 66	1 ₀ 38	· · · · · · · · · · · · · · · · · · ·		_ 1,0000			
	25	BCH	37621	0037	1.63	-		100000	1063	1063	Т6
	28 -	NK	86669	0064	- 0 ₀ 56 -		 .	100000-	nc 56	0.56	T6
	30	PSR	32046		1641	-		1,00000			T6
	31	LP 2	10976	Co 29 -	6,11	~ -	'	1,00000 -	. 6 ₀ 1 1	6011	- T6 -
	E E	LS	352811	Go 36			 ·	1 0 9 0 0 0	- 2c 19-	2019	T 6
	25	.HM -	5852	.0,28			24	n _e n4n9		2.08 3	
•	Зé	RID	27809	₽ ₀ 56	1 ₀ 63 -			100000	1:63	1003	T 6
	₹7	4SC	8453			-	p 19	Qn0534	. no 77.	1996 3	
	43	CHN	26694		პი53 -			100000	3:53	3,53	T 5
	42	LP 1			9₀4C	. 4 1.–		: 0 ₀ 0657	0062	1.35 4	
	43	TC	10731	0.0 29		. - .	- 11	000615	0° 45	2593 4	3 T6
		PTW	. 8719	-0° 56	~100 97	···		E850 c0-	- ⁰ c42	0096 4	4 T6
- (·		PKN	5841	0 ₀ 58	11,52	·	- 12	0 ₀ 1796	20-97	4051 4	
	50				. 14, 31	· · ·		- 160000		4031	T6
	<u>51</u>	ŇŇ	30039			-		100000		2.35	· тб
٠إِيْ	•				_ 20.63 _	. –	- · - ,	_ 100000	- No 63	0.63	T6
4 .	. 10 1	LOFT.	. ი		Soco.	-		000010			Q I
and the second	سيارا الرابيد مارات م	-SFS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		5,00			0 ₀ 01 <u>0</u> 0		t	11
14 - S	धार्क अ		7471	\$		1043	125	$0^{\circ}0010$,		
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*****	CAL	CULATION	FOR	ALTERNA	TIVE	ROUT	ING	NETWORK	BANGKOK	, TH	AILAND	· .
~ waaaaaa*	E ROM	I = 10	 SP	suß =	3000	, ş	үзтем	C 400	Tá Ni	EH ARE	 ≘A = 7	 ,
										411		
J	I NAME	.CIJ	C/P	· AIJ	۷/۲	νQ	LİN	EIJ.	OFL	VAR	ROUTI	NG
1	ŤΚ	6825	0.31	1.82	· -	_		1.0000	1.82	1.82		T 7
				40 64	-			1 o 0 n n n				
2/		10976	0e 50	4054	-		_	1,00000	4c 64	4064		17
	/3. SR 3			4064 .			. –	-1-0000	_	40 64		77 ,
3/		7849	° 57	5, 65		_	_	1,0000 .		5.65		77
3/		7849		5-65 -			-	-1 ₀ 0000 -		5,05		T7 -
\ 3/	/3 Sh 3 /1PL-1	7849	0 ₀ 57	. 55 65 60 06		_	_	1,0000	5 ₀ 65 ·	5.65		T7
4/			. 06 40 - . 06 40					_1 ₀ 0000 _1 ₀ 0000				T7·~
5		13791		4084		_	_	1 e Q C C C		6006 4084		T7 T7-
6/		13546	0,51	2083				ን ⁶	2683	2.83		T7 '
6/			0.51			-		100000 -		1041		T7
7/		11526	0.52	. 4cra	-	_	_	100000	4c Q 4	4004		77
	2KK2			4c 04 -		,		-100000-				17
7.9		11465	0041	4c 64	_	_	_	100000	42 G4	4504		T7 '
	.S - C P S	11465		4064		_ `	<u>-</u> بالد	104.000	-	4064		T7 -
ς.	T.M	6415	Po 30	15,14	1 -	<u>-</u>	20	0.6485	Ca 73	1.87		77
1.0	S S F	'n		-17092 4	-	-		-0°0000		_	10	
. 11	N % W	34611	9.70	1.11	··· -	_	→ `	1.0000	1.11	1-11		T7 '
12	PO	34388	0.71	0 • 67				; . a c o p	0, 67	-0.67	• •	T7 -
13	B DW	68860	0.77	0.79	-	_	-	1 • 0 0 0 0	C. 79	0.79		77
14	BM	26583	Co 56	2 ₆ 22	-	-	- .	1,00000	೭೬ ೭೭	2022		T7.
15	В ВК	29816	O ₀ 67	1011		-	_	1,00000	1c11	1011		T7
16		25468	<u>ი</u> 89	1,09	-			1 0 0 0 0 0 0	. 1c09	1:09		17
(17		26360	Oc 70	1,45	-	-	-	1^{0} \dot{v} c vG	1c 45	1045		T7
` 18			. 0 ₀ 69	2042 _		– .:		~.1 o n n n n n	2c 42 -	- 2042		T7
19		14403	₽ ₀ 54	1c78	-	-	-	100000	1c 75	1c78		T7 '
20		33/50	್ಕಿ 63	1645-		. - .		1,00000.	1e45	1.45		T7
. 21	•	14464	0° 20	1,69	-	_	-	1,0000	1009	1.09		۲7
22		32269	∿° 3∂	. 1 ₀ 1).	-			1 9 0 000		1011		T7
23	-	40743	ტი 39	1011	-	-	-	100000 +	1c11	1011		T7
24	,,,-	.113666		0 ₀ 21					0°c 21			77 ~-
25		88467	0 74	0.15			-	100000	∩ ₀ 15	0015		17
	3. NK -	85860	0.79	. 0.15	- i	- .		1,00000	^o 15	0:15		Т7
30		31690 20705	0.71	n ₀ 36	_	-	-	100000	ი _ი 36	0536		T7
	LP 2	29715	Λ ₀ 65	- ∩ ₆ 54 -		-		1,00000	9c 54	0.54	,	T7
33 3535		39071	0° 45	3,71	-	•••	-	1,00000	Λ ₀ 44	Co 44		T7 '
36		41361	. いっこ / ・ いっ 43	∩ _o 15		. -	., 	-100000-		3e71		17
	' ASD	114 4		3 ₀ 03	-	_		· 1800000	0c15	0.15		T7
41	•	26917	0 ₀ 7Ω	1021	_	_	_	1,00000 1,00000	3 ₀ 03 1:21	3.03		T7
42	-	26583		1041	_	_	_	1000000		1 o 2 1 1 o 4 1		17
43	· · · · · · · · · · · · · · · · · · ·	6313	ŋ° 30 904	3,93			_	100000	3:03	3 _c 03		T7
. 44	-			2°.72	. . -			71,00000		2002		T7 ~
45		13546	Go 34	2032			_		. 2:32	2,32	•	T7
i	SS	13791	0,53	1,221		- .	-,	. 100000 .		1,21		T7
£1		33161	Oo 71	0.67		_		100000		J _c 67		T7
. 52		115060	9078	Coll8*	., -	-	- `.	lanone -		0.18		T7
מי		6	_	6,00	_		14	01000	-	_	ıüı	
1.1	SFS-	باراقة السنسران		1,50_		. ,	-	00 01 00	··········	-	111	
<u>_</u>	7	10259		110,17	1001		140					
- 3.4	, , , , , , , , , , , , , , , , , , ,	•	: .		٠.	• -						

TOTAL

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•	CV F	CULATION	FOR	ALTERNAT	rive	ROUTING	NETWORK	BANGKOK	, THA	ILAND	•
	FRON	I = 12	ЬĎ	suB =	3700	SYSTE	1 C 400	TA NO	em ARE	4 = 5	
J	NAME	CIJ	C/P	ΑΙJ	٧/٨	KQ NIJ	EIJ	OFL	VAR	RŪUTI	٧G
1	ΤK	31489	0.63	0.73			1.0000	Q. 73	0.73		т5
2/1				7°79 ·	–		0.1122				
2/2		13791	0,42	7 ₀ 79		10	0.1122		1078		15
2/:		13751		· 7 o 79		10	. 0,1122		1.78		TS .
3/1		26137	Co 71	7 o 30			1,000	7 _c 30	7.30		15
3/3		26137		7 ₀ 30		···	1 ₀ 0000		-7 ₀ 30		T5 😘
(3/:		26137	Se 71	7, 30	_		1,0000	7,30	7.30		T5
4/1				4014 -		–	1_00000				T5
4/2		28032	0,73	'4 ₀ 14			1,0000	4c 14	4014		T5
. 5	TH 2	10976		15 ₀ 58	·		- 1 ₀ 0000 1 ₀ 0000		4001-		T5 -
- 6/1		29816	0076 0-76	3 _c ^4 - 1 _c 52-	_	-		3004	3.04		T 5
6/2 7/3		29816 - 14648	n.42	4099			- 1,00000 00000 -1		1.52		T5
		14648	• •			·	- 1 ₀ 0000 -	4c 99 .	4,99		T5
		34834	Co 64	1 _e 58	-		1000000		4.99		
8/2		34834	00 64	1058	_	- <u>-</u>	~_100000 ~ 100000	1c 58	1,58		T5
9	TM	30039	0.76	2007				2c Q 7	1058		T5 ·-
10	S.P	34388	7064				- 1 ₀ 6000.		2007		T5 ·
11	いいと	40743	0c 66	ب 55 9ء 55			1.0000	™ 55	ნი40 0ი55		T5 ·
12	PC		-	19 ₀ 03			0° 0050			12	T 5
13	D4	98060	n.78	(°.40			1.0000	0.40	6.40		~
14	- BN	75467		1010	_		- 1°0000-				T5 .
15	BK	38297	್ಕಿ 65	0.61			100000 - 100000	0.61	1010		T5 T5
16	80	12995	0040		_		_ 100000		0 ₀ 61 2 ₀ 19		T5 T5 -
_ 17	DK	8770	Ço 27	5 ₉ 84	_		1,00000	5c 84	5084		T5
(18.		32938 -		1 0 34 .		🚅	1 o O O O O ~				
19	8.5	27929	0,04	Ja 95			100000	1e 95	- 1:34 1:95		T5 T5
20	KC	82667	0.79	1 ₀ 07	_		-1,0000.		1093		T5
21	1.5	334 96	0 ₀ 64	0.95			100000	° 95			
22	P.S	8556r		. 0.55	_		- 1,0000		ù₀95 0₀55		T5 T5
23	S#P	100860	Qc 78	ი 55	_		1,000	n _a 55	φ ₀ 55		T5
24		_12886h -		0.11				Oc 11			
25	B'CH	107060	no 78	Co11			1 ₀ 0000	Coll	0e11- Co11		T5
. 28	NK	76661					1,00000		0°58		T5
30	PSR	26471	₽071	0.73	•		100000	ν ο 73	0.73		T5
. 31				" Qo 40. "	- .	-	100000	0040			T5
33	Ls						109000	0° 24	0024		T5 ;
35.		. 362 <i>8</i> 3 .	.c. 65	0624 1 ₆ 27			1,0000.		1027		T5
36	210	89450	Gn 79				1,0000	0011	0011		T5 ,
37	ASC	30131		2007	-		igeno.		2007		T5
41	CFA	13791	0.42	3,90	-		1 ceree	3,90	3,90		T5
. 42	LF 1			1.52			100000	1052	1.52		T5
43	TC	2 94 82	Co 75	1,22	_		100000	1e 22	. 1.22		T 5
	PTW -				-		1,00000.				T5
45	PKN	38628	0.65	0.70	_		1,000	$n_0.79$.			T5 '
	- SS	27475	Ω ₀ 73.	0,67			1000ng	0:67	0.07		75 :
51	NN	37287	Co 65	0,33	-		1,00000		0.33		15 . T5
	_ PTN	126767		0.05	_	, — (100000	-	0 ₀ 09		15 T5
10			_	60 (10	_	- 14		- 4669	~ ~	101	. –
	'SFS	*		1,56 .	·		G ₂ O100			111	
75	~·~	18329		88,72	1,06	_	0.0016		•	-	
											

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· · · · · · · · · · · · · · · · · · ·	CAL	CULATION	For	AL TERNA	TIVE	ROUT	TNG	NETWORK	BANGKOI	. TH		vin '
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)	FROM	I = 13	рм	SUB =	3000	s	YSTEM	C 400	TAN	EN ARE	EA =	4
J	NAME	CIJ	C/P	LIA	V/M	MC	NIJ	EIJ	OF L	VAR		T T 1.1.0
· · · · · · · · · · · · · · · · · · ·			CZP	Y13				E13	., UPL	VAR	ROU	IING
1	ΤK	952 <u>6</u> 0	0.96	0.84		- ,		1.0000	0.84	0.84	_	T4
2/1		39628	0.72	3.92	_	-	<u>.</u>	1.0000	3.92	3.92	,.	Τ4
2/2 2/3		35628 39628	C.72	3.92 3.92		<u></u>		1.0000 1.0000	3.92	3.92		T4
() 3/3		4]078	0.47	3.92	_	_	· _	1.0000	3.92 3.92	3.92 3.92		`T4
3/2		41078	0.47	3.92				1.0000	3.92	3.92		T4.
.3/3		41078	0.47	3.92	_	` - .	_	1.00.00	3.92	3.92		T4
4/1		37398	0.72	5.04	-			1.0000	. 5.04 [^]	5.04	:	_{T4} `
4/2	_	37358	0.72	5.04		_	_	1.0000	5.04	5.04		Т 4
5	TH 2	75460	0.81	3.73				1.0000	3.73	3.73		Т4
6./1		30708	0.73	5-60	_	-	·	1.0000	5.60	5.60		т4
6/2		30708_	0.71	2 • 80 _	·	<u>.</u>		1.0000	- 2. 8D	2.80	-	~ T4,
7/1		371.75	0.72	5.60				1.0000	_ 5. 60	5.60		T4
7/2		373.75	0.72	5.6C	-	-	-	1.0000	5•60	5,60		T4
8/1		76060	0.81	3.73		. -		1.0000	3.73	3.73		, т4
8/2		76060	18.0	3.73	_	-	-	1.0000	3.73	3.73	1	Т4
, — 9 — 10	TM SP	73660 82860	0.8 <u>1</u> 0.80	2.99 0.62				1.0000	2.99	2.99	- •	T4.
11	NWW	30262	0.71	1.96	_	_	_	1.0000 1.0000	0.62 1.96	0.62		T4.
12	PD	98060	0.79	0.50		<u></u>		1.0000		1.96		- T4
13	рM	. 0	_	41.66	_	_	59	0.0020	-	-	13	1-4
14	BN	92260	0.80	2.05	_ '	·	·- <u>-</u>	1.0000	2.05	2.05	~ ~	T4
15	BK .	14036	0.53	4.67	_	-	. - `	1.0000	4.67	4.67		T4
> 16	вс	82060	0.80	1.46	-	· 	·	1.0000	1.45	1.46		T4
17	ÐΚ	83660	0.80	1.94	_	-		1.0000	1.94	1.94		τ4
18	BS	34611	0.71	5.60	``-	- .'.'		1.0000	5,60	5.60		~~ T4`
19	BP Ka	39740	0.72	4.33	-		-	1.0000	4.33	4.33	-	T4
. 20 . 21	KC	35503	0.72	3.14		₹		1.0000	3.14	3.14		T 4
22	IM PS	31600 102460	0.71 0.79	2.58 1.03	_	<u>.</u>		1.0000	2.58	2.58		T 4
23	SMP	117660	0.79	1.03	_	_	_	1.0000 1.0000	1.03 1.03	1.03 I.03		T4 T4
24	RS	13485	1.00	7.78		_	·-·	1.0000	7.78	7.78		T4
25	всн	37064	0.72	0.31	• -	_	_	1.0000	0.31	U.31		T4
28	NK .	125460	0.78	0.19		_	-	1.0000	0.19	-0.19		Т4
. 30	PSR	93060	0.80	0•49	-	-		1.0000	0.49	0.49		Т4
31	LP 2		C.71	1.18	_	-	- .	1.0000	1.18	1.18		T4
33	ĿS	81.56	0.58	1.87	-	_	_	1.0000	1.87	1.87		T4
35	HM	40520	C-47	2.99	· - · · ·	<u> </u>	·	ე.000ი	2.99	2.99		T4
36	RID	27252	0.71	0.31	-	-	_	1.0000	0.31	0.31		T 4
37	. ASD Chw	34611 78660	C.71 O.80	2.52	· -		- -	1.0000	2.52	~ 2.52		T4
, , ,	· LP 1	28032	C.71	0•93 2•80			<u></u>	1.0000	0.93	0.93		T4
43	TC	76460	0.81	1.40	_	_	_	1.0000	2.80 1.40	2.80		T4
44.	 "PTW"	37956	0.72	2.80		· <u>-</u>	· <u></u>	1.0000	2.80	2.80		- T4
45	PKN	82860	0.80	1.87		_	_	1.0000	1.87	1.87		T4
50	~ `\$S	35726	0.72	2.80	_	· <u>-</u> - ·		1.0000		72.80	• ~	T4
51	NN	36283	0.72	1.18		-		1.0000	1.18	1.18		T4
52	PTN	35503	0.31	¢•31	-	-	-	1.0000	0.31	0.31		Т4
		0	-	6.00	•	-	14	0.0010	_	<u> </u>	*0 *	
* 1. *	~~SPS		<u>-</u> - `	1.50	~	-	<u> </u>	0.0100		***	11.	•
T4		10626		130.86	-		154	0.0010				
i i	To	TAL		180.02			241					
		- ^-		100.02		- <u>-</u>	473			- *		- 3

		CALC	ULATION	FOR	ALTERNAT	IVE	ROUT	ING	NETWORK	BANGKOK	, TH4	ILAN	Ð
*********		= ≎Ok	i = 14	BN	suB =	10000) S	YSTEM	C 400	TANDE	M ARE	ο =	6
•	J	NAME	CIJ	C/P	Į Į Į	٧/٢	מא	NIJ	EIJ	ΩFL ⁻	VAR	ROUT	ING
	1	тк	27921	0.67	4.35	` _	_	-	1.0000	4. 35	4.35		Т6
	2/1	SR 1	26917	. 00 67-	10o 62 ··		,., 	1 0 -		2c 53 🕂 -	5c19	2/1	TG
	2/2	SR 2	26917	0.67	10,62	_	-	10	n _o 2425	2c 58	5.19	2/2	T6
	2/3	SR 3	26917	0067	- 10.62	, 		10	n _o 2428	- 2 ₀ 58	5019		Т6
	3/1	Sh 1	25245	0266	18635	-	- ,	18,		3c 23	8006	3/1	76
_	3/2	S% 2	25245	Ac 66	18 ₀ 35	- ,		18	G ₀ 1762	3c 23	8c 06	3/2	T6 -
(3/3	SW 3	25245	0566	18c 35	-	-	18	0.01762	3c 23	8.06	3/3	T6
	4/1	PL 1	12757 -	.0052	:17 ₀ 39	· ·		19-	. 0 ₀ 1204.	5° 09	·5c45	4/1-	To-
	4/2	PL 2	12750	0 ₂ 52	17 ₀ 39	_		19	001204	2° 09	5,45	4/2	T6
-	5	TH 2	312(6	0.68	- 8 ₂ 69				. 1 ₀ 0000	— მან9	8069		T6
	6/1	PY 1	26583	Po 67	13 _c 52	-	-	13	002109	2c 85	5c29	6/1	T6
		PY 2	26583	no 67 -	6n76	_		-	- 160000	6s 76	6076		Tó
	7/1	KK 1	24576	0066	11 _c 59	-	-	11	092309	2: 68	5。57	7/1	T 6
	7/2				11 ₀ 59 .				g _o 2 3 c 9 .	2c ú8 -	5c57	7/2	Tó.
	8/1	CP 1	82 C7	O ₀ 43	19,80	_	-	23	£00810	10 60	4,50	8/1	Tб
. •	8/2 .		.82^7		19,80	_	. –	23	20,0810		4050	8/2	Τó
	9	ΤM	13677	0c 53	10.62	-	_	12	Co 1439	1°53	3035	9	T6
	10	SP	26983		1016	-		• ,	150000	1-16	1010		T6
	11	NWW	39851	0c44	1645	-		-	1.00000		1045		16
*****	12	PD			1030				- 1,00000-	1:30 · ·	1.30		· T6
	13	DM	92260	0c76	1,88	_	_	-	100100	1088	1.88		T6
	14	BN	n		47c33	-		- 65	ç _o ar,2n		_	14	
	15	BK	35057	0+68	4.83			•	1.0000	4.83	4.83	_	T6
	16	BC	34945	20 68 .		_			1 2 0000	2061	2061		T6
	17	DK	35837	20 69	30 48		-	-	1,00000	3c 43	3,48		Т6
(18	RS	32-46				. –		-	9 ₀ 66	9,65		- T6
	19	8 P	29816	0007	5, 80	-	_	-	100000	5,87	5.80		T6
	S.C.	KC	27129		7 ₀ 73	- ,	-	- .	1.000.0	7c73	7:73		Т6
	21	I.M.	25014	0066	5, 80	_		_	100000	5: 83	5.80		76
	22	PS	6671		16,56	-	_	22		0c 68	1079	22	Τó
	23	SHP	11832	0°28	16,56	٠_		22	A00409	n ₃ 68	1579		Т6
	24	RS	123069	0,75		. -		—	1,0000		0.50	•	Т6
	25	всн	77660	0.76	0.77	_	_	-	Loncro	0.77	0,77	•	Т6
	28	NK	102860	Co 76.		_		-	1,00000	∩ _s 35	0,35		Т6
	30	PSR	41078	Co 44	0.87	_	_	_	100000	Oc 87	2087		T 6
•	31	LF 2	25651	ი _ი 66	2,99	-			1,0000	. 2e 90	2095		Т6
	33	LS	76261	0076	1,93		_	-	1,00000	1:93	1093		T 6
	.35. <u></u> .	_HM	_ 11159		15,84.		–	_18		· 1070	4,35	35	Т6
	36	RID	352.80	Q ₀ 68	∂e77	_	_	_	100000	ne 77	0c77		T6
		ASD	14257	0.54	8,69	_	_	10	0.1535	1 c 33	2074	37	T5
• •	41	CHN	35726	0.69	2017			_	100000	2c 17	2017	-	Т6
		LP 1	2 94 82	2067		_		· ·	100000	6e 76	6070	•	T6
	43	TC	25245	2066	7:24	_	_		100000	7c 24	7024	•	T6
	44	_PTW			5 ₀ 80		<u></u>	.	_ 1.6000		5080		T6
_(45	PKN	64.56	. 0 ₀ 55	9090	_	_	11	101589	1:57	3034	45	Т6
	50	SS	28701	Pa 67	4 _c 83	_	_	-	100000		4,83		TG
	51	NN	39971	Qo 44	٥° 87	-	_	_	1,0000		0087		T6
		.PTN	12446	0 ₀ 75		_		_	100000	ne 23	0.23		T6
-	101	TOLL	12446		20,00	_	-	. 34	0.0010	٠٠		101	
		S-S			5,00 _		,		0001.00			111	
	. 76		8506		142001	1c 38	- • •	181	000100 010000	•		-	
· ~ .	· -				, ,	, 23			-				

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TOTAL

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		FROM	I = 16	BC	sus =	6000	 	SYSTEM	C 400	TAN	DEM ARE	A = 5	
	J	BMAME	CIJ	C/P	LIA	۷/۷	MQ	NIJ	€IJ	OF L	VAR	ROUTI	NG _
	1	ΤK	14219	0.41	1.24		_		1.0000	1.24	1.24	*	т5
					6c 6Q				-1 <mark>-</mark> 0 0 0 0 0	6c 60 ·-	- 6660		T5·
	2/2	SR 2	81.05	0044	6 ₀ 60		_	-	1,0000	6 ₀ 60	6.50		T5 `
		SR 3	- 81 ₹5	-	60 60 -				-1 -0005				
	3/1	Sh 1	11282	0°51	7043	_	_	_	100000	7c43	7.43		T5
	3/2	Sh 2	11282		70,43	_ 	-		1,0000-				T5
	3/3	5 h 3	11282	7051	7.43	-		-	1,0000	7:43	7.43		T5
		. FL 1	12372		5 ₉ 57				4.00000				
	4/2	PL 2	12322	0.52	5 _c 57	-	-		1,0000	5c 57	5.57		T5
	- , <u>-</u>	TH 2	5750		35 ₀ 49.		. –	37	0.0988		11.89		T5
	6/1	PY 1	13371	0.53	5, 57	_ '		-	1.0000	5c57	5.57		T5
	6/2	PY 2	13301	n•53	2,79	- -	_	. 	1,0000	2 ₀ 79	2079		T5
	7/1	KK 1	8822	7 44	6c 81	-	-	_	100166	6: 81	0081		T5
					6081				1,0000		6081		T5 -
	e/1	CP 1	25914	0,66	5,57		_	-	100000	, 5c 57	5,57		T5
	e/2 -		25914	0.66	· 5°57				1.00000		5 · 57		T5
	9	TN	13424	Q ₀ 53	3, 10		-	_	1,00000	3 ₀ 1 0	3,10		T5
	10	SP	25463	0.65	G ₀ 93	- .			100000		0.93		Τ5
	11	NWW	31823	A 67	2 ₀ 58	_	_	-	100000	2c 58	2,58		T5
		- PC			2 ₀ 23 -				_	2° 23			T5 -
	13	DM	82067	0e 74	1 c 55	_	-	_	1,0000	1c 55	1 c 55		T5
	14	BN	34945	0.43			_		1,00000		3.10		T5
	15	e K	29370	0.67		_	_	-	100000	2 _c 58	2.58		T5
	16	BC	7	_	17e33	_	- .	29 -	0.00CSn		_	16	
	17	DK.	7849	0.43	5.94	_		_	1.0000	5.94	5.94		Т5
(18	BS .	24^18		5 ₀ 16		 _ ".			5c 15 ·	5016		T5
10.	19	ВP	11771	0051	50 94		-	_	1,0000	5 ₂ 94	5.94		T5
	20 .	KC	38759		- 4013			<u>.</u> –	100000	4013	4013		Т5
	21	ŢŅ	24576	ე _{ი 6} 5	3,10	_			100000	3c 10	3010		T 5
	22	Ps	40632	Ω ₀ 43	1,55		- -	=	100000	1,55	1 0 55		T5
	23	SHP	84860	0074	1.55	_	<u>.</u>	-	100000	1c 55	1,55		T 5
	24				0.41	- .	– .		-1.00000	ne41	- 9041	•	T5 -
	25	ėсн	91/60	Co 74	0.41	-	_	-	1,00000	Oc 41	0.41		T5
•	28	NK	28255	1034	1.62	_	<u> </u>	, - ,	1,00000	· 1:62	1,62		T5
	30	PSR	6876	Ģ ₀ 31	4,04		-	_	160000	4c C 4	4004		T5
	31	LP 2	31266	0 ₀ 67	1,55-	`. <u> </u>			.1,00000	- 1c55	1.55		T5
	33	LS	38625	Qo 43	1,73	-	-	_	160000	1c03	1503		T 5
	.35	_HK		.0066.	40 46.				Lionean.	4:45	- 4046		T5
	36	RID	73460	0074	0.41	_	_	-	100000	0c 41	0c41		T5
-	37.	ASD	13485	0041	. 2c79	-	-		1971/0	2c 79	2679		T5
	41	CHN	81 (5°	0044	82 87		_	11	001155	1c 02	2016	41	T 5
	42 .	LP 1	27140	00 66	. 2c79				1,0000	2c 79	2079		T5
	43	ΤÇ	13118	0053	2°06		_	-	160000	2a 06	2,00		T5
5 -	.44	PTW	.10914	ჩინწ	-30 40 -		_ .		-1°5000	3c40	3e40		T5
W	45	PKN	297:55	Co 67	2,79		-		100000	2079	2079		T5
_ 4	,E 0	SS	12*16	Co 52	. 2,58		, –		1,00000	. 2 ₀ 58	2,58		T5
	51	NN	28367	00 66	1,55	· -	_	_	1,00000	1e 55	1 c 55	1	T 5
anies.	52 _	PTH	110060	0074	. 0 ₀ 41	-	. –	-	1 9 9 0 0 0	_ ^c41	Pe41		T5
	្រំក្នុង	, TOLL	^		12,00	- .	-	23	0.0010	· -	-	101	
, , , , , , , , , , , , , , , , , , ,	17.4.	- SFS	, n	- > + 1====	3 ₀ 00			7	n _e n1nn.		-	111	
33. P	T5 -		7420		167,86	1,06		5,73	c_0 $cc10$				
	7 7 7		3	 	•			· .					

>	•	CALC	LLATION	FOR	ALTERNA	TIVE I	: KOUT	ING	NETWORK	 BANGKU	Κ , ΤΗ4	ILAN	อ
		FROM	I = 17	. OK	 SUR =		•••	SYSTEM	***********	 .	OEM ARE		**
)			-		-0			-1 2/1		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	DEN AKI	:4 =	5
;	J	NAME	CIJ	CNP	ΛΙJ	۷/٧	MQ	VIJ	EIJ .) OFF	VAR	ROUT	ING
ን	1	TK	14709	0.41	2.86		-	_	1.0000	2, 86	2.86	-	T5
	-2/1-	SP 1	8514	- 00 44.				12-	- 0° 0802	65 B 3	2.00 2.1.00	2/1	T5
`	2/2	SR 2	8514 .	0044	9c 21	-	_	12	0.0905	0° 83	1.80		T5
?	E\2.	SR 3.	8514	0044	- 9 ₀ 21			12 -	ព _ិ ភូទូកន្	0 _e 83 -	- 1.60	2/3	T5
	3/1	Sh 1	11771	0 ₀ 50	10048	-	-	. 12,	001384	1c 45	3018		T5
	3/2	Sh 2	11771	. ଜ _ନ ଅନ୍	. 10 ₀ 48	<u></u> .		12	- 0 ₀ 1384	- 1c45	- 3018		75
1	3/3	Sh 3	11771	0 ₀ 50	. 10c48	-	-	12	0c1384	1c45	3018		T5
! 		. PL 1-			7c31.	-			1 ₀ 0¢¢n		7 ₂ 51	•	15
Į.	4/2	PL 2	12812	ი _ი 52	7 ₀ 31	-	-		160000	7.31	7c31		T5
·	5	TH 2	6159		_ 34 ₀ 31		–	36	- 0 ₀ n972 -	-3e34	11:20	5	75
	6/1	PY 1	13791	na 53	7 ₀ 31	·	-	_	1,00000	7c31	7031		T5
	6/2		. 13791	0.53_	-	-			-100000	3₅ 65	· 3° 65		T5
ĺ	7/1	KK 1	10241	C•48	8° 56	-		10	Po 1 335	1:10	2.26	7/1	T5
ļ;-			_10241		8 ₀ 26		-	1 C	- 0 ₀ 1-335	1:13	. 2526-		
<u> </u>	8/1	CF 1	26366	Po 66	6 ₀ 35	-	-	· ·	1000000	6c 35	6.35	-	T5
	8/2		26806	₽+66	6 ₀ 35				leance -	6: 35	o ₀ 35		T5
	9	T.	13913	ิก∙53	7 ₀ 94	-	_	· –	1_{0} or on	70 94	7094	•	T5
	10	SP	26360	0 • 66	1091 -	· -	-	-	-logoco -	1091	-1c91	-	T5 -
	11	N KM	32715	Pa 67	3°18	-	-	-	1,00000	3a 1 a	3015		Т5
	12	PC	- 877 <u>0</u>	.0 • 34				1 O··	₽₀066¢	nc 44 -	0a 86 -	12 -	· T5
	13	DW	83660	۸٠75	1091		-	-	100000	1091	1091		T5
	14	BN -	35837	Co 44	- 6 ₀ 35	. -	· -	. i	100000	- 6:35	6c 35	••	T5 -
	15	8K	30262	?∗67	3 ₀ 65	-	-	-	150000	3ა 65	3:05		T5 ·
-	16	ВC	7349	0.42	14068-	. .,		18	- Go9784	lo15	- 2091.	16	-T5
ĺ	17	DK	•		19,06	-	-	~ 31	0.005c	-		17	
	18	.Bs	24910		7.31	-			_1 . 0 0 0 0	7.31.			T5
, }	19	ВР	12261	0 ₀ 51	8,39	-	-	10	ი1395	1017	2040		T5
•	20	KC	39851	Bo 44.	-		-	-	10000	5085	. 5.85		T5 ·
	21	IM	25468	მი 66	4,38	-	-	-	1,0000	4c 38	4c 38		T5
!)	22	PS	41524	Oo 44	. 3 ₀ 18	- - -		- .	1 0 0 000	3c 18	3,18		T5
	23	SMP	86460	ტი 75	3,18	-	-	-	100000	3c18	3:18		Т5
	24		114460		0 ₀ 51		-		- 1 ₂ 0 0 0 0	- Pc 51	·0:51		T5
}	25	всн	98660	0 ₀ 75	0.58	- '	-		1,00000	0558	ປິ່ວສອ		T5
	28.	NK	365€6	Qn 44 -	1,96.		-		100F0V""	- 1:96	1096		T5 ·
	30	PSR	11955	Co 51	4,89	-	-	, - ,	1 e 0 0 0 C	4a 89	4¢89		T5
} .	31 .	LF 2	32158	2,67	2,19	. -		· –	1,00000	- 2c19	19و2ء		T5
	23	LS	39517	0044	1,46		-	-	100000	1c 45	1040		T5
	35		28255				·		1,60000	- 5c CS -	5 ₀ 68		· T5 ·
*	36	RID	75966	0c75	0,58	-	_	-	1,00000	Ac 58	0.58		T 5
	37	ASD	13974	Go 41 -			- .		1,0000		3,65		T5
	41	CHW	8514	0044	8,58	· -	_	11	001037	0° 89	1.87	41	T5
•			. 28032	90 66	3 ₀ 65	· - ,	— . ,	 –		3°65	3°05		T5
•	43	TC	13697	\$ ₀ 53	4077		→ `	- .	reducé	4c 77	4077		T5
	.44 45		11464	0.50		· · · · · · · · · · · · · · · · · · ·	. 		-1,0000		4o13-		- T5 -
	45 50		12567	0667 0.51	· 3018	_	-		1,00000	3° 18	3013		T5
	59 51		125(6	0.51	. 3005	· ·-	_		100000		3065		T5
i	52	NN DYN :	29259	0 ₀ 67	1091	-	_	-	1,0000	1091	1091		T5
	191	PIN :	111660 O	0 _ი 75 –	9 ₆ 51 ·				1.0000	- 0°21	0.51		·T5
	11		_	_	160AC - 4000	-	_	29	0.0010		-	101	
l .	TS	.J F J	8239		4000; 148 ₀ 72				-0-0100			121.	•
}			02.49		*400 \ \$,	1c15		185	0.0010				
•		TCT.	A 1	*	745 64					-			

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		FPOY	I = 18	BS	sus =	10000	S	YSTFM	C 467	TARL	EM AR	EA =
	J	NAME	CIJ	C/P	LÍA	۷/٧	ኦQ	NIJ	FIJ	OFL	VAR	RUUT
-	1	TK	24353	0.64	2.29	_ -		_	1.0000	2. 29	2.29	
	2/1	-SR 1 -	10670	. Ո ₂ 45	1 Sc 29			18 -	- No 0934	1c43	- 3064	2/1-
	2/2	SR 2	15670	Co 45	15c 29 1	-	-	18	Ç ₀ 0934	1043	3064	2/2
~	2/3	SR 3	1.0670	Cc 45	- 15029 -	_	-	18	4E e a o o	·1c43	3064	2/3
	3/1	Sh 1	12261	0050	18c86		-	21	0.1047	1c 98	5.36	3/1
	3/2	Sh 2	12261	0.50-	18 ₀ 86	. -		21	. <u>0</u> .1047	1 ₀ 98	5,36	3/2
(3/3	SW 3	12261	Go 50	18686	-	-	21	001047	1° 58.	5。36	3/3
	4/1	P <u>L</u> - 1	1673;	. Co 49	1 8e 35 ·-		– . 	21	₽°6933	- 1-71	4064	4/1-
	4/2	PL 2	10731	0049	18 _c 35	-	-	21	000933	1571-	4064	4/2
	- 5	.TH 2	12995	6,49	20 ₀ 39			23	0° 0658 ™ -	- 1: 89.	5c32	5
	6/1	PY 1	6569	0c56	25, 90	-	-	22	001270	2c 65-	7,28	6/1
-	6/2	PY 2	6569	ಿ 56	-10045 ·	-		1 1	058160	1 c 9 1·	40:13	6/2
	7/1	KK 1	8463	1.39	22c 94		-	28 '	000510	1:17	3051	7/1
	.7/2	-KK 2-	8463~	49-39-	22e94 -			28	0.0516	1017	J ₀ 51	7/2-
	2/1	CP 1	14464	Co 43	9c17	•	_	12	Qo 8890	Cc 82	1.076	3/1
	8/2.	.CP 2	14464	C • 41	- 9c17	 .	-	12	0.0890	n ₌ 82	1076	8/2
	9	TM	13737	0∙53	7c 65	-	-	-	100000	7e 65	7065	
	19	SP	26816	20 67	2029 -	· - -		_ .	1,00000 -	2c 29	2029	
	11	NWW	7644	0 • 53	17c84		-	24	0°0335	٥ <u>.</u> 59	1.60	11
	_12	- PC	. 32938	.C • 64 =	3066	<u> </u>			. 100000	3 ₀ (46)	3506	
	13	אמ	34611	0066	6,12	-	-	_	1000044	6:12	0c12	
	14	BN .	325 46	Co 68	. 7565	- ,	-	🗕	london	70 ô5	7 ₀ 65	
	15	ВK	10853	Cc 47	10a 19	_	_	12	0.01271	1c 29	2.83	15
	16	ВC	245 18	7.61	6,12				. 100000	6:12	0012	
_	17	.DK	24910	Ao 61	8 ₂ 15	_	-	-	100000	8:15	8015	
(. 18	.Bs.	Δ.		46 ₀ 38	-		64	0.0020		_	18 -
	19	BP	8310	0∙35	16.31	· -	_	21	0.0521	0.85	2.25	19
	20 .	KC	26137	0.61	16.31	1	-	16-	0.1848	. 3.01.	7.26	
	23	ΙŅ	8258	Co 43	12,23	***	••	15	0.0924	1013	2,67	
	22	PS	37733	Qa 45		_		- .	1,0000	3.82	3,82	
	23 .	SMP	7966^	9076	3 ₆ 82	_	_	_	1,0000	3c 82	3082	
	24	RS		0074		- ,	. -		100000 -	· 1c63·	1.63	٠,
	25	в'сн	39628	0.43	1.63	_	·_	_	1,0000	1:63.	1063	
		- NK	83260	0.72	. 0.82 -		-	-	infector.	0002	0.82	
	30	PSR	30151	Qo 63	2004	· -	_	_	100000	25 5 4	2004	
	31	LP 2	11343	C- 46	6c12 -	– .	- .	,	1,0000	6c 12	6012	
	33	Ls	25691	?₀63	4,06	_	· 		100000	4c 🗜 8	4c08	
	25	_ HM	13974	. ი. 53	70 34		_ _		100000-	-7034	7034	
	36	RID	29816	წ ინ5	1 _c 63		_	_	100000	1c63	1.63	
,	. 37	ASD	8361		9017		- .	- 12	0 ₀ 0890	rc 82	1.76	37
	41	CHW	12383	0,33	5.10	. -	-		100000	5c 10	5.16	
	42	·LP 1	70 81	00 33	10c45	· -	-	14		Po 72	1063	42
	43	TC	14097	0o 40	3,82	-		-	1,0000	3:82	3082	
-	_44	PTW	10792		11047 -			13	0 ₀ 1355		3,50	44
ſ	45	PKN		Cc 67	4059	-	_	-	1,0000	4059	4059	
	.sn	-SS		.0 ₀ 33		–	_	-21:	00 0507	0:82 -		50
	51	NN	7286	0c28	10070	′ –	_	15	0°0516-	Qa 55.	1026	
	. 52.	PTN	74260	0,60		-	- .	-	1 o n o n n	2c 83	2.85	-
	1,0,1	TOLL	ŋ	· -	2n _o çe	_	_	- 34	0.0010	• 🕶	-	101
·	سال أأأسب	., S FS			5 ₉ 00	-	. — .: .		000100	. –	_	111
الم المالية	Τ2	No. 10 Personal Property of the Control of the Cont	8729		128003	1643		166	000010	17		-
	Tank of the		•	~ •	•				•			

•						•									
į			C# LC	ULATION	FOR	ALTERNA	TIVE	RGUT	ring	NETWORK	BANGKU	, TH	4 I L 4 N	טו	
•	*****	·	FROM	1 = 19	вР	sun =	8000	, ,	SYSTEM	C 400	Tapit	JEM AR	_ _A =	1	
		J	NAME	CIJ	C/P	ΑIJ	MVX	۲Q	ИĬЙ	EIJ	ULF	VAR	ROUT	ING	•
		1	τĸ	12812	0.52	2.40	-	-		1.0000	2.43	2.40		Ti	•
ļ -		2/1.	-SR 1-	7593	Cc 41	- 13 ₀ 18			16-	1190°u	1e20	2091	2/1-	T1	
		2/2	SR 2	75 93	Oc 41	13-18	-	-	16	- 0° 6810	1:20	2691	2/2	T 1	
-		2/3	SR 3	7593	Co 41	13,18	- .		16.	-congic -		2.91		Ti	
•	•	3/1	Sh 1	8924	0544	9c 98	_	-	12	001190	-1c19	2659		TI	
		3/2	5 h 2	8924	0044		_	_	12	001190	1019	2059		71	
		3/3	Sh 3	8924	F0 44	. 9°56 86°6			12	001190					
		4/1	PL 1 .				_	_			1019	2,59		T 1	
					£044	10 ₀ 78	· - - ·	·		-091107		2,68			~
		4/2	PL 2	2617	₹6 44	10,78	-	-	13	001107	1c 19	2.68		TI	
		5	TH 2		90 40	27 _c 15	· 		32 ·	·	1c50	4079		Υı	٠
		ć/1	PY I	82.47	Ça 38	16,37	-	-	50	0 ₀ 0721	1013	3011	6/1	Υ1	
ĺ		€/2	PY 2.	8207	0.38	8 ₀ 18	· · - -	-	- 11	Qo0881 -	C2 72	1,50	-6/2	T1	
		7/1	KK 1	64 66	0.56	17097	· -	-	19	061354	2:43	6031	7/1	T 1	
-		7/2.	KK` 2	6466	0.56	17,97			19-	-:001354	2= +3	tic 31		- T1 -	
ì		2/1	CP 1	13240	0.52	7 ₀ 19	_	_	_	100000	7c 19	7019		TI	
		2/3	CP 2	13240	0.52	7019			- .,	1,00000	7.19	7c19		Ti	
		ç	TM	11894	A•51	5,99	٠		_	100000	5c 99	5099		T1 .	
		10	SP	14403	C • 4)	1,80	_	_		-100000					
		11	NWW	12995	^•32	5.39	.:				1 _c 80	1 0 8 0	•	T1	•
		12						-	-	1,0000	5:39	39 ه 5		T 1	
•		13								- 100000		2040		- T1	
			DM	39740	0.41	26 40		_		104000	2040	2040	•-	Υ1	,
		14	BN	29816	€n 67	5 ₀ 99				100000	· 5; 99	5,99		1.7	
		15	8K	13668	△•37	5, 99	-	-	_	1,00000	5: 99	5,99		T1	
-		16	B.C	11771	0.48	4 ₀ 79		. - .		- 1,00000 -	- 4c 79	4079		T1	
		17	DK	12261	0049	6c 39	-		٠-	1000000	6c 39	p.39		T 1	
		18		~ 83 IG	0 • 35	~ 17°97;	` -	. -	23	_0 ₀ 04'83	0c 87	'2¢37	18	T1	
		19	ំភ្	n	-	28c75	, –	-	43	0.0120	- •	-	19		
		20	KC	32269	0.65	12.78	, - .		12	0.2290.	- 2.93	6.25		T 1	
		21	IM '	11037	Co 45	9 ₀ 58	· · _		12	0.1039	icon	2016		Ti	
		22	PS	355 <i>°</i> 3	no 69	2,99	·	_ ==		100000		2099		T 1	
		23	SPP	75660	0076	2599	-	-		1,0000	20 99	2099		T1	
		24	RS .	98860			=			-100000				· T1	
		25	всн	77060	Po 71	1.28			_ ~	_1°0000		5 a 6 4			•
		28	NK	72669	2073		_		_		1:28	1028		T 1	
		30	PSR	24241	0 ₀ 62	0 64 1 60	-			-1,0000	0e 64	0004		Τ1	
		31	LP 2			1,60	_	_	_	100000	1 60	1000		T 1	
				14779	0.37	4079	· -	_	- . <u>-</u> .		4,79	4079		Τı	
		33	LS	39829	0ი 63	2,40	` -		_	1 0 0 0 0 0	2040	2040		T 1	
		35	HM		მი53.		· · · · · · · · · · ·	- -		1 o GOOO		75 ه 5 -		T1	
		36	RID	34945	004I	1,28	-	-	***	100000	1:23	1,28		T 1	
		37	ASD	10976	9049	5° 39	-	- -		·100000	5 ₀ 39	5,39		Ti	
		41	CHM	6774	0 ₀ 27	6079	-	-	11	000417	າ) 28	Qc 55	41	Ti	
		42 .		12444	0048	8 ₀ 18	- .		10.	Q ₀ 1298 -	lett	2017	42	T 1	
	- ,	43	TC	11719	Co 5/	3° 68	-	-	_	100000	3, 99	3c99		T 1	
		44	PTW	7695	no 42	8 ₀ 98 -			12	000824			44 -	~ T1	
		45	PKN	24576	0.66	3,59	· -	_	-	1,0000	3 ₅ 59	3.59		T1	
	:	59	SS .	5903	0530	8 ₀ 98	-	. - .	13.	0. 0539		1004	50	T 1	
	:	51	MN	8770	0,23	3023,	-		-	Loncoc	3 ₀ 23	3,23		T1	
		52	PTN	89460	90'07	0.86		_	_	1,0000	0685	0,86		T1	
		10.1	TOLL	0		16050		_	, 29	000010	-	-	101	• •	
			_ SPS			4,00	_	-		0 ₀ 01 00		_	-		
		T1		8606		124c51	1,28		160	0°0010		·	• 1 •		
				55.0		* - + +	1920	•	YOU	026.16.		•			
	± •	•	TOT	AL		400003	• .	•	545			•	•		

	•	CALC	ULATION	FOR	ALTERNA	TIVE	ROUTING	NETWCRK	BANCKUK	, TH6	ILAN	D
		FROM	I = 20	KC	su8 =	8600	SYSTE	4 C 400	TANU	IN ARE	Δ =	6
	J	NAME	CIJ	C/P	ΛΙJ	۷/۲	MQ NIJ	EIJ	CFL	VAR	ROUT	ING
	1	ΥK	34388	0.56	1.35	` 		1.0000	1.35	1.35	•	Т6
/	-2/1-		-30931			•				6091		T6
	2/2	SR 2	3/1931	the 51	ΰ _α 91 ′	·	- , -	100000	6 _c 91	6091		Tō
•	- 2/3	SR 3	36931		- · 6c91 -	·		- 100000		6c91	•	T 6
	3/1	Sh 1	29259	€6 50	11005		,- 13		1:33:	2,99		T 6
	3/2	S% 2	29259		110,05	. , 🕶 🕳	13	. 0 ₀ 1203 .	1e 33. 🕝	2099	3/2	·T6
(3/3	SW 3	29259	ი, ვი	11 ₀ 05.		- , 13		1c 33	2099		T 6
****	4/1	_PL 1-	-23907	Po 54	13 ₀ 13 -		14	4.0g1557 -	2: 041 1	4072	4/1	T6
	4/2	PL 2	23907	Co 54	13,13		- 14	0c1557	2c C 4	4072	4/2	Т6
	5	.TH 2	35281	0.53-	- 11 ₀ 74 -		· - 13-	0 ₀ 1453 -	1c71	3,85	5	T6 -
	6/1	PY 1	14586	Co 24	15,89	-	- 22	0.0314	0.50	1c29	6/1	T6
	- 6/2	PY 2	1 45 86	Co 24	7 ₀ 94	-	12	. 000497.		0.81		T6
	7/1	KK 1	28590	9 • 50	12c44	_	- 14	•	1064	3.81		T6
	7/2	_KK 2	28590 -	0.50	12044		14			3.81		T6
	8/1	CP 1.		0.32	13 ₀ 13			000451		1544		Tó
	8/2		12567	0.32	13,13 -		- 18			1044	•	T6
	S	TM	27921	0.61	5 ₀ 91	· _		1,00000-	6c 91	6091	·,	T6
	10		33150	^ი 55		. <u>.</u>				1076		T6
1	11	NWW	33384	r • 30	6 ₀ 56		10		0c 41·	6.79	1.1	T6
	12	- PC					•	100nna -	_	1076		T6
	13	אח	365/3	ი 25	30 94	_		100000	3c 94·	3094	•	T6
>	14	BN BN	27/129	₽•68		_		1,0000				
	15	8 K	25356	0° 36	6,55			100000 - 100000		7.25		76 ·
	16	BC	38959	- 0 ₀ 55 -					6 ₀ 56	6.56		T6
)	17					-		1 ₀ 0000		3.52	-	T6
ď		,DK	39851	n-55	40.76	-		1.00000	4c 70	4070		T 6
'h		9S			11,40	-		0.0691 -				
1	19	8 P	32269	Đ _o 50	86 29	-	- 10	-	1:12-	2,29		76
	50	KC	0	-	23, 21	-	- 37		-		20	
	51	I,M	12567	0.21	10.36	_	. – 16	-	0.29.	0.63	21	Τó
}	22	PS		Oo 73	3 ₀ 63			1,0000	3°63°	3,63		T6 -
•	23	SMP	41189	00 66	3,63	-		lanton	. 3c 63	3,63		Τō
	24	RS	91260		1.05	 ,		1 ₀ 0000	1e 05 ·-	1 e 0 5	•	T6 ·
1	25	BCH	13974	0011	1c62	-		1,00000	1c 62·	1062		T6
′ -	28	NK	110060	Q ₀ 71			-	159000.	0c 47.	Qc47		T6
	3ク	PSR	7766č	Cc 69	1017	-		1,0000	1c 17	1017		76
} ~	. 31	Fb 5	81.45	no 14.	=	-	11	0 ₀ 0248	Cc 15:	P.28	31	T6
,	33	LS	26583	v° 55	2 ₀ 63	-		1,00000	2c 63.	2003		T5
	35	HM	10425 .	Co 25	10650	-		- 0 ₀ 0470	რა 49•	1011	35	T6
,	36	RID	7949	$\rho_{o} 11$	1,62	-		3 ° 0 C C C C	1 c 62.	1062		16
)	37	ASD	25133	0054	6 ₀ 56	_		169000	· 6055 •	6056		T6
	41	CHA	38179	0c 53	2 ₀ 94		- -	100000	2094.	2094		T6
	42 .	LP I	12567	00.20	. 7 ₀ 94		13	<u>. ೧</u> , ೧೭၇5	no 23.	0047	42	T6
,	43	TC	31712	ిం 55	2 ₀ 25	_		1,00000	2c 25 ·	2025		T 6
~	.44	PTW	27252	. Co 49 .	6e 22	 .				6.22		Т6
Ι,	45	PKN	1379)	0044	6056	-		1,0000	6c 56 -	6.56		Т6
)	50	SS	28255		. 5 ₀ 70			1,0000	5c 70	5,70		Т6
	51	NN	33161	Ac 31	3,94			1,00000		3094		T 6
	52		112860	0061				1,0000		10/5		T6
ì	101	TOLL	<i>^</i>	-	16 ₀ 00		- 29		76.5		101	. •
	-	-SFS	, č		4,00	·		0.0100		-	111	
· ••• " "	76	ĭ, .	23458		128014	1,18	163			.=	•	
	,					- (3 -4 44		- () 4 1 -				
		τητ	<i>1</i> 1	**	359099		506				•	
	, , ,				22 20 39		. 3,,¢					

	CALC	ULATION	FOR	ALTERNAT	LIVE	ROUT	ING	NETHORK	RANGKO. -	K , TH	.IL4.N	IJ
	FROM	1 = 21	. IN	sus =	6000	s sy	/STEM	C 400	TAN	ULM AR	: 7 =	2
J	NAME	CIJ	C/P	AIJ	V/F	PQ	NIJ	FIJ	OFL	VAŘ	ROUT	11
1	TK	14342	0.40	1.24	-	-	· -	1.0000	1.24	1.24		7
2/1	. SR-1-	10976	00 00	- 5c49 -		· ·			5c 49 -		• •	7
2/2	SR 2	10976	n ₀ 50	5 ₀ 49	_	_	-	100000	5,49	5:49		7
2/3	sR 3	14976	£ ₀ 50	5 ₀ 49		_	- -	1,00000		5,49		•
3/1	Sh 1	11474	€650	8,79	-	-	. 10	0.1581	1:39	2,85		•
()3/2	s // 2	11464	Ç0 20		- -	- ,	10.	• –		2,85		•
3/3	sw 3	11.4 64	0,50	. 8,79	-	-	10	n _c 1581	1:39	2.85	-	•
				10c43				- 0 ₀ 0685		loól-		
4/2	PL 2	7900	ეი 39	10,43	-	_	14	0.0685	Cc 71	1051		
5	-TH 2	13381 -		9c34 -	. —			0.1351	-1025	2067		
6/1	PY 1	5750	^o58	12063	-	-	13	0 ₀ 1782	2c 25	5004		•
6/2	PY 2	5750	ი, 58	6c 32	-			100,000		6¢32		•
7/1	KK 1	8719	0c44	9c 88	-	- ,	12	Co 1152	1014	2048		•
	KK-2-		· • 44 ·				I 2· ·	-001152-		2646		
8/1	CP 1	11158	Λ°c 33	5c 77	-	_	· -	100000	5c 77	5¢77	•	
8/2	CP 2	11098	0.33	5 ₀ 77	-			London	5 ₀ 77	507%		
5	MT	11649	0.48	රිදු පිර	· -	-	-	100000	6₀ 86	ဝ်ဝဝဝ	•	
1ñ	SP	14464	no 38	1045	•	. -		lennen	- 1c 40	1040		
11	NWW	13362	∿ ₀53	5 ₀ 22	-	-	-	100000	5, 22	5,22	•	
12		- 33496	6.67					1000000-		·- lo40		
13	Din ,	31670	0002	3,13	-		-	1,0000	3c 13	3,13		
- 14	BN -	25914	no 57	5,77	-	-		-lagena	·- 5:77	5°77		
15	ВK	8361	0 +39	5, 22	-	-	-	100000	5c 22	5022		
્રા 16	BC -	24576	მი 65	2 ₀ 80	_			1°8640-	2 _c 83	2,80		
17	DΚ	25468	್ಕಿ ಕ೮	3,73	-	-	-	1,00000	3 ₂ 73	, 3n73		
18	Bs .	8258	0 - 44	9006 -	 .		11 -	- 051233-	- 1:12-	· 2036	18 -	-
19	BP	11037	0 ₀ 50	7 ₀ .91	-	-	-	100000	7c 91	7091		
. 20	KC	12567	ಗ್ಕಿ 31	10098	-	- .	. 15	- 0e0583	00 64	1047	20	
21	ĪΝ	r	-	13 ₀ 84		-	25	0.00000	-	-	21	
22	ΡS	31600	0.38	2.88	-	- :	-	1.0000	2.88	-2 - 8ರ		
23	SMP	40074	0.39	2.88	_	-	_	1.0000	ខ.មួន	2.38		
24	RS	84260	0.70	0.83		-		. 1. 0000	ሳ. የ3	0.83		-
25	всн	36618	0.40	1.10	_	-	-	1.0000	1.1¢	1.16		
28	NΚ	84260	no 74	0c 37	-	, -		-1°9000	Cc 37	0.37	•	
30	PSR	30708	Oc 67	5e o	-	-	_	100000	Pc 93	0.93		
31	LP 2	71 32	Co 31	4012 -				1 ₀ 0056.		- 4012		
33	LS	14286	0° 37	2,09	-	-		1 0 0 0 0 0		2,09		
35		81.56	೦₀ 33.				-	100000	- 406)	4cól		-
Эć	RID	26896	විදු රට	1,010	-	-	-	1,00000		1010		
37	ASD	6620	75 ون	5 ₀ 22 .	.=	-	:	100000		- 5,22		
41	CHW	14280	Ωo 41	2,33	-	-	-	100000		2033		
	LP 1	5698	60 29	6 ₀ 32		!	16	_ 0 ₀ 0535.		. 0,65	42	
~, 43	TC	13240	$P_0 = 39$	2₀€6	-	_	-	1,00000	2c 06	2,06		
		8770 .	. Oo 43	•• - •			-	100066.		4094	**	-
45	PKN	13179	რი 34	2068	-	-	-	1,00000	2, 85	2088		
50	SS	8754	2044	•	• -	- -	-	1 0 0 0 0 0 -				
51	NN	12934	್≎ 53	5c1₹	-	-	-	100000		13 ه		
. 52	PIN	90660	no 74	ი 83	-		- -	.100000	Oc 83 .	9°83		
រដ្ឋា	TGLL	n	-	12 ₀ 00 "		***	. 23	0,000,10		_	101	
11	S PS	ន .	-	. პ _ი ბი .			7-	00 01 00 .			111	
. 72		7420		139 ₀ 32	1,11	•	174	000010				
	тст	AL		270000			371	•	•	•		
					•			· -	-			

}	CAL	CULATION	FGR	ALTERNAT	rive :	ROU:	TING	NETWORK	BANGKOK	, TH	A I LAN	D	•
	FPOM	I = 22	Ps	su8 =	500 0		SYSTEM	C 400	GNAT	EM ARE	 EA =	 6	. •
	NAME	CIJ	C/P	AIJ	۳	MQ	NIJ	·EIJ	OFL	VAR	ROUT	 TNG	-
1	TK	336 <i>C</i> 7	0.64	2.47	_	_		1.0000	2.47	2.47		. T6	
		32604						-1 c 0000		6004		. 16 - T6 -	
2/2	SR 2	32664	Cc 64	6,04	-	_	-	100000	6 _c 04	6cQ4		T6	
2/3	SR 3	32604	Po 04	60 64	.		,	150506		6004		T 6	
3/1	Sh 1	3693%	5,63	10.43	_	_	10	0.2342	2:44	4c93	3/1	Т6	
	Sh 2	30931	6063	10043	-		- 10				3/2		
(3/3	SW 3	30931	0,63	10043		_	าก	0,2342	2c 44	4093		T6	
	PL 1	25579 -	Co 72.		-			aooo		9088		-·T6	٠.
4/2	PL 2	25579	0 ₀ 72	9c 88	-	_	-	10000004	9088	9088		T6	
	TH 2	36952	£0 05	4094 -	. .	- .	-	100000	4694	4094	-	Т6	-
6/1	PY 1	32269	0 ₀ 64	7 ₀ 58	-	-	-	1 0 0 6 0 0	7° 63	7.68		T6	
6/2	PY 2	32269	0 • 54	. 3084	_		 .	- 1 ₀ 0/000.	3c 84	3084		Т6	
7/.1	KK 1	30262	იი ბპ	6 ₀ 59	-	-	-	100000	6 ₀ 5 9	0659		T6	
7/2	_KK -2	30262.	.0.63.	6ი59 -	,	 .		. 1000ቦሮ	6: 59	0.59	* -	Т6	
8/1	CP 1	12738	2041	11c 25	-	-	14	०,०१८५	1e 05	2040		T6	
. 8/2	CE S	12138	0.41	. 11,25,	-	_	- 14	0.6929	1c @5	2040	৪/2	T6	
9	TM	27140	· 74	6,04	-	-	-	100000	6c 94	6004		Т6	
10	s P	32269	Ö•64	Po 65	_	-		1.00006	0 ₀ 65	0.66		T6	
13	NKX	78469	^o 78	ಿ. 82	-	-	-	160000	Ac 82	0.82		Т6	
12	- PC	85,660	0.78	0074	,			- 100006	- 0e 74	0074	-	Tô	-
13	אם	108460	C • 77	1c07	-	- ,	-	100000	1e 07	1047		Т6	
14	BN	6671	ۥ22	18,83	-		26	000241	°c 45	1 c 24	1.4	Т6	
15	ΒK	40743	6.66	2c 74	_	· -	· -	160600	2c 74	2074		T6	
. 16	8 C	40632	9.66	1c48 .	_		- .	100550	1e 48	1048		T6	
~ 17	DK	41524	Go 66	1c98		-	_	1,0000	1c 98	1.98		Τō	
212	_BS_	.37753 .	4.65	5c49	-	. –		Logges		5049		76	
19	8.5	35543	მი 65	3 ₀ 29	-	-	_	100000	3c 29	3029		Т6	
20	КC	32715	C+64	4039.	_	-	-	100000		4039		T6	
21	I	31600	0.63	3¢ 29	_	_	- `	<u>1</u> 60000	3c 29	3,29		Т6	
22	PS	•	-	13,45	-		.24	0,00000		_	22	_	
23	s∦₽	7951	C.15	9.41	-	_	16-	0.0150	0.14	0.29		Т6	
24	.RS	133260	0.77-	0.29		-		. 1.0000	~. C. 29 .	0.29		T 6	
25	в'сн	87860	0.78	0.44	-			1.0000	0.44	(. 44		T6	
. 28 -	NK	113060	Çe 77	. 00 20		. 🗕		100000		0.20		Т6	
30	PSR	86667	0°78	0.49	_	-	_	100000	ne 49	0049		T 6	
31	LP 2	31377	Co 63	1c65	_	-		latinen.	1c 05	1:65		T6	
33	ĻS	86467	₽c 78	1,10		_	-	1 c anno	1:10	1010		T6	
35	HM	14286		9 ₀ QD			11	401208 -		2,30	35.	T6	,
. 36	BID	40966	0.66	0c44	-	-	_	1,000	0044	0044		T6	
. 37	ASO	28357	0.076	4094	-	– ,	. <u></u> .	100000	4094	4094		T6	
41	Ch?	41412	Po 66	1024	-	-	<u>-</u>	1,0000	1c24	1024		T6	
42 .	LP 1	35168	Qo 64	3 ₀ 84	-	 .	_	nedest	3 ₀ 34	3084		Т6	
43	ŦĊ	30931	მი 63	40,12		-		100000	4:12	4012		T 6	
	_PTW	28924	0563-		:	-	. –	. 1 <mark>0</mark> 0000		3.29		T 6	
45.	PKN	10058	0 ₀ 45	5 _e 63	· <u>-</u>	-	- ',	1,0000	5e 63	5.63		T6	
. 50	SS	34388	90 64	2074	-	_	~ ``	100000	2074	2074		T 5	
. 51	NR	77060	0.78	2649	_	_	_	1,geens	00 49	Co49		T6	
	PTN	134660	2077	0.13.			_	1 9 0 0 0 0	0013	0e13		Т6	
ູ່ກຸ່າ	TCLL	٨	-	10,000	-	-	. 20	000010	· -	_	101	. •	
سأز فأنشب	"ŠFS»	٠, ٠, ٠, ٠		2 <mark>.</mark> 50		-		00100	-		111		
7-6-T6		16657	•	144011	1,69		179	0.0010			-		
	14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						ĭ		•				

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	CALCI	JLAT ION	FOR	ALTERNA	TIVE	RGUTING	NETWCRK	BANGKOK	. , TH4	ILAND	
	FRUM	I = 83	. SMP	suB =	5000	SYSTEM	AKF		EM ARE	A = 6	
J	NAME	CIJ	C/P	AIJ	V/ P	LIN OM	EIJ	OFL ,	VAR	ROJTIN	lG
1 .	IK .	72260	0.86	2.21		- , , -	1.0000	2.21	2.21	γ	o
~-2/1~-				5 ₀ 40 .	· ·		~ 100000-		-5040	T	ő
2/2 -2/3 -	SR 2 . SR 3 .	41078 41078 -	0 - 50 0 - 50	5 ₀ 40 5 ₀ 40	_		- 1 ₀ 0000 (- 1 ₀ 0000 (5 6 4 0		ő
3/1	Sh 1	3 94 75	no 49	90 33		- 11	0.1340	1025	-5040- 2066		6
3/2	sh 2	39475		9e33	2	~4			-2006	3/2 T	٦ 6
3/3	S% 3	3 94 05	0049	9° 33	`	- 11	0,1346	1 c 2 ô	2°66.		5
4/1				8c 84		10-	G _o 1605		-2091	4/1 - T	6
4/2 5	PL 2	34553	Ω ₀ 51	8084 .	-	- 10	001605	1:42	2691	· · · · · · · · · · · · · · · · · · ·	6
5 6/1	TH 2 PY 1	78260 40743	ი _ი გგ ი _ი 49	4 ₀ 42 6 ₂ 88		-	1 0000		4042		6
6/2		40743	0,49	•	. -	= =	100000 - 100000 -		6°88 3°44-		ő
7/1	KK 1	38736	0049	5,89	_		1,0000	5c 89	5089		6
7/2		38736	0.49	5 ₀ 89				5a 89 · -		•	ô
8/1	-	27252	Ç _C 4 4	10007	_	- , 12	0.1224	1c23	2.70		6
8/2		27252 .		- 1กิดกิว	} -	12	0.1224	ຳ 1 ຫຼວວ	·2c70	8/2 T	ō
9 10		35614 40743	0.52	5.40	- -	- -	100000	5 ₅ 4 ()	5040	* T	Ó
11		93660	₽₀49 . ₽•71	0ი59 იი74	. <u>-</u>	<u>-</u>	- 1 ₀ 5666 -	=	· 6.59	<u>T</u>	
12		93000 93869 -		, 100 /4 0c 66	· -		10000C	Pa 74 Pa 66	Co74	T (
13		17660	10.72	no 96	, · _		. 100000-	no 96	- 0000 - - 096	T.	
14		11832		15085	• 🕳	- 24	0.0221-		0c 97	••	
15		85969	0091	2046			106000	2c 46	2:46	T i	
16.		84860	0.91.	1033	<u></u>	.''	1,000000	1033 -	-1,33	Ŧ	
17	-	86460	Go 91	1077	_		160000	1c 77	,1077	T	6
18 19		79660. 75660		4 ₀ 91		. — , . —		4 ₀ 91			
20		41189	0 ₀ 87 0 • 50	2 ₀ 95 - 3 ₀ 93	_		1,0000	2c 95	2095	Τ.	
21		40074	0.49	2095	_		itanaras Itanaras	. •		· T	
22	PS	7951	Co 12 -		.! = .	- · 15	no0129	2 ₀ 95	2 ₀ 95 C ₀ 22-	T 22 T	
23	SMP	n	-	12003	_ `	- , 22	0.0020			23	٥
24 .	-RS I	48460	.0.72	- 0.26		. –	-1.00ph L		-		5 ·
25		030E0	0.71	n.39	- , '- ·	'	1.0000	0.39	0.39	Ť	6
28		28260	0072	9 ₀ 18	- . ·		100000	- 0o18 -	0o18	Te	6
30		95860	0 ₀ 71	Co 44.	-	- · -	100000			T	6
31 33		39851 91669	იი 49 იი 71	1,47	_ —		1,00000				6
.35				ቅ _፡ 98 8 _፡ ሳ5	_	- 10	1 ₀ 0000 0 ₀ 1239 -		0.58	T (
36			Co 91	0 ₀ 39				1000 1000		35 ···· · T (_
37		36841		4042	-	, <u>_</u> .	100000				
41		86260	00 91	1011	-		100000	1:11	1011	ፕሮ	
		75060	0087 .	3c44 ·	- .			- 3c44 '		T	
43		39445	0049	3₀68	_		1,0000	ში ბმ	პა68	Τć	
				20 95	··· -	. 	1 o 6 0 0 0 0			To	٥-
45 50		14769 73660	0 ₀ 27	5 ₀ 43			1,00000	5003	5.03	Té	
51			0 ₀ 86	2,46	-	- - .	1,00000.			T(
51 52	PTN 1		0071 0072	ი _ი 44 ი _ი 12.	_		1 ₀ 9000 1 ₀ 0000	C= 44		Υ (
181	TOLL	Ú + aocn	<u> </u>	100,000	- .	- 2n	- 1000010 - 1000010	ე ₆ 12 -	-0o12-	To	Ö
				2 ₀ 5£		_	-0000100			_	
Т6		40530			1011		0.0010				÷
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ر			CAL	CULATION	FOR	ALTERNA	TIVE	ROUT	ING	NETHORK	BANGKUR	, TH:	LILAN)
-			**********				**	, 			*********			
3			FROM	I = 24	`RS	su8 =	800) 5	YSTEM	C 400	TQNί	EM ARI	<u>:</u> Δ = 2	2
,	****						•							•
		J	NAME	CIJ	C/P	AIJ	4/V	MQ	ΝIJ	EIJ	CFL	V#R	ROUT	ING
ز	-	1	ΤK	110860	 ∩.80								• •	
,		· 2/1 -		986£0		0.13		, _ `	·		0.13	0.13		T2
		2/2	SR 2	98660	Qo 79	0 ₀ 62	· · · · · · · · · · · · · · · · · · ·	_		1 ₀		26°0 -		-T2
		2/3	SR 3			9062 ·	·-		<u>-</u> `.	1 ₀ 0000		0.62		T2 -
		3/1	Sh 1		0081	0.62	_		, -	1,00000	0- 65	0 ₀ 52		TZ
		3/2		101260 -		. ne 62 .	. – .		-	1,0000				T2
ز	(3/3	SW 3	101260	00 81	0.62	_	-	_	100000	00 62	0,62		T2
-						ዕራ 80 -				ilogana L	0 ₀ 80	~\$c80	, , ,	-T2 -
_		4/2	br s	94664	9077	ലം ഒര	-	-		1,0000	୯୦ ୫ଡ	0680		T2
7		. 5 -	TH 2	106200		Po 59 ·	· - - -	-	- `-	100000-		0.59		T2 -
		6/1	PY J	82660	9o 74	0 c 89	-	-	-	100000	0° 89	0.89		T2
.7		6/2 7/1	PY 2 KK 1	82669 94260	0.74					1 ₀ 0000	0° 45	0.45		T2 -
			. KK-2		0 ₀ 77	ი. 89 ი. 89	-	-	-	1.0000	ne 89	fra 89		T2
•		8/1	CP 1	106860	0079	0 59 0 59				-1 ₀ 0700 1 ₀ 0700	0° 89 0° 89	১, 59		T2 ···
3		8/2	CP 2	106869_		-		_ 	· —	120000	Po 59	0.59		T2
		9	אד	194469	0.82	0.48	- -			100000	- 009 - 0048	Vo48		T2
;	•	12	SP	113669	0.81.			- .	- ,	1,00000	0010	0010		T2
ت		11	NWW	. 81865	0.64	. 0031	· _	_	_	100000	0e 31	t n 31		T2
l		12	. PD	128860	û • 85	Co 08	-	. .		្សាក់ស្មាន		0,08		T2
١.		13	DΝ	か34.85	0.09	4064	` -	-	-	100000	4064	4c54		T2
7		14	BN	123060	O•83	ಂ 33	-	- .		100000	00 33	Q ₀ 33		T2 -
1		15	BK	39405	೧∙32	Co 74	-	-	-	100000	0o 74	5074		T2
4		16	R.C	112860	9.80.	- 0° 53	. -	-	-	locere .	-	0023		TZ
1	1	1.7	ÜΚ	114467	0 - 81	%31	-	-	_	100000	Po 31	0.31		T2
	` .	. 18	ដូន		-0a 74	-		—	—	. 1,5000	=	0.89	•	T2
		19 20	BP KC	98850 91260	7•79 1•64	0 ₀ 69	· -	-	_	1,0000	მ _ი 69	0.69		T2
1		21	I.M	84260	0° 2€	. 0 ₀ 50 0 ₀ 41		_	_	1,0000 1,0000	Po 50	0 o 5 (v		T2
		52·	PS	133260	0.72	- 0e16	·	_	_	1 ₀ 7000 -	0c41 0c16	0041 6016		T2 T2
3		23	S.M.P	148460	0.72	0016	_		_	100000	Co 16	0010		T2
İ			-RS	3		1,77			6	0°0050 =			2 4 .	•
I,		25	всн	94060	0.49	0.05	_	-	_	1.0000	0.05	0.65	_	T 2
ž,		28	NK	156260	00.72			_		1,0000	0503	0.03		T2
!		30	PSR	123860	€8 o∩	0008	-		-	1,00000	CC UB	0008		T2
1		31	LP 2	89861	0072		-		. -	100000	0c19	6019		Τ2
ر		33	LS	30151	0 ₀ 21	₽° 30	-	-	_	1 0 0 0 0 0 0	00 30	0030		T2
-	٠	35		100860			: - .			1,00000	n ₂ 48	640	•	T2
1		36	RID	76460	0.52	<u>იგინ</u>	-	~	-	100000	0005	0.05		T 2
100		37	ASD	89560		0,40	_	-	-	1-0000	ne 40	0.40		T2
		41	CHW	109460	20.79	0 ₀ 15	_	. - -	-	1 ₀ 0000	0:15	Cc 15		T2
;1		42 43	LF I TC	77860	Ωσ 64 ·	0 ₀ 45	-	- .		109000 100000	0: 45 0: 22	0.45		T2
i	سر	.44	PTW	107269 95660	რი79 0ი78	0° 42°	_		_	199066 199066	ი _c 22 ნ ₆ 45	0°22 0°45		T2
	(.	45	₽KN 	413669	0070 -	00 45 . 00 30		· -··		1 ₀ 0000	% 45 % 30	0°30		T2 T2
t		50	ss :		0076			·		1,0000	re 45	0:45		T2
		51	NN	92660	no 73	0c19	-	_	-	1 accer	Cc 19	Co19		T2 ·
1	• .	. 52	PTN	11894	0 ₀ 05	₩. 10.00	<u>.</u>	-		100000	กปูดร	0.05		T2
,		្រាក	TOLL	Ġ	_	1,60		-	7 7	חסטחור	-	-	tot	_
		I . I	SFS	محرها للواسية		Co 40 .			2.	. 000100 -	<u></u>	-	111	
Š	ে • বুলু	Ţ2 🐧		. 84330		24 _e 21	- 1		40	$v^{a}v_{a}v_{b}$				
1	****									•				•
ą.				IAE	. ••	276 98	•		55	•				
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8.7			and or great		J. 35				-	•				
-														

ز		CAL	CUL	eTION	FGS	ALTERN	ATIVE	RCU	TING	NETWORK	Barlekt	JK , TH4	1 LAND
 >	***************************************	FROM	I	= 25	всн	SUR	= 87	จ	SYSTEM	G 400		NUZM ARE	
	J	NAME	• (ΠJ	C/P	LIA	۷/٧	MQ	, LIN	FIJ	OF L	VAR	ROUTING
ָר י פ	1	τĸ		9060	0.81	0.10	-		·	1.0000	0.10	0.15	Т2
,		SR - 1		860	Po 81 -	- Co 54				~1 o 0 0 0 0 0	- no 54	-0°54	
٠.	2/2	SR 2	76	867	0o81	۰ ₀ 54	_	-		1,0000	0c 54	Co54	T2
<i>)</i> .	2/3	· SR 3	- 76	6886	110 81	0 ₀ 54	_	-		logner	- 0c54	₽°224	•
•	3/1	Sh 1	79	1460	ი _ი 82	no 86		-		1,0000	9c 85	0°86	···- T2
	3/2	Sh 2	79	9460 .	Oo 82	ი 86		_	- .	1,0000	ಗ್ವಿ ಚಿತ್ರ		T2
9	3/3	Sh 3	79	7467	0082	0.86		_	_	1,00000	^ ₃ 85	\$86°	T2
	4/1 .	-PL 1	72	C60 .		1,62		-	-	1,0000	- 1e \$2	0086	TZ
	4/2	PL 2	72	960	00.77	1002	_	_	-	100000		1.02	
Þ	5	TH 2	- 84	460	00 86	n ₀ 91		_	_	00000	1:02	1.02	T2
	6/1	PY 1		726	9043	1 0 24		_		100000	. °291	Go 91	T2
	6/2	PY 2		726	0 ₀ 43	0e 62		_	_		1c 24	1.24	12
-	7/1	KK 1		460	0.77	9097		_		100,000	€e 62	0.62	T2
	7/2-				0.77	0097	_	_	_	100000	nc 97	9° 97	T2
	8/1	CP 1		621	no 35	1002			- - -	-1 ₀ 0000-	* *	-0097	T2 -
}	8/2	CP 2		621	0.35	1002	_	_	-	1,0000	1002	1:02	T2
	9	TM		265	0.81			_	- ,	1,0000	· 1c 02	1:02	12
	10	SP		460	Co 79	9,54	_	-	-	1,60000	No 54	(°o54	T2
)	11	NWW		2 80		. 0,14	· - ·	_		1,00000	- Op 14	-(a14	72
	- 12				0.36	0° 21	_	_	-	160000	Pc 51	0.51	TZ
	13	PD DM		764		0014	- _			1,00000.		0014 -	- r2·
)	14	81/			0.030	Q ₀ 31	-	- '	_	1,00000	0 31	1500	. T2
	15			660	Pa 65 .	9 ₀ 57	_	-	~	100000	0ა57	Cc57	T2 -
		8K		252	Po 29	€0° 21	_	_	-	100000	Pa 51	Ve51	T2
,	16 17	BC -		ଦ୍ରପ୍ର ଅନ୍ୟୁ	00 82 .	0, 27			. - .	100000	€ 527	27 ه	T2
		DK		669	0ი 82	√ 0° 32	-	-	· –	100000	0o 37	·0°37	12
	18.		39		Po 43		-	. 	, — ,	109100 .	- ,`೧೯ ೪೦	• ১৯১১	
;	19	ЯP		960	0.81	Po 65	-	-	-	1,00000	05 65	0005	T2
	20	KC		974	0-12	- 1027		-	-	1,00000	1:27	1:27	T2
	21	IM		618	0 ₀ 40	Ω ₀ 81	-	-	-	1,00000	00 B1	0.81	T2
1	22	PS		869	მი 56	Çc 28	· -	- .		1,00000	ೌ 2.5	0.28	T2
	23	SMP	1/3		Po 58	0° 58	-	-	-	$1_0 \Omega \Omega \Omega \Omega$	೦೬ 28	0.28	T2
	24	RS	- 94		0.49			~ -	- -	-1 0 0 0 0 0 0	ჩე(ეკ.	-ნისის-	T2 ·
ı	25	BCH		G	-	0018	_	-	2	6,0020	_		25 .
	28	NK			0.72	0.04	, -	_		1.0000-	0.04	0.04	T2
	30	PSR	142		ტ _ი 85	$n_0 n_0$		-		160000	0009	Doug	T2
	31	LP 2	30	931	0032	- 0047		_	. - .,	locoes .		Dc47	
	33	l, S			₽o 25	60.56	-	_	-	1,00000.	0.20	0.20	T2
	35 .	HM.	33	719	Co 34	0 ₀ 82	- ,		·	- 150000 L	0.82.	- 0:82	
	36	RID	8	566	0007	0.13	_ '	_		100600	0013	0:13	T2
-	37	ASD	- 39	628	0043 .	. Co51		. – .	*	100000 -		-0c51	
	41	CHW	87	660	მი 81	n ₀ 23	-	-	- <u>-</u>	1,0000	ე 23	0.23	T2
	42	LP 1	33	<u> </u>	ი _ი 35 .		- .	\		1,0000	0.62		T2
	43	TC	85	460	0e 80	0017	_	_	_	1000000		0.62	· T2
	44	- PTW	- 73		₽o78	- Qc48-				.)		0.17	T2
l I	45	PKN			Co 36	0.51	_	_	_	1.00000	0° 48 0° 51	0 ₀ 48	~ T2.~
	50	SS			Do 44			_	. ***	100000		0.51	T2
,	51	NN			0o42	0.31	-			100000 -		0044	T2
	52		1162		მი59 .	82.0				1,0000	0°31	, 0°031	. T2
	101	TOLL		ę.	-	1,60			7	000010		0.08	T2
	111			Ġ.		∩ _e 40				.00010 .00010	-		0.1
	T2		625	953	~	25c81	. –			νουτου Φοθητο	 -		1.
		TOT	ΑI										
		101	٠. ٤			27099			53				

)) . 		CALC	CULATION	FOR	ALTERNA	TIVE	ROUT	ING	NETWORK	BANGKOK	, TH	4 I LAN	ט
))		FROM	I = 28	NK	SUB =	800	: S	YSTEM	C 400	TAND	EM AR	£4 =	5
		J	NAME	CIJ	C/P	AIJ	ANK	หฉ	NIJ	EIJ	OFL	VAR	ROUT	ING
	;3	1	τĸ	80660	00.81	0.12	_		, - "	160000	0°12	0.12		75
						0° 60 -			<u>.</u>	1 o 0 0 0 0 0	- ი _ი ცგ	- 0 ₀ 66	- 4	- T5
1		2/2	SR 2	37064	Co 45	•	-	-	-	1,0000	9 ₀ 65	[€] 066		T5
į.	<i>/</i>	- 2/3	SR 3	37464	მი 45.				. .	-1 ₀ 6006	n₂ 66 ∞	€066		- T5
l		3/1	Sh 1	41412	Ço48	, 0.74		-	_	1,00000	₽e 74	0c74		T5
i		. 3/2		. 41412		Oo 74	-	. -	-	1,0000 -	Oc 74	0.74	-	T5 ¹
į	7 (C)	3/3	sk 3	41412	0 ₀ 48	2074	-	-	-	1,000,00	0° 74	0.74		T5
-	·*					a,56 -				.100000.	- 0e55 -	0056		-T5-
- !	-	4/2	PL 2	74460	Çი 85	₽° 26	-	-	-	10 የርዕር	0.55	0.56		T5
1	. .		.TH 2	31935		3 _e 54	-	, .,		100000	3e 54	3 ₀ 54		T5-
1		6/1	PY 1	77660	ºc 87	° 96 56	_	- ,		$1^{a}v$ var $^{\circ}$	0055	მინბ		15
I,	~	. 6/2	PY.2.		Фo 87				-	. 1°00000	0 ₀ 28	Ç _o 28	٠.,	75
ì	-	7/1	KK 1	38625	0.46	೯, 68	-	-		100000	೧೨ 68	0.68		Т5
1						Po 68	··		- · · ·) ^മ മദരം	- ი _ი ცგ			T5-
Ţ	,	8/1	CP 1	86660	no 83 °	Qo 56	_	-	-	100000	^₃ 56	Vc 56		T5 :
į	·			86660		- ჩინნ			·	100000	≏ა 56	Øe56		T5
		9	TM	78060	00.87	9° 21	-	-	-	100000	₹6 31	9,31		T5 '
1	*	10	SP	85867	იი 83	<u>6</u> 049.	- - .		· -	. Totabor	0° €3	Co09		T5
1	u.	11	N/M	972.60	Po 87	0 o 26	_	-	_	100000	ია 26	Qo26		T5
į	- **	_12 _	₽D			0, 22				-1,0600 -	~ 0°22	0,22		· T5
į	3	13	DM	125467	0+72	0.15	-		_	T° $\hat{0}$ $uv_{0}\theta$	°₂15	ປິດ15		τ5
į	•	14	BN	102860		- Co 31	· -	~ -		100000	°c 31	0 c 31		T 5
1		15	ВK	92867	0 • 86	0e 26		-	-	100000	೧= ೭೧	0°26		T5
i	-9	16	ВС	28255	Co 34	- 1021				150000	Je 21	1,21		T5 ·
ì	<i>-</i>	17	DK	365 16	00.44	0° 28	-	-	-	100000	∂ ₂ 59	t ₀ 59		T 5
1	X -	- 18	. BS			0 ₀ 51 -	-	~ -	-	– 1°00000 –	=			T 5
1	.•	19	вр	72669	Ço 83	Ac 59	-		-	100000	n ₅ 59	9 _e 59		Т5
Ì	_	20	KC	110060		-	-		 .	. 100000 .	Oc 41	0.41		T5
1		21'	N,I	84260	00 88	Co 31	-		_	100000	00 31	υ ₀ 31		15
i	,	22	PS	113060 10060	(to 71	Ç ₀ 15	. –		- .	100000	0015	Cc 15		T 5
- 1	•	23	S.MP	128260	9 - 72	0:15	-	-	- ,	1,00000	0.15	0.15		15
i	- ~ •	24 25	RS RCH	.156260 - .134469		•				. 1000to		(·c94		Τ5
1	,	23 28 .	NK	Ú.	0.72	0 ₆ 04 0 ₆ 23	-		- ~	10000C	0 6 € 4	C094		T5 '
1	•	20 . 30	PSR				, -		, 2	0,0000			28	
ĺ		. 31		14280 96260	C 16	Ი.40 0.15	<u> </u>		_	1.0000	0.40	(.40		T 5
	,	33	LF /	109460	↑•71	0.10			· _	1.0000	0.15	0.15		T 5
			HM			.i Co 44			_		0.10 0.44	0.10		T 5
1		36		116860	0.71					1 ₀ 0000.	Ր _Ե 4 4 Դ _Ե () 4	0.44		T 5
	2	. 37	ASD	78269	Cc 80 .	_	· <u>-</u>	_	_	100000 -		0.04		T5
. i		41	CHW	37064	Qo 45	- 0,89 - 0,89	- ,	_ `		1,0000	. √°83 . γ°23	0.28		T5
:			LP 1	88869		0628	_			100000	0258	0.89		T5
	,	43	TC	77: 60	Co 86	0.21	· 🛥	,		100000	0°21	0e28 Ue21		T5 T5
ì			PTW	.46743 -			.	-	-	~_100000 10000	Po 34 -			15 T5
1	· * .	45	PKN	93460	00 86	• -		-	- · · · · ·	1,0000	7:28	0028		15
1)		SS			. 0,26	_	_	, - .	100000	0026	0020		T5
Ť	-	51	NN.		Co 85	0015	_	_	-	1 ₀ chom	Çc 15	0:15		75
					Co 72	Cc 04	_	_	_		9004	0604		T5
:) 📑		TCLL	7	_	1,01	-		7 `	በ _ር በ	-		101	
	يواخ ملاحج جور دان	-1			*****	6,40	, · - , ,	, 	ż	0,0100 -		_	111	
	~	ុ វិន 🐼		55734		21,76	_		37	0.0010	•		-	
ڙ ء ند) : <u></u>			1. The state of th				•		-				
- 3	و سر سرای کار	5 21 32 °	TÜT	'AL' + 1 "		<u></u>	••		48					
Ŧį					ي ' سهر بري جمفيحة وس خ	ا فعريم مکي	, .	, .					•	
' .'	3 - 2					1 T								

		CALC	LATION	FOR A	LYCENAT	3VI	CUT	ING N	LETW CRK	BANGKU	K , The	LLANE)
• •	•	FROM	I = 30	PSR	sun =	2600	S`	YSTEM	0 400	T N	DEH AKS	Eq. = 5	5
•	J	SMAN	CIJ -	CZP	AIJ	۷.۷٧ ·	04	NIJ	EIJ	OFL	VAR.	ROUTI	ING
	ī	тк	28761	Pc 63	∯o 36	-	_	<u>-</u>	100000	^o 36	じっぱら		T 5
	2/i	SR 1	12261	2042	1994 -				-100000 ~				T 5
_	2/2	SR 2	12261	0,42	1094	_	_		1 annna	16 94	1:94		T 5
,	2/3	SR 3	12261	0,42	1094				leache.	1094	1594		T5
	3/1	SW 1	14648	Ftg 44	2c18 .	_		-	1onnto	2010	2018		75
, ~	3/2	Sh 2	14648		2c18 -			- .	1 corer	- 2010	2:18		T5
, ,	3/3	Sh 3	14648	no 44	2018	_	_	-	1,0000	2c 1 d	2:18		TS
	4/1	PL 1	25245	.c, 73		•	-	,	lorcon .	_	1563		T5
	4/2	PL 2	25245	0.73	1,63	-	_	-	100000	1063	1003		T5
•	5	TH 2	8566	0241	19,41	_	- -	13 -	0.0980	1:02	2028	5	T 5
	ć/1	PY 1	27029	0c76	1,63	_	_		150000	1:63	1:63		T5
	6/2	PY 2	27029	r.76 .	Cc 82				100000	∙°ა მ2	Vc 62		T5
	7/1	KK 1	13118	0.42	2065	_	_	_	100000	2000			T5
	-7/2		13118	0.42 :-		,	-		100000	2a (5	- 2000		T5
	8/1	ĆF 1	32046	Ca 64	1063	_	-	-	10 ecer	1563	1,63		T5
	8/2	CP 2	32746	n + 64	- 1.63	-	-		100000	1c 53	1563		T 5
	Ģ .	TK	27252	ში 76	00 91	-		-	10000c	1,0 A)	0091	•	Т5
	10	SP	31600 -	C+63	0.27	- . ,			16:000	n=27	0 - 27		T5
	11	NWW	37956	0.65	0e76	-		_	100000	. 0:76	1.5/6	•	T5
	12	PD	26471 -		- 0065		-		150000	ດ _{ວ ປ} ຸລັ	- to 65		T 5
	13	OM	93060	C • 77	0,45	-	-	-	1,0000	10 45°	Uo 45		T5
	14	BN	41978	0 • 45	0091 .	. –			100000	00 91	Cc 91	•	T 5
	15	вк	355/3	0c 65	No 76	-	-	-	1,00000	na 75	₩07ú		T 5
	16	BC.	6876	ۥ24	30 56	-		. - -	100000	3° 5°	J0 56		T 5
•	17	DΚ	11955	Do 41	1074	-	- ,	-	100000	1c 74	. 1:74		75
	18	BS	30151	6•63	1051			-	1000000	1551	··· 1o51		T 5
	19	BP	24241	Q•72	1074	-	-	-	160000	1c 74	1074		15
	53	KC	77660	€ • 77	1,21	- -		-	1_{\circ} ecco	lc 21	1c21		· T 5
	21	IR	30708	0.53	Ro 91	_	-	-	1,00000	მა 91	0c91		T 5
		·PS	80669	9,77	.Ç₀ 45	-	-	- .	100000	0 ₃ 45	-1.c45		T 5
	23	942	95860	¢ • 77	n _o 45	-	-	-	100000	^o 45	Vo 45		15
	24 -		123860 -	0.76	No 12				1,00000		0012		75
	25		192060	Ço 77	Co 12	-	-		1,50000	° 0c 12	0.12		T 5
	28	NK	14286	0-15	0 ₀ 47	<u>.</u>	_		100000	00 47	Oo 47		¥5
	34	PSK	n		1070	··· -	-		0.0020		-	36	
		LP 2		.0.65	C.45	-	_	-	1.0000	0.45			T 5
	33	LS	77060	0.77	0.30	-	_	-	1.0000	0.20	₩.30		T 5
				- 0a ú4					.1 6 6 6 6 6		1031		T5
	36	RID	84460	0077	Λ ₀ 12		-	-	1 0 0 0 0 0	0012	Co12		T 5
	37	ASD	27363	0.62 .		- .			100000		0.82		T5
	41	CHM	12261	0,42	2000		40	6-	100000	25 50	2060		T5
-	42	LP 1	33273	Ç₀ 64			-		100000	% 82 °			T 5
	43	10	26694	0 ₀ 75	0.61	<u>-</u> .	_	_	1.0000	ិខេច្	5c61		75
	.44		14280		1000	-	-		-1,0550 . 1,0665		_	• •	T5
	45 50	PKN	35837	ტი 65 მი 73	0 ₀ 82 0 ₀ 76	_	_	-	lagnon Tannon	^ _ი გ2 ი _ი 75 -	9 ₅ 82		75
•	50	SS	24687		00 / C 00 45			_	1000000 100000			-	TS
	51	NN DTN 1	34499 '	0076	Ç₀ 45 Ç₀ 12.	-	_	_	100000	0 ₀ 45 0 ₀ 12	0.45		T5
	52 101	PTN 1	121069 0	140 / O	4000	 ·		11	000010- 100000	Vc12 —	C o 1 2	11.1	75
	11,1	SPS	. n - :.	_	4	000100 ···		•	17.1	
•	T5	ara	15542		53,88	1,02		76	000000		-		•
			A		22300	- U W C		, ,				_	
												-	

•		CALC	 1:1 A T T (1)		ALTERNA	miller .	n.c.i.t	~~	ATTUEND	PAHCKISS	*U/	TIZMO
		01 C/U	ULATION	ruk	PLIERNA	1172	RCUT	1 186 1	NCTWCRK	BANGKUK	, 1854 	LILFIND
		FROM	I .= 31	LP	2 SUB =	3000	\$	YSTEM	C 400	TAND	em Are	A = 2
, -	 J	NAME	CIJ	C/P	AIJ	 V/V	MQ	NIJ	EIJ	OFL	VaR	ROUTING
- -	•			- •		÷			1.0000	-	**	
	2/1	TK	29482 -14648 -	0.62	C・45 2。32、.	· -	 - .			ი. 45 - √2₀ 32	0.45	T2 T2
	2/2	SR 2	14648	0.44	2 ₀ 32 '		_	_	1000000	2:32	2032	τ2
	2/3			-	2 ₀ 32 .	· · · · · · = ~ · · ·			.1,00000		2032	T2 -
	3/1	SW 1		070	3070	-	_		1,0000	3072	3°70	· T2
	3/2	Sh 2	24130			-	_ _ . <u>.</u> .		.i _o anca	3, 70	3:70	
	3/3	Sh 3	24130	0.70	3,70	_	_	-	1,0000	3,70	3.70	T 2
``					4040			-	lonene.		4040	
	4/2	PL 2	12322	n_{c} 39	, 40 4¢		-		100000	40 43	4040	. τ2
	5	TH 2 -	.27586 -	0.76	. 3,94.	. –	–	:-	100000	94 د3	3094	T2-
! :	6/1	.FY 1	8822	0041	5,33		- .	_	100000	5ა 33	5033	T2
	6/2	PY.2	. 8822	0 • 41	2066	-	-	- .	100000	2ი ნნ -	2066	- T2 -
	7/1	KK 1	13361	11.42	4017	<u>:</u> -	_		100000	4c 17	4017	· T2
					40 17-				1.30 A C-C-11			
	1 \8	CP 1	1976	Po 24	40 4r			_	100000	4:40	4049	T2
	2/3		16976 -				-		1000000	-	4045	TZ
	9	TM	24576	0069	2, 32	, '	_	-	100000	2c 32	2032.	12
	10 .	SP	29765		Qc 59			. –	1.00000	no 59	Go 59	T2
•	11	NWW	24576	0067	2° 20	· -	_	_	100000	20 20	2025	72
·-	12	PD						··		~ £c 59 ~.		
	13	DM	34722	0c 56	1e32	-	_	_	100000 100000	1c 32	1.32	T2
		BN -	25651	0.45			 -	- .		. 25 43	2043	T2
	15 16	BK BC	10914	0.33	2,20 1,18	_	_	_	icana ictor	2c 20 1c 18	2020 1018	T2 T2
	17	DK DC:	31266 32158	ი და 64 - და 64	1,57	_		, <u> </u>	100000	1c 10 1c 57	1613	T2
	18		11343		3。82 ·	_	_	_	1.000000		3c 82	T2
	19	 	14709	0,44	2078				100000	2:75	2078	T2
:	20	кc	81.65	0.15				10	0°0280	- 0:15	€o28	
ı	21	IM.	7132	Co 24	3,47		_	_	100000	3° 47	3047	T2
ļ	22	PS	31377	۵ ₀ 33	1022	· - "	, – .	_	10 C C C C	1022	1.22	12
₽ 4	23	SMP	39851	ჩი 35	1,22	_	_	_	100000	1022	1.22	T2
i	24	. R.S		-0 • 68 -					_	Ço 35	Vo 35	
	25	в с'н	30931	00.30	° Cc 54	_	_	_	100000	0°54	Co54	· T2
	28	NK	9626ମ .		0.16	-	٠	_	150000	Ac 16	9016	T2
	30	PSR	37398.		93 ەن	_	_	_	104700	As 39	Qc 39	· T2
	31	LF 2	^		. 2° 52	•	-	∖ ġ	0.90050	-	_	31
! !	33	Ls	35872	0.51	68.0	-		-	1.0000	∿• ខិខ	€ 88	T2
••	.35,	HM	8254_	.00 22	3 ₀ 52 .	.· -	- ,	- i.		3و 52	3,52	Т2
	36	ВID	13424	Co 24	0 ₀ 54	-		-	1 ₀ ዓብላር	Cc 54	0.54	T2
	37	ASD	1 07 92	0 ₀ 37	ຸ 2, ຂອ	-		-	100000	50 20	20211	Τ2
ļ	41	CHN	29370	ტი 63	° 98	-		-	100100	ဂ် ၁ ၁ ၁	Cc 98	12
•	42	LP 1	71 32	ეი 23	2e 66		~	-	190000	2c 65	2566	T2
٠.	43	TC	27475	Co 61	Po 75	-	-	_	100000	_°s 75	(c75	T2
('	. 44	PTW			8068				1,00000		8005	T 2
	45	PKN	13056	Λ ₂ 26	2620	` _	-	-	1,00000	2:20	2620	T2
	50 .	SS	12576	Ω ₆ 42	. 1691		-	_	10000 10000	1291	1591	T2
i	51	NN OTA	24353	66 68 0 73	1.32 0.35		_	_			1,32	T2
	52 101	PTN TCLL	97660	0673	. 0°35 6°00	-	- .	14	02000 02000	^c 35 —	0035 -	72 101
	, -	SPS			1 ₀ 50	. - .		· 5	0 0 0 1 0 €	_	_	111
	12.	د اود	160,99		194027	1,00	• •	133	Cacc 11			-
	35 J					* 100						
م يخترين	٠٠٠ , ٢٠	**										

11,90 99

, ,		CALC	LLATION	FOR	ALTERNA	TIVE	ROUT	186	NETWERK	PAJCKO	К , ТН	. 11 - 1	:n
·····		FROM	7 - m	-			- ,			•			•
نز		יוטאה	I = 35	1481	SUB =	8000) 5	YSTFM	ር ፋሳሳ	Tiny	JUH AK	£4 =	င်
	J	Neme	CIA	CZP	VIA	V.V	PQ	LIA	SIJ	ne L	Va R	ROUT	ING
ĺ	1	TK	14342	მი 33	2012	- '	-	-	160000	2512	2012		Τó
} ~ -	2/1		12444		14085	···			-0 ₀ 6436	· 0064	1,53	2/1	Τó
ج`	2/2 2/3	SR 2	12444	6036	14c 85	-	_	20	रेष् _व ६ ४ ३६	No 64	1:63	2/2	Τó
	3/1	SR 3	12444	Fe 30	14085	, - .		· 5v. ·	<i>0</i>	0:6÷	1:63		T 6
	-	SW 1	11526	ი _{ი 29}	11014	-	· -	. 16	000416	£0 45	1¢Ĉō		Tό
) (· · ·	3/2 3/3		11526	n ₀ 29	11014		 -	- 16	000416	Pc 45	1096		Tô
1	4/1	5 % 3 - FL 1-	11526 7849	0° 59	11014	, -	-	16	£60416	0045	1206	3/3	Τó
1	4/2	PL 2	7849 7849	- 0 ₀ 30 .	-	;		- 19	AgA397	- ^: 55	· 1°35	4/1	T6
,	5	TH 2	14831	€630 2-31	13 _c 74 ·	-	-	19	00 0397	0.55	1.35	4/2	T5
1	6/1	PY 1	10076	- € ₀ 31 -	-	- .,	. -	10	Po 0664	Pa 44	Co37	5	Tō
į į	6/2	PY 2	10976	05 26 0- 26	8,91	-		13	000520	nc 45	0.99	6/1	76
,	7/1	KK 1	11159	ი _ი 26 ი _ი 29	- 4o 46	- .			longen .	4c 46	4046		75
}			- 11159 -		10040 - 10040	~	-	15	000448	∙1 ₆ 4.7	1:05	•	T6
1	8/1	CP 1	5852	0° 28	15 ₀ 60	· · - ·			0-0448	-	1 c · 5		T 6
;	8/2°	CP 2	5852		- 15¢60	_	_	21	000403	್ಕಿ 63	1063		Tó
	9	TH	17792	. ñ₀ 39	16c71	' -		, 21	000403	^c 63	1005		Τ6
1 -	10	S.P	13607	0.33	1007		_	21	000594	ña 99	2,55	9	76
1	11	NWW	29928	©c33	1c86		_		1.0000	70 د 1	1007		76
1	12 .				10 ₀ 67.	_	_	-	1,0000	J = 86	1 ಚರ		76
-	13	МО	40520	○ 33	2045				-1 6000 c	Λου7 -			Τô
; .	14	BN -	11159	0.51			_	7,1	100000	25 45	2045	••	76
ŧ	15	вк	14797	Oo 27	2, 60				301482	1045	3064	14	T6
	16	9.C	27363	6.52	2 ₀ 01	_	_	_	100000	S2 0.0	2000		Τó
, ,	17	DK	28255	^•52	2067	_	_ `		100000 100000	2001	2001		Tó
1	18 .	Bs _	13974	Po 29 .			_	_	-	20 67	2.67		Tć
1	19	8.2	14036	0030	5 ₀ 35				leared . learer	45 A 8	40°8	-	-T 6
1	20	KC	10425	0.25	7072	-		12	066438	5, 35 "	5,35		T 6
1	21	IN	81 56	0.20	3, 12	_	_	-	100000 100000	5 ₀ 34	0.69	2L -	T6
١.	22	PS	14280	0.54	4083	-		-	100000	3c 12 4c 83	3012		Tá
•	23	SMP	31154	0.70	4083		_	_	100000	4c 83	4°03 4°05		76 74
;	24		ኒስኖጵያል	B+61 .	0 ₀ 65	-	- .	- .	London .	n _a 65	4იმპ • შიდ5		T6
1	25	BCH	33719	6o32	0.077	_		-	100000	Po 77	9.77	•	T5 T6
	28	NK	89260	0.65	0 ₀ 27	_	- '		100000	9327	0.27		T6
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}		11 12	NWW	11649	0.43	2,56	- '	· - · · -		100000	2, 56	2.5		T2
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3		14	-	29482		50 52				-	5 ₀ 52		••	T2
		15	вк .	6722	9028	6.81	, - (- ' 1		0.0713			6 15	12
		16	B.C.	271 40		1078					1 ₀ 78			T2
		17 .13	DK 8s	28032	0 - 68	2 ₀ 37	- ',	' -		1°00000;		. 2.3		T2
		19	BP ·	12444	Q•51	6047				7°086c non2(\-	0 _c .74	107 554		T2
3		20	- KC	12567		-	–				4c 17			· T2
		21	IM	5698	0.29	5 ₀ 44	-	- ' -		ionern"	. Sc 44			T2
Ö		22	PS	35168		2076					2c 76			
		23 24 -	SMP RS	75060		2,76 0,95				1 ₀ 0 0 0 0 0	` 2₃ 76 0c 95-		6 ·	
		25	BCH	33050		- 0 ₀ 41					(1 ₀ 95 -			T2
9		28	- NK	03866		0.24	-				0 ₀ 24			T2
		30	PSR	33273		0 ₀ 59	•	_ :-		100000		0°5		T2
E)P		31 - 33	LP 2 LS			1,54	••				1c 54-			
·				12322 .10914.		2a 72 4o 10 .				1 - 0 COO 1 - 0 COO		207		T2
۱ م		36	RID			0041					0c 41			T2
Ð		37 ·				4073					40 73			T2 -
Ī		41	CHW	25245	. 0∙67	2°56		ست. مست ماد د	- '	100000	, 2₅ 56	2,5	6.	T2
3		42	TC TC	24018			//%			00020 1.0000		2.4		T2
ļ						4 ₉ 44				•	4c 44-			
es.		45	PKN 1	24241	0ი 60	2 ₀ 56	" . <u> </u>	-	- ;	1,0000	55 ہ2	2.5	6	T2
Ø (50 _		10241		6041		. -		•.	6o 41 ·			72
•		51 52	NN .PTN .	11526		J ₀ 54 Ω ₀ 41.				1 ₀ 50000°				T2
Ø	* ***	54 10 F	TCLL								9041 - 			12-
						2050.		_	. 6	0 ₀ Q 1 ÇQ -	<u>-</u>			
Ð		T2.		91 57		136,20		- 17	70 (0.0610	•	•		
	•	-	TOT/	 L		250.02	or Terretories						•••	- ;
129							استيماد الدارات			•				
کتین		. •		•	:			er ⁴ setter	 -	d d K pB w		Ψ -		

	•	CALC	ULATION	FOR	ALTERNA	11AF	KUUT	ING	NETWORK .	BANGKO	(, TH	A I LAN	D
		F ROM [*]	I = 43	τC	SUB =	5000	S	SYSTEM	C 400	TANĮ	DEM AR	<u>:</u> α =	7
	J	NAME	CIJ	C/P	LIA	۷/۳ ۵	MQ	NIJ	, EIJ	OFL	VAR	ROUT	11
	`1	TK	5289	q.29	13.33	·· · · · ·	_		0.0489	₽. 65	1.60	1	
	•	sR-1-							፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡				
	2/2	SR 2	7593	90 43	7651			. 10	0.1000	0 ₀ 75	1.52	5/5	
						,· '			_ 0 ₀ 1000				
	3/1	Sh 1	5596 55.56	0o 58 ∧- 60	17,60	_	_	18	0c1554 - 0c1554 -	2673	6.90		
í "	3/3	- Sh 3	55 96	ი _ი 58	17,60		_	18	0.1554		6090		_
ار سے جب								_	a. 0954				
	4/2	PL 2	8054	0044	8,37	·		11	0.0954	0680	1.67		
	5 ,	TĤ .2 ~	11098	- 0° 20 -	-18 ₀ 88-,		. - .: .	21	0 ₀ 1 052 -	- 1099 -	- 5.39	5 '	-
	6/1	PY 1	11588	0o51	5 ₀ 79	- -	-	-	100000	5 ₅ 79	5,79		
	6/2	PY 2	11588		2c 9A -	- <i>:</i>			100000 -				-
	7/1	KK 1	8054	00 44	6022	· -	-	-	1.0000	65 22	6.22		
	(/ / E/1	KK -2 - CP 1	8054 10731	-139 44 - No 45	6° 22 3° 65				1 ₀ 0000 1 ₀ 0000	6, 22 3, 65	3065		
	8/8		10731		3 ₀ 65	_	= _	_ ' <u>_</u>	. 1 ₀ ስቤርብ =		-3065 3065		
	9	TK	, 5801	ŭ•33	7c 94	·	_	11	000791	• 05 63	1.30	9	
	10	SP	6313		1.93		- _	-	-1000000 -		- 1 ₉ 93		
	11	NWW	30151	00 66	1072	_	_	-	1,0000	1c72	1072		
	12_				len3 .		. <u>'.</u>		100000-	1: 03 -	-1003		٠-
	13	MO	76469	Co 74	1.03	٠ -	-		169999	1003	1,93		
•	14.	• • •			3, 22		-	-			- 3,22		
	15	BK	26248	0.65	1072	_	-	-	100000	1572	1.72		
•	16 17	.BC DK	13118	00 40	2 ₀ 06	-			- 1 ₀ 0000	- 2006 -		-	
ľ		BS	13607 . 14097	-	2 ₀ 75 3 ₀ 43	_		_		2 ₀ 75	2.75		
•	19	BP	11719	. со 45 - Ро 51	2,75	_	— 	-	1 ₀ 0000	2 ₀ 75	2075		
	20	KC	31712		2 _o 23	- .		- .	1,0000		2,23		
	21	IM	13240	ტი 53	1067	-	_		100000	1 ₀ 67	1067		
	22	PS	30931	0 ₀ 39	. 1061		-	-	1.0000	lc 61	1061		
	23	SMP	39495	0 • 40	1061	-	-	-	100000	1561	1061		
••	24				A ₀ 27.				-lesacs.				
	25	всн	85460	Qc 74	. na 22	12*	₹	~	100000	0¢ 55	0.22	•	
	28	NK			C 0, 27	-	-		1,0000	0° 27 -			
	30 31	PSR LP 2	26694 27475	ე _ი 65 ი _ი 66	მა 69 ი _ი 84	. - .	_	_	1,0000 1,0000	^a 69 ^a 84	₽₀69 ₽₀84		
	33	LS	35503	00 43	0069	· - ·	_	_	100000	r: 69	0.69		
	35				2,92				lecero -		-		
	36	210	39628	0.43	0,22	_	_	<u>-</u>	100000	0022	0.22		
	37	ASD	.1 01 80	0 ₀ 49	4018	-	- ,	- .	1,00000	4 ₀ 18	4018		
	41	CHW	13913	Co 40	4072	-	-	-	100000	4 ₀ 72	4072		
•		LP 1	24718	0 • 64	26.90	, -	-		100000	· 2 ₀ 90			
	43	TC	70.70	- 0 41	22 ₀ 21 3•11	: -	-	• 35		7 11	2 11	_	
(-	45	PKN	12812	0.35	1.82	~· ~ _ ~ ·			1.0000 1.0000	1.82,	•		
	50	SS.	11098		1.32	_	_		1.0000		- 1.72		
	51	NN	28255	Po 66	1 ₀ 03	_			1,00000	· 10 1/3	1 = 1.3		
	52	PTN	107060		ი. 27	-	- ,		1,00000		0 c 27		
	10.5		6	- .	10c00	-	-	1/20	000010	· -	_	101	
	! 1-1-	⊸`SFS∵			•	`- .	- .		0°0100			111	
ره در درد در	. T7		72,66	, 1	98c 38	1028		130	0.0010				
* • •		, u tytk y Maaat +∧ a	TAL TO SEE	•	040 00	•	P# 14		- ^ •		**		
			AL .	and the second	249699		*	347					
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1 5	a leg la se		in the second of the second		1 - 42 4 3 - 4 1								

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1								•	٠.				PA	GE	43
1				11.4~704			,					į			
3		•	ርሱር	LLATION	FOR	ALTERNAT	TIVE	R.GUT	ING	NETWORK	RANGKUK		THA	ILAN	D
)		FROM] = 44.	WT9	sua =	5000) S	YSTFM	C 460	TAND	EM	ARE	Ų =	1 .
1	_	J	NAME	CIJ	C/P	VIJ	V/M	ָס ^א	KIJ	EIJ	OFL	VA	R	ROUT	ING
نت)	1	τκ ΄	7951	0.35	1.44 -	٠ ـ ,		_	1.0000	1.44	1 -	44		T1.
1.		-2/1	sR 1	5750	00 36~·	- 22 ₀ 76 -	-	– .	28	-00 0485 ·-				2/1-	
4		2/2	SR 2	5751)	0c 36	22,76	-	-		1000035	1010		31		T1
د.		2/3	sr 3			22,76 .	_ -		- 28	000485-	1c10				T1 -
1		3/1	Sh 1	5494	Go 31	21.75	-	-	58	ი-ი358	00 78	20	28	3/1	Υ1
1	` · ·	3/2		54 94 54 64		- 21e75	, 		28	0 ₀ 0358	0° 78				- T1 ·
Ť		3/3 .4/1	Sh 3	5494 5596	0031 0 30	21.075	-	-	28	0.0358	Λ _c 78	20	28 3	3/3	Τ1
Ì		4/2	PL 2		₽°35	20°23 20°23									
	<u> </u>	. E	TH 2			- 9c61	•=	_	26	000401			32		Ti
-		6/1	PY I	7388	©o 38	10011			13	- 0 ₀ 1050- - 0 ₀ 0879			20 9		-T1
j	-	6/2		73 88	Ω ₀ 38 °.			-		. 1°0000°	ი _ი გე	5°	98 (5/1	T1
ز (-	7/1	KK 1	5289	0.57	23,52	_	_	25	0,1136	2c 67		73	7/1	·T1
į	***	.7/2	KK-2			23, 52		_ ,		0 o 1 1 3 6					
Į		8/1	CP 1	8719	0.38	4080	-	-		100000	40 80		80		Ti.
3/		8/2	CP 2.	8719	0 ₀ 38	4c 80	- .		∴ - .	1,0000	- 4a 30				T1
		5	TM	6978	0.33	7059 .	-	_	11	Qo 0.666	9° 21		ถ้อ	9	T1
į.	•	10	SF	10302	0.31	1 ₀ 52	• a.	. -		lobace.			52	•	T1
H		11	NWW	24130	Co 04	2,53	-		-	- 1 - 0-0-0	53 ي2		53		Tl
-		12	PC			Da 99				1° 6 6 6 6 7	99 م	O o	99 -		- T1 -
4		13	DM	37956	0 • 40	3c19	-	-	-	1,00000	3c 19	З0	19	_	Τ1
	<u></u>	14			0.35	3 ₀ 54					- 3c 54 -	30	54	••	T1 ·
		15	BK	12689	c _o 37	3 ₀ 67	-	-	-	1,0000	3 ₀ 67	30	67		Τı
Ą,		16	-BC	10914	6.49	- 2 ₀ 88 -				160000-	2 ₀ 88 -	ر 2	88-		Tl
1		17	DK	11454	0.50	3064	-		-	1000000	ში 64	, 30			T 1
1	4. W.F	18		16792	0,50	5 ₀ 82	·	– .			5 ₀ 82 - :				-T1
٠ ائ	:	19	BP.	7695	0 + 43	9c 51	-		12	0.1013	f a 96		09	19	T 1
Í		27	KC	27252	0.57	4065		-	-	1,0600 -		- 40	65		T 1
		21	ΙΝ	8770	n _o 4n	3049	-	-	. -	1.0000	3 ₀ 49	-	49		Τı
2	1	22 23	PS SMP		₽n58 ₽•38	1077				1,00000	1:77				
1		24				1c77	_		-	1,00000	1e 77		77		T 1
. [25	всн	73860	00 70	9047				109000 160000	0c 85			* *****	
a		28	NK	40743	_	0 ₀ 38	_ 	_		. 160000 .	. 0. 47		47		T1
_1		30	PSR	14280	ç∙39	0.96	-	_		1,00000	n _o 96		38 96		T1 · ·
		31	LP 2		0036	1074	- .	- .	. - .	1000000 1000000					T1 T1
ij		33	Ls		Qo 62	1047	_	٠	_	1.0000	16 47		47	•	Ti
٠ _		35 .	.HK			3 ₀ 84				- 100600 -					- T1 ·-
		36	RID		0040		_		_	100000	Os 47		47		T1
3		37 .	ASD	6210	Q•31	10011		 –	-14	So 0597	0.60 -			37	T1
		41	CHN	11649	0.51	2 ₀ 40	_	-	_	1,0000	20 40	_	4 <i>0</i>	-	Ti
	- - •	42 .	.LP 1.	11465	9 ₀ 48	5°¢6	-		. – .	1,00000	- 5c 06 '				Ti
,		43	TC	20 30	0•33	2640	-	-	-	105900	2c 40		40		T1
		_44	PTW			11076	, <u> </u>		- 22	_ u° uusu _		 -		44	
		45			0.33	2.40	_		-	1.0000	2. 40		40		Ti
,		50 -			0.41	2.91	-			1.0000;					Τı
•		51	NN		G ₀ 4Ω	1652	-	-	-	1 0 0 0 0 0 0	1c 52	10			T 1
ž		52	PTN		մ _¢ 73	Q ₀ 4Ω ·	-	-	-	100000	Ωc 40 =	- O o			Ti
•		101	TOLL \$PS	0	_	10 ₀ nn '	-	_	20	000010	-			0.1	
•	·	_'1'. T1	CY C	0 6959	****	2 ₀ 5 0				001000				1 1	
}		• *		0909		99042	1,29	•	132	0.0010					
			TOTA	N 1	•	375005 .			E10	• •			-		
						,			512						

	CALC	ULATION	FOR	ALTERNA	TIVE	ROUTING	NETWORK	BANGKOK	: TH	A I LAND)
	FROM	I = 50	ss	sus =	5000	SYSTE	1 . C 400	TANL	EN AR	<u>Ε</u> Δ = 1	<u>. </u>
J	NAME	CIJ	CZF	LIV	V/K'	MQ NIJ	FIJ	OFL	VAR	ROUTI	LNG
1.	тк	12260	0051	1016	· ,		1,0000	1c16	1016		Ţ1
							0 ₀ 1105				
2/2	SR 2	7081	0040		-,	- 10	0,1105 -0,1105 -	_ 0 ₆ 85 °	1074	2/2	T 1
3/1	SK 1	8412	.170 40 4 .00 43	9,56	, =	- 12					T1
				9 ₀ 5,6			_\$01032 ~			3/1 .3/2 .	.T1
3/3	SW 3	8412	Qp 43	9 ₀ 5ċ	-	- 12	001032		2014		T1
			-	9°30			0.0937				
4/2	PL 2	81.05	0043	9,36	: _	- 12	0.0937		-1,88	•	
5 .				10e33		12					-T1 ~
6/1	PY 1	6364	0031		-	- 15	ᡗ᠗ᡥ᠘᠑ᡘ		1018		T1
6/2	PY 2	6354	Oo 31	5 ₀ 29		←	1,0000	5 ₀ 29			
7/1	KK 1	5954	0.56	11062	-	- 13	Col409	10 64	3.69	7/1 .	T 1
7/2	- KK 2.	- 5954 -	- 10° 20° -	11062-		33	9 ₀ 1449 -		·3₀69	7/2	Tı
1 \8	CP 1	12628	0052	4 ₀ 65	• +		1°00000 ·		4065		Tl
8/2		-12628 -		4-65	-	- (-	1,00000		ა 4 ი 65		T1
g`	אד	11098	0049		' -		100000	3c 87	3º87	·	T 1
10	SF	13791	0 • 40	-1016		- -	100000		1016	•	T 1
11	N MM	11526	0 ₀ 29	9 ₀ 174		- 13	=	2c 50	1.08		Τ1
12	-	•		1,1,55	-	.		1e 55;			
13	אַפ	35726	0.37	3 ₀ 10	_		100000	3c 10	3.10		T1
		. 287C1	^ი 66	3,87		,	- 1°0000°		3.87		Ti
15	BK	11465	^o 32	5.17	_		100000	5c 17	5017		Ti
16	9.6	12016	0.51	3,10	• - •	- , ,		3 ₀ 10 ·			T1
17 18	DK Bs	125°6	Po 51	4c13	• -	22	100000	4c13	4013		T 1
19	рэ ВР	6722 5903	. იი 29 - იი 31	. 26 86 8 ₀ 28		- 12	. 0 ₀ 0392				
53	KC	28255	0.58	8 ₀ 26	_		- 100000 .	0 ₀ 49	1.02		T1
21	IM	20255 8054	0.34	6 ₀ 20			1,0050	6: 20	· 8°26		T1 T1
22	P.S	34388	0+67	1094	_		100000	1:94	1094		T 1
23	SMP	73660	0.74	1094			1,6060	1c 94	1094 1094		Ti
. 24 .	RS	91660					-100000-		· 0.83	. :	Ti
25	всн	40743	0038	ne 83	-		100000	% 83	0.83		Ti
28	NK	73460	0.74	0.43	 .		1,0000	Co 41			TI.
30	PSR	24687		1003	-		1,0000	1003	1.03		T1
31	LP 2	12506		3010	- .	- . - .	lances.	3c 10	3,10		Ti
33	LS	26866	0.55	2057	-		100000	2c 07	2007		TI
35 .	. HX	13424	. ^+53.	3,72		- ,,,, ,,,,,	- latess	3 _e 72			71.
36	RID	30931	Co 37	€8 ° 0	-		100000	೧೯ 83	6083		Tl
37	ASD	8156	0.38	. 4065.	, - .	-	100666	4c 05	4065		T1
41	CHW	26 I 7	ñ•36	2 ₀ 58	-		1_{\odot} 0 0 0		2.58		T1
42	EP 1.	10241 -	0.40	5, 29		- ,, -,	1,00000	. 5 ₀ 29	5029		T1
43	TC	11098	0049	1c,94	-		100000	1094	1094		T1
. 44				5° 81		-:		50 81		•	Ti
45	PKN	14709		2, 32	, -		100000	2c 32	2032		Υ1
50	SS . ,			11075		22.		- ,		50	
, 51 °	NN	11098	0.30	5.42			1.0000.	5.42	5.42		T1
52	PTN		Q0 64				100000	1c45	1045		T1
33 - 19 1 3 - 3 - 1	ĹŢΩĽL.	. O	, - .	10000 / 2050		- 20	ი _ი ბი1ი			101	
	∆,s}Ps			116c39	1014	149	-	··-		,111	
		्र ्रभूषय , प्रभूष		1100'23	10 14	149	0.0010			•	
	, , , , , , , , , , , , , , , , , , ,	المثلاثات الله الله الله الله الله الله الله ال	; * `		,	÷ 0 =	•			•	

		C 7 1 7	CULATION	FOR	ALTERNA	TIVE	000	TINC	METHORS	DANCHOR	7-11	ATIANI	~~~·
		•		******* - *** #***	· · · · · · · · · · · · · · · · · · ·				NETWORK	BANGKOK			
		FROY	I = 52	PTN	suB =	800)	SYSTEM	C 460	TAND.	EM AR	<u> </u>	2
	J	MAME	CIJ	C/P	LIA	۷/٧	MQ	LIN	EIJ	CFL	VAR	ROUT	ΙN
	1	ΤK	110660	0.79	0.08		_		1.0000	80.0	0.08		1
	-2/-1-	-SR 1	95860	Co 76	1 ₀ 26				1 - 0 000	1c 26	- 1026]
	2/2	SR 2	95860	°o 76	1,26	-		-	. 1,0000	1 0 2 5	1 0 2 6		7
	2/3	-SR 3	95860 -	©o 76	1 ₀ 26		<u>.</u>	_ ,	1 o û û û n a	- 1c26	1026		•
	3/1		191060	0079	0 ₉ 42	-	-	-	Loneng	0042	0,42		-
	.3/2.	Sh 2	101969	0079.	0042-	<u>-</u> .	— .		_1.gara	0o42 -	9042		•
	3/3	sW 3	101060	0 ₀ 79	Oc 42	_	-	-	1,0000	Cc 42	Uo42		-
···· .	. 4/1	PL 1	୍ର ପ୍ରତ୍ୟୁ ପ୍ରତ୍ୟ	-0o77	0067-			, . ,	1,00000	0 ₀ 67	.0067		•
	4/2	PL 2	960 60	₽a 77	0 ₀ 67	-	-	-	100000	0c67	2057		
-	5 .	TH 2	153460 .	0.80 -	- Cc64.		- -	-	1,00000-	nc 64	0.64		
	6/1	PY 1	84969	Po 74	1,92	_		_	$1^{0}00000$	1e92	1,92		
	6/2	-PY 2	34060	۵ • 74	Ço 96	, 🚗 .	-		1 0 0 0 C 0		Dc 96	-	
	7/1	KK 1	91460	0073	1043	_	-	-	100000	1c 43	1e43		•
	7/2	- KK -2	91460	.Co 73	1043				1_0,0,0,0,	1-43			-
	8/1	CP 1	108260	0.79	0.32		_	-	1,00000	ne 32	0.32		
	8/2		108260.		0 32		- .	·	- 1,0000	Ç ₀ 32	0.32		
	9	てい	105860	Q ₀ 82	0,30	_	_	_	1,0000	9030	0.30		
	. 10	s'P	1155 60		0,06		- .		- 1,0000				
	11	NWW	35391	2.27	4019		_	-	1,000	4c 19	4019		
	_ 12	PC	126060			-		_		nc 07			
	13	אס	3,5503	0,23	0e 17				100Lv0	0:17	9.17		٠.
	14	BN	124460	0 • 83	Q ₀ 27				1,0000				
	15	BK	74660	0.59			-	_	- •				
		5 C	110060		0 c 28	_	_	_	1.00000	0e 28	0.28		
	16				0 ₀ 18	•	. -	. –	1,00000	Co 18	0e18		
	1.7	DK DK	111660	?¢78	no 24	-	-	-	1,0000	nc 24	0.24		
-	- 18 .	. អូន			1078.				3 o o o o c			*	•
	19	B P	89460	0.071	^o 53	-	-	-	100000	ი _c 53	(:.53		
	20	KC	112860		0 ₀ 34	-		, -	1,00000	0° 34	0.34		
	21.	١'n	90660	00 74	0.34	-	-	-	100000	^o 34	0.34		
	22	P ' S	134660	9 • 72	Oo 14	-	-		100000	Oc 14	Qv 14		
	23	<u>ş</u> HP	149867	C+72	Cc 14	-		-	1 ₀ ዓ ስ ስ ስ ር	₽± 14	6c14		
· -	- 24	Ŗs			CoC5					0°02	Vo 05		
	25	BICH	116260	ño 59	6003	-	-	-	100000	0a Q3	V o O 3		
	28	NK	153460	c_{c} 7 c	6.05	-	-	,	150000	3005	0.02		
	30	PSR	121060	Do 81	0006	-	-	-	100000	0e 06	0000		
	31	LP 2	970 69	0.76	0,13	-	-		0000661	Cc 13	0.13		
	33	LS	76460	53 و ؟	0011	-	_	-	120000	On 11	0.011		
	35	_HM	106660	83 مک	26 م م			-	150000	Ωo 26 ···	0.26		
	36	RID	98660	9066	0,03			-	100000	^c Q3	0013		
	37	ASD	917.60	0.75	0.33	٠ ــ	_	_	1,0000	re 33	Cc 33	•	
	41	CHW	100069	2072	0016	_	<u> </u>	_	Lobnet	0e16	0016		
	42	·LP 1	85060	Co 68	.0,96	٠.	_		1,0000	0e 96	60 Y6		
	43	TC	107060	0.78	0014	_	_	-	100000	nc 14 .	(014		
	44		- 96260				-	-		0°72		-	
,	45	PKN	115060		· 0.16				100000	Do 16	\$1016		
	50 50	SS	84660	0.69			_		100000	. 1089	Vo 89		
	51	NW.	41412	0a32	2e 51		_		1001605	2c 51			
	52	PIN	0 41475			•	_		0°06.50		2.51	62	•
	101	TOLL	n	-	. 0,96 - 1.60	_	. –	5	0.0010 0.0010	-	-	52 1(.1	
							_	7	** ******				

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•		**	r					•			* ;	PuGE	47
	,	CELC	ULATION	FOR	ALTERNA	TIVĒ	R GUT	rING	NETWORK	BANGKI	JK ,	THAILAN	D.
•		# <i>D8</i> #	T = Tor	TOL	L sub =	100	n s	SYSTE	1 C 400	TAI	ここと	ARE4 =	1
	J	BMAH	CIJ	_C/P	LIA	M.VA	MQ	KIJ	FIJ	OFL	VA	R ROUT	ING
	1	TK	8975	-	12.00	-	`	: 22	0.0020	٠ ــ		- 1	
	2/2	.sk-1- sr 2	5186 5186		40 ₀ 00						An -	2/1 -	
	2/3	SR 3			40°00	_		57	0.0050	-		- 2/2	
•	3/1	SW 1	6518		40°00 40°00	-		57	_	·;- · -		2/3-	-· :
	3/2	5 k 2	6518		- 40 ₀ 60 -	• =	_	57	C 9 4450		•	- 3/1	
	3/3	5 % 3	6518	_	40°C0			57 57	- 0,0020 - 0,0020			- 3/2	
		PL 1 -		_	46₀6Ω	_	_		0.0020 0.6020	-	•	- 3/3	
	4/2	PL 2	6219		40 ₀ 0Ω	- - -			-	. برسید سد جب همدمده به ۰	ا مسجود د ،	4/1 -	
	5	TH 2	71 32	-				57	0.0020 - 0.0020	-		- 4/2	
	6/1	PY 1	7030	_	40°05		· -		-			5	-
	6/2		70.30	_	20.00	_	-	57 33	0.0020 -0.0020	-		- 6/1	
-	7/1	KK 1) 0	_	40.00		. –	57	0.0020			6/2	
	-7/2		0		40 ₀ 50		-	57-		_		- 7/1 - 7/1	
	8/1	CP 1	10364	_	40°C0			57				- 7/2·	
	8/2.	CF 2	10364	-	40000		_	57.				- 8/1	
•	9	TM	8207		40,00	_		57	0.0020			- 8/2	
	10	SP	11526		12 ₀ 00			22		_	,	- 9·	
	11	NWW	13677	`_	20000		_	33	- 0001 20 - - 000 20	*****	••	- 1n	•
	12		-14648		_12 ₀ 00 _				0 ₀ 0020	_		- 11	
	13	DM	37175	_	12000			55	0°0050 0°0050		•	12-	
	14	BN	24576	_	40.00	_	_	57.		_	,	- 13.	
	15	вк	12261	_	20,06	_	_	33	000020 . 000020			- 14	•
	16	3 C	8882	_	24 ₀ 66			38	000020		•	- 15	
	17	DK	10241	_	32,00	-	_	47	000020		•	- 16	7
	18.	8s		-	40°00 -				0° 0050	-	•	- 17	
·	19	BP	6466	-	32,00		_	47	0.0020		4 Vertification # 4	18 -	
	ន្តភ	KC	28590	_	32000	_	_		- 0,0020	-		- 19	
	21	IM	8719		24000	_	_	38	080080	-	•	- 20	
	22	Ps	3/262	· _	20,00	_	_		- 0000080	_	•	- 21	
	23	SHP	38736	_	26,00	_	_	33 33	0.0020		·* '	- 22	
	24 .		94260	, _	.3 ₀ 2n	. 			~ 0° 0050 ~			- 23 - 24-	
	25	всн	72460	_	3,20	_	_					- 25	
	28	NK	38625	_	3, 20	_	_	9	0°0050°		·	- 23 - 28	
	30	PSR	13118	-	8000	_	-	17	0.0020			- 20 - 30	
	31	LP 2	13301		12000	_	_		, 000020			- 31 - 31	
	33	Ls	28255	_	86.00		_	17	0,00,000	_		- 33	
	35		11159 -		32,00_		-		. 0000020 -	. 		- 35 -	
	36	RID	32381	_	3, 20			9	0° CUS0	_	·	- 35 ° - 36	
	37	ASD	7439		20,00		` _ `		- 5°0080 °		· ·	- 36 - 37	
	41	CHW	ານ ອຸກ	_	20000	_	_	33	6°0050 5°0050		•	- 37 - 41	
	42	LP 1	11937		20,00	_			~ 0°0080 4°0080		•	- 41 - 42	
	43	TC	8054	_	20,00	_		33	0.00000	, 			
	44	. PTW			- 20 ₀ 00				~ 0°0050~.	-	•	- 43	
	45	PKN	12444		20,00			33	~ 0°0'0'50~.			44	
	50 - 2	SS	5954		50,00	_	_		000020		•	- 45 - 50	
	51	NN	12567	_	12000	_	_	22	- 0 ₀ 0020		'	- 50	
	52	PTN	91460	-	3,20	_		. 6	000000 -	<u> </u>	;	- 51 - 53	
-			J 2 -+ U-3		-6	•	, –	9	110 CCS11 =		٠ - '	- 52 -	

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				**** · **	· · · · · · · · · · · · · · · · · · ·	- 		1 1 4 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			GE 4
,		CALC	UL AT ION	FOR	ALTERN	AT 1 VC	ROUTING .	NETWOCK	CONTRACTOR EN	·	A 7 1 A 1 1 D
			OC X1 101	- FOI	ML CAN	~	ROOTING .	NE I WURK	DANGNU	150	AILAND
,,,,		TAND	EM 1.	SY	STEM	ARF 10	2	4.5			
	• •					• • • • • •	وتعدمه والمحا	. (# 14.1	·		
	J	NAME	CIJ	C/P	LIA	`_V/M _	MG MIN	EIJ	OFL	VAR	ROUT ING
	,	·	onne'	•	17 50	ē	. 22	0.0010			
	2/1 .	TK SR l	9935 51.86	<u>`</u>	17.58 6.39		32 27	0.0010			. 1
	2/2	SR 2	51.86		6.39		27	0.0010		· · · · <u>-</u>	2/1
	2/3	SR 3	51 86	٠, 🚣 .	6.39		- 27	0.0010		-	2/3
	3/1	sw l	6518		11.99		38	0.0010			3/1
	3/2	SW 2	6518		11.99	3.56	– 38	0.0010		· · ·	3/2
	3/3	sw 3	- 6518	<u> </u>	11.99		38	0.0010		, <u> </u>	3/3:
	4/1`"	, br <u>, î</u> , ,	6210	· · · · · · · · · · · · · · · · · · ·	12.33		38	0.0010		` <u>-</u>	4/1
	4/2	PL 2	6210	- .	12.33		- 38	0.0010		,	4/2
	5 6/1	TH 2 PY 1	· '7732 7610	<u> </u>	14.72 39.17		- 36 - 63	0.0010		', . -	5
	9/5.	PY 2	7610		15.63		- 32	0.0010			6/1:
	7/1	KK 1	0		18.31		- 46	0.0010		_	7/1
	7/2	KK 2	~ Ŏ	·	18.31		- " 46	0.0010			7/2
	8/1	$CP \ \overline{1}$	10364		26.00		- 47	0.0010		, ', -	8/1
	8/2	CP 2	10364	· · -	26,00	1.62	- 47	0.0010			8/2
1	9	TM	9017	. – .	16.12		-· 34	0.0020		<u>-</u>	9
	10	SP	17663	_	22.89		- 39	0.0010	_	': -	10 .
	11	NWW	21454 23349		37.70		57	0.0010			11.
	j. 2 1.3	PD DM	63460		21.89 33.04		- 37 - 51	0.0010 0.0010		<u>-</u>	12 13
•	J 14	BN	24576	· · <u> </u>	42.78		- 63	0.0010		- , <u>-</u>	-13 14
	15	вк	19001	_	25.94		- · 42	0.0010		٠٠	15
	15	BC TI	9752	٠	36.77		- 56	0.0010		········ <u>-</u> ··	16
	17	DK	10241	_	31.78		- 50	G.6036			17
1	j 8	BS `	··· 9323		14.18		- ' 33	0.0010		-	18
*	19	8 E	6466		7.04		- 25	0.0010			19
	20	KC .	28590	_	39.38	4	- 61	0.0010		• =	20
	21. 22	ьs Im	96 29 3 02 62	-	26.60 21.39		- 44 - 37	0.0010 0.0010			21 22
	23 .	SMP	66260		21.39	, — ,	- 37	0.0010			23
	30	PSR'	20562	_	12.26		- ` 25	0.0010			30
	31	LP 2	20896	_	24.37		40	0.0010		·· _	31
	33	∟S	28255	_	16.24	-	30	0.0010			33
	35	HM	11159	_	21.42		- 41	0.0010			35
	37	ASD	8099	-	16.97		– 36	. 0.0010		-	37
	41 42 -	CHW	10180		17.86 17.83		- 33 - 35	0.0010 0.0010			41
	42 43 .	TC	8834	_	29.30	1.4°	- 33 - 47			. <u>-</u>	43
	44 ·	PTW .	52.89		12.11		- . 30	0.0010			44
	45	PKN	1 93 35	_	21.47		- 38	0.0010		-	45
	50 -	SS "	5954	 .	37.13	1.01	~- ` ` ` 56	0.0010			50
	51	NN	19558	• -	27.74		_ 45	0,0010			51
٠. ٠ ٠ ٠	•	тот	AL.		909.13	· · · · · · · · · · · · · · · · · · ·	1742			·- ·- ·- ·	
* mark * * * * * * * * * * * * * * * * * * *							egae x suurus = = = = aaruu (= = = = = = = = = = = = = = = = = = =	- ' , , ,		<i>,</i>	
1	<i>;</i>							·			
4.4	•	* -		•	•			-			
1.02.0		33-8	***************************************							Paterton Palamet	
	u	A PARTY OF					. '• . •			•	
S. S. T. L.			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ing description of the second	and make and the	kaya éust w ≃as -	samadan ya a make			<i>j</i>	-
							y a l mana stama for			·	
			an Age of	روه سدستوريس			· · · · · · · · · · · · · · · · · · ·			· · · · •	

t sagar manapagangan ag t	er ou og om	***		-	•	- ,		· · · · · · · · · · · · · · · · · · ·		p	AGE 49
	CALC	ULATION	FOR	ALTERN	AT IVE	ROUT	ING	NETWORK	BANGKO	ς`, <u>τ</u> σ	AILAND
	TAND	EM 2	., _ sys	STEM	_c 400	1					, .
	NAME	CIT	C/P_	LIA .	,V/ W	ָ אם	NIJ.	EIÄ	OFL	VAR	ROUTING
1	ΤK	1 9781		12.09		_	24	0.0010	` , <i>'</i>	`	1 .
2/1	ិន១ 1	8956		21.13	1.37	···-	` 39	0.0010		1	72/1
2/2	SR 2	8956		21.13	1.37		. 39	0.0010		,	2/2
2/3	SR 3	8956	-	21.13	1.37	,	.39	0.0010	-		2/3
3/1	SW I SW 2	9752 9752		21.75 21.75	1.40 1.40		40.		` <u></u>		. 3/1
3/2	5 % Z	9752	<i>-</i>	21.75	1.40	_	40 40	0.0010 0.0010	- .		3/2 3/3
4/1	PL 1	7732	· _· · ·	16.59	1.57		34	0.0010	·- · <u>-</u> ·		
4/2	PL 2	7732		16.59	2.57		34	0.0010	· -	/·` _	4/2
5	TH 2	11282	·	20.95	1.66	··-	41	0.0010	· · · · · · · · · · · · · · · · · · ·		5
6/1	PY - 1	Û		18.34	1.62	-	37	0.0010	: -	·· –	671
6/2	P Y. 2	0		. 24 • 82	1.09	. –	42	0.0010		-	6/2
7/1	KK 1	7610		19.91	1.45		38	0.0010			7/1
7/2	KK 2	7610		19.91	1.45	_	38	0.0010		-	7/2
8/1 8/2	CP 1	17551 17551 ·		21.77	1.14	-	38	0.0010	· · · · · · · · · · · · · · · · · · ·		8/1
9	TM	10731	· –	21.77 30.48	1.14 1.06	· <u>-</u>	38 48	0.0010 0.0010	· _ ·	_	8/2 9
10	SP "	21342	, -	10.84	1.00	• =	23	0.00%		······································	10
îii	NWW .	11343	_	26.55	1.06	_	43	0.0010	_	· _	11
12	. pp ·	29816	· · · -	9.57			21	0.0016		·	
13	DM	30708	-	34.35	-	-	53	0.0010	-	· -	1.3
ĵ. 4	BN	26583		33.97	1.10	`· 	53	0.0010	` · · · ·	· -	<u>ን</u> ሩ
15	BK	8711	-	14.30	1.35	-	30	0.0000		`,	15
17	BC 1	20896 21788	<u>-</u>	20.61	-	. –	36	0.0010	-		16
- 38	DK BS	6569	_	27.46 13.23	1.69	<u>-</u> .	44 30	0.0010			17
19	8P	901.7		24.72	1.18	_	42	0.0010		· _ -	18 19
20	кc	23238	-	18,82	1.33	-	36	0.0010	: _	· - · - <u>-</u>	20
21	IM	5750	-	15.39	1.25	. -	30	0.0010	-		21
22	PS	54660		16.41	1.04	· - ·	30	0.0010	_	· –	22
23	SMP	6 58 60	-	16.41	1.04	· —	30	0.0010	-	·	23
.24	RS .	82660		43.65	- '	· · · - · · ·	64	0.0016	_	-	24
25	BCH	03893	-	28.94	-	- .	46	0.0010	_		25
30 31	PSR LP 2	27029	_	6.87	_	_	.17	0.0010		-	30
33	LP Z LS	9752 21788	_	19.62 15.28	1.04	. -	34 29	0.0010 0.0010	-		31 33
35	HW	- 10976	`_	29.58	1.05	_	47	0.0010	-	_	35
*** 36***	RID	25914		28.96		•	46	0.0010	_		36
. 37	A 50	5852	_	23.25	1.10		40	0.0010	_	-	37
41	CHW	19001		16.26	1.C3		30	0.0010	-	····	41
42	LP 1	7487	. —	18-23	1.16		34	0.0010	_	_	42.
43	TC	17774	-	20.16		. -	35	0.0010	<u> </u>		43
44	PTW	8038	, , _	24.86	1.13	`	42	0.0030			44
15 T	PKN" SS	``21342``	_	24.51 21.49	1.19	- .	41 38	0.0010	_		45
. 50 : 51	NN 22	6364 10914	<u> </u>	15.94	1.04		^ 29	0.0010		ノ ⁻	50 51
52	PTN	84060	`	35.35	-	-	54	0.0010	·_ •	-	52 52
,						• • •					 , <u>-</u>
	ToT	AĻ	1	007.44			1.776	, , , , , , , , , , , , , , , , , , ,	·	*************	

	· ·	,- -	• •	**				. '		<u>.</u> P	AGE	_ 5
	CALC	LATION	FOR	ALTERNA	TIVE	ROUT	ī vē ¯	NETWORK	BANGKOR	L. Th	ĄIĽĄŅ	Ď
¥	_TANDE	M 3	sŸ	STEM	c 400							_
٠ ا	NAME	CIJ	- C/P	- Alj	V/M	 MQ	NIJ.	EIJ	CFL)	VAR	ROUT	'IN
					47 P.			•		····	:	
1	TK	9935		7.14	1.03	-	1.7	0.0010			1.	
² /1	SR l	7916	***	5.52	3.06	_		0.0010	_		2/1	
2/2	SR 2	7916	-	5.52	. 3.06	 .	25	0.0010		<u> </u>	2/2	
2/3	`SR 3`	7916	=	5.52	3.06	-	²⁵	0.0010		·	2/3	
3/1	SW 1	6518		7.63	4.23		34	0.0010	·	·	3/1 3/2	-
3/2	sw 2	6518	-	7.63	4.23	-	34 34	0.0010 0.0010			3/3	•
3/3	SW 3	6518		7.63	4 • 23	<u> </u>		0.0010				·· •
4/1	``PL"].''	0	· -	5.35	2.89	_	~ 23 ~ 23	0,0010			4/1 4/2	į
4/2	PL 2	0		5.35	2 8 8 9		30	0.0010	· . · · <u> </u>		5	
5	TH 2	10302		10.20 21.37	2.56	_	39	0.0010	:		627.	
6/1	PY.₁¸	7732	·	11.58	1.29		. 25	0.0010	.: <u></u> `;	-=	6/2	
6/2	PY 2 KK 1	7732 6210		5.15	3.01	, –	24	0.0010		-	7/1	•
7/1	KK 1 KK 2	6210		5.15	3.01		24	0.0010	- · · · · <u>-</u> - · · ·		7/2	- • • •
7/2	CP I	7793		5.18	3.00	_	24	0.0010	· _	_	8/1	
.8/2	CP 2	7793		5.18	3.00	~	24	0.0010		·	8/2	
9	TM	6569	•••	8.49	1.50	-	2.2	0.0010	_		9	
10	SP	9874	-	13.05		_	26	0.0010	· <u>-</u> -		10 "	••
. 11	NWW	24018	 .	19.92	-	_	35	0.0010		_	11	
" <u>12</u> "	. bb., .	28032	·····	11.44			23	0.0010			. <u>12</u> -	
13	MD	63860		16.58	_	- .	30	0.0010	-	. -	.13	
- <u>1</u> 4	8N	1,9893	_	7.00	1.52	· <u> </u>	20	0.0010			14	
โร	8K	19224	_	21.38	-		37	0.0610	_	_	15	
16	RC	19112	-	18.55	_	*	~ 33	0.0010	- "		16	
17	DK ·	20004	-	20.18		· _	35	0.0070	-	-	17	
-18	BS	10731	-	13.71	1.30		29	0.0010	-,		18	1.0 40
19	вР	9507	_	6.21	1.58		19	0.0010	-	· · · · ·	19	
20	KC	23907	<u> </u>	19.76	-	_ ^ ^	35	0.0010	· - ·		20	
21	IM	8650	-	14.C8		_	27	. 0.0010	-		21	
22	PS '	25579	-	20.78	-	-	36	0.0010	· -	-	22	
23	SMP	57860		20.78	-		36	0.0010	· - ·		23,	
30	PSR	25245	· - ·	6.18	, –	`-`.	.16	0.0010	-	_	30	
31 .	LP 2	19113	· -	7.42	· `-		18	0.0010	_	-	31	
33	L.S.	28478	· - ·	8 • 56	• -	- ' '	19	0,0010	-	_	33	
35	HM .	8589	-	11.79			28	0.0010			35	_
`37	ASD .	5340		2.98	2.47		17	0.0010		-	37	
41	CHM .	19893	-	8,92	1.15		21	0.0010	·		4 <u>i</u>	
42	LP I	10608	· · · · · · · · · · · · · · · · · · ·	12.36	1.22		. 26	0.0010		_	42	ı
43	TC	8834	. - .	11.83	1.04		24	0.0010	,· - .	••	43 44 ·	
	PTW	5596	-	7.97	1.51		21	0.0010	-			
45	PKN	9874	- .	8,05	1.62		22	0.0010	-	·-·	45 50 ·	
50	"SS'"	8895	:	18.37		_	· 33	0.0010	•		50 ·	
51.	NN	232381		11.94		<u></u>	24	0.0010) <u>.</u>	
	+n-	A		440.40	` .	•	1142		,			
	TOT	^L		469-40			1142					

			:				1	,,			PAGE	
	CALC	ULATION	FOR	ALTERN.	ATIVE (ROUTIN	·G	NETWORK	BANG.	cok ,	THAILA	AND.
	TAND	EM V	·	STEM				••	· ·		· • • • • • • • • • • • • • • • • • • •	
			-,	215M	<u>.</u> C 400.				(
J	NAME	CIN	C/P	. AIJ	VVN	MO N	IJ	EIJ	OFL	V/	AR ROL	JŢŢŖ
1	Tκ	64060	·	. 2.36	·	_ :	9	0.0010		, , ,	- i .	-
2/ <u>1</u> ~	SR 1~	30708	<u></u>	6.35	1.18	? - *****	17	0.0010		******	2/j	
2/2	SR 2	30708	-	6.35	1.18		1.7	0.0010	· , -		- 2/2	
· 2/3	SR'3	30708	'` ''	6.35	1.18	• 🗕 📑	77	0.0010		~~~~	2/3	
3/1	.sw l	54460	· -	10.22	1.02	→ √1	22	0.0010	·.'` -		- 3/1	
<u> </u>	SW 2 1	54460	· ··	10.22	1.02	→	25	0.0010		******	3/2	
3/3	SW 3	54460		10.22	1.02	-	22	0.0010	· _		- 3/3	
4/1"	PL 1	28478	· -; · ·	14.31	1.03		27				4/1	
4/2	PL 2	28478	· -	14.31	1.03	· ,	27	0.0010	·	-	- 4/2	
···5	TH 2	59460		14-20	· -	· – - '	27	0.0010	~············ <u>-</u> ·		- 5	- -
6/1	PY <u>1</u>	21788	· 🛶	28+42	1.03		45	0.0010	` '	,	- 6/1	i
6/2.	. PY 2	21788	, - :::	4.92	1.08		1,4:	0.0010-				
7/1	κκ 1	28255	: .	9.52	1.10	· _	21	0.0010	_		- 7/1	
7/2	KK 2 7	28255	··	9.52	1.10	_	21	0.0010	~~· `		7/2	
8/1	CP 1	60060		8.30	1.04		19	0.0010	_	•	- 8/1	
8/2	CP 2	600601	:	8.30	1.04		19	0.0010	· · <u></u>		- 8/2	
- 9	TM	57660	· _	- 11.92			24	.0.0010			- 9	•
10	SP	66860	`_ `	2.95			10	0.0010				•
1.1	NMM	23.342	. '_	7.21			17´	.0.0C10		•	- 10	
12	PD	82060	* ` •	······································	`. <i></i>		. 8. T i	0.0010			<u>11</u>	
13	DM ·	8956	_	5.36		_			_		- 12	
· 14	BN -	76260	- ` _	11.30	_		14	0.0010		٠,	- 13	
1.5	BK	9140		9.50	, <u>-</u>		23	0.0010	_	•	- '14	
16	BC]	66060	_				21	0.0010	-	-· ·	- 15	
17	DK.		_	4.30	· · -		13	0.0010	. –		- 16	
18		67660		5.72			15	0.0010	. <i></i> – .		_ 17	
1.9	BS	25691		9.34	1.08		20	0.0010	-		<u>-</u> [18]	1
	BP	30820	· 	10.72	1.03		22	0.00%0	_		- 19	
20	КC	26583		14.33	-	-	27	0.0010	· -	•	- 20	
21	IM	22680	_	11.7 <u>1</u>	-		24	0.0010	_		- 21	
. 22	PS	86460	-	5.66	-		15	0.0010	-	*****	- 22	
23		.01660	_	5•66	• -	-	1.5	0.0010			- 23	
"" 30 · · ·	PSR	77060	-	1.43	_	– `` ,	7	0.0010	· <u>-</u>	******	- 30	
31 -	LP 2	258C2	_	5.38	· - .	- ·	14	ი.ბიუბ			- 31	
33	LS	O		8.18	` -	- ;	19	0.0070	_	٠,	- 33	
35	нм	53460	•	6•49	1.01	- .	16	0.0010	_		- 35	
∵ 37	A SD	25691		7.27	1.04		17	0.0070	_		- 37	•
41	CHM	62660	-	3.41	-		11	0.0010			- 41	•
42	LP L	19112	· -··	~ 4.92	1.08		14	0.0010	• • • • • • •		- 42	
43	TC	60460 *	· –	3.93	-		12	0.0010	_		- 43	
. 44	PTW T	29036	-	10.61	1.02		22	0.0010	· · ·_	•• , • •	- 44	•
45	PKN	66860	,	7.15	-		17	0.0010	- ·		- 45	
~ 50 ·	`SS	268C6	· -	4.77	1.07		13	0.0010		• • • •	- ⁷ 50	, -
51	ИИ	27363,	-	4.51	1.07		13	0.0010	•		- 51	
`0··	TOLL	0 7		~ 4.00	<u>-</u>		12	0.0010	· · · · · · · · · · · · · · · · · · ·			··· -···
• 7 •	SPS	. 0	, —	1.00	·	* *	5	0.0100	, -		- · · · · ·	
		···-· ~			,			. 0.04,00			- · Y •	.
	TOTA	٠		354.35		. 80	06	4	, ,	:		
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	CAL	CULAT ION	E (3.15)	ALTERN	ATIVE	COLUM					
	· · · · · · · · · · · · · · · · · · ·	COUNTION	FOR	ALIERN	AIIVE	ROUT	T 2.0	NETWORK	8 WI CKO	K , TH	AILAND
∮ , , . }	TAN	DEM 5	·, sy	STEM	C 400					- ' '	•
	J NAME	CIJ	C/P	AIJ			, ,, <u>.</u> ,				••
	o	CTO	, C/P.	W13	.V/M .	MC.	หเว	, Ein	CF L	VAR	ROUTING
6	I TK	18889		7.18	3.07	_	17	0.0010	· - '		1
	2/1 " SR 1	6415 "	` <u>-</u> ′	14.32	1.82	' - ,	32	0.0010	· • · · · · · · · · · · · · · · · · · ·	~~~~~~	2/1
	2/2 SR 2	6415	- •	14.32	1.82		. 32	0.0010	· 🛶		2/2
	2/3 SR 3	6415	-	14.32	1.82	(32	0.0010			2/3
	3/1 SW 1	9262	-	22.82	1 • 4.5	- .	42	0.0010	· _	· · —	3/1
	3/2 SW 2	9262		22.52	1.49	`-	42	0.0010	• • • • • • • • • • • • • • • • • • •	· · · · - ·	3/2
1 \	3/3 SW 3	9262	- ·	22.82			42	0.0010	_ '	• -	3/3
	7/3 PL 3	10302	- "	25.87	" 1.15	· —	44	0.0010	- · · · · - · · · · · · · · · · · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4/1
Ł	1/2 PL 2	10302	· · · · ·	25.87	1-15	·-	44	0,0010	, ₁ . -	- .	4/2
5		0 .	_	15.75	2.62	_ `	. 39	0.0010		· - , ·	5
•	71 PY 1	11282		35.51	1.13	- ,	55	0.0010	'	, _	6/1
	2 PY 2	11282	~	12.79	1.14		26	0.0010	-		6/2
	7/). KK 1	7732	.~	18.88	1.51	·	37	0.0010	· · · -		7./1
	7/2 KK 2	7732	-	18.88	1.51	-	37	0.0010	· · · · · ·		7/2
	CP 1	22234	. – .	21.17	1.12	-	_ 37	0.0010	-		8/1
	3/2 CP 2	22234	` —	21.17	1.12	-	37	0.0010	-		8/2
· · · · · ·		11404		18.35	1.11.	<u>`</u>	- 34	0.0010	· · · <u>-</u> · ·	·	9
	10 SP	21788	_	8 • 24			19	0.0010	· , - · -		10.
		28144	. - ,	13.27	-	. 	. 26	0.0010	: ` _	<u></u>	11
	2 PD "	10976	_	6.34	1.25		17	0.0010	-	·	12
	.3 DM	75460	- .	. 11.95	- `	- .	24	0.0010	· · · · · ·		. 13
	[4 " ВК ; .5 ВК ;	52860		14.28	1.06	-	27	0.0010	-	·	14
t	•	25691	-	13.80	·		27	0.0000			1.5
	.6 BC	⁷ 5750	-	.14.45		- .	30	0.0010		-	16
	.7 DK . .8 8S	61.59 20339		22.48	1.17		39	0.0010			17
	.9 BP	9752	_	19.17		_	34	0.0010		, . –	[18] :]
•	O KC	90090 9135	_	13.57	1.46	_	29	0.0010	., 		19
	l Im	20896		15.72	1.08		29	0.0010		-	20 \
	2 PS	63060		12.10 11.23	3. C7	,	24 ·	0.0010	, - ,	. - .	21
	3 SMP	78260	· .=	11.23	· <u> </u>		23 23	0.0010	<u></u>		22
	8 NK	54060		25.59		· <u> </u>	42	0.0010			23
3	0 PSR	9446	· _	12.63	1 - 08			0.0010	_	_	28
3		27586	- .	9.38	1.08	Ξ.	25	0.0010		·. -	30
	3 LS	59460	· _ ·	5.51		_	20 15	0.0010		ų·	31
	5 HM	23684	_ • ;	16.87	1.10		31	0.0010			-33 -35
	7 ASD	17551	⊸ .	12.97	1.10		. 26	0.0010	<u> </u>		37
4		6415	·	10.53	1.43		. 25	0.0010	· · ·,	, <u> </u>	41
	2 LP 1	23461	_	12.42	1.11	· `-	25	0.0010		_	42
j 4		11098	_	12.68	1.15	<u> </u>	26	0.0010	··· ·· <u> </u>	`	43
. 4		8895 -		18.12	1.18	_	34	0.0010	· <u> </u>		44
4		26025	` . _ .	12.37	1.2C		26	0.0010	· •	· • <u>·</u> ·	45
ેં 5		9996	`	15.65	_	_	29	0.0010	• -	, _	50
(5	1	24687		7.96		·	18	0.0010		·- · · · · <u>-</u> - · ·	51
•	•		•_		•••		·		•	٠ ر	
	" τοτ	AL	* ***	693.35		7.7.1	342				
÷			•	,	,	÷-		•	•	•	
				Ţ. · · · · · ·	. , ,			*** - • • • • • • • • • • • • • • • • •			
<u> </u>	• .			•	•	- ' .	,	• • •	•	*	
	G. E. Park		y		***	·	r 				
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Stranger		1 75 mg		erit e							

CALCULAT		RNATIVE						
TANDEM			• •	•	,	•	-	
	 		 		• • • ••			• -

• • • • • •				1 – 11	;						
J	NAME	. cin	C/P	AIJ	_ V/M	MG	, MIN	EIJ	OFL	VAR	ROUTING
. 1	ΤK	22680	· _	22.95	,,	_	39	0.0010	_		1.
2/1	sa l	~ 21677	· · · · · · · · · · · · · · · · · · ·	33.95	1.23		54				2/1
2/2	SR 2	, 21,677		33.95	1.23	_	54	0.0010	_	· · _ \	2/2
72/3	SR 3	21677		33.95	1.23	· - -	54	0.0010	· - · · · - · · ·		2/3
3/1	sw 1	20004		18.28	1.78	_	38	0.0010	-	· •	3/1
3/2	sw 2	20004	· · · · · ·	1.8.28	1.78	~_ ~	[*] 38`.			*****	3/2
() 3/3	SW 3	20004	<u> </u>	18.28		_	38	0.0010	_	·	3/3
4/1	PL 1	9874		27.67	1.46		48	"0.0C10			4/1
4/2	PL 2	9374	· _ ·	27.67	1-46	_	48	0.0030	•	· · _	4/2
5	" TH 2	26025		29.C4	1.16	·· – ···	. 48	0.0010	<u>-</u>		5
6/1	PY 1	21342	_	51.34	1.15	_	- 75	0.0010		-	6/).
6/2	PY 2	21342		23.30	1.08		:::: 4 c."		·		6/2
7/1	KK I	19335		26.33	1.34	_	46	0.0010		,	7/1
7/2	* KK 2	19335	<u></u>	26.33	1.34		46	0.0010			7/2
8/1	CP 1	5801	- : . · <u>-</u>	16.20	1.47		33	0.0010	_	_	8/1
8/2	CP 2	5801		16.20	1.47		33	0.0010	. :		.8/2
. 9	TM	10731	· -	35.42	1.29	_	57	0.0010			9 -
10	SP	21342	`` <u>_</u>	14.09	1 • 2 7		27	0.0010			10
j	NWW .	58860		. 14.44	1.03	_	. 27	0.0010	. -	•	10.
11					1.02	. : -	⁵	0.0010	<u> </u>		, , , , , ,
				8.43	_	- ,			_	-	12
13	DW.	82860	· -	22.38	·		38	. 0.0010		_	13
1.4	BN "	6466		19.34	1.44	, –	37	0.0010	_	,• –	14
15	BK -	25816		32.00		_	50	0.0016			15
1.6	ВС	729705	· = `	20.84	_	_	36	0.0010	. –		16
$\bigcap_{i\in \mathcal{I}} 17$	DK · .	30597		27.78		ͺ	45	0.0010			17
1.8	n S	26806		29.05	1.C8	_	47	0.0036	_		18
19	BP	24576	-	23.32	1.1:	-	40	0.0010			19
20	KC	21788		23.57	1.13	_	40	0.0010	_		20
21	IM	20673	· -	18.49	1.06		33		. –	- , . - ,	21 \
22	PS	1.00.58	· ,	15.27	1.28		31	0.0030	-	_	22
23	SMP	23461	_	33.08	1.04	٠ سـ ٠ ٠	51	0.0076		-	23
30	PSR	61060	****	6.94	· —	-	17	0.0010	-	· -	30
31	LP 2.	20450	. -	23.35	-1.C1		39	0.0010		-	31
4 33	LS	~ 66860	. —	12.80	-		' '25	0,0010	· . —		33
. 35	_HM	8283	-	12.01.	168		, 28	0.0030		-	35
37	ASD	114C4	· - ·	24.20	1.18	_	42	0.0010	_	-	37 ·
41	CHW	30485.	_	17.38	-	-	31	0.0020	- '	_	41
42	LP 1	` 2424ī ·		23.14	1.07	··	" _. 39`	~0.0010			42
43	TC	20004	₩,	24.25	1 • C4	- `	40	0.0010	, –	_	43
44	ρTW	17997	· 🕶 、 ʻ	28.00	1.04		` `45	0.0010	· · · · ·	· · · · -	44
45	pKN	0	-	33.94	1.20	·	54	0.0010	_	• -	45 `
50	SS	23461	· •• ' • •	27.84	· - ·		~ 45	0.0010			50
51	NN	57460,	· •	12.34	. –	_	25	0.0010	• -	_	51.
	"TCLL"	0.,		10.00			21	0:0010			. 0
17 1	SPS	0		2.50	·	**	7	0.0100	.—	_	111
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TOTAL 1015.88 1768

		CALC	ULATION	FOR	ALTERNA	TIVE	ROUT	ING	NETWORK	BANGKOK T	HAILAND
		TAND	EM 7	SYS	STEM	C 4CC	•			•	•
• •	. J	NAME	CIJ	C/P	LIA	, V/N	МО	ИIJ	. EIJ	CFL . VAR	ROUTING
	! 2/1	TK SR 1	6518 6057	-	4.24	1.64	_	16 37	0.0010 0.0010		- <u>1</u> - 2/1
	2/2	SR 2	6057		16.10	2.23	_	37	0.0010		- 2/2
	2/3	SR 3	6057		16.10	2.23		37	0.000.0	<i>,</i> · · .	- 2/3
	3/1	SW 1	0,71	_	3.0.05	1.61		25	0.0010	·	- 3/1
·· ·	3/2	5W 2	Ö	-	10.05	1.61	<i>-</i> .	25	0.0010	_ · · · -	- 3/2
•	3/3	SW 3	0	•	10.05	1.61	_	25	0.0010	 .	- 3/3
	4/1	PL 1	6518	•	18.54	2.17		41	0.0010		- 4/1
,	4/2	PL 2	6518	_	18.54	2.17	_	43	0.0010		- 4/2
	5	TH 2	9262	· <u> </u>	18.79	2.24	_	40	0,0010	 .	- 5 .
	6/1	PY 1	9752		30.32	1.25	_	· 50	0.0010	·	
•	6/2	PY 2	9752 "	<u>-</u>	9.24	1.40	_	. 53	0.0010	: = .	- 6/2 · · ·
•	7/1	KK I	6518	_	20.75		_	42	0.0010		- 7/1
	7/2	KK 2	6518		2C.75	1.95		42	0.0010		- 7/2
	8/1	CP 1	10731	_	17.79	1.96	_	38	0.0010	<u> </u>	- 8/1
	8/2.	CP 2	10731	٠ _	17.79	1.96		38	0,0010		- 8/2
	9	TN	5852	_	11.51	2.33	_	3)	0.0010	-	- 9
-	10	SP	8589		16.68		_	30	0.0010		- 10
	11	NWW	26816	_	22.46	_		38	0.0010		- <u>1</u> 1
	1.2	PD PD	261.37		13.47			26	0.0010	· · · · · · · · · · · ·	- 12 ""
	13	DM	70460	_	15.54	_	-	29	0.0010		- 13
	14	BN	25245	_	13.70	1.57		30	0.0010	- , ` -	- 14
	15	BK	22963		24.08		_	40	0.00%	·	- 15
	16	вс	11282	-	27.67	_	_	45	0.0010		- 10
	1.7	Dκ	181(9		7.94	1.32	_	20	0.0010		- 17
	าล	BS	19061	· _ ·	11.23	1.44		26	0.0010		- <u>1</u> 8 .
•	19	BP	5874	-	9.81	1.62	-	. 25	0.0010	·	- 19
	20	КC	29259	_	30.89	_	_	48	0.0010	- '.	- 20 .
•	21	IM	11404	_	23.17	_	_	39	0.0010	- .	- 21
	22	PS	52260		22.28	_	_	38	0.0010	 .	- 22
→	23	SMP	67460	-	22.28	_	_	38	0.0016		- 23
	30	PSR	23349	_	9.21		_	20	0.0010		- 30
	31	LP 2		_	11.59	-	_	24	0.0010		- 31
	33	LS	54460	_	9.62	_	_	21,	0.0010	 .	- 33
	35	нм	17663	_	11.89	1.62	_	28	0.6616		- 35
1	37	ASD	8344	-	14.71	1.72		32		- · ·	- 37
-	41	CHW	3.8666	_	11.36	1.28		25			- 41
	42	LP 1	20673	_	8.27	1.32		123		- · · · · ·	- 42
)	43	TC	55 96	-	6.36	1.70		-20	0.0610	_	- 43
	44	PTW	5494		10.79	1.70		27		. - '	- 44
	45	PKN	20004	-	8 - 21	1.58		22		-	- 45
,	50	SS	9262		5.94	1.33		17		<u> </u>	- 50
	51	NN	24910		13.47	<u></u>		26	0.0010		- 51

TOTAL 648.60 1343

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LETTER ON TRAFFIC DATA

The Nippon Telecommunications Consulting Co., Ltd.

3-3, UDAGAWA-CHO, SHIBUYA-KU, TOKYO, JAPAN

CABLE ADDRESS: TOKNITOCO TOKYO PHONE: TOKYO 462-2221

Bangkok, June 9, 1972.

Director of Planning and Project Department Telephone Organization of Thailand, Bangkok.

Dear Sir,

Your revised traffic data for Junction Cable Network Design has been received on June 1st, 1972 and wish to inform you that we are still in doubt of several items for which, according to our understanding, shell be meant as per the following:-

- 1) Satellite Office shall comprise of 5 exchanges, namely, RS, BCH, RID, NK and PTN exchanges with parent office at PY exchange for RS, BCH, RID, and PTN exchanges and parent office at TH exchange for NK exchange.
- 2) The estimate of number of subscribers in BK exchange for future demand is as follows:-

For	1976	•••••	5,000	Lines
For	1980	•••••	3,200	Lines
For	1990	••••••	5.500	Lines

The number of subscribers decreased in the year of 1980 is due to the establish of a new exchange office adjacent to the existing office.

3) The connection between Special Service Centre and various exchange offices shall be as follows:-

SW Centre: to be connected with TK, SR, SW, PC, PY, KK, MM, SP, IM, ASD, SKV, TC, PTW and SS exchanges.

PKN Centre: to be connected with CP, BN, KC, PS, SMP, BCH, ON1, ON2, HM and PKN exchanges.

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The Nippon Telecommunications Consulting Co., Atd.

3-3, UDAGAWA-CHO, SHIBUYA-KU, TOKYO, JAPAN

CABLE ADDRESS: TOKNITOCO TOKYO PHONE: TOKYO 462-2221

-2-

CHW Centre: to be connected with TH, PD,BC, DK, BP, NK, PSR, BKT, CHW, MSK and PPJ exchanges.

IS Centre: to be connected with NWW, DM, BKN, BS, RS, IP1, IP2, PK, PTN, RID, SDM and NN exchanges.

4) Toll Service shall be rendered by KK exchange as usual.

Your confirmation to our above understanding will be highly appreciated,

Yours Very Truly,

Nippon Telecommunication Consulting Company, Ltd.



Bide In

Department of Planning and Project Telephone Organization of Thailand

June 23, 1972

To Mr. H. Sane Nippon Telecommunication Consulting Co. Dusithani Building

Dear Sir.

With reference to your letter dated June 9, 1972 requesting for confirmation on informations which you extracted from the revised traffic data, we are glad to confirm them as follows:-

- 1. The five exchanges mentioned in item (1) shall remain as satellite effice upto 1976 only.
 - 2. Correct as per item (2).
- 3. Correct as per item (3), the letter IS may be mistake, this should be IS.
 - 4. Correct as per item (4).

We hope that the above ensuer would satisfy your requirement.

Thank you for your kind assistance.

Yours truly

(Mr. Boonchoo Phienpanij)

Direct of Planning and Project Department.

ANNEXED B

DIAGRAM OF INTER-EXCHANGE JUNCTION LINES PLAN

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· · · · · · · · · · · · · · · · · · ·	K IOL - 102 111 166		
	K K T I Δ 36 33 39 P Y T 2 Δ 41 40 52		
	LS T4 a 27 34 5:		
	PKN T 6 4 48 55 72 S W T 7 4 40 36 46		
	- K K TEST X 40 44 70 MISC (0BS) X 5 5 5		
	SP (T7)4-19-22-35		
•	DM (T 4) a -24 -28 -41 BK (T 4) a -27 -19 -29		
•	— SMP(T 6) 4 -23 -26 -38 — RS (T4) 4		
**	BCH (T 4) <u>A == -22 -36</u>		
	PK (T4)A		•
·	N N (T 2) <u>4 -18 -26 -44</u>		
	PTN (T 4) 4		
1	MISCITKE) I I I		
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	•		

PY(T2) EXCHANGE SUB. 15,000-15,000-18,000 EX. NO 6 ILT | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2 (76) (80) (90)

TK (17)

TK (17)

A 24 41 59

X A 129 117 102 100 108 98

SR (11) X 102 9 84 9 31 69

X A 114 120 84 9 87 135

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TH (17) RS DM SDM RD BCH LS BK NWW PK PTN LP-1 LP-2 (76) (80) (90) ---- 11 db ---- 11db ---- 6db ---- 4db ---- 3db ----METALLIC WIRE - ---- DIRECT LINE → NK (15) △ - 16 21 → NK (16) X △ - - - - 48 10 45 → PSR (15) △ 17 33 41 MSK (15) A - 21 · 27 LKB (16) A - 23 · 23 SDM (14) A - 23 · 23 FDJ (15) A - 14 · 24 X a 3238 4032 6740 54 28 42 46 - -KK OBS (TKE adb) X KK SPS X

-7-

EX. NO. 7 KK & TI EXCHANGE	
PPJ PD BKT DK CHW NK MSK PSR BC TH SR (76) (80) (90) 11 (76) (80) (90) PTW SS BP SWTK TC SP PL ASD MM SKV CP HM KC ON-ION-ZLKB PKN BN PS BYP SMP PY BS NN IM LP-ILP-2 BK NWW PR	C PTN LS RID BCK SOM DM RS
17179 19891 294 1334X SR (TI) c	
—— SW(T7) * X 77.65 183.71 267107	
PL (T 3) • X 11444 122.48 218 92 X 118 126 224 TH (T5) - TH (T5)	NOTE
59 65 94 X	x11 db
X 54 54 63	A 6db
—— CP (TG) • X 11443 13655 —— X 68 68 60 —— MM(T3) • X 5723 5723 10745	• 4db
X 34 34 61 SP (17) • X 229 2711 4519	V 3db X METALLC WIRE
14 17 27 * X 3313 3313 4719 X 20 20 29	o DIRECT LINE
229 2711 42 17 •X PD (T5)	3.11.25. <u>2.11.2</u>
— → DM (T4) • X 229 27 11 4017 X 14 17 25	
BN (T6) • % 5723 57 23 54.35 X 34 34 49	
3815 3815 7129 X 20 15 22 3815 3815 3815 3815 3815 3815 3815 3815	
29 31 46 X 3 5723 6627 138.59	
— 8 P (TI)	
K C (T6) X 4719 61 25 8937 X 29 36 51	
→ I M (TZ) • X 3815 80.33 129.55	
PS (T6) * X 33/3 5723 84/35 X 20 34 49	
SMRT6) X 3313 3815 5623 20 23 33	
— RS (T4) X 7 11 20 — BCHTA) • X 92 251 4017	
ON-2(T6) • X - 3515 75 31	
92 17.7 22.9 X - 22 44 7 11 14 NK (T5) • X	
ON-1 T6 X 4719 10243	
11 23 34 PSR(T5) X	
L P-2(T2) • X 22.9 5221 80.33 X 14 31 46	
PK (T4) * X - 2511 3815 - 16 23	
LS (T4) • X 17 7 2511 4719 X 12 17 30 — HM (T6) • X 47 19 84.35 155.67	
X 29 49 87 x 92 241 4277	
— NO(14) X 7 15 26 — A SINTEL • X 33.13 102.43 159.69	
BYP (T6) X 219 27:11	
4017 75 31 × 9130 13859 X 53 77	
- 25 44 B KT(T5) X	
33.13 52.1 98.41 CHW(T5) x X 20 31 56 CHW(T5) X	
LP-KT2) • X 33.13 6627 12Q51 20 39 68 	
TC (T7) X 20 44 61 PTW(T1) × X 33.18 12055 20394 20 68 112	
- PKNITS: • X 33.13 66.27 I 02.43	
2311 2913 × X	
LKB(TE) X - 13 13	
SDM(T4) X - 16 20	
- 15.7 2611 - PPJ(T5) • X X	
SS (TI) • X 33.18 5728 12458 X 20 34 70 X 22 9 331 5723	
NN (T2)	
<u>X 7 H 20</u> <u>→ PY T2 Δ 76 58 76</u>	•
- PL T3 Δ 48 54 56 - LS T4 Δ 42 86 92	
— TH 15 \(\to \) — PKN 16 \(\to \) 92 132 134 \(\to \) SW 17 \(\to \) 84 70 68	

-8-

NOTE	·	O DIRECT LINE
EX.NO 8 CP EXCHANGE (T6) SUB, 20,000 20,000-25,000 SWP PS BN PKN ONE ONHITPS (150) [90) TK (T7) X 234 160 210	SW (17) X_2100 150 65 165 69 P. (17) X_1240 160 145 X_20 28 28 32 T (13) X_20 39 46 Y_1 (13) X_20 39 46 Y_20 30 30 46 X_20 30 46 X_20 40 46 X_	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

NO ST	NOTE X 114b A 6 4b • 3 4 b X 116TALLC WIRE O 0IRECT LINE			0 1
EX.NO 9 MM EXCHANGE (T3) SUB. iO,000 — 10,000 — 21,000 — 21,000 — 10,000 — 10,000 — 21,000 — 10,000	2 2 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3		SW(13) X = 19 32 4 12 17 X 12 19 32 4 12 17 X 12 19 4 12 17 X 12 19 18 17 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	5 T T T T T T T T T T T T T T T T T T T

	CV PKN	х х эт : 	5 db db db db db db db db db db db db db	V 3 db XWETALLIC WIRE	O DIRECT LINE		- 12
EX. NO.11 NWW EXCHANGE (T4) SUB. 5,000-5,000-8,000	(90) SR (T1) X 42@ 33@ 46@ PL (T3) X 20 PY (T2) X 36 16 27 KX (T1) X 26 19 36 BP (T1) X 10 BP (T1) X 10 BP (T1) X 12 M (T2) X 14 S5 BP TH KK PTW SR SW PL ASD SKV PKN SR (T2) X 36 19 36 M (T2) X 10 SR (T2) X 10 BP (T1) X 10 BP (T1) X 10 BP (T1) X 12 Z 14 S5 14	(T2) $\frac{x}{x} = \frac{13}{13}$ (T2) $\frac{x}{x} = \frac{10}{13}$ $\frac{x}{x} = \frac{10}{2}$ $\frac{30}{x} = \frac{10}{2}$	(T1) X — 13 X 13 16 30 (T1) X 13 16 32 X 31 35 65	(T2) X.25 26 43 (T4) X X 20 20 29 TOLL 33 33 47	X 6 6 9 4 13 102 113 4 17 18 28 Δ 43 39 41 Δ 28 26 37	PKN 16	
	PTN PK (76) (90) (90)			1 0		, -	

	NOTE X i db. A 6 db • 4 db V 3 db X METALLIC WIRE O DIRECT LINE	
EX.NO 12 PD EXCHANGE(T5) SUB. 3,000-4,000-7,000	SW (TT) X 33 40 SW (TT) X 30 33 40 SW (TT) X 10 10 10 10 DX (TTD) X 10 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 10 TH (TS) X 10 10 TH (TS) X 10 10 TH (TS) X 10 10 TH (TS) X 10 10 TH (TS) X 10 10 TH (TS) X 10 10 TH (TS) X 10 10 TH (TS) X 10 10 TH (TS) X 10 10	
	PPJ (76) (80) 190)	

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13 DM E X CHANGE (T4) SUB. 3,000-4,000 6,500 (75) (80) (90) SOM LS LPI KC PY BS IM SS KK TH SW PTW PL ASD SKV HM PKN SR (1 -	N	
EX. NO (80) (90) PL (73) RG (75) MR (72) MR (72)	RS (T4)	

	NOTE A 64b O 94b A 34b O 0 INECT LINE	
	#;	
0		
EX. NO 14 BN EXCHANGE (T6) SUB. 10,000-10,000-16,000	5 2 2 3 1	
0001-0	E	
B. 10,00	THE OPE IN SKY PL ASD MM PTW SW TC SP TH KK PY IN	
re) su	30 Mg %	
ANGE (OSS NAM PT	
3N EXCH	d	
NO 14 E		
EX.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(76) (76) (76) (76) (76) (76) (76) (76)	
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	8 4822	
	BYP SMP PS (76) [60] [90]	

	нм Рки	NOTE X 11db	4 • • • • • • • • • • • • • • • • • • •	V 3 db	O DIRECT LINE	
EX.NO.15 BK EXCHAGE (T 4) SUB. 5,000-3,200-5,500	LS ('76) ('80)('90) SR (T1) X 30(3)—(9)—(9)—(9)—(9)—(9)—(9)—(9)—(9)—(9)—(9	(T3) X 1 17 17 18 18 12 12 12 12 12 12	<u> </u>	X 20 15 TOLL X 33 23	F F T T T T T T T T T T T T T T T T T T	5 5 5 M K S PS X 5 4 6

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LPI LS PTW	X11 db A 6 db T 8 db A 3 db X METALLIC WIRE	-21-
16 BC EXCHANGE (T5) SUB. 6,000-6,000-13,000	©	(5)
}	** ** ** ** ** ** ** ** ** ** ** ** **	SKV II BKT II BKT II BKK KK KK KK KK KK KK KK KK
MSK PSR (76) (80) (90)	2 = 1 = 2	=

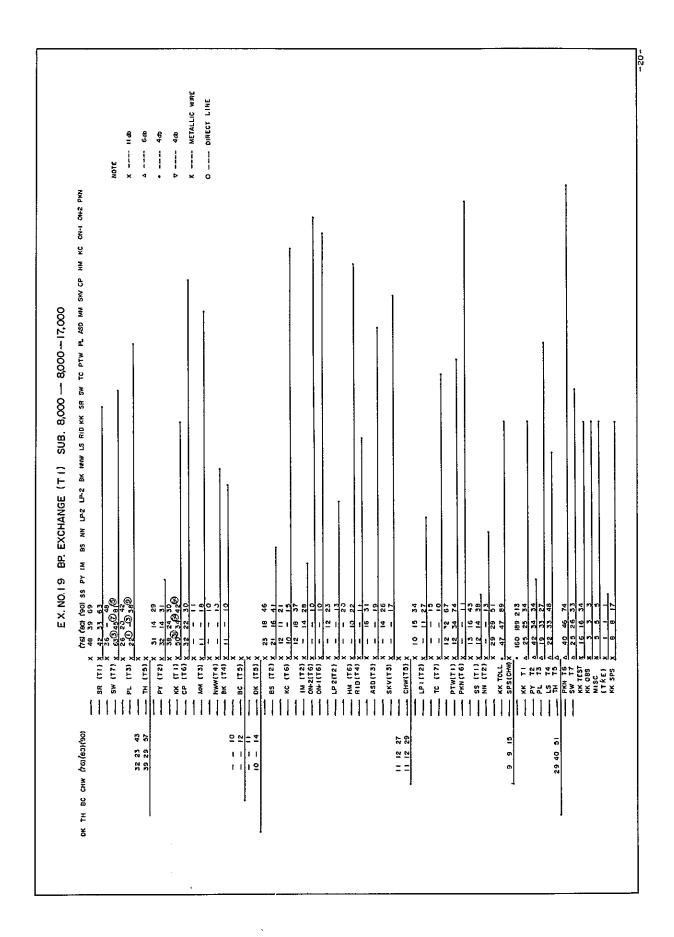
·

NOTE X 11 db	A 34b A DIRECT LINE O DIRECT LINE
EX.NO.17 DK. EXCHANGE (T5) SUB. 8,000—9,000—13,000 PD BKT 1778 1878 1879 18 18 18 18 18 18 18 18 18 18 18 18 18	

EX . NO.18 BS EXCHANGE (T2) SUB. 10,000-12,000-28,000

ии (76) (80) (90)	(1/6) (6/0) (9/0) PY IM LP-1 LP-2 BK NWW PK PTN LS RID BCH SDM DM SS BP CHW BC PSR TH DK BKT KK PTW SR SW TC PL ASD MM SKV CP HM KC ON-1 CN-2 PKN BN PS 54(0)48(a)99(a)
SR (TL)	<u>x_46¹⁰45¹⁰96¹⁹</u>
SW (T7)	× 630 54 059 × 540 939
PL (T3)	× 423 345 866 x 369 265 76
	X 23 19 39
	X 33 17 40
	X 60 47 74 X 56 22 654 60 X 32 32 40 34 60 X 37 32 32 34 60 X 37 32 32 34 60 X 37 32 32 34 60 X 37 32 32 32 34 60 X 37 32 32 32 32 32 32 32 32 32 32 32 32 32
CP (TG	X 24 20 30
MM (T3)	$\frac{x}{x} - \frac{18}{15}$
	X 24 18 36 X 23 19 35
—— DM (T4)	$\frac{x 13}{x - 11}$
—— BN (16)	X 15
BK (T4)	X 12 — 13 X 19 11 21
	X — — 13 X — — 11
—— DK (T5)	x 15
	X 21 16 41
	X 23 18 46
KC (T6)	X 15 15 28 X 15 27 59
IM (T3)	X II 19 43 .
PS (T6)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	<u>x 16</u> <u>x 10</u>
	<u>x 17</u> <u>x 10</u>
	x — 16 34
	X 14 28
PK (T4)	<u>x 16</u> <u>x 16</u>
——— HM (TG)	X — 12 31 X — 10 23
RID (T4)	<u>Y - 14</u> Y 12 32 67
ASD (73)	<u>v — 18 39</u>
SKV (T3)	Υ — 26 55 Υ — 15 33
	$\frac{x 14}{x - 10.24}$
— CHW (T5)	X — 15 X 14 24 58
— LP-1 (T2)	X. 17 29 72
—— TC (T7)	X — II 20 X — — IB
	X 13 45 104 X — 24 58
PKN (16)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	x 21@30@91@
15 18 44 NN (T2)	
	X x — — 18
PTN (T4)	
KK TOLL	• 57 65 138
	X 10 18 22 • 166 221 218
	<u>4 30 24 33 </u> <u>4 33 30 44 </u>
PL T3 /	Δ 29 27 34 Δ 20 43 72
- т н тэ	Δ 34 42 56
SW 17	<u>47 51 74</u> <u>a 26 30 38</u>
KK TEST ?	X 20 24 56 X 3 3 3
M1SC 2	x 6 6 6 Y 10 12 28
KK SPS	\ 10 Iç 60

NOTE



ļ	NOTE X 11 ab	φp9 φ	4db	d be b	K METALLIC WIRE	O DIRECT LINE																			
TO NO 20 NO. 20	kl× xl:	PY (T2) X	KK IT 1) X 28 29 32	X 6 1 6 5 X	Hith (T3) X 10 11 12 12 13 14 15 15 15 15 15 15 15	DK 1131 X 11 X 12 X 12 X 13 X 14 X 15 X 15 X 16 X 15 X 16 X 16 X 16 X 16	l× xl:	××I×	• ∵ ∪	0/12/76/ x 10 10 10 10 10 10 10 10 10 10 10 10 10	1 P2 (T2) X 10 21 29	11.1 X 15 24 40 HI (T6) X 12 19 32	X 1 18	A50(73,X 2) 11	SKV (* 3) X 10 14	PTW(T1)X 27 43	PKN(76)x 16.23	KK (72)	PY 72 <u>a 36 27 30</u> - PY 72 <u>a 36 27 30</u> - PY 72 <u>a 35 24 425659</u>	17 15 0 29 40 51 - 17 15 0 29 40 51	PKN Te A	KK '0' * 47 61 89	P.S. X 11 KV TEST X 16 22 34	MOCKEDS/X 3 5 5 5 MCCKEDS/X 1 5 5 5 T T T T T T T T T T T T T T T T	KK 5F8X B 11 17

EX. NO.2! 1M EXCHANGE (T2) SUB. 6,000-15,000-26,000

free free free and a second of the free free free free free free free fr
(76) (80) (90) PY 8S NN LP- LP-28K NWW LS RID BCH DM SS BP CHW BC TH DK KK PTW SR SW TC PL ASD MM SKV CP HM KC ON-10N-2 PKN BN PS S. $X = \frac{36}{51} \frac{654}{9}$ SR (TI) $X = \frac{35}{51} \frac{654}{9}$
SR (TI) X - 433 451 45 X 30 651 675 6
SW (T7) X = 239 360
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
X II 17 27
TH (T5) X II 19 30 X I3 30 36 PY (T2) X 26 43 51
X 13 30 36 PY (T2) X 28 43 51 X 24 636 635 63
X 24 (136 236 236 236 236 236 236 236 236 236 2
X 24 30 CP (T6) X 20 30 36
x - 12 25
MM (T3) $\frac{X 13}{X - 14}$
NWW (T4) X — 12
DM (T4) $\frac{X 10}{X 15}$
BN (T6) X 14 X 12
6K (T4) X 14
BC (T5) $\frac{X 10}{X 10}$
DK (T5) X 12
65 (T2) <u>X_15 27 59</u>
X — 14 28 BP (TI) <u>X 12 18 37</u>
X I5 29 43
KC (T6) X 16 29 43 X 12 18
PS (T6) X - 10 16 X - 11
SMP (T6) X — 11
X - 10 17 BCH (T4) X 13
ON-2(TE) X 16
ONLITED Y
ON-1 (T6) $\frac{X 18}{X - 24 38}$
ON-1 (T6) X — 18 X — 24 38 LP-2(T2) X — 21 34
ON-1 (T6) X 18 X - 24 38 LP-2(T2) X - 21 34 LS (T4) X 16 X - 18 34
ON-1 (T6) X 18 X - 24 38 LP-2 (T2) X - 2 1 34 LS (T4) X 15 X - 18 34 HM (T6) X - 15 28 X - 15
ON-1 (T6) X 18 X - 24 38 LP-2 (T2) X - 21 34 LS (T4) X 16 X - 18 34 HM (T6) X - 15 29 X 15 RID (T4) X 11
ON-1 (T6)
ON-1 (16)
ON-1 (16)
ON-1 (16)
ON-1 (T6)
ON- (T6)
ON- (T6)
ON-1 (Te) X 18
ON-1 (T6)
ON-1 (Fig. 2 — 16
ON-1 (T6)

NOTE

X ---- IIdb

A ---- 6db

---- 4db

--- 3db

X ---- METALLIC WIRE

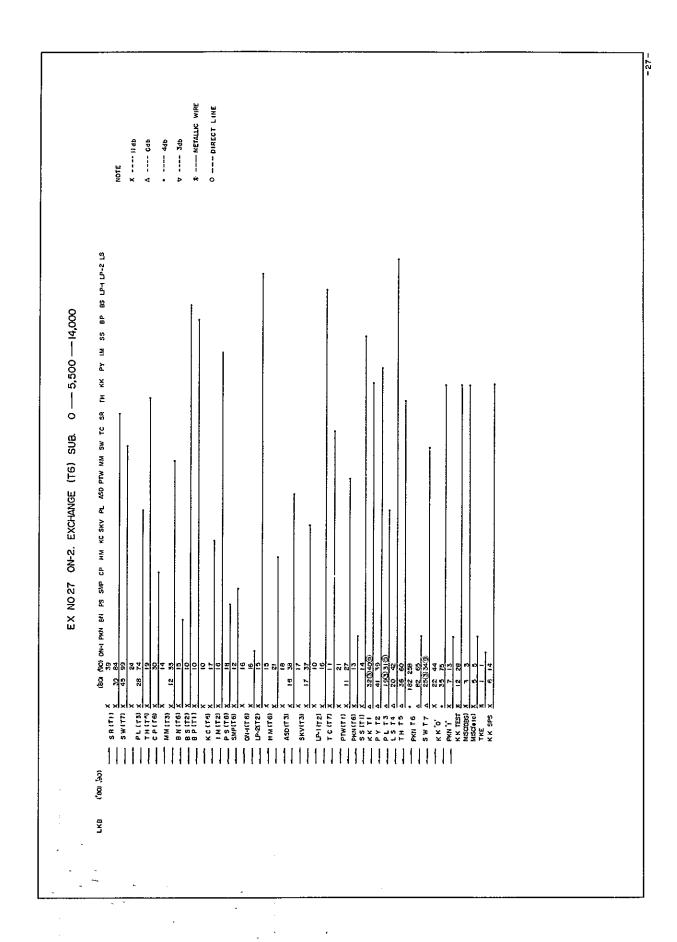
O ---- DIRECT LINE

		1	9 9	4 40	d db	X METALLIC WIRE	O DIRECT LINE																	
		NOTE X	0 q	4 4	d 5	*	0																	
	v,																							
	TH KK PU IM BS SS LP-I LP-Z BK LS										i													
	55 [-9-1										!							Ī						
-16,000	98 MI 93]															
10,000	¥			1																1				
- 000	¥ Sw SR														!						l			
SUB. 5	SW TC TI		ı																•		:			
(T6)	WTW PTW			İ		1																		
HANGE	V P. AS0		1																ļ					
PS EXCHANGE (T 6) SUB. 5,00010,00016,000	PKN CN10112 HM KC CP SKV PL ASO MM PTW SW TC															}								
EX NO 22	1 OH Z HM									i														
ШX	줆						,										İ							
	(80) (90)	42 60 33 48	22 44	1 1 2	34 40	- 1	26 31 44 22 27 39 17	1 1 2	2 2	1 4	26 47	5 =	7.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	14 20	2 2 3 2 2 3 3 2 3 3	2 <u>2</u> 2	34 29	24 35	237 242 57 66	34 49	20 G	W 0	10
;	, E	S x (11) ws	× ×,	< XIX	IX X	IX XI	××IX	XIXIX	XIXX	. ال	× × ×	×××	×××	بعلعة		_×		KK (T1) A 37			ا مراما	. J.J	LJ.J.	× ×
:	¥8	;	P. (73)	TH (TS)	(9£) 45	MM(T3)	BN (TG)		SMP176)	04.2(76)	[P-2(12)	ASD(T3)	BVP(116)	SKV (T3)		PTW(TI)	88 (T)	¥5	23			 	MISC(OBS)	K SK
	11,901,600				1.				21 30				2 2			•		•	•		•	` .		-
	BUP SMP ("761('803('90)								ā <u>ē</u>															-
	ã ` ₹.					,				:		-												
, •	-									,														

EX.NO.23 SMP EXCHANGE (TG) SUB. 5,000—6,000—9,800 x	ON-1 ON-2	NOTE X 11 db A 6 db Y 3 db X METALLIC WIRE O DIRECT LINE
I	EX.NO.23 SMP. EXCHANGE (TG) x (76) (bo) (bo) PS BYP BN PXN CP HM SKV (T7) X = 30 (T3) X = 30 (T3) X = 20 = 30 (T3) X = 20 = 28 (T4) X = 10 = 28 (T5) X = 10 = 28 (T6) X = 20 22 (T6) X = 10 = 12	8

- 24 -

	x 11 db Δ 6 db υ 3 db x METALLIC WIRE Ο DIRECT LINE	1500 -
EX. NO. 24 RS EXCHANGE (T4) SUB, 8002,0005,000	Ye (30) (60) DM SDM LS LP PY PL PKN KK PTW SW TH Ye 20 43 Ye 20 43 Ye 20 43 Ye 20 43 Ye 20 43 Ye Ye 20 43 Ye Ye 20 43 Ye Ye Ye Ye Ye Ye Ye Y	
	N	



EX. NO.28 NK EXCHANGE (T5) SUB. 6,00 — 2,000—3,000 11			NOTE	qp 1 − − − ×	db 6	446	9 3 db	X METALLIC WIRE	O DIRECT LINE
	2	. NO. KB NA	TH (T5) (76) (80) (90) CHW TH SW KK PY L3 KK TOLL X — 11 SPS (CHW) X 2 4 5 TH T5 7 11 14 SPS (CHW) X 2 4 5 TH T5 0 42 0.35 0.40 KK T1 0 16(2.29) PL T3 0 — 16(2.29) FR T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29) KK T0L 0 — 16(2.29)	SPS X 1 Z					

-28-

HDB 3U 5	A 1 1 40 • 4 40 • 3 40 × METALLIC WIRE 0 DIRECT LINE	
×××	1	

C	NOTE X 114b A 64b Y 34b X METALLIC WIRE O DIRECT LINE	108:
EX CHANGE (T5) SUB. 2,000—6,000—10,000	BKT SW PL ASO PKN KK PTW PY 85 LS MSK	
EX.NO 30 PSR E	X	
	SW (T7) PL (T5) BC (T6	

	11 d b 4 d b 3 d b 8 d b 11 BECT LINE	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	n	
-15,000	LS RIO BCH PY 85 IM SS 8P TH KK PTW SS SW PL ASS SW CP HM KC ON-1 OI-2 PRIN PS	
EX.NO.31 LP-2. EXCHANGE (T2) SUB. 3,000-9,000-15,000	2	
2) SUB. 3,00	SA P. ASD	
HANGE (T)	# H A A A A A A A A A A A A A A A A A A	
LP-2. EXC	SS E	
EX.NO.31	28 89 80 80 80 80 80 80 80 80 80 80 80 80 80	
	(75) [40] [40] [40] [40] [40] [40] [40] [40]	
	## ## ## ## ## ## ## ## ## ## ## ## ##	

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EX. NO.33 LS. T4 EXCHANGE SUB. 2,000 -- 3,500-8,000

RS DM SDM 8CH RID (76)(80) (90)	(76) (80) (90) BK NWW PK PTN LP I LP-2 PY BS N11 IM SS BP CHW BC PSR MSK NK TH DK BKT PD PPU KK PTW SR SW TK TC PL ASD MM ST SKV CP HM KC ON-1 ON-2 LKB PKN BN PS BYP SMP
TK(T7)	Δ 9 16 23 Δ 51 105 159
	A 55 114 141
—— IH (15)	59 76 87
	x 10 11 26
	Δ 42 66 92 Δ 38 62 76
мм (Т3)	a 24 25 46
SP (T7)	<u>a 10 12 19</u>
NWW(T4)	△ 17 19 20 • 113 102 115
—— PD (T5)	<u>A B 10 15</u>
14 19 27 DM (T4)	Δ
—— BN (14)	· 23 24 35
0K (%4)	• 92 132 149 <u>A 13 15 25</u>
DK (T5)	<u> </u>
# 8 S (72)	4 20 43 72
8P (-1)	A 22 33 48
	Δ 27 41 43
КС (Т6)	
IM (T2)	χ 16
PS (T6)	4 15 24 35
+ 16 27 ₋	Δ 15 17 25 Δ
RS (T4)	•
- 16 25 	Δ
— 141 170 BCH (T4) — ON-2(T6)	A - 20 42
NK (†5)	<u>a - 8 10</u>
ON-I(T6)	Δ - 26 42 Δ 7 15 21
LP 2(T2)	4 14 35 40
	4 - 22 23 - 69 103
HN (T6)	• - 89 103 Δ 16 44 44
_ 16 27 <u> </u>	<u> </u>
116 155 RID (T4)	
ASD (T.3)	△ 17 55 64 <u>x ¬ − 10</u>
BYP(16)	Δ - 11 14
—— SKV(T3) —— BKT(T5)	4 - 50 53
CHW(T5)	4 ti 18 32
	$\frac{4}{x} = \frac{14}{11} \frac{47}{25} = \frac{47}{11} \frac{55}{11} = \frac{47}{11} $
TC(T7)	<u>A 12 26 36</u>
	△ 22 66 76
	X 20 <u>A 17 36 55</u>
MSK(† 5)	<u> </u>
LK8(†6)	<u>a - 13 13 </u>
SDM(T4)	•
PPJ (T 5)	<u>4 - 7 H</u>
S S (TI)	4 13 44 66 x - ~ 16
NN(T2)	<u> </u>
PTN(T4)	6 — 17 22
_	x 12 17 30
K K TOLL	• 17 25 47
DV TD	△ 30①44₹₹₹₹₹ △ 29 34 31
01 77	4 19(1) 3 (3) 54(9)
T N TS	△ 15 21 39 △ 25 36 57
SW T7	4 21 ¹ / ₂ 67)46 ¹ / ₂
NWW SPS	<u>x 6 6 9</u>
5 6 8 D M(T4)	Y 6 5 7
—— B S (T2)	X 10 12 22
2 4 6 R S (T4)	X
LP-2(T 2) P K (T 4)	X - 5.7
2 5 8 RID (T4)	x
LP-1 (T 2) 5 6 SDM(T 4)	<u>X 6 12 19</u>
N N (T 2)	<u>x 5 6 10</u>
PTN(T4)	X 2 4 6
2 <u>5 8</u> BCH KK TEST	X
KK OBS	<u>x 3 3 3</u>
6 6 6 X MISC - 6 6 X MISC	<u>X. 6 6 6</u> x 5 5 5
<u>— 6 6 х</u> MISC	<u>x 5 5</u>
6KMISC	z - 5 5
	X 2 4 8
KK SPS	
	•

• ---- 4db

* -----METALLIC WIRE

KC (76) (80) (90)		(76) (80) (90) CP ON-LON-2PKN BN PS SMP CP SKV PL ASD MM SP PTW SW TC TK SR TH DK BKT BC CHW BP SS PY IM BS LP-LD-2 BK LS RID BCH DM
	TK (T7)	
	SR (TI)	60 87 150 _63 96 174
	SW (171)	48 63 105
	ì	93 123 219
	PL (T3)	38 50 106
	 тн (т.5)	50 72 160
	IH (15)	21 29 54
	PY (T2)	13 16 34
		13 16 33
	KK (T1)	
		20 26 30
	CP (T6)	48 60 84
	MM (73)	21 25 59
		24 30 70
	SP (T7)	_ = 18
	— ом 1741 7	= - 11
	RN (19)	1
	BK (T4)	
	·	10 - 14
	BC (T5)	14
	DK (T5)	- 13 - 10 23
	BS (T2)	- 10 23 - 12 31
	BP (T1)	- 10 22
		20
12 19 32	KC (T6)	
15 24 40		15. 29
	I M (T 2) ?	13 23
		- 15 25
		1: 26 47
	SMP (T6)	13
		10 14 26
	BCH (T4)	
	ON-2 (T6)	
		<u> </u>
	ON-1 (T6) >	- 13 35
		<u>- 26</u>
	LP2 (T2)	- 17 29 - 18 32
	RID (T4)	
		 13
	ASD (T3)	10 41 76
		<u>- 42 81</u>
	SKV (T3)	- 44 80
	- BKT (T5)	<u> </u>
	CHW (T5)	
	}	<u> </u>
	LPI (T2) 2	19_40
	TC (T 7)	
		13 22
	PTW (TI)	
	PKN (T6) 2	
	- PKN (16) 2	— 10 37 — 10 20
	;	<u> </u>
	KK T1 4	4 (0 43(9) 53(9)
	DV T2 4	47 31 33
	PL T3 4	281 33.9/49:3/ 16 A4 A4
	0 TA 4	31 57 67
	PKN T6 4	ł 13 149 174
		28 69 92
		28 (Ú 36 Ú 35 Ú 35 Ú 3 Ú 3 Ú 3 Ú 3 Ú 3 Ú 3 Ú 3 Ú
	кк "о" -	29 49 87 47 84 155
		16.32.64
	MISC (OBS)	3 3 3
		5 5 5
<u> </u>		
	KK SPS 2	8_16_32

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NOTE

NO NOT BEEN		Ĭ.	NOTE X114b 664b	•4 db •3 db ×METALLIC WIRE	O DIRECT LINE	
RID EXCHANGE (T4) SUB. 800-3,300 7,000						
EX. NO.36			2 0 2 L 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 24 2 37 37 46 6 39 4	0	
	В (12) ВР (Т1) КС (Т6) Н (12)	LP-2 (T2) HM (T6) ASD (T3)	PTW (T.)	KK T00L SPS (LS)	LS 74 KK 71 PL 75 TH 75 FW 16 SW 17 KK 7631 (ALSND) (MLSN) KK 5 PS	

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EX. NO.37 ASD EXCHANGE (T3) SUB. 5,000-20,000-33,000

(76) (80) (90) PL MM SKV CP HM KC ON I ON-2 PKN BN PS SMP SW TK TC ST KK PTW SR TH CHW BC PSR DK BKT PD SS BP PY BS NN IM LP-I LP-2 BK NWW PK LS RID BCH SDM	. DI. DC
	I DM KS
— ТК (Т7) <u>X 17 26</u>	
SR (TI) X 69 195 297 X 84 231 345	
X 64 ZI 345	
SW (T7) X 93 243 363 X 24 70 134	
PL (T3) X 30 62 150 X 13 35 54	
X 13 35 54 TH (75) X 15 41 63	
X 33 38	
PY (T2) X 16 58 65 X 26 64 64	
X 26 64 64 KK (TI) X 52 128 128	
X 24 56 68	
— CP (T6) X 38 86 104 — X 19 37	
—— SP (T7) X 13 22 X 13	
NWW(T4) X 12 16	
PD (T5) X 12	
X 10 15 DM (T4) X 10	
X 15 22	-
——————————————————————————————————————	
— BK (T4) X 11 17 25 — X 17	
BC (T3) X 10 18	
— X 13 — DK (T5) X 13 20	
X 18 39	
——————————————————————————————————————	
—— BP (TI) X 16 31	
X II	
— KC (T6) X 23 34 — X 14 23	
—— IM (T' X 37 59	
— PS (T6) X 20 33	
X 14	
— SMP(T6) X 15 23 SCH (T4) X 12	
BCH (T4) X 12 12 16 38	
CN-2(TG) X 18	
X 19 47 CN-1(T6) X 20	
X 10	
— LP-2(T2) X 20 30	
— PK (T4) X 10	
LS (74) X 10 X 42 81	
— HM (T6) <u>X 10 41 76</u>	
—— RID (T4) X 10 ————————————————————————————————————	
SKV (T3) X47_72	
— BKT (T5) X 11 — X 16 32	
—— CHW(T5) X 14 28	
X 24 44 LP-I(T2) X 33 61	
LP-I(T2) X 33 61 X 15 21	
TC (T7) X 32 47	
— PTW(T1) X 14 138 240	
PKN(T6) X 32 51	
SDM(T4) X 12 X 15 35	
SS (TI) X 28 61	
X 16	
NN (T2) X 14 X 20 59 89	
KK TOLL • 33 102 159	
SPS (SW) X 6 17 25 • 129 6228 6222 65	
• 129 0728 2722 9 PL T3 <u>\$ 17 030 41</u>	
KK TI A 36 (049 (360 (9)) PY T2 A 40 35 40	
LS T4 <u>A 17</u> 55 64	
TH T5 <u>A 26 49 46</u>	
PKN T6 <u>A 42 107 135</u> SW T7 <u>A 32 ()43 (353 (9)</u>	
KK TEST <u>X 10 40 66</u>	
KK OBS <u>% 3 3 3</u> MISC <u>% 6 6 6</u>	
MISC <u>x 6 6 6 6 </u>	

NOTE

X -- -- -- IIdb

A -- -- -- Gdb

-- -- -- 3db

X -- -- -- METALLC WIRE

O -- -- DIRECT LINE

	PS (T6) X 12		P. L.S.	TH T5 A	<u> </u>	C (1)		¥	P X x		. G	T KE	XX SPS X - 3 4
2 0	1 sa	⊼ Ţ	P. L.S.	¥	i	C (1)	:	¥	Z X	x	. G	T KE	XK SP

X ---- METALLIC WIRE O --- DIRECT LINE

φ ---- Δ

SMP PS BN PKN ON-I ON-2 HM KC CP (76) (80) (90)	(76 (90) 90) PL MM ASD PTW SW TK TC SP SR TH DK PD CHW BC KK SS BP PY BS NN IM LP-I LP-2 BK NWW LS RID BCH SDM DM
—— тк (Т7)	x 10 x <u> </u>
_ !	X — 102 153 X — 165 246
 :	x — 219 321
	X — 213 309 X 68 124
PL (T3) }	X — 72 120
	X — 33 50 X — 36 54
	X — 28 32 X — 49 54
	X — 49 54 X — 62 58
— 60 70 — KK (T1)	X
80 94 —— ср (тб) у	X X 18 35
—— мм (тз) ₂	x — 43 82
PD (TS) 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
DM (T4) 2	
— 16 22 —— X — 21 32 —— BN (TG) X	x x
EK (T4) 2	
—— вс (т5) з	x — — 16
—— ок (T5) <u>х</u>	X — 14 X X — 15 33
BS (T2) ×	
BP (TI) X	$\frac{x}{x} - \frac{17}{26}$
- 10 14 X - 24 33 KC (T6) X	K K
X	x — 12 19
— 15 22 — (M (T2) X	C C C C C C C C C C C C C C C C C C C
— 25 37 — PS (T6) X — 10 14 — X	
— 14 20 — SMP (T6) X — BCH (T4) ≥	
— 17 37 χ	•
— — 17 —— ON-2 (T6) X	
— 44 80 — LP-2(T2) X	
<u>— 37 67 — нм (тб) х</u>	
RID (T4) X	(1) (- 47 72
ASD (T3) X	<u> </u>
CHW (TS) X	<u> </u>
x	c — 20 38 c — 28 50
	(— 14 19 (— 28 40
_ x	x — 71 116
SDM (T4) X	
ss (TI) <u>x</u>	<u> </u>
—— NN (Т2) X	(— 53 77
KK TOIL -	- 91 138 (- 15 22
— sps (sw) 2	- 15 25 - 215 35 36 - 29 35 36
—— PL T3 ≜ —— KK T1 4	<u>4 — 29⊌39₩</u> <u>4 — 52364</u> ®
PY TZ <u>△</u>	A - 37 47 A - 50 53
TH T5 A	4 — 70 61
- 75 95 - PKN (T6) A	<u> </u>
KK TEST X KK OBS X	<u> </u>
I _ CP (T6) x	•
MISC(etc) X KK SPS X	<u> </u>

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NOTE

	NOTE X 11 db A 6 db • 4 db V 3 db X METALLIG WIRE	O DIRECT LINE	.04-
EX. NO 41 CHW EXCHANGE (T5) SUB. 5,000 — 8,800 — 19,000	(\$6) (\$0) (\$0) TH CK BK FD PJJ SR KK ASD FTW SW TC TK PL X 33 42 81 X 39 42 81 X 39 42 23 X 27 34 62 X 27 34 66 X 37 34 66 X 37 36 X	MT2 X 1 2 23 MT2 X 1 12 23 MT2 X 1 12 23 MMT6 X 1 12 MMT6 X 1 12 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 2 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1 3 MMT6 X 1	7 7 15

LP-2(76)(80)(90)	(76) (80) (90) BK NWW PK PTN LS RID BCH SDM DM RS PY BS NN IM SS BP CHW BC TH DK KK PTW SR SW TC PL ASD MM SKV CP HM KC ONI ON2 PKN BN PS TK 30 54 96
SR (TI) X	33 57 108
sw (T7) <u>\$</u>	の ⁴⁵ 9 ⁷ ⁴ 9 39 60 105
PL (T3) X	22 ₀ 36 ₀ 80 ₉ 28
— TH (T5) X	11 19 34 15 26 46
PY (T2) X	16 36 49 17 39 63
— KK (TI) X	220 329 369 26 38 46
X	- 22 30
CP (16) X	26 38 54 16
	- 12 27 13 18 30
DM (T4) X	15 16
BN (T6) X	18
—— » х —— вк (т4) х	10 10 18 12 12 20
BC (T5) X DK (T5) X	
	17 29 72 14 24 58
×	- 11 27 10 15 34
BP (TI) X	- 13 21 13 23 37
KC (T6) X	13 23 37 - 27 50
IM (T2) X	10 29 55 - 11 19
PS (T6) X	<u> </u>
RS (T4) X BCH (T4) X	
—— ON2 (TE) X	16 10
—— ОИI (16) X	14
- II 19 X - I7 30 LP2 (T2) X	
— РК (T4) <u>X</u>	13
LS (T4) X	<u> </u>
——————————————————————————————————————	<u> </u>
	12 - 33 61
ASD (T3) X	- 24 44 - 28 50
SKV (T3) <u>Ŷ</u>	<u> </u>
CHW (T5) X	16 18
—— TC (T7) X	- 10 17 - 11 21
—— PTW (TI) X	- 35 72 - 41 86
	_ 10_19
SDM (T4) X	12 - 22 61
== ss (TI) <u>X</u>	<u>- 19 51</u>
KK TOLL	20 39 68 33 66 I20
SPS (LS) X	6 12 19
PY T2 A	170 184 221 34 21 28
	35 39 51 26 25 38
— PL T3 <u>6</u> — LS T4 <u>6</u> — TH T5 <u>6</u>	14 47 55 25 50 62
PKN T6	39 66 82
	21 32 38 10 24 48
KK OBS X	3 3 3 6 6 6
TK (T7) X KK SPS X	II 5 I2 24
515 <u>R.</u>	

NOTE

X ----- IIdb

y ----- 6db

------ 3db

X ----- METALLIC WIRE

0 ----- DIRECT LINE

NOTE X 114b A 64b V 34b X 34b O DIRECT LINE

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(76) (80) (90) SW TK TC SP KK SR TH CHW 8C PSR DK BKT PD SS 8P PY BS NN 1M LP-1 LP-2 BK NWW PK PTN L3 RID BCH SDM DM RS

TK (17) X - 16 27

SR (11) X 84 282 466

SW (17) X 84 252 406

SW (17) X 84 253 414

TH (15) X 31 (0) 169

PY (12) X 15 65 71

SR (11) X 50 (486) 600

RK (11) X 50 (486) 600

RK (11) X 50 (486) 600

SR (13) X

SR (14) X 50 (486) 600

SR (15) X - 17 (15) X 15 81 78

SR (17) X - 10 18
SMP PS BN PKN ON-1 ON-2 HM KC CP SKV PL ASD MM (76) (80) (90)
                                                                                           SP (T7) X - 10 18

SP (T7) X - 0 18

NWW (T4) X - 23 36

PD (T5) X - 16 27

DM (T4) X - 15 27

SN (T4) X - 15 27

SN (T4) X - 15 27

SN (T5) X - 15
                                                                                                            BN (T6) X - 10 17

BK (T4) X - 10 17

BC (T5) X - 12 26

DK (T5) X - 14 25

DK (T5) X - 16 27

BS (T2) X - 24 58

X 13 45 104

BP (T1) X 12 34 74

BP (T1) X 12 32 67

KC (T6) X

X - 32 57
                                                                                            14 138 240
-- 75 129
-- 120 203
                                                                                                                      SDM (T4) X - 15 21
SS (T1) X - 22 54
X - 40 97
X - 10 21
                                                                                                                   NN (T2) X - 10 21

X - 18 35

PTN (T4) X - 13

KK TOLL X 20 68 112

SPS (SW) X 6 19 31

KK TI • 132 204 229

KK TI • 30 44 57
                                                                                                                      KK TI
                                                                                                                                                 Δ 30 44 57
                                                                                                                                                 Δ 42 39 51
Δ
                                                                                                                      PKN 16 A 27 39 50

KK TEST K 10 48 66

KK OBS X 3 3 3 3

MISC(TKE) X 1 1 1

Letc) X 5 5 5

KK SPS X 5 24 43
```

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. . .

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: .

X ---- IIdb

▼ ---- 3db

X ---- METALLIC WIRE

EX. NO.45 PKN T6 EXCHANGE SUB. 5,000-12,000-20,000

BYP SMP PS BN (76) (80) (90)	(76) (80) (90) ON-ION-2 LKB HM KC CP SKV PL ASD MM SP PTW SW TC TK SR TH DK BKT PD PPJ BC PSR MSK NK CHW BP KK SS PY IM BS NN LP-I LP-2 BK NWW PK PTN LS SDM DM RS A	ID BCH
TK (T 7)	<u>a 33 37 37 39 39 39 39 39 39 39 39 39 39 39 39 39 </u>	
	X 45 78 120 A 114 195 228 X 60 96 141	NOTE XNIND
— PL (T 3)	<u>a</u> 96 146 176	△6db
	X 32 54 102 A 48 55 72 K 10 19 29	• ————————————————————————————————————
—— PY (T 2)		♥3db
KK (T.1)	A 92 132 134 x = 22 22	* METALLIC WIRE
	A 666 116 £ 126 £ xx 24 250 £0 36 296 20 44 326 24	ODIRECT LINE
MM(T 3)	\$ 57 86 100 \$ 16 23 46	
SP (T 7)	A 27 32 50 X - 12	
—— NWW(T 4) —— PD (T 5)	4 19 22 31	
37 6 53 6 71 6 BN (T 6)	<u>4 38 45 48</u> <u>4</u> ξ	
BK (T 4)	X•X Δ 50 33 49	
— 8C (T.5) — DK (T.5)	<u>∆ 36 34 €0</u> <u>∆ 45 46 67</u>	
85 (T 2)	A 47 51 74 x 17	
BP (T 1)	A 40 46 74 X	
KC (T 6)	∆ X 405 625 635 X X 4639 1618711 23 188 15	
IM (T 2)	Δ 33 56 67 <u>x = 14 22</u> Δ χ	
315 575 665 — PS (T 6) -1796 19 237.10 30 24214 — PS (T 6)	XeX AbX	
515 615 775	X9X Δ = 27 52	
BCH(T 4)	Δ ⁻ 43 59	
ON-2T 6)	<u>xvx = ==1827 13 25813</u>	
ON-KT 6)	ΔX - 46g 67g x·x2339 % 25417.	
PSR(T 5)	△ 17 34 49 △ 39 53 74	
PK (T 4)	<u>X - 14 21</u> <u>A - 26 37 </u>	
LS (T 4)	4 X 28.5 69.5 92.5	
RIDIT 4)		-
ASD(T 3)		
- 445 475 - 1015 1326 BYRT 6)	Σάχ Δ — 75 95	
SKV(T 3) BKT(T 5)	<u>x - 34 52</u>	
CHWT 5)	A 31 46 73 x = 12	
LP- (T 2)	Δ 39 66 82 X - 10 19	
TC (T 7)		
PTW(T 1)	Δ 45 θl t12 <u>x = 23 38</u>	
MSK(T 5)	4X 445 435	
SDM(T 4)	<u>χ 924 934</u> Δ – 42 52	
PPJ(T 5)	Δ - 13 20	
SS (T ()	A 45 63 69 X 20 A 25 34 44	
NN (T 2) PTN(T 4) KKT I	Δ · · · · 18 · 32 Δ · · · 18 · 32 Δ · · 38 · () · 37 · (3) · 34 · (9)	
PYT2 PLT3	△ 41 35 ° 31 △ 22 (b) 30 (2) 38 (34)	
FL13 LST4 THT5	Δ 17 36 55 Δ 26 48 67	•
SWT7	∆ 22 (i) 29 (3) 32 (9) × 21 40 60	
KK*O* KKTEST	* 33 66 102 X 10 24 40	
MSC(OBS) KK S PS		
•		

• ----4db

----3db

-----METALLIC WIRE O --- DIRECT LINE NOTE X----Ildb A----6db

(80) (90) 0N-2 PKH PL SW KK TH PY LS 23 23
KK TI PY TZ PL T3 LS T4 TH T5 TH T5 KK 0° KK TEST KK 08S MISC(etc.) TKE KK 9FS
KK TT PP. TZ PP.

EX. NO 47 LKB. EXCHANGE (T6) SUB. 0-2,500-2,500

X ---- METALLIC WIRE
O ---- DIRECT LINE

e db

6 4 db

- 4 E

		NOTE x114b b64b v34b xMETALLIC WIRE DDIRECT LINE	
B. 0 3,600 5,000 ss kk ptw th sw pl asd skv pkh			
SDM EXCHANGE (T4) SU (76) (60) (90) LS LP-1 PY BS		X • 4 4 4 4 4 4 8 8 8 8 X	
П 11	25 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16.5) 16.5)	
RS DM			

ji Taši i

		NOTE	X [14b	4 6 db	db 6	9Þ € A	XMETALLIC WIRE	O DIRECT LINE
EX.NO 49 PPJ EXCHANGE (T5) SUB. 0 - 1,700 - 3,800	(76) (80) (90) PD DK TH CHW KK PY LS SW PL PKN X 15	1 1 1	1 1	į				
	TH (15) KK T 1 PV T2 PV T2 PL T3 TH T5 PKN T6 KK T0LL SW T7 SW T7 SPS (CHW)	KK TES KK OBS	TKE SPS					

-48-

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NOTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X ---- -- 11db
                                                                                                                                                                                                      PL (T3) X 24 32 640

12 16 35

TH (T5) X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ---- 4db
                                                                                                                                                                                            TH (T5) X

PY (T2) X 32 40 67

KK (T1) X 26 30 44

CP (T6) X - 26

MM (T3) X - 14

NWW (T2) X13 16 32

NWW (T2) X13 16 32

DM (T4) X - 15

BN (T6) X - 16

BN (T6) X - 16

BN (T6) X - 15

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              o --- DIRECT LINE
                                                                                                                                                                              - 15 DK (15) X

- 14 SB (17) X 22 31 93

X 22 31 93

X 21 5 30 5 9 1 5
                                                                                                                                                                                                                                                               - 12 BKT (T5) X
- 22 CHW (T5) X
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- 17 (T7) X - 19 51
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X - 10
X 20 34 70
33 57 124
SPS (SW) X 6 10 20
KK TI 149 198 189
556 22 33
PY 12 438 32 40
PL T3 433 23 31
LS T4 4 13 44 66
                                                                                                                                                                                                  29 38 49 TH
                                                                                                                                                                                                                                                                                                                                    - LS T4 a 13 44 6b
- TH T5 A
- PKN T6 a 45 63 69
- SW T7 A17 28 38
- KK TES X 10 20 50
- KK 088 X 3 3 3 3
- BPPY (TKE) X 1 1 1
- KKMISCATEX 5 5 5
- KK SPS X 5 10 25
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i. ·

	X11 db Δ6 db ∇3 db ΚMETALLIC WIRE Ο DIRECT LINE	10 1
## CANOSC PTN EXCHANGE (T4) SUB. 800——5,000—5,000 ### CANOSC PTN EXCHANGE (T4) SUB. 800—5,000—5,000 ### CANOSC PTN EXCHANGE (T4) SUB. 800—5,000 NOSC PTN EXCHANGE (T4) SUB. 800 ### CANOSC PTN EXCHANGE (T4) SUB. 800 ### CANOSC PTN EXCHANGE (T4) SUB. 800	x	
NWW [T4] BS (T2) PK (T4) LP-I (T2) LP-I (T2) PTW (T1) SS (T1)	1	

