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ANNEX 2

MICROSCOPIC DEMAND FORECAST IN MEDAN, SEMARANG AND SOLO

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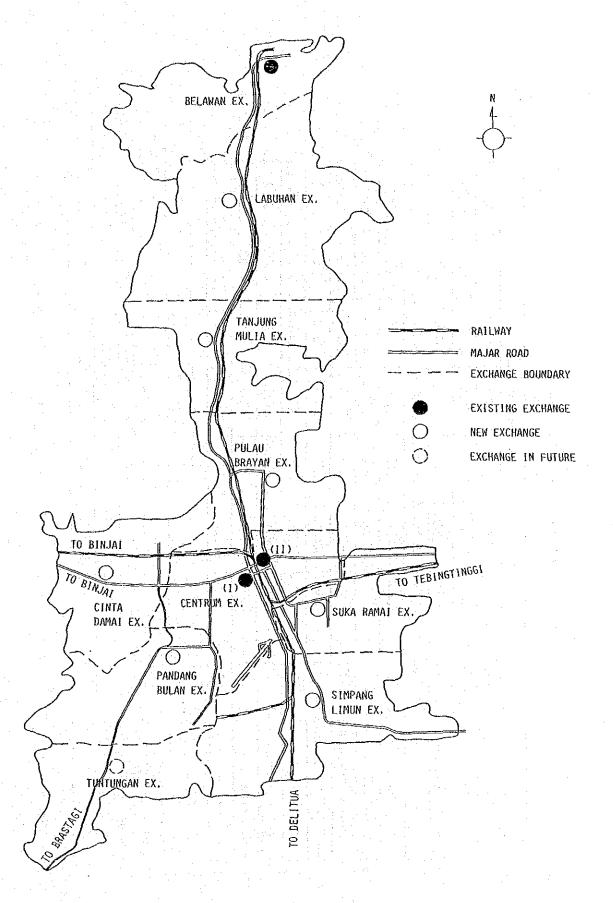


Figure AN-2-1 Guide Map

Table AN-2-1 Demand Forecast of Medan Area

				وبونسور			·					
	2002	65400	33400	33700	20500	29900	26600	17700	6100	13100	8500	254900
	2000	58600	24800	23700	14300	19700	15900	8700	4700	2100	4000	179500
	1998	25500	21800	20700	12200	16500	12900	0089	4100	3100	2900	156500
Demand	1995	50500	00081	15900	9400	12400	9100	3900	3300	1400	1700	125600
	1993	47300	15400	14600	7300	10400	7600	3500	2800	006	1300	1111100
	1990	2100	12400	11900	5100	7700	5500	2300	2200	400	800	90400
	1988	38600	10700	10300	3900	6300	4400	1800	1900	300	009	78800
	1985	33400	8500	8700	2700	4700	3300	1300	1500	100	400	64600
Nome of	Exchange	Centrum	Suka Ramai	Pulau Brayan	Padang Bulan	Cinta Damai	Simpang Limun	Tanjung Mulia	Belawan	Tuntungan	Labuhan	Total
4 O	No.	1	2	8	4	5	9	7	8	6	10	

Table AN-2-2 Demand Forecast of Medan Area (Residential Business Use)

Po#	a proposed	Demand	in	1985	Demand	d in	1995	Demand	ini	2005
No.	Name	R	В	Total	R	В	Total	R	8	Total
1	Centrum	11200	22200	33400	13700	36800	20500	14800	20600	65400
2	Suka Ramai	3800	4700	8500	7800	10200	18000	12100	21300	33400
3	Pulau Brayan	0009	2700	8700	10100	5800	15900	18100	15600	33700
4	Padang Bulan	2300	400	2700	8100	1300	9400	17700	2800	20500
ည	-Cinta-Damai	2400	2300	4700	6500	5900	12400	19100	10800	29900
8	Simpang Limun	2200	1100	3300	6000	3100	9100	17500	9100	26600
7	Tanjung Mulia	200	800	1300	2200	1700	3900	10900	0089	17700
8	Belawan	500	1000	1500	1900	1400	3300	4200	1900	6100
6	Tuntungan	100	0	100	1300	100	1400	10600	2500	13100
10	Labuhan	300	100	400	1200	500	1700	2900	2600	8500
	Total	29300	35300	64600	58800	66800	125600	130800	124000	254900
d.	Percentage (%)	45.4	54.6	001	46.8	53.2	100	51.4	48.6	100

R: Telephone Demand at Residential Area B: Telephone Demand at Business Area

Table AN-2-3 Demand Forecast of Medan Area (Deamnd Categories)

	Density	0.00.01 0.00.00 0.00.00	8.0	0444 044788 0404094 0404094	33.4		9.5
2002	Demand D	3720 95520 31480 180	130900	2880 17070 4060 69560 20880 4970 1810	124000		254900
	Area (Ha)	312 9892 5828 172	16304	88 88 88 88 88 88 88 88 88 88 88 88 88	3716	0989	26880
	Density	11.0 4.5 0.5	6.1	7.000 1300 2600 2600 4.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.0	27.1		4.7
1995	Demand	3430 39810 15290 270	58800	1820 10590 36590 35530 9160 1010 1180	66800		125600
	Area (Ha)	312 5280 3452 572	9616	262 262 262 262 262 262 262 262 262 262	2464	14800	26880
	Density	0.20	3.6	420740 720750 20070 20040 20040	20.1		2.4
1985	Demand	2900 19860 6090 450	29300	1150 3750 1960 1960 19730 4860 2830 2830 940	35300		64600
	Area (Ha)	300 3248 3020 1480	8048	24 168 240 240 255 288	1756	17076	26880
	100 H	~~~~ 		0-1 0-2 C-2 C-3 C-3 1-2 Others			
Dottorn	ן שרייכו וו	Residen- tial Area	Sub Totai	Business Area	Sub Total	Non- Demand	Total

Table AN-2-4 Demand Forecast of Centrum Exchange

	Density	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	10.9	2865.0 2865.0 20.0 20.0 20.0	10.4	8.09		27.6
2005	Demand 0	3720 10380 700	14800	2880 7100 32940 3120	500	20600		65400
	Area (Ha)	312 944 108	1364	1422 472 104	48	832	176	2372
	Density	0.100 kg	9.1	25.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05 26.05	9.4	53.8		21.3
1995	Demand	3440 9060 1200	13700	1820 5780 22200 2900	450	36800		50500
	Area (Ha)	312 996 204	1512	132 132 352 100	48	589	176	2372
	Density	9.7 6.9 2.8	6.9	24.0 70.0 71.0 22.0	8.1	38.8		14.1
1985	Demand	2900 7700 600	11200	1150 2400 1960 14280 2020	390	22200		33400
	Area (Ha)	300 1112 212	1624	100 100 280 92	48	572	176	2372
1		R-1 R-3 R-4		-4-4-4	j- <u>2</u> Others			
0.44	72.50	Residen- tial Area	Sub Total	Business Area		Sub Total	Non- Demand	Total

Table AN-2-5 Demand Forecast of Suka Ramai Exchange

Γ			<u>, </u>	r				<u> </u>	
	Density	11.0	10.2	45.0	70.0 35.0	2.4	49.3		18.7
2005	Demand	9760 2340	12100	1080	17360 2660	200	21300		33400
	Area (Ha)	884 308	1192	24	248 76	84	432	160	1784
	Density	%v.	7.6	41.7	28.1 26.6 26.6	2.0	35.9		10.1
1995	Demand	5680 2120	7800	200	8360 1170	170	10200		18000
	Area (Ha)	652 372	1024	12	144 44	84	284	476	1784
	Density	8000 Orom	4.0		40.0	1.7	21.4		4.8
1985	Demand	2820 950 30	3800		3680 880 880	140	4700		8500
	Area (Ha)	472 380 96	948		92 44	84	220	616	1784
l tem		~~~~ ~~~~ ~~~~		27-	-de-	0thers			
Pattern		Residen- tial Area	Sub Total	Business Area			Sub Total	Non- Demand	Total

Table AN-2-6 Demand Forecast of Pulau Brayan Exchange

سسنو	,			· · · · · · · · · · · · · · · · · · ·					
	Density	11.00	9. 9.	45.0	83.0 4.0	7.8	28.5		13.5
2005	Demand	12020 6080	18100	1440	5880 6420	1860	15600		33700
	Area (Ha)	1092 796	1888	32	84 192	240	548	52	2488
	Density	7.2 5.0 0.8	6.1	40.0	55.4 25.6	6.3	17.1		6.4
1995	Demand	5990 4100 10	10100	008	2660 820	1520	2800		15900
	Area (Ha)	832 820 12	1664	20	48 32	240	340	484	2488
	Density	5.6 1.7 0.3	3.6		40.3	5.2	9.6		3.5
1985	Demand	4480 1515 5	0009		1290 160	1250	2700		8700
	Area (Ha)	796 868 16	1680		333	240	280	528	2488
110	1			000	-ann- いいい-	-2 -2 Others			
0 + + c0	14 P	Residen tial Area	Sub Total	Business Area			Sub Total	Non- Demand	Total

Table AN-2-7 Demand Forecast of Padang Bulan Exchange

Patarn			1985			1995			2005	
2 2 2 2 3 3 4	ווייייייייייייייייייייייייייייייייייייי	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density	Area	Demand	Density
Residen- tial Area	R-32 4433221	224 364 180	13 000 000 000	10.C1.O.	788 344 56	6350 1730 20	85.00 4.00	1600 332 12	15870 1820 10	သလ ္ သက်ထဲ
Sub Total		768	2300	3.0	1188	8100	6.8	1944	17700	0.1
Business Area	0-1							೮	180	45.0
		16	300	18.8	248	200 640	62.5 26.7	284	1600 840	86.7 30.0
	1-2 Others	16 20	20.00	5.0	16 20	110 50	6.9	16 20	120 60	3.0
Sub Total		52	400	7.7	89	1300	1.61	92	2800	30.4
Non- Demand		1520			1084			304		
Totai		2340	2700	1.2	2340	9400	4.0	2340	20500	8.8

Table AN-2-8 Demand Forecast of Cinta Damai Exchange

Do to do	+-		1985			1995			2005	
ratern	l reill	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density
Residen- tial Area	***** :	276 448 208	1550 785 65	5.6 0.3	612 420 20	4460 2030 10	7-40 6.20	1520 396 20	16080 2990 30	10.6 7.6 1.5
Sub Totai		932	2400	2.6	1052	6500	6.2	1936	19100	9.6
Business Area	0-1	52	1010	19.4	09	2320	38.7	89	2880	42.4
	 	64	1190	18.6	874	1250 2180	52.1 26.0	844	4480 2940	35.0
	$1-\frac{1}{2}$ Others	32	20 80	5.0 2.5	32	20 130	45.0 1.0	4 56	30 470	7.8
Sub Total		152	2300	15.1	204	2900	28.9	276	00801	39.1
Non- Demand		1476			1304			348		
Total		2560	4700	8.	2560	12400	4.8	2560	29900	11.7

Table AN-2-9 Demand Forecast of Simpang Limun Exchange

Do to const			1985			1995			2005	
2 D	168	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density
Residen- tial Area	~~~~ ~~~~ ~~~~	320 160 240	1770 380 70	တ်က <u>ွ</u> ာရ	800 148 176	5330 600 70	0.40	1658 128 40	16570 890 40	10.00
Sub Total		720	2200	3.1	1124	0009	5.3	1824	17500	9.6
Business Area	00-2	∞	160	20.0	20	099	33.0	32	1440	45.0
	0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	16 120 4	310 620 10	19.4 25.2 5.5	386 4	860 1150 20	24.0.0 2.6.+0	52 64 204 48	86888 26889 20889	88 600000000000000000000000000000000000
Sub Total		148	1100	7.4	344	3100	9.0	504	9100	18.1
Non- Demand		2496			1896			1036		
Total		3364	3300	1.0	3364	9100	2.7	3364	26600	7.9

Table AN-2-10 Demand Forecast of Tanjung Mulia Exchange

	Density	146.3	4.4	40.4	248 20048 0007-0	10.1		4.6
	Dens	7	7	70	40	H		
2005	Demand	860 0030 10	10900	1130	1070 1280 1250 1250	0089		17700
	D D		7					****
	Area (IIa)	136 2360 8	2504	28	424 420 50 60 60	676	040	3820
	Density	იალი 4.–-ი	2.8		ည်း လူလုပ် လူလုပ်	4.9		1.0
1995	Demand	300 1830 70	2200		0000 0000	1700		3900
		56 596 132	784		82 8 8 8	348	2688	3820
	Area (Ha)		7		क्रमान हमानी	က	26	38
	Density	1.8 0.3	1.0		2.4 9.50	4.3		6.0
1985	Demand	420 80	500		720	800		1300
	Area (Ha)	228 284	512		36 148	184	3124	3820
100	الله د	~~~~~ 		0-1	0			
		den-		ness			pu	******
Octob	ក ភ	Residen- tial Area	Sub Total	Business Area		Sub Total	Non- Demand	Total

Table AN-2-11 Demand Forecast of Belawan Exchange

Dotono	34		1985			1995			2005	
7 & UCT 41	표 한 1	Area (IIa)	Demand	Density	Area (Ha)	Demand	Density	Area (IIa)	Demand	Density
Residen- tial Area	~~~~ 5264	1928 8828	1.90 30 30	ക <u>്</u> പറ ജസ്ധ	112 364 80	780 1090 30	2.00 4.00	148 584 524	1220 2930 50	8iv-
Sub Total		308	200	1.6	556	1900	3.4	784	4200	5.4
Business Area	0-1 0-2		180	22.5	12	430	35.8	12	510	42.5
	ကျလှ ပြင်ပင်	12	480	40.0	12	260	46.7	12	780	65.0
	-1 -2 Others	100	300	3.0	120	360	3.0	176	60 550	3.1
Sub Total		128	1000	7.8	152	1400	8.2	208	1900	1.8
Non- Demand		2104			1832			1548		
Total		2540	1500	0.6	2540	3300	1.3	2540	8100	2.4

Table AN-2-12 Demand Forecast of Tuntungan Exchange

400	7		1985			1995			2005	
racell		Area (Ha)	Demand	Density	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density
Residen- tial Area	~~~~ 	316	100	0.3	312	1250	4.0	1180 584 24	7800 2780 20	&4.0 8.88
Sub Total	. 1.	316	100	0.3	392	1300	3.3	1788	10600	5.9
Business Area	0-2			. :				16	720	45.0
	-000- -000-				4	100	25.0	116 28 28	1060	25.7
	-2 Others									
Sub Total		0			4	100	25.0	09	2500	41.7
Non- Demand		1852			1772			320		
Total		2168	100	0	2168	1400	9.0	2168	13100	6.0

Table AN-2-13 Demand Forecast of Labuhan Exchange

Datern	#o+		1985			1995			2002	
500		Area (Ha)	Demand	Density	Årea (IIa)	Demand	Density	Area	Demand	Density
Residen- tial Area	8-32-1-4-4-4-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	5288 528	පිසින	2-10 5-4-5	120 184 16	900 1000 1000	ರ್ಣ ಅಗಾರ ಕ	832 232 16	4960 920 20	04-1 00%
Sub Total		240	300	1.3	320	1200	3.8	1080	5900	5.5
Business Area	-00 00-7				Ę,	100	25.0	16	290	36.9
					13	290	24.2	24	1010	42.1
	-1 -2 Others	50	100	5.0	8	110	ວ.	50	120	6.0
Sub Total		20	100	5.0	36	500	13.9	88	2600	29.5
Non- Demand		3184			3088			2276		
Total		3444	400	0.1	3444	1700	0.5	3444	8500	2.5

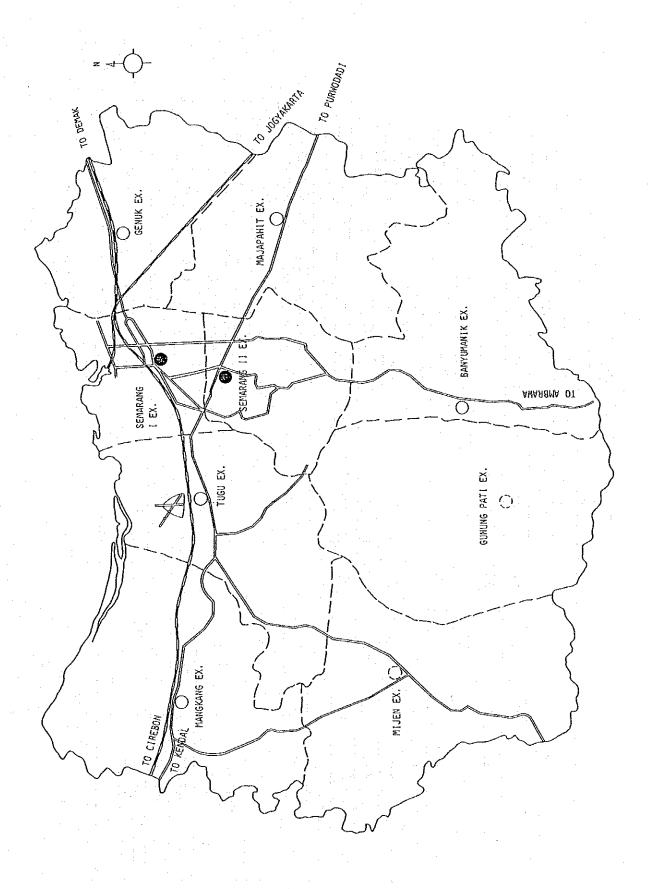


Figure AN-2-2 Guide Map

Table AN-2-14 Demand Forecast of Semarang Area

Nome of						Demand			
	-	1985	1988	1990	1993	1995	1998	2000	2005
8 1 14	14	14800	17300	19200	22400	25200	28900	32000	41200
8 11 10	100	10500	12400	13500	15700	17800	20100	22400	28800
25	22	5220	7000	8300	10600	12500	15000	00121	22700
it 37	37	3700	5700	7200	0066	12400	15600	18300	25900
nik 57	57	5700	0029	7400	8600	0066	11400	12800	17100
1300	13	00	2400	3300	4900	0099	8600	10400	15600
2	2	280	300	400	200	009	700	008	1100
Pati	2	400	400	500	600	700	1000	1200	1900
1	===	1300	2400	3200	4400	2600	2000	8200	11500
43;	43,	43200	54600	63000	77600	91300	108300	123200	165800

Table AN-2-15 Demand Forecast of Semarang Area (Residential Business)

		·										
2005	Total	41200	28800	22700	00652	00121	00991	1100	0061	11500	165800	100
in	8	31900	12000	8100	8700	3900	8200	300	800	6100	80300	48.4
Demand	R	9300	00891	14600	17200	13200	7100	800	1100	5400	85500	51.6
1995	Total	25200	17800	12500	12400	0066	0099	009	200	2600	91300	100
d in	В	18400	0089	5200	4200	3200	3600	100	200	3000	44700	49
Demand	R	0089	11000	7300	8200	0029	3000	200	200	.7600	46600	51
1985	Total	14800	10500	2220	3700	0025	1300	780	001	1300	43200	100
in	8	10200	3200	2520	006	2800	600	80	100	002	21400	49.5
Demand	Ŗ	4600	0002	0027	2800	2900	001	200	300	009	21800	20.5
0,000	LXCIIaiige Name	Semarang 1	Semarang 11	Tugu	Majapahi t	Banyumanik	Genuk	Mijen	Gunung Pati	Mang Kang	Total	Percentage (%)
#00	No.	-	2	က	4	ß	8	<u>-</u>	8	Ĉ		Pe

Table AN-2-16 Demand Forecast of Semarang Area (Demand Categories)

	Density	ゴケルー むたいつ	6.5	2011 2010 2010 2010 2010 2010 2010 2010	11.7		4.2
2005	Demand	6510 65000 12000 1890	85500	3740 22000 440 27440 8580 9570 3400 5130	80300		165800
	Area (Ha)	556 8432 2260 1932	13180	44 444 476 280 2352 2708	0989	18980	39020
	Density	യസ്കറ ജ44.	4.3	71. 22. 27. 27. 27. 27. 27. 20.	10.7		2.3
1995	Demand	5360 34610 5380 1250	46600	2840 12770 370 12180 6810 4210 2410 3110	44700		91300
	Area (Ha)	548 6452 1604 2224	10828	252 252 252 244 1328 1536 1536	4168	24024	39020
	Density	ಹಬ್ಬಂ ೧-ಹೆಬ್ಬ	2.8	22.00.00.00.00.00.00.00.00.00.00.00.00.0	13.6		1.1
1985	Demand	4780 14480 1780 760	21800	1720 280 280 3180 8970 550 11390 1170	21400		43200
	Area (Ha)	548 4040 788 2500	7876	23.8 23.8 27.8 36.8 36.8 36.8 36.8 36.8 36.8 36.8 36	1572	28272	39020
# C		~~~~ ~~. ~~. ~~. ~~. ~~. ~~. ~~. ~~. ~~		0-0-21 -1-321-21 -1-1-321-21 thers			
Dattern	19,001	Residen- tial Area	Sub Total	Business Area	Sub Total	Non- Demand	Total

							·			
			Densi ty	9.6	6.6	85.0 51.9	ದ್ದಿಬ್ಲಿ ಈ ದಿಲ್ಲ ಹಂಬುಗ್ಗ	28.4		19.0
	a)	2005	Demand	1240 8060	9300	3740 8100	16060 2240 330 260 1170	31900		41200
	Exchange		Area (Ha)	104 840	944	44 156	248 64 76 40 496	1124	100	2168
	Semarang I		Density	9.7 6.4 4.3	6.5	71.0	, సహహహ సాహహాదా సహహాదా	24.5		11.6
·	ЧН О	1995	Demand	0480 2480 340	0089	2840 5280	7180 1960 170 690	18400		25200
	Forecast		Area (IIa)	100 860 80	1040	40 124	128 64 48 48 300	752	376	2168
	Demand]		Density	8.5 4.0 2.6	4.2	47.8 28.0	250100 250100 250100	21.1		8.
	le AN-2-17	1985	Demand	3380 370 370	4600	1720 2910	2660 2400 240 220	10200		14800
	Table Al		Area (Ha)	100 844 140	1084	36 104	76 96 24 48 100	484	009	2168
		+	E D	R-7 -22 4		0-1 0-2	C-3 C-3 [-1 Others			
		00.140.00	2 2 2 2 3 3 4 4 7	Residen- tial Area	Sub Total	Business Area		Sub Total	Non- Demand	Total

Table AN-2-18 Demand Forecast of Semarang II Exchange

00000 RR-2-1 tem 000000 PR-2-1 tem 0-100000 PR-2-1 tem	Area (Ha) 332 988 988 24 32 1376 140	1985 Demand 2990 3930 3930 70 1000 1000 260 260 260 260 270	Dens i ty 23.355.0 2.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	Area 3332 11522 16 100 100 124 124 32 32	1995 Demand 3450 7440 1000 1000 4220 850 950	Density 1.2 0.54 2.52 2.52 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	Area (Ha) 336 1292 20 20 164 12 32 32	2005 Demand 4200 12490 1110 440 780 1120 8820 8820 8820 8820	Density 12.5 10.2 110.0 35.0 35.0
1	248	3500	14.1	388	6800	17.5	552	12000	21.7
-	808			520			232		
	2432	10500	4.3	2432	17800	7.3	2432	28800	11.8

Table AN-2-19 Demand Forecast of Tugu Exchange

00++00	E 0		1985			1995			2002	
1466011		Area (Ha)	Demand	Density	Årea (Ha)	Demand	Density	Årea (Ha)	Demand	Density
Residen- tial Area	R-2 R-3 4	684 92 180	2400 230 70	600 1004	1236 256 172	6310 900 90	ဝလည်း ဝလည်း	1628 488 60	11700 2840 60	1.57.7 0.82
Sub Total		956	2700	2.8	1664	7300	4.4	2176	14600	6.7
Business Area	0-5-7	ዕ ቴ	1040	23.6	94	2240	35.0	33	3860	42.0
	-0 to	40	1020	25.5	20	920 1060	46.0 26.5	36 44	1980	29.3
	$\begin{bmatrix} -\frac{1}{2} \\ 0 \end{bmatrix}$	64 8	320 140	5.0 17.5	300	540 440	1.54	72 344	430 540	 0.6.
Sub Total		156	2520	16.2	524	5200	9.9	588	8100	13.8
Non- Demand		3792			2716			2140		
Total		4904	5220		4904	12500	2.5	4904	22700	4.6

Table AN2-20 Demand Forecast of Majapahit Exchange

	Density	17.12.1 6.6560	6.4	37.5	28.5 28.5 58.5 58.5 58.5 58.5 58.5 58.5	49 140	6. 6.		6.0
2005	Demand	13890 31990 120	17200	300	5200 570	1230	8700		25900
	Area (Ha)	1928 616 124	2676	∞	200g	38	088	732	4288
	Density	0.944.0	4.1	30.0	24.5	აro ად-4.	8.5		2.9
1995	Demand	8820 1150 150	8200	240	2140 490	2822	4200		12400
	Area (Ha)	1400 360 244	2012	8	220	200 200 200 200 200 200 200 200 200 200	965	1780	4288
	Density	ಹಬ್ಬಲ ಹಂಒ	2.2	21.3	23.5	5.0	11.3		6.0
1985	Demand	2470 150 110	2800	170	470	260	006		3700
	Area	820 720 864 864	1264	8	50	52	08	2944	4288
+	100 P	~~~~ ~~~~ ~~~~~		0-1	 	-1 -2 Others			
0.0++00	1 a c c c i i	Residen- tial Area	Sub Total	Business Area			Sub Total	Non- Demand	Total

Table AN-2-21 Demand Forecast of Banyumanik Exchange

	-		1985			1995			2005	
rattern	Tem Tem	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density
Residen- tial Area	~~~~ 	108 436 176 392	870 1520 360 150	88.00 -004	108 920 360 360	860 4580 1040 220	ထက္ မာ ဝဝ4ဏ	1336 1336 424 240	1080 9570 2300 250	07.7 0.7-20 0.14-0
Sub Total		1112	2900	2.6	1696	6700	4.0	2108	13200	6.3
Business Area	0-1 C-1	20	480	24.0	20	650	32.5	20	760	38.0
	ပ်ပ်- ဂရာ-	22	1300	26.4	09	1630	27.2	22	2040	28.3
	-2 -2 Others	32 100	160 260	5.0	32 288	180 740	5.6 2.6	32 408	200 900	2.2
Sub Total		224	2800	12.5	400	3200	8.0	532	3900	7.3
Non- Demand		3928			3168			2624		
Total	:	5264	5700	1.1	5264	9900	1.9	5264	17100	3.2

Table AN-2-22 Demand Forecast of Gunuk Exchange

Table AN-2-23 Demand Forecast of Mijen Exchange

			<u> </u>				
	Density	840 %00	1.3	25.0	25.0		0.2
2005	Demand	50 210 540	800	300	300		1100
	Area	8 52 572	289	12	12	4952	5596
	Density	5.0 3.6 0.7	6.0	25.0	25.0		0.1
1995	Demand	40 130 330	200	100	100		009
	Area (Ha)	8 36 484	528	4	4	5064	5596
	Density	2.5 0.2	0.4	20.0	20.0		0.1
1985	Demand	20 60 120	200	80	80		280
	Area (IIa)	8 36 484	528	4	7	5064	5596
	มี ว	8-7-22-1-4-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		-d-dd	Others		
Do 4.4.0	7 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Residen- tial Area	Sub Total	Business Area	Sub Total	Non- Demand	Total

Table AN-2-24 Demand Forecast of Gunung Pati Exchange

Do 4+0nn	4		1985			1995			2005	
- a t t t t	III D -	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density
Residen- tial Area	~~~~ ~~~~ ~~~~	52 744	100	0.10 0.50	52 744	160 340	 	60 816	300 800	 0.0
Sub Total		962	300	0.4	796	200	9.6	876	1100	1.3
Business Area	00-7					: :				
	0100 	∞	100	12.5	∞ .	200	25.0	20	260	28.0
	l-2 Others	:					·	72	240	3.3
Sub Total		8.	100	12.5	8	200	25.0	92	008	8.7
Non- Demand		5336			5336			5172		
Total		6140	400	0.1	6140	700	0.1	6140	1900	0.3

Table AN-2-25 Demand Forecast of Mang Kang Exchange

Pa++ecn	#o+		1985			1995			2005	
		Area (IIa)	Demand §	Density	Area (IIa)	Demand	Density	Area (IIa)	Demand	Density
Residen- tial Area	R-1 R-3 R-4	60 148 92	210 360 30	3.5 0.3	356 208 72	1850 720 30	2.8.0 2.8.4	648 140 68	4530 800 70	15.7
Sub Total	·	300	009	2.0	929	2600	4.1	856	2400	6.3
Business Area	0-1 C-1	4	110	27.5	ħ	140	35.0	4	160	40.0
	C-2 C-3 1 Others	188 44	370 220	2.0	16 540 120 180	420 1620 660 160	2000.000000000000000000000000000000000	16 252 604	3400 1500 580	యటడా చందిత
Sub Total		236	700	3.0	098	3000	3.5	1760	6100	3.5
Non- Demand		4504			3544			2424		
Total		5040	1300	0.3	5040	2600	1.1	5040	11500	2.3

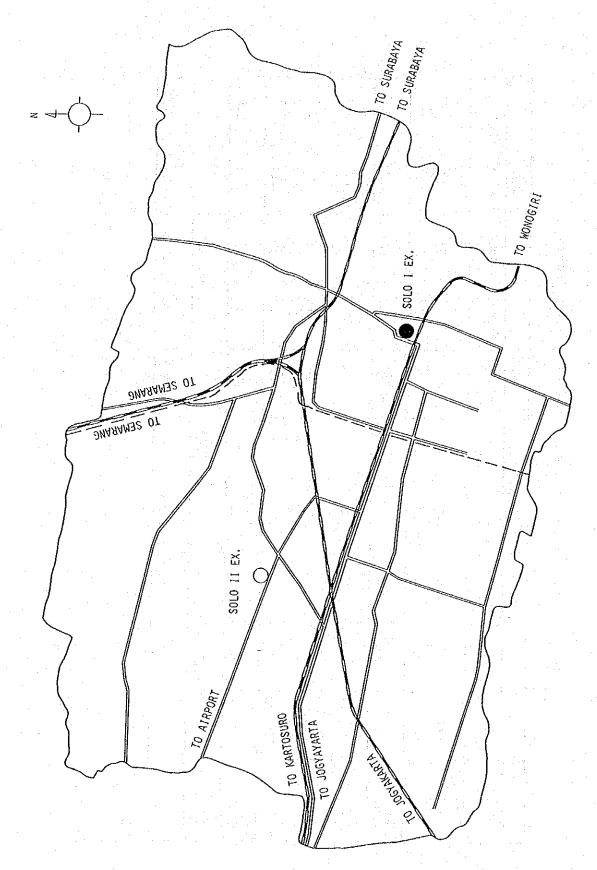


Figure AN-2-3 Guide Map

Table AN-2-26 Demand Forecast of Solo Area

	2005	24000	28800	52800
	2000	19400	23000	42400
	1998	17800	20700	38200
	1995	15600	17200	32800
Demand	1993	14300	14800	29200
	1990	12500	11500	24000
	1988	11500	9100	20600
	1985	10100	5800	15900
40	Exchange	Solo 1	So10 11	Total
400	No.	Ţ	2	

Table AN-2-27 Demand Forecast of Solo Area (Residential Business)

	000000000	Demand	in	1985	Demand	d in	1995	Demand	u .	2005
	Name	8	ക	Total	×	8	Total	۵ 4	8	Total
1	Solo 1	3800	6300	10100	6400	9.200	15600	10900	13100	24000
2	2 Solo !!	3800	2000	5800	10200	7000	17200	17200	11600	28800
	Total	7600	8300	15900	16600	16200	32800	28100	24700	52800
Pe	Percentage (%)	47.8	52.2	100	9.05	49.4	100	53.2	8.94	100

Table AN-2-28 Demand Forecast of Solo Area (Demand Categories)

100000000000000000000000000000000000000										
Do++0-0	#O+-		1985			1995			2005	
רא נייכן זו		Area (Ha)	Demand	Density	Yrea Ha	Demand	Density	Area (Ha)	Demand	Density
Residen- tial Area	R-1 R-3 R-4	84 2052 448 560	670 5950 810 170	22.0 0.38	84 3536 316 872	750 14550 870 430	8.9 2.8 0.5	84 3720 268 820	930 25010 1340 820	11.1 6.7 5.0 1.0
Sub Total		3144	7600	2.4	4808	16600	3.5	4892	28100	5.7
Business Area	0-2	09	1910	31.8	7 51	6540	45.4	9.11	10310	58.6
	0-1-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	184 284 284 684 40	23.46 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60 23.60	ည်း လူင်္ကလည်း လူင်္ကလည်း	<u> </u>	750000 700000 7000000000000000000000000	ర్జుద్దు జాలుదాటలు	100 1224 4524 9624	3920 5450 3410 680	889-4-F- 2056-
Sub Total		424	8300	19.6	926	16200	16.9	1236	24700	20.0
Non- Demand		1068			1108			744		
Total		4636	15900	3.4	6872	32800	4.8	6872	52800	7.7

Table AN2-29 Demand Forecast of Solo I Exchange

Table AN-2-30 Demand Forecast of Solo II Exchange

		1985			1995			2005	
_tem	Area (Ha)	Demand	Density	Area (Ha)	Demand	Density	Area (ila)	Demand	Density
~~~~ ~~~~~	1076 1076 1688 1688	84.05.4 000.000	∞vic ⊙∞owi	2248 5248 504	530 9270 150 250	∞4.4.0 ∞ಎಗ	2404 364 468	650 15900 470	0.00.0-1 &.00.0-1
	1412	3800	2.7	2864	10200	3.6	2968	17200	5.8
000	28	860	30.7	85	4200	45.7	120	7000	58.3
0000 425-434	2 3 2 2 2 2 4 5 4 12 12 12 12 12 12 12 12 12 12 12 12 12	860 860 860 860 860 860 860 860 860 860	222 700 700 700 700 700 700 700	<del>28885</del>	460 370 170 170	ಜ್ಞೆಬ್ಬೆಬ್ಲಹ್ ಹುಸುರುಹರು	5222 5222 5222 5222 5222 5222 5222 522	22000 232000 23200000	တ်လုံ <i>ချင်း</i> လ လုတ်လုတ
	136	2000	14.7	480	7000	14.6	899	11600	17.4
	372			636			344		
	1920	2800	3.0	3980	17200	4.3	3980	28800	7.2

## ANNEX 3

INSTALLATION TARGET IN MEDAN, SEMARANG AND SOLO

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	Installation Target of Labuhan Exchange	
2. Mic	roscopic Installation Target in Medan Area	
(1)	그는 사람들은 그는 사람들은 그는 사람들이 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	602
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Figure AN-3-1 Installation Target of Medan Area

Primary Cable				55.5 58.6 62.6 65.4 65.9 65.4 65.9 65.9
				1990 91 92 93 94 95 96 97 42.1 47.3 50.0 57.0 62.8 51.0
C9	50		01 01 01 01	1984 85 86 87 88 33.4 38.6 36.9 55.0 (Perumtel's
<b>.</b>	CENTRUM EX. SC	Om (	N Ā	Year Demand Line Unit Primary Cable Remark

Figure AN-3-2 Installation Target of Centrum Exchange

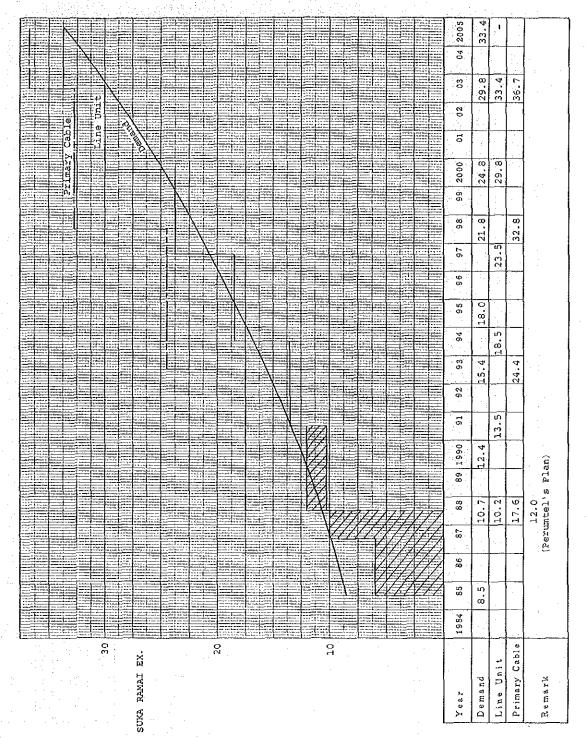


Figure AN-3-3 Installation Target of Suka Ramai Exchange

Primary Cable	Tine Unit			91 92 93 94 95 96 97 98 99 2000 01 02 03 04 2005 14.6 15.9 20.7 23.7 28.7 33.7	31.6
	JIAU BRAYAN EX.	50	10	Year 1984 85 86 87 88 89 1980 Demand 8.7 10.3 11.9 Line Unit	10 17 11 11 11 11 11 11 11 11 11 11 11 11

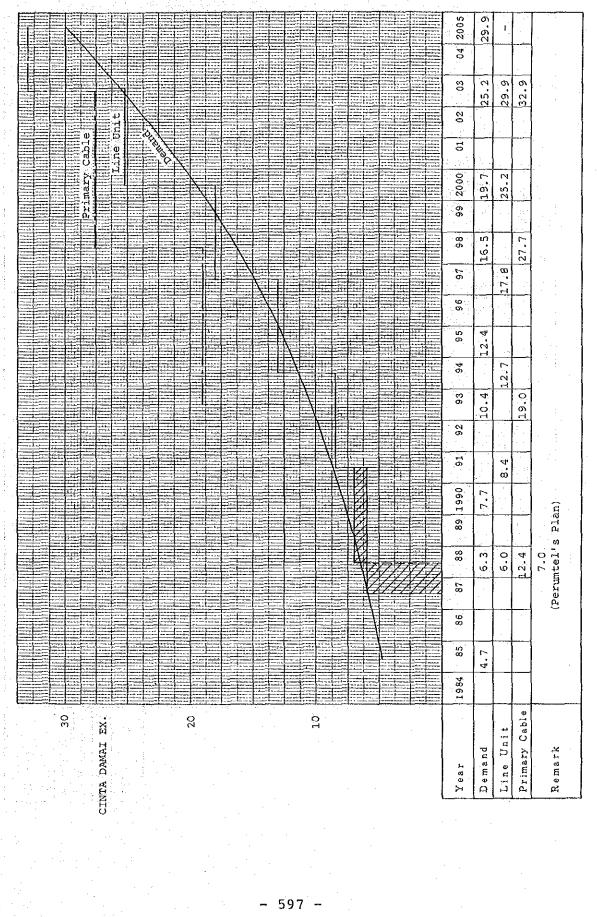
Figure AN-3-4 Installation Target of Pulau Brayan Exchange

			2005
			2 2
			03 17-6 22.6 22.6 22.6
0 6			00 02 are
Cable 1			01 nugan
Primary			2000. 14.3 17.6
A Part of the second se			98 99 2000 01 02 12.2 14.3 17 19.4 17.6 20 Demand of "Tuntungan" area
			98 12.2 19.4 Demank
			977 13.2 13.2 1
			9 6
			8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
			φ , ω , w , w , w , w , w , w , w , w , w
			7.3 7.3 14.0 14.0
			6
			6 0 *
			89 1990 5.1 5.1 Flan)
			<u>#</u>     ω
			88 3.9 4.0 9.0 8.0 erumtel. (0.3)
			88 (Pe
			*
			1984 85
8	× 00		
<b>X</b>	PADANG BULAN EX. (After 1994 "Tuntungan" area is separeted)	O Ħ	nd Unit y Cable
	MG BUJ er 1995 rungar eparet		Year Demand Line Uni Primary Ca
	ADAN Afte Tunt s se		N D H W R

Figure AN-3-5 Installation Target of Padang Bulan Exchange

			<b>国</b> 87日
			13-1
		X	9.6 9.6 13.1 14.4
			8 7 7
	y Cable		5
	mary C		
			2000
	Ä		66
			8 H 0
			[ 의
			3.3
			96
			8 4
			2 2 3
			93
			88
			16
			1990
			88
			88 88
			## \(\cdot\)
			88
			88 (0.1)
			0)
			1 984
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			n i t Cable
N 994 994 Bult		***	ry C
ONGA 11 1 1ned 1ng			Year Demand Line Uni Primary C
TUNTUNGAN EX. (Until 1994 combined with "Padang Bulan")			는 이 나 때 # ]
E - U.E.			

Figure AN-3-6 Installation Target of Tuntungan Exchange



Cinta Damai Exchange Installation Target of Figure AN-3-7

Figure AN-3-8 Installation Target of Simpang Limun Exchange

TANDOMG MUCLAR EX.  100  Year  Year		(, 01x)	
1984 88 86 87 88 89 1390 81 92 93 94 95 95 95 95 95 95 95 95 95 95 95 95 95	٧.		
1984 88 86 87 88 89 1390 91 92 93 94 95 96 97 98 99 2000 01 02 03 04 1.3 1.6 2.3 3.9 3.9 6.5 5 8.5 6.5 5 8.7 7.6 7.6 84.0 85.0 80 91 7.6 7.6 84.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 85		TANTITUE MITTA EX	
10  10  10  11  12  13  14  15  16  17  18  18  18  18  18  18  18  18  18			
10 In			
10  10  11  12  13  14  15  16  17  18  18  18  18  18  18  18  18  18			
10  10  11  12  13  14  15  16  17  18  18  18  18  18  18  18  18  18		20	
10			
10  10  11  12  13  14  15  15  16  17  17  17  18  18  18  18  18  19  19  19  19  19			
10  10  11  11  12  13  14  15  16  17  18  18  18  18  18  18  18  18  18		1==	
10  10  11  11  11  11  11  11  11  11		ļ	
10			Primary
10			Thursday
10			
10		i i	
1084 SS 86 S7 SS 89 1990 91 92 93 94 95 96 97 98 99 2000 01 02 03 04  Unit 1.3 1.6 2.3 3.5 3.9 6.5 14.0 12.6 17.7  ry Cable rk			
nd       1.984       85       86       87       88       89       12.7       12.7         Try Cable       1.8       2.3       3.5       3.9       6.5       12.6       12.7         rk		10	
nd 1.3 86 87 88 89 1990 91 92 93 94 95 96 97 98 99 2000 01 02 03 04 Unit 1.6 2.4 3.9 6.5 14.0 12.6 17.7			
nd       1.3       1.8       89 1390       91 92 93       94 95 96 97       98 99 2000       01 02 03 04         Unit       1.3       1.6       2.3       3.9       6.5       14.0       12.6       17.7         ry Cable       1.8       1.6       2.4       3.9       6.5       14.0       12.7			
nd     1.984     85     86     87     88     89     1990     91     92     93     94     95     96     97     98     99     2000     01     02     03     04       Ind     1.3     1.8     2.3     3.5     3.9     6.8     8.7     12.7       Ind     1.6     2.4     3.9     6.5     12.6     17.7       Ind     1.6     2.4     3.9     6.5     12.6     17.7       Ind     1.6     2.4     3.9     6.5     12.6     17.7       Ind     1.6     2.4     3.9     6.5     14.0     19.5			
nd       1.3       1.6       2.3       3.9       6.5       7.6       14.0       19.5		1SE	
nd     1.984     85     86     87     88     89     1990     91     92     93     94     95     96     97     98     99     2000     01     02     03     04       Unit     1.3     1.6     2.4     3.9     6.5     12.7     12.7       ry Cable     4.0     7.6     14.0     19.5			
nd     1.984     85     86     87     88     89     1990     91     92     93     94     95     96     97     98     99     2000     01     02     03     04       Unit     1.3     1.6     2.4     3.9     6.8     8.7     12.7       ry Cable     4.0     7.6     14.0     12.6     17.7			
1984 85 86 87 88 89 1990 91 92 93 94 95 96 97 98 99 2000 01 02 03 04  Unit  Ty Cable  Trk			
nd     1.3     1.6     2.3     3.5     3.9     6.5     6.5       ry Cable     1.8     1.6     2.4     7.6     1.6     1.7.7			
nd         1.3         1.8         85         86         87         88         89         1990         91         92         93         94         95         96         97         01         02         03         04           nd         1.3         1.8         2.3         3.5         3.9         6.8         8.7         12.7         12.7           ry Cable         4.0         7.6         7.6         14.0         19.5         19.5			
nd         1.3         1.8         2.3         3.5         3.9         6.8         8.7         12.7           Unit         1.6         2.4         3.9         6.5         12.6         17.7           ry Cable         4.0         7.6         14.0         19.5			85 86 87 88 89 1990 91 92 93 94 95 96 97 99 99 2000 01 02 03 04
Unit     1.6     2.4     3.9     6.5     12.6     17.7       ry Cable     4.0     7.6     14.0     19.5       rk		Demand	3 3.9 6.8 8.7 12.7
4.0			3.9 6.5 12.6
Remark		Primary Cable	7.6
Remark			
		Remark	

Figure AN-3-9 Installation Target of Tanjung Mulia Exchange

Figure AN-3-10 Installation Target of Belawan Exchange

(E) (S)		
LABUHAN EX.		
(		
<b>)</b>		
		The Oute
		Ogble Ogble
	1	
Year	1984 85 86 87 88 89 1990 91 92 93 94 95 96 97 98 99 2000	01 02 03 04 2005
Demand	0.4	6.1 8.5
Line Unit	3.0	.5
Primary Cable	ble 3.4 6.7 6.7	9.4
:		
Remark		

Figure AN-3-11 Installation Target of Labuhan Exchange

Figure AN-3-12 Installation Target of Semarang Area

						Œ,								85 86 87 88 89 1990 91 92 93 94 95 96 97 98 99 2000 01 02 03	14.8 17.3 19.2 22.4 25.2 32.0 32.0 37.4	15.6 37.4 37.2	24.6	25.4
	置	G G	SEMARANG I EX.	029		40		2		50		0,1		Year 1984	Demand	Line Unit	Primary Cable	- t

Figure AN-3-13 Installation Target of Semarang I Exchange

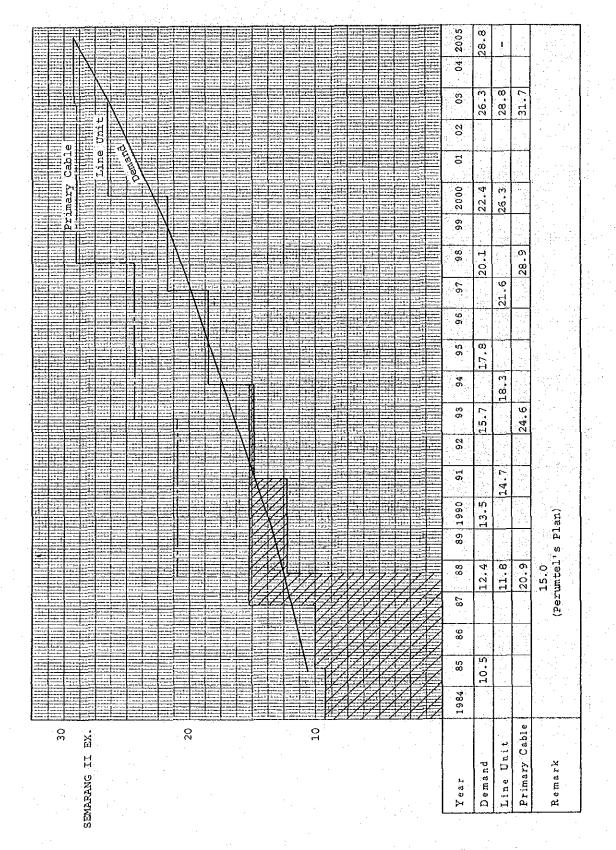


Figure AN-3-14 Installation Target of Semarang II Exchange

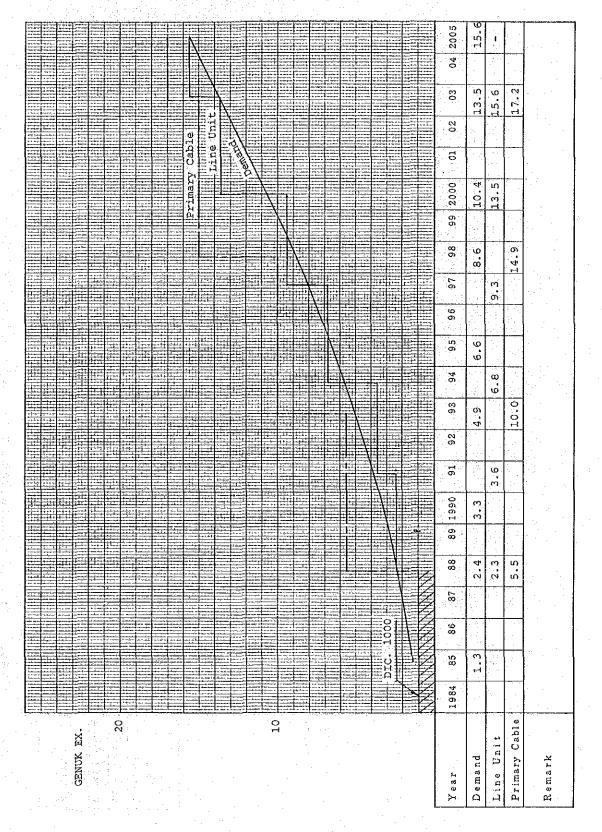


Figure AN-3-15 Installation Target of Genuk Exchange