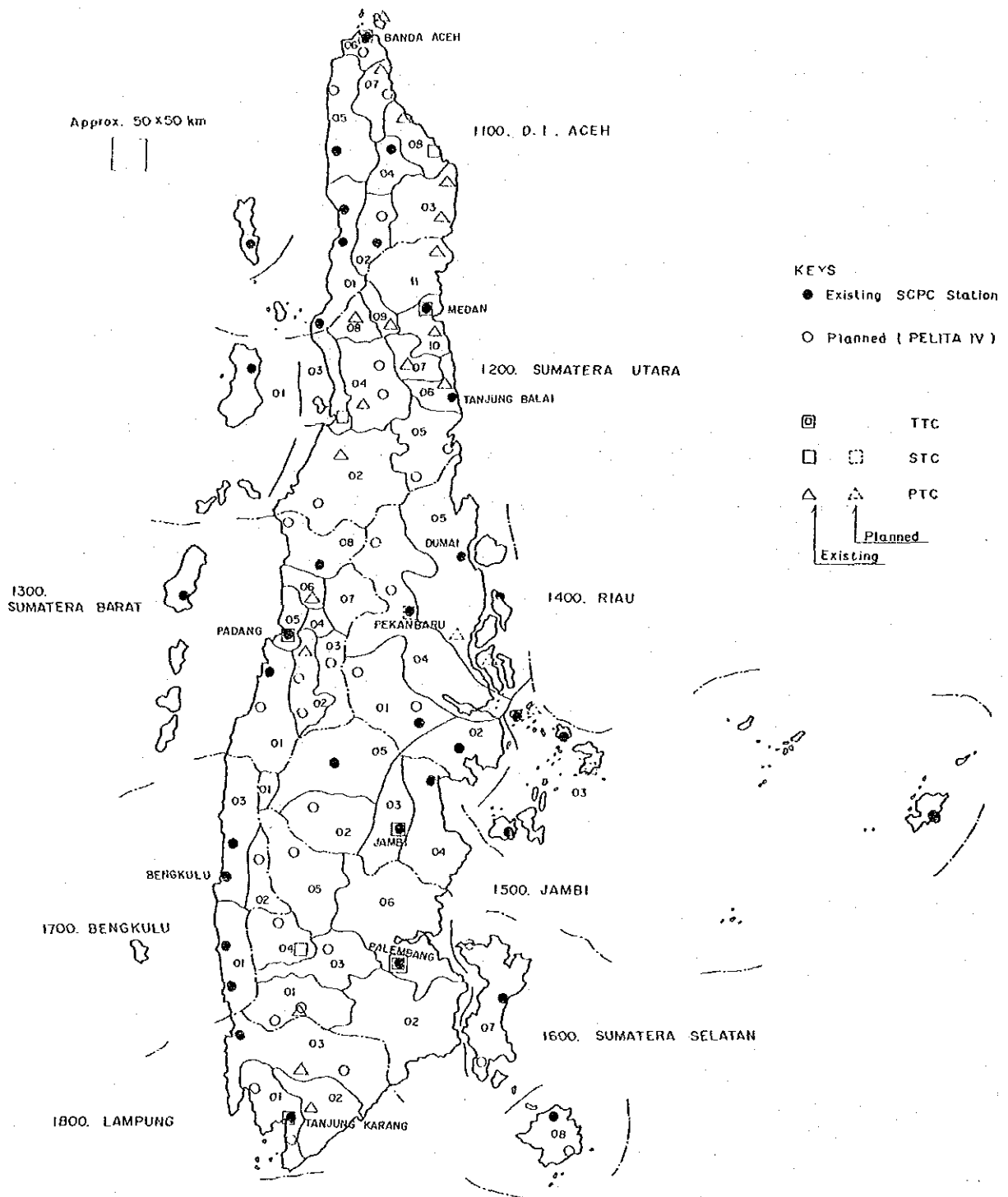


ANNEX 2-6-3

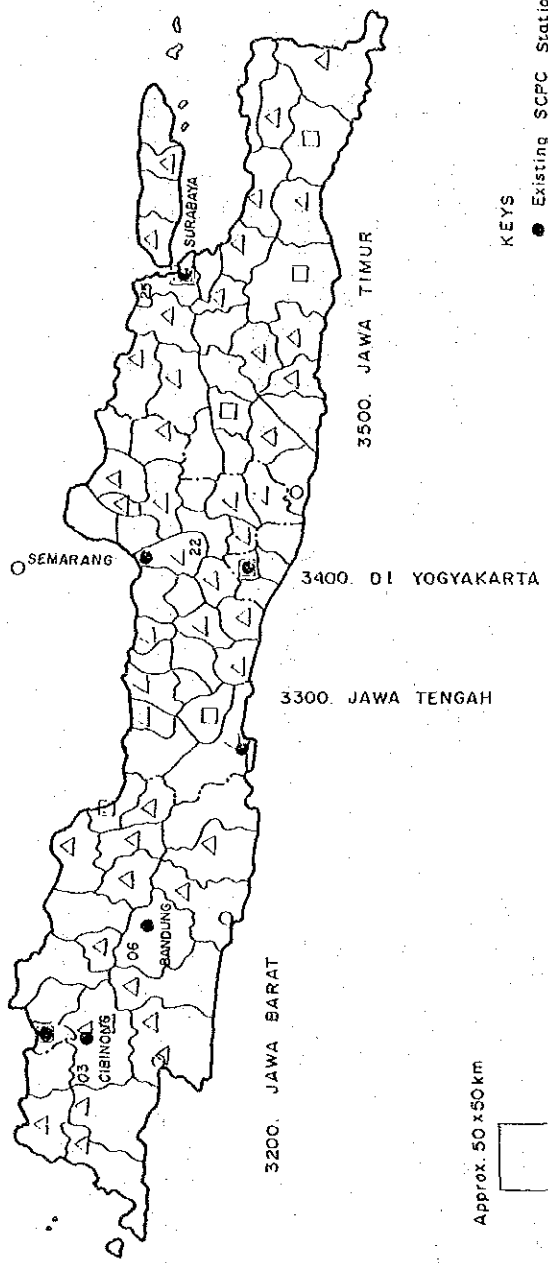
Location Maps of SCPC Stations /
superimposed on Terrestrial Network

SUMATERA



JAWA

3100. DKI JAKARTA



3200. JAWA BARAT

3300. JAWA TENGAH

3400. DI YOGYAKARTA

3500. JAWA TIMUR

Approx. 50 x 50km

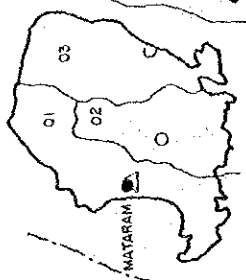
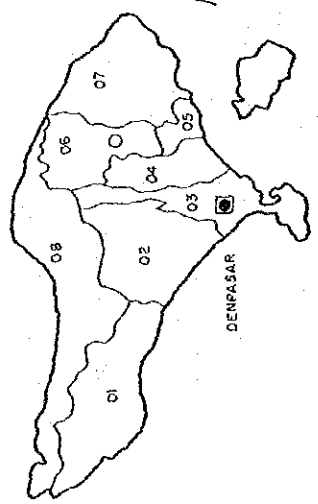


- KEYS
- Existing SCPC Station
 - Planned (PELITA IV)

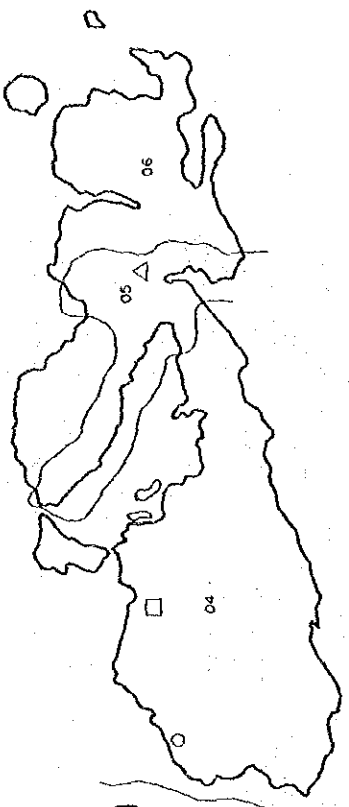
- TTC
- STC
- △ PTC
- ↑ Planned
- ↓ Existing

BALI / NUSA TENGGARA BARAT

SIDD. BALI

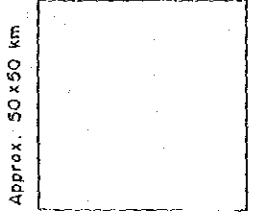


S200. NUSA TENGGARA BARAT

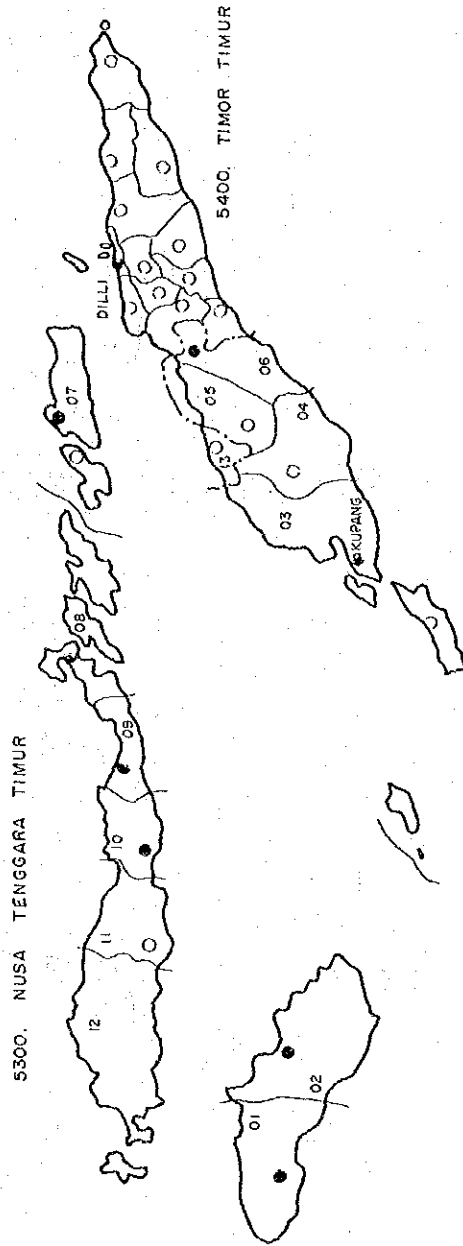


KEYS
 ● Existing SCPC Station
 ○ Planned (PELITA IV)

⊠ TTC
 □ STC
 △ PTC
 ↑ Planned
 ↓ Existing



NUSA TENGGARA TIMUR / TIMOR TIMUR



KEYS
 ● Existing SCPC Station
 ○ Planned (PELITA IV)

☐ TTC
 □ STC
 △ PTC
 — Planned
 — Existing

Approx. 50x50 km



KALIMANTAN

KEYS

● Existing SPC Station

○ Planned (RELITA IV)

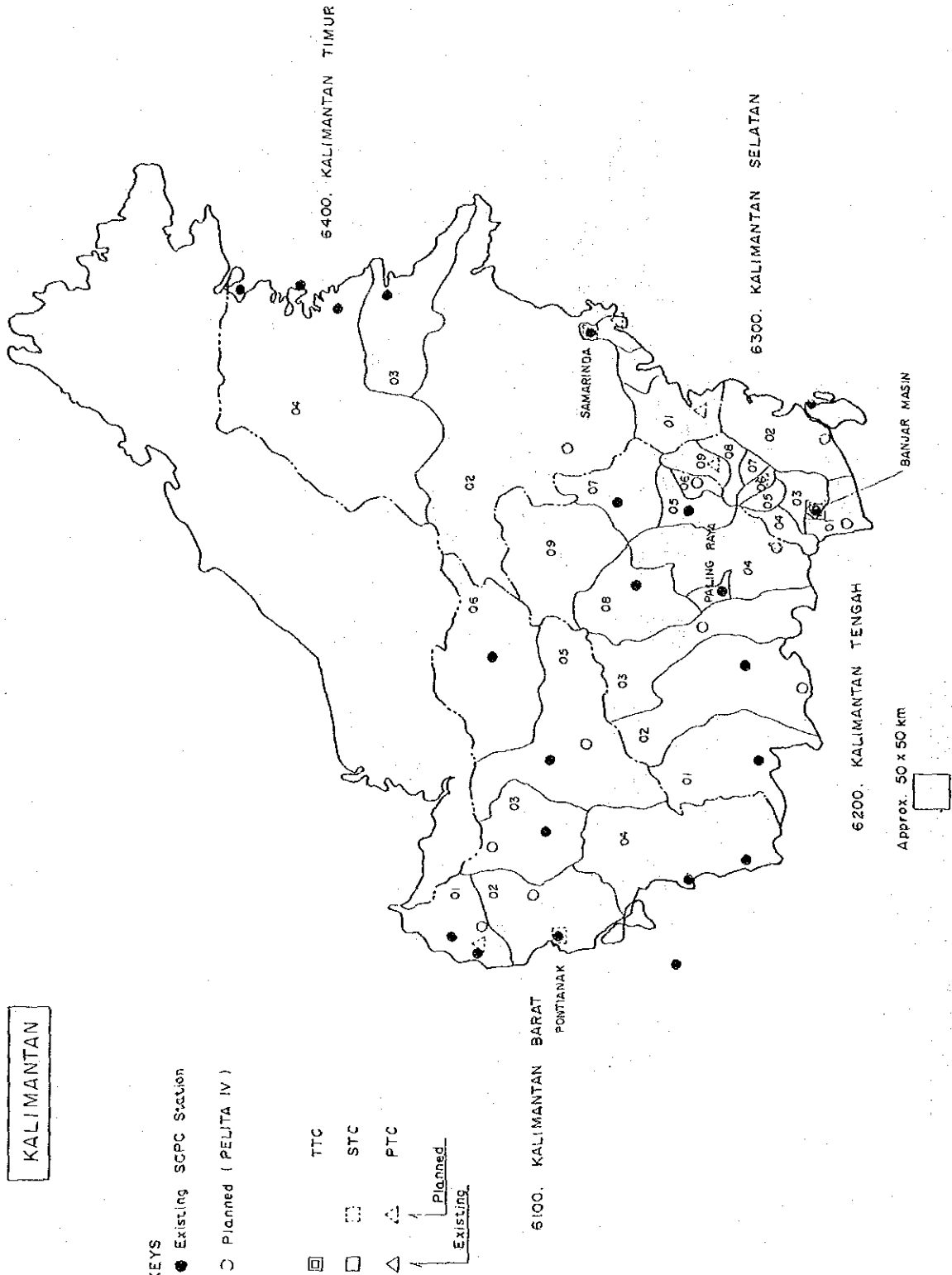
▣ TTC

□ STC

△ PTC

↑ Planned

↓ Existing



SULAWESI

KEYS

● Existing SCPC Station

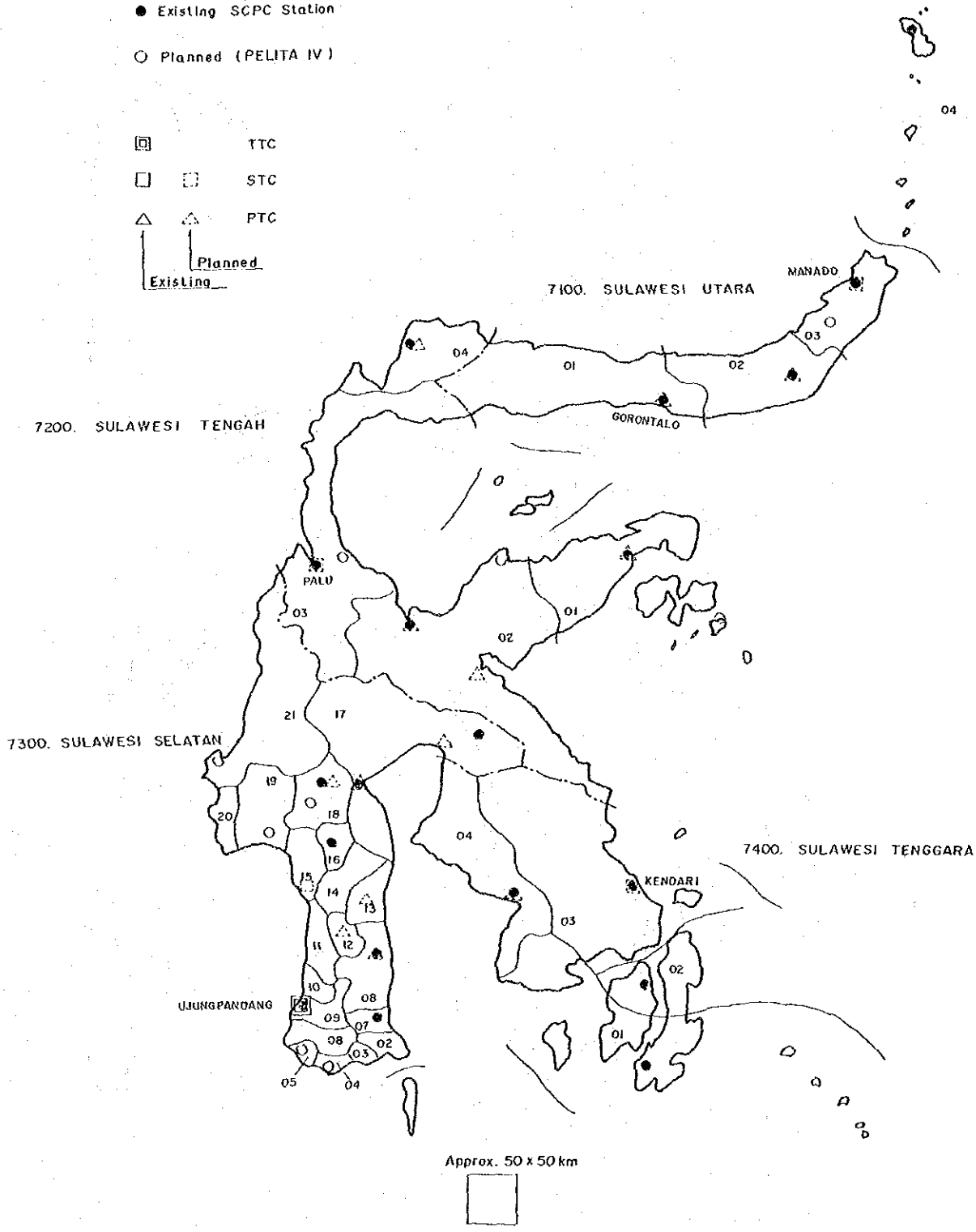
○ Planned (PELITA IV)

▣ TTC

□ STC

△ PTC

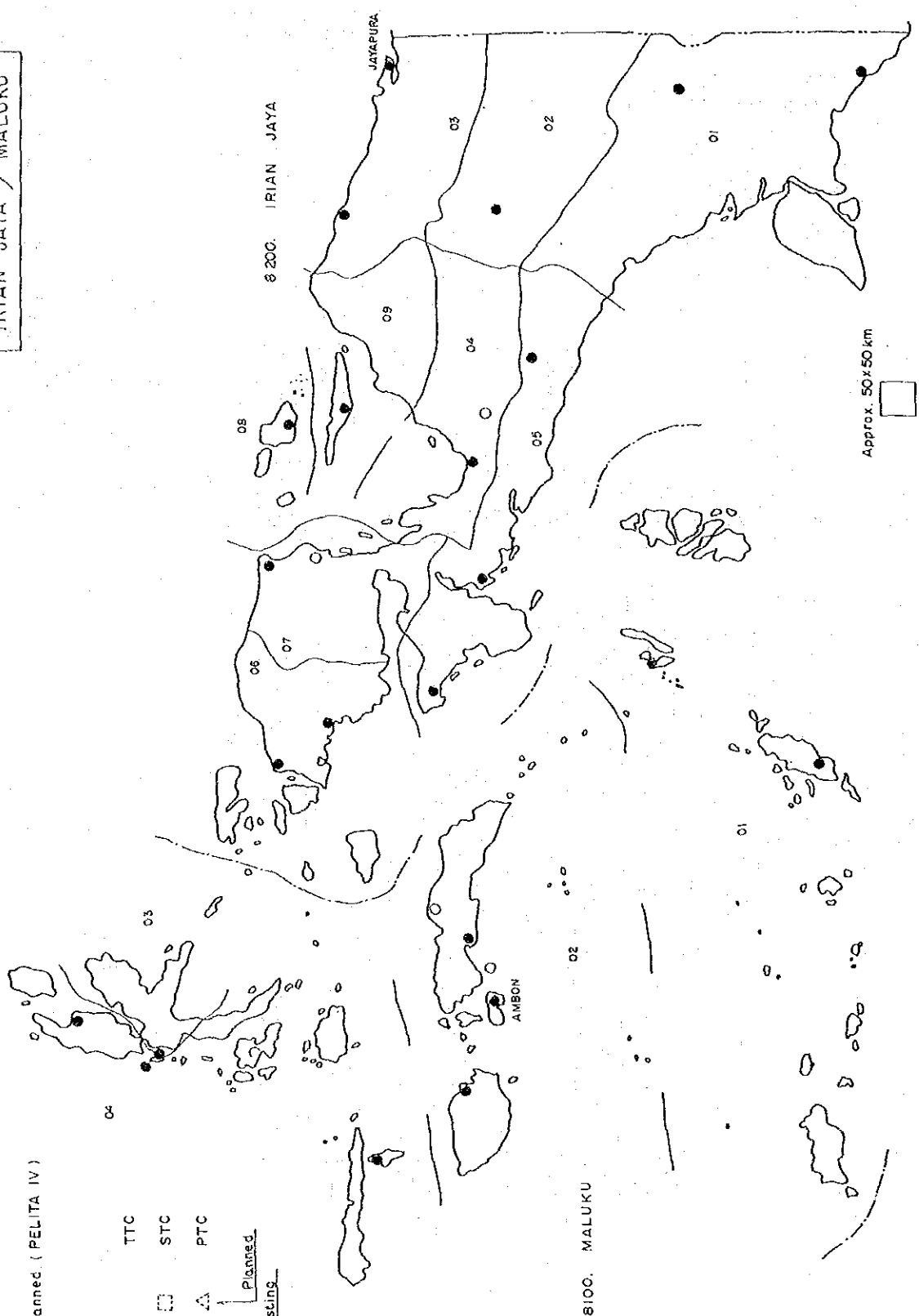
▣ Planned
 ▣ Existing



IRIAN JAYA / MALUKU

KEYS

- Existing SPC Station
- Planned (PELITA IV)
- ▣ TTC
- STC
- △ PTC
- ┌ Planned
- └ Existing



ANNEX 2-6-4

Accessibilities of each KABUPATEN

Code No.	Kabupaten/ Kodya	Demographic Data		Satellite Communications				Telephone Subscribers		Indices				
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	SCPC 1984/1989	No. of St. No. of Modems 1984/1989	SCPC 1984/1989	FDMATDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III
1100	PROPINSI D.I. ACEH	2,920,992 4,371,500	46,405	62.9/94.2		8/13	71/161		5,995	15,907 41,646				
01	KAB. ACEH SELATAN	309,325 450,265	9,307	33.2/48.4	NEULABOH Rice Crop	3/3	9/27		148	1,689 3,914	130	x		o
02	KAB. ACEH TENGGARA	185,228 301,634	3,625	51.1/83.2	TAKENONG Tourism	1/2	3/14		102	940 2,246	100	x		*
03	KAB. ACEH TIMUR	477,957 751,898	9,070	52.7/82.9	LHOKSEUNAME Industry	0/0	-		1,031	2,810 8,074	75	o		*
04	KAB. ACEH TENGAH	171,997 192,346	5,369	32.0/35.8	Pulp	1/1	2/9		191	872 1,311	65	x		*
05	KAB. ACEH BARAT	321,573 489,608	6,713	47.9/72.9		2/3	6/23		257	1,737 4,350	135	x		o
06	KAB. ACEH BESAR	263,170 393,435	3,263	80.7/120.6	Animel Husbandry	0/1	0/5		24	1,351 3,175	40	o		o
07	KAB. PIDIE	378,296 533,323	4,131	91.6/129.1	Fishery	0/1	0/5		489	2,050 4,848	60	o		*
08	KAB. ACEH UTARA	703,057 1,079,761	4,758	147.8/226.9		0/0	-		1,524	4,458 13,728	87	o		*
71(06)	KODYA BANDA ACEH (A)	81,557 131,145	19	-	BANDA ACEH Animel Hus.	1/1	51/73	108/138	1,933	-	-	o		o
72(06)	KODYA SABANG (B)	28,678 48,087	150	-		0/0	-		296	-	-	o		o
					JANTHOI	0/1	0/5							

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	SCPC 1984/1989	FDMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III		
		1984/2000	(km ²)	(/km ²) 1984/2000	SCPC 1984/1989	SCPC 1984/1989	FDMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	Graphical PTC/IKK	Access to Road	Condition		
1200	PROP. SUMATERA UTARA	9,274,271 13,159,400	65,844	140.9/199.9	3/4	82/167	31,624	37,596 98,923						
01	KAB. NIAS	511,963 497,448	4,761	107.5/146.5	1/1	3/6	189	2,379 5,616	75	x	o	Island		
02	KAB. TAPANULI SELATAN	843,140 1,158,027	9,661	87.3/119.9	0/1	0/5	607	4,457 11,772	108	o	*	*		
03	KAB. TAPANULI TENGAH	185,473 263,188	2,415	76.8/109.0	0/0	-		797 1,580	52	o	o	o		
04	KAB. TAPANULI UTARA	737,468 907,999	15,670	47.1/57.9	0/2	0/10	373	3,847 8,395	72	x	o	o		
05	KAB. LABUHAN BATU	618,463 934,317	7,220	85.7/129.4	0/2	0/10	632	3,041 8,572	72	x	*	*		
06	KAB. ASAHAN	884,260 1,302,781	4,707	187.9/276.8	0/0	-	771	4,618 13,809	33	o	*	*		
07	KAB. SIMALUNGUN	843,555 1,158,027	4,932	171.0/234.8	0/0	-	183	4,330 11,602	50	o	*	*		
08	KAB. DAIRI	268,802 381,623	3,429	78.4/111.3	0/0	-	223	1,170 2,508	20	o	*	*		
09	KAB. KARO	241,534 328,985	1,442	167.5/228.1	0/0	-	535	1011 2,035	55	o	*	*		
10	KAB. DELI SERDANG	1,343,652 1,897,563	4,419	304.1/384.2	0/0	-	278	7,762 20,586	68	o	*	*		
11	KAB. LANGKAT	308,518 1,210,665	6,007	134.6/201.5	0/0	-	270	4,184 12,448	75	o	*	*		

Code No.	Kabupaten/ Kodya	Demographic Data		Satellite Communications				Telephone Subscribers			Indices				
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	No. of St. No. of Modems		No. of Oct. Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	I	II	III
						SCPC 1984/1989	SCPC 1984/1989								
71(01)	KODYA SIBOLGA (A)	65,222 92,116	177	-		0/0	-	-	820	-	0	0	0	0	0
72(05)	KODYA TANJUNG BALAI (B)	46,391 65,797	51	-		1/1	3/10	-	430	-	0	0	0	0	0
73(04)	KODYA KOTA SIANTAR (C)	159,450 210,550	6	-		0/0	-	-	3,664	-	0	0	0	0	0
74(10)	KODYA TEBING TINGGI (D)	102,043 171,072	107	-		0/0	-	-	788	-	0	0	0	0	0
75(09)	KODYA MEDAN (E)	1,530,123 2,460,808	789	-		1/1	76/96	240/870	20,924	-	0	0	0	0	0
76(11)	KODYA BINJAI (F)	83,736 118,435	51	-		0/0	-	-	937	-	0	0	0	0	0

BAGANSIA PIAPI 0/5
 STABAT 0/5
 DOLOC MARANGIR 0/5
 KUALA 0/5
 KEMBANG MUDA 0/5
 PULAU RAKYAT 0/5

Code No.	Kabupaten/ Kodya	Demographic Data				Satellite Communications				Telephone Subscribers			Indices				
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	SCPC 1984/1989	No. of St. No. of Modems SCPC PDMA+TDMA 1984/1989 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	Geo- graphical PTC/IKK	Access to Road Condition			
															8,346	9,739 17,517	0
1300	PROP. SUNATERA BARAT	3,635,397 4,579,000	68,176	53.3/67.2													
01	KAB. PESISIR SELATAN	337,904 425,847	5,751	58.8/74.0		1/2	3/14	120	1,169 2,175	125	x	o					
02	KAB. SOLOK	375,431 453,321	7,121	52.7/63.7		0/2	0/10		1,307 2,359	87	x	o					
03	KAB. SAWAH LUNTO/ SIJUNJUNG	242,753 325,109	6,006	40.4/54.1		0/1	0/5	87	862 1,607	117	x	o					
04	KAB. TANAH DATAR	341,598 412,110	1,405	243.1/293.3		0/0	-	141	1,090 1,986	41	x	o					
05	KAB. PADANG PARIAMAN	473,197 494,532	6,667	71.0/74.2		1/1	1/9	155	1,627 2,605	46	o	*					
06	KAB. AGAM	414,574 494,532	2,019	205.3/244.9		0/0	-	168	1,337 2,489	60	x	o					
07	KAB. LIMAPULUH KOTA	281,975 306,793	3,571	79.0/85.9		0/0	-		955 1,476	46	x	*					
08	KAB. PASAMAN	390,947 522,006	9,537	41.0/54.7		0/2	0/10	130	1,392 2,820	94	x	o					
71(05)	KODYA PADANG (A)	527,204 819,641	628	-		1/1	32/35	5,088	-	-	o	o					
72(02)	KODYA SOLOK (B)	35,839 50,369	58	-		0/0	-	550	-	-	o	o					
73(03)	KODYA SAWAH LUNTO (C)	14,528 13,737	66	-		0/1	0/5	89	-	-	x	o					

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers		Indices			
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	Industry	SCPC 1984/1989	SCPC 1984/1989	No. of St. No. of Modems 1984/1989	FDMA/TDMA 1984/1989	Existing Subscribers 1983	Demand 1984/2000	I	II	III
74(04)	KODYA PADANG PANJANG (D)	<u>36,449</u> 45,790	23	-	-	-	0/0	-	212	-	-	x	-	o
75(06)	KODYA BUKIT TINGGI (E)	<u>76,178</u> 96,159	25,239	-	-	-	0/0	-	1,242	-	-	o	-	o
76(07)	KODYA PAYA KURBUH (F)	<u>86,616</u> 119,054	85	-	-	-	0/0	-	364	-	-	x	-	o

SUNCAI PERUIH
LUBUK BASUNG
SUNCAI DAREH
TALLI

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications			Telephone Subscribers		Indices				
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	SCPC 1984/1989	No. of Modems 1984/1989	SCPC 1984/1989	SCPC 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III
												Geo- Graphical	Access to PTC/IKK	Road Condition
1400	PROP. RIAU	2,456,206 3,847,900	94,032	26.1/40.9					5,403	9,905 22,404				
01	KAB. INDRAGIRI HULU	254,295 361,703	15,855	16.0/22.8	1/3	3/20	RENGAI Agriculture Industry		214	1,094 1,986	65	x	o	
02	KAB. INDRAGIRI HILIR	465,474 781,124	11,606	40.1/67.3	1/1	4/9			257	2,009 4,983	43	x	*	
03	KAB. KEPULAUAN RIAU	467,665 688,774	8,100	57.7/85.0	4/4	65/85	TG. PINANG Commerce Industry Tourism	(P. BATAH) 72/162	986	1,958 4,188	78	x	* Island	
04	KAB. KAMPAR	402,468 619,512	28,291	14.2/21.9	0/2	0/10	P. FANGARAIAN Agriculture		116	1,803 3,867	100	x	*	
05	KAB. BENGKALIS	647,114 1,023,541	30,117	21.5/34.0	2/2	27/37	DUMAI Industry Commerce Mining		849	3,041 7,380	110	x	*	
71(04)	KODYA PEKAN BARU (A)	219,003 373,246	63	-	1/1	45/51	PEKANBARU Agriculture	96/246	2,981	-	-	x	o	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	Industry	SCPC 1984/1989	SCPC 1984/1989	FDMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	
1500	PROP. JAMBI	1,677,692 2,870,900	53,435	31.4/53.7				3,414	5,180 10,376					
01	KAB. KERINCI	263,862 399,055	4,200	62.8/95.0	SUNCAI PENULI Food, Vegetable	0/0	-	476	911 1,588	x		*		
02	KAB. SAROK	259,855 467,957	14,200	18.3/33.0	BANGKO Rubber, Food	0/1	0/5		980 2,010	x		*		
03	KAB. BATANG HARI	254,917 422,022	11,200	22.8/37.7	Industry	0/0	-		937 1,776	o		*		
04	KAB. TANJUNG JABUNG	330,640 605,760	10,200	32.4/59.4	KUALA TUNGKAL Food, Fishery	1/1	4/22	20	1,243 2,610	x		*		
05	KAB. BUNGO TEBO	304,244 531,213	13,500	22.5/40.8	MUARA BUNGO Rubber	1/1	4/9	0	1,109 2,392	x		o		
71(03)	KODYA JAMBI (A)	260,125 424,893	135	-	JAMBI Industry	1/1	23/39	2,918	-	-	o	o		
					SEKAYU	1/1	1/9							
					MUARA TEBO	0/1	0/5							

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications			Telephone Subscribers		Indices			
		Population 1984/2000 (km ²)	Area (km ²)	Pop. Density (/km ²) 1984/2000	Industry	SCPC 1984/1989	SCPC 1984/1989	No. of St. No. of Modems SCPC PNMAT/DMA 1984/1989	No. of Oct. Existing Subscribers 1983	Access Demand 1984/2000	I	II	III
1600	PROP. SUMATERA SELATAN	5,277,565 8,439,900	101,591	51.9/83.1				8,764	22,307 62,118				
01	KAB. OGAN KOMERING ULU	876,191 1,468,543	13,169	66.5/111.5	BATURAJA Rice Crop	0/2	0/10	563	5,239 16,068	85	0	*	
02	KAB. OGAN KOMERING ILIR	635,235 979,028	25,775	24.6/38.0	KAYU ACUNG	0/0	-	168	3,603 9,081	65	x	*	
03	KAB. LEMATANG ILIR OGAN TENGAH	478,164 683,632	9,899	48.3/69.1	LAHAT Coffee	0/0	-	345	2,451 5,539	86	x	o	
04	KAB. LAHAT	549,638 860,870	4,798	114.6/179.4	Vegetable	0/1	0/5	958	2,808 7,233	86	o	o	
05	KAB. MUSIRAWAS	425,648 717,392	13,117	32.5/54.7	LUBUK LINGGAU Coffee, Veg.	0/1	0/5	615	2,192 5,772	80	x	*	
06	KAB. MUSI BANYU ASIN	675,177 1,139,367	16,120	41.9/70.7		0/0	-	3	2,804 11,128	165	x	*	
07	KAB. BANGKA	454,285 708,952	10,470	43.4/67.7	BELITUNG Industry	1/2	65/70	0	2,326 5,646	150	x	o	Island
08	KAB. BELITUNG	185,117 295,397	7,969	23.2/37.1		1/1	4/9	125	883 1,631	70	x	o	Island
71(06)	KODYA PALEMBANG (A)	897,214 1,426,343	263	-	PALEMBANG	1/1	52/131	5,178	-	-	o	o	
72(07)	KODYA PANGKAL PINANG (B)	100,755 160,358	11	-		0/0	-	809	-	-	x	o	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000 (km ²)	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	No. of Oct. Existing FDMA-TDMA Subscribers 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	Geo- Graphical PTC/IKK	I	II	III
1700	PROP. BENGKULU	<u>905,161</u> 1,628,200	10,225	88.5/159.2				1,521	2,804 5,620					
01	KAB. BENGKULU SELATAN	<u>279,553</u> 488,460	3,372	82.9/144.9		2/2	6/18	57	947 1,848		x		o	
02	KAB. REJANG LEBONG	<u>342,384</u> 612,203	2,659	128.8/230.2		0/1	0/5	505	<u>1,131</u> 2,329		x		o	
03	KAB. BENGKULU UTARA	<u>207,110</u> 380,999	4,004	51.7/95.2		1/1	3/9	0	726 1,443		x		o	
71(03)	KODYA BENGKULU (A)	<u>76,096</u> 146,538	190	-		1/1	46/53	959	-		x		o	
1800	PROP. LAMPUNG	<u>5,720,948</u> 12,533,400	34,857	164.1/359.6				5,702	17,782 44,362					
01	KAB. LAMPUNG SELATAN	<u>2,167,178</u> 4,687,492	6,621	327.3/708.0	B. LAMPUNG Agriculture	0/2	0/10	815	<u>7,077</u> 17,649	107	o		*	
02	KAB. LAMPUNG TENGAH	<u>2,148,172</u> 4,812,826	8,913	241.0/540.0	METRO Agriculture	0/0	-	538	7,205 18,543	80	o		*	
03	KAB. LAMPUNG UTARA	<u>1,055,726</u> 2,306,146	19,271	54.8/119.7	KOTABUNI Agriculture	1/2	1/14	368	3,500 8,170	145	x		*	
71(01)	KODYA TANJUNG KARANG (A)	<u>349,511</u> 726,937	52	-		1/1	29/25	3,981	-		o		o	
					PRING SEWU BANDAR JAYA WAY JEPARA	0/5 0/5 0/5								

Code No.	Kabupaten/ Kodya	Demographic Data		Satellite Communications			Telephone Subscribers		Indices			
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	SCPC 1984/1989	No. of St. No. of Modems 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III
3100	DKI. JAKARTA	7,591,157 12,795,400	658	-	1/11)	257/429	845/ 2,550	162,635	-	-	-	-
71	JAKARTA SELATAN	1,771,824 2,635,852	147	-				35,080	-	-	0	0
72	JAKARTA TIMUR	1,851,456 3,825,825	185	-				21,859	-	-	0	0
73	JAKARTA PUSAT	1,414,010 2,200,809	56	-				69,482	-	-	0	0
74	JAKARTA BARAT	1,502,549 2,814,988	131	-				14,649	-	-	0	0
75	JAKARTA UTARA	1,047,862 1,317,926	139	-				21,565	-	-	0	0

1): JAKARTA/GAMBIR
JAKARTA 1
JAKARTA 2

Code No.	Kabupaten/ Kodya	Demographic Data				Satellite Communications			Telephone Subscribers			Indices			
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	SCPC 1984/1989	SCPC 1984/1989	FOMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	Geo- Graphical PIC/IKK	I	II	III	
															Access to Road Condition
3200	PROP. JAWA BARAT	30,234,818 40,946,800							45,122	120,491 361,764					
01	KAB. PANDEGLANG	781,885 1,064,617	2,618	298.7/406.7	CILEGON Fishery	0/0	-		388	2,961 7,367	63	0	0		
02	KAB. LEBAK	755,109 1,023,670	3,134	240.9/326.6	Tourism	0/0	-		603	2,864 7,018	63	0	0	*	
03	KAB. BOGOR	2,750,407 3,971,840	3,126	879.8/ 1,270.6	Industry	1/1	77 ¹ /77		492	13,876 51,315	38	0	0	*	
04	KAB. SUKABUMI	1,688,780 2,293,021	4,281	394.5/535.6	Plantation	0/1	0/5		2,217	7,530 22,355	75	0	0	*	
05	KAB. CIANJUR	1,539,219 2,047,340	3,583	429.6/571.4	Commerce	0/0	-		1,083	6,654 18,848	78	0	0	0	
06	KAB. BANDUNG	2,934,153 4,094,680	3,381	867.8/ 1,211.1		1/1	22 ¹ /2		1,110	15,150 53,813	37	0	0	*	
07	KAB. GARUT	1,656,951 2,252,074	2,976	556.8/736.7		0/1	0/5		1,135	7,243 21,617	50	0	0	*	
08	KAB. TASIK MALAYA	1,777,987 2,415,861	3,210	553.9/752.6	Port	0/0	-		207	7,938 24,065	50	0	0	*	
09	KAB. CIAMIS	1,486,404 1,883,553	2,673	556.1/704.7		0/0	-		3,305	6,257 16,587	55	x	x	*	
10	KAB. KUNINGAN	874,662 1,146,510	1,085	806.1/ 1,056.7	Industry	0/0	-		261	3,230 7,998	32	0	0	*	
11	KAB. CIREBON	1,454,370 1,924,500	1,109	1,311.4/ 1,735.3		0/0	-		224	5,897 16,845	30	0	0	*	
12	KAB. MAJALENKA	971,736 1,269,351	1,035	938.9/ 1,226.4		0/0	-		273	3,616 9,221	25	0	0	*	

Code No.	Kabupaten/ Kodya	Demographic Data		Satellite Communications		Telephone Subscribers		Indices				
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	SCPC 1984/1989	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II
13	KAB. SUNEDANG	788,264 1,023,670	1,531	514.9/668.6		0/0	-	344	2,897 6,892	25	0	*
14	KAB. INDRAMAYU	1,336,781 1,760,712	2,117	631.5/831.7		0/0	-	521	5,437 14,952	25	0	*
15	KAB. SUBANG	1,177,995 1,555,978	1,959	601.3/794.3	CIKANPEK Agriculture	0/0	-		4,681 12,492	32	x	0
16	KAB. PURWAKARTA	512,065 696,096	997	513.6/698.2		0/0	-	809	1,784 4,070	19	x	0
17	KAB. KARAWANG	1,360,862 1,801,639	1,716	793.0/ 1,049.9		0/0	-	1,706	5,539 15,402	34	x	0
18	KAB. BEKASI	1,243,571 1,719,766	1,498	803.2/ 1,148.0		0/0	-	-	4,917 14,366	23	x	*
19	KAB. TANGERANG	1,691,312 2,374,914	1,379	1,226.5/ 1,722.2		0/0	-	-	7,202 23,108	20	x	0
20	KAB. SERANG	1,211,845 1,637,872	1,851	654.7/884.9		0/0	-	1,347	4,818 13,433	30	0	0
71(03)	KODYA BOGOR (A)	272,185 368,521	22	-		0/0	-	6,328	-	-	0	0
72(04)	KODYA SUKABUMI (B)	120,979 163,787	14	-	SUKABUMI	0/0	-	-	-	-	0	0
73(06)	KODYA BANDUNG (C)	1,604,116 2,129,234	86	-	BANDUNG	1/1	31/78	72/582	18,464	-	0	0
74(11)	KODYA CIRESON (D)	242,785 327,574	44	-	CIRESON	0/0	-	-	4,305	-	0	0

1): Excluding TEST CIBINONG
2): BANDUNG Training Center

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	No. of St. No. of Modems SCPC 1984/1989	No. of Modems SCPC 1984/1989	No. of Oct. FDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	
													Geo- graphical	Access to Road Condition
3300	PROP. JAWA TENGAH	26,780,706 31,750,900						38,093	72,353 164,906					
01	KAB. CILACAP	1,416,969 1,746,300	2,338	606.1/746.9	CILACAP Heavy Ind.	1/1	3/29	1,001	4,452 11,959	68	0	0	*	
02	KAB. BANYUMAS	1,287,069 1,492,292	1,310	982.5/ 1,139.2	Agriculture	0/0	-	1,635	3,873 9,485	25	0	0	*	
03	KAB. PURBALINGGA	697,654 793,773	765	912.0/ 1,037.6	Food	0/0	-	283	1,965 4,049	15	0	0	*	
04	KAB. BANJAR NEGARA	699,862 825,523	1,134	617.2/728.0		0/0	-	583	2,009 4,305	30	0	0	*	
05	KAB. KEBUMEN	1,074,858 1,206,534	1,368	785.7/882.0		0/0	-	691	3,183 7,105	23	0	0	*	
06	KAB. PURWOREJO	725,643 825,523	1,114	651.4/741.0	Industry	0/0	-	524	2,084 4,302	18	0	0	*	
07	KAB. WONOSOBO	640,756 762,022	963	665.4/791.3	Commerce	0/0	-		1,830 3,871	22	0	0	*	
08	KAB. MAGELANG	990,043 1,143,032	1,142	866.9/ 1,000.9	Tourism	0/0	-	187	2,898 6,579	23	0	0	0	
09	KAB. BOYOLALI	829,156 952,527	1,103	751.7/863.6	Batik	0/0	-	120	2,398 5,171	40	x	0	*	
10	KAB. KLATEN	1,124,912 1,301,787	697	1,613.9/ 1,867.7	Industry	0/0	-	859	3,243 7,748	16	0	0	*	
11	KAB. SUKOHARJO	640,072 762,022	486	1,317.0/ 1,567.9	Tourism	0/0	-	98	1,770 3,800	26	0	0	*	
12	KAB. WONGIWI	968,711 1,047,780	1,918	505.1/546.3	Plantation	0/0	-	183	2,896 5,946	37	0	0	*	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices			
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	SCPC 1984/1989	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	FDMA/TDMA Subscribers 1983	Existing Subscribers 1983	Access Demand 1984/2000	Geo- Graphical PTG/IKK	I	II	III
13	KAB. KARANG ANYAR	641,819 762,022	1,492	430.2/510.7		0/0	-	217	1,875 3,922	38	o	x			
14	KAB. SRAGEN	802,845 984,278	1,001	802.0/983.3		0/0	-	213	2,307 5,384	20	x	x			
15	KAB. GROBOGAN	1,070,779 1,301,787	2,013	531.9/646.7		0/0	-	373	3,245 7,951	32	o	*			
16	KAB. BLORA	746,899 857,274	2,624	284.6/326.7	KADUS Tobacco	0/0	-	813	2,264 4,636	30	o	o			
17	KAB. REMBANG	479,035 571,516	1,035	462.8/552.2	Mining	0/0	-	356	1,383 2,722	36	o	o			
18	KAB. PATI	1,041,470 1,238,285	1,712	608.3/723.3	Home Industry	0/0	-	682	3,128 7,402	32	o	o			
19	KAB. KUDUS	563,143 698,520	406	1,387.1/ 1,720.5		0/0	-	941	1,539 3,389	13	o	*			
20	KAB. JEPARA	747,672 889,025	1,036	721.7/858.1		0/1	0/5	276	2,152 4,731	22	o	o			
21	KAB. DEMAK	720,649 857,274	1,062	678.6/807.2		0/0	-	217	2,075 4,509	19	x	*			
22	KAB. SEMARANG	727,504 825,523	1,008	721.7/819.0		0/0	-	333	2,074 4,290	20	o	*			
23	KAB. TEMANGGUN	588,782 730,171	833	706.8/876.7		0/0	-	454	1,668 3,652	20	o	x			
24	KAB. KENDAL	748,085 857,274	881	849.1/973.1		0/0	-	620	2,133 4,485	30	x	*			
25	KAB. BATANG	561,897 666,769	752	747.2/886.7	Industry	0/0	-	147	1,584 3,252	32	o	x			

Code No.	Kabupaten/ Kodya	Demographic Data				Satellite Communications				Telephone Subscribers			Indices			
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	SCPC 1984/1989	SCPC 1984/1989	No. of St. No. of Modems 1984/1989	No. of Cct. Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	Access to Road PTC/IKK Condition		
														Geo- graphical	PTC	IKK
3326	KAB. PEKALONGAN	694,604 857,274	874	794.7/980.9	Agriculture	0/0	-	-	1,976 4,485	32	0	0	x			
27	KAB. PEMALANG	992,316 1,174,783	1,047	947.8/ 1,122.0		0/0	-	-	2,886 6,815	33	0	0	*			
28	KAB. TENGAL	1,153,467 1,397,040	861	1,397.7/ 1,622.6		0/0	-	-	3,261 8,577	33	0	0	*			
29	KAB. BREBES	1,338,070 1,587,545	1,677	797.9/946.7		0/0	-	-	4,102 10,394	41	x	0	0			
71(08)	KODYA MAGELANG (A)	133,183 158,755	17	-		0/0	-	-	-	-	0	0	0			
72(11)	KODYA SURAKARTA (B)	484,803 571,516	79	-	SURAKARTA	0/0	-	-	5,161	-	0	0	0			
73(22)	KODYA SALATIGA (C)	82,298 95,253	19	-		0/0	-	-	719	-	0	0	0			
74(22)	KODYA SEMARANG (D)	1,095,119 1,492,292	354	-	SEMARANG	1/1	9/89	48/318	15,904	-	0	0	0			
75(26)	KODYA PEKALONGAN (E)	135,085 156,755	26	-	PEKALONGAN	0/0	-	-	2,224	-	0	0	0			
76(28)	KODYA TENGAL (F)	134,915 158,755	13	-		0/0	-	-	2,275	-	0	0	0			

Code No.	Kabupaten/ Kodya	Demographic Data		Satellite Communications				Telephone Subscribers		Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	Industry	SCPC 1984/1989	SCDC 1984/1989	FDMA/TDMA 1984/1989	SCPC 1984/1989	Access Demand 1984/2000	I	II Access to Road PIC/IRK Condition
3400	D.I. YOCYAKARTA	2,940,318 3,787,500	8,020	366.6/472.3					7477 16,165			
01	KAB. KULON PROCO	401,283 492,375	544	737.7/905.1	0/0	-			1,150 2,143	20	x	o
02	KAB. BANTUL	683,708 897,638	476	1,436.4/ 1,885.8	0/0	-			1,944 4,445	17	x	o
03	KAB. GUNUNG KIDUL	700,827 871,125	6,437	108.9/135.3	0/0	-			2,298 4,656	28	x	o
04	KAB. SIEMAN	728,163 969,600	530	1,373.9/ 1,829.4	0/0	-			2,085 4,921	22	o	o
71(04)	KODYA YOCYAKARTA (A)	426,316 556,763	33	-	1/1	3/107	60/240	3,812	-		o	o

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications			Telephone Subscribers		Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²)	SCPC 1984/1989	SCPC 1984/1989	No. of Modems No. of Oct. 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III
		1984/2000	1984/2000	1984/2000	1984/1989	1984/1989	1984/1989	1983	1984/2000	Geo- graphical	Access to PTC/IKK	Road Condition
3500	PROP. JAWA TIMUR	30,850,905 37,127,100					75,924	104,523 278,450				
01	KAB. PACITAN	493,921 519,779	1,376	360.4/377.7	0/1	0/5	167	1,719 3,172	28	x	*	
02	KAB. PONOROGO	807,231 853,923	1,454	555.2/587.3	0/0	-	548	2,919 6,164	23	o	o	
03	KAB. TRENGGALEK	588,256 705,415	1,099	535.3/641.9	0/0	-	146	2,042 4,720	37	x	o	
04	KAB. TULUNG AGUNG	867,189 1,002,432	1,086	798.5/923.0	0/0	-	904	3,134 7,662	24	o	*	
05	KAB. BLITAR	1,083,069 1,262,321	1,596	678.6/790.9	0/0	-	222	4,122 10,731	22	o	*	
06	KAB. KEDIRI	1,297,705 1,559,338	1,400	926.9/ 1,113.8	0/0	-	3,116	5,094 14,613	32	o	o	
07	KAB. MALANG	2,184,790 2,673,151	3,137	696.5/852.1	0/0	-	1,575	10,114 33,478	46	o	o	
08	KAB. LUMAJANG	925,284 1,113,813	1,283	721.1/868.1	0/0	-	1,047	2,413 8,927	35	o	o	
09	KAB. JEMBER	1,977,199 2,301,880	2,876	687.5/800.4	0/0	-	2,399	8,828 26,555	39	o	*	
10	KAB. BANYUWANGI	1,509,698 1,819,228	2,613	577.8/696.2	0/0	-	1,785	6,298 18,575	53	o	*	
11	KAB. BONDOWOSO	647,699 742,542	1,109	584.0/669.6	0/0	-	836	2,274 5,057	30	o	*	
12	KAB. SITUBONDO	555,242 631,161	1,573	353.0/401.2	0/0	-	6,250	1,956 4,099	36	x	o	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications			Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	SCPC 1984/1989	No. of Modems 1984/1989	No. of Cct. Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	
13	KAB. PROBOLINGGO	<u>923,543</u> 1,076,686	1,625	568.3/662.6	0/0	-	-	-	<u>3,446</u> 8,544	35	0	*	
14	KAB. PASURUAN	<u>1,107,266</u> 1,373,703	1,332	831.3/ 1,031.3	0/0	-	1,042	Industry	<u>4,225</u> 12,107	30	0	*	
15	KAB. SIDOARJO	<u>920,966</u> 1,188,067	634	1,452.6/ 1,873.9	0/0	-	129	Commerce	<u>3,317</u> 9,683	16	x	*	
16	KAB. MOJOKERTO	<u>741,489</u> 928,178	766	968.0/ 1,211.7	0/0	-	152	Services	<u>2,595</u> 6,830	30	0	*	
17	KAB. JOMBANG	<u>988,903</u> 1,225,194	946	1,045.3/ 1,295.1	0/0	-	969		<u>3,633</u> 10,194	22	x	*	
18	KAB. NGANJUK	<u>927,037</u> 1,113,813	1,179	786.3/944.7	0/0	-	499		<u>3,403</u> 8,912	20	x	*	
19	KAB. MADIUN	<u>678,383</u> 779,669	1,067	635.8/730.7	0/0	-	-		<u>2,387</u> 5,402	18	0	*	
20	KAB. MAGETAN	<u>622,223</u> 742,542	799	778.7/929.3	0/0	-	269		<u>2,132</u> 5,021	13	x	*	
21	KAB. NGAWI	<u>804,305</u> 965,305	1,391	578.2/694.0	0/0	-	233		<u>2,912</u> 7,300	29	x	*	
22	KAB. BOJONEGORO	<u>1,075,049</u> 1,299,449	2,259	475.9/575.2	0/0	-	726	TUBAN Agriculture	<u>4,181</u> 11,267	43	0	0	
23	KAB. TUBAN	<u>924,729</u> 1,113,813	1,926	480.1/578.3	0/0	-	392	Commerce	<u>3,471</u> 8,998	47	0	0	
24	KAB. LANONGAN	<u>1,110,454</u> 1,336,576	1,797	617.9/743.8	0/0	-	333		<u>4,279</u> 11,701	30	0	0	
25	KAB. GRESIK (SURABAY)	<u>746,352</u> 779,669	1,257	598.3/620.3	0/0	-	-		<u>2,654</u> 5,421	45	0	0	

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		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	FDMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	Geo- Access to Road	Graphical PIC/IRK	Condition
3526	KAB. BANGKALAN	713,132 816,796	1,260	566.0/648.3		0/0	-	164	2,171 5,069	38	x	*				
27	KAB. SANPAN	621,346 742,542	1,234	503.5/601.7	SUNENEP Animal Hus.	0/0	-	961	1,899 4,883	31	o	o				
28	KAB. PANEXASAN	558,173 705,415	775	720.2/910.2	Fishery, Salt	0/0	-	372	3,376 7,790	84	x	*				
29	KAB. SUNENEP	896,455 1,002,432	2,397	374.0/418.2		0/0	-	1,493	-	-	o	o				
71(06)	KODYA KEDIRI (A)	219,537 297,017	60	-	KEDIRI		-	952	-	-	o	o				
72(05)	KODYA BLITAR (B)	90,552 111,381	17	-			-	6,572	-	-	o	o				
73(07)	KODYA MALANG (C)	552,407 705,415	78	-			-	963	-	-	o	o				
74(13)	KODYA PROBOLINGGO (D)	95,099 148,508	61	-			-	1,615	-	-	o	o				
75(14)	KODYA PASURUAN (E)	118,632 111,381	15	-			-	1,957	-	-	o	o				
76(16)	KODYA MOJOKERTO (F)	63,772 74,254	9	-			-	408/1,530	36,635	117/1	120/216	408/1,530	36,635	-	o	
77(19)	KODYA MADIUN (G)	155,219 185,636	25	-			-	-	-	-	o	o				
78(25)	KODYA SURABAYA (H)	2,254,342 3,118,676	384	-			-	-	-	-	o	o				

KANGEAN

0/5

1) SURABAYA 1 + SURABAYA 2

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000 (km ²)	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	SCPC 1984/1989	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	FDMA/TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III
5100	PROPINSI BALI	2,619,668 3,303,300	4,829	542.5/684.1					6,681	9,467 20,701				
01	KAB. JENBRANA	221,605 293,994	572	387.4/514.0	JENBRANA Tourism	0/0	-	235	798 1,614		29	x	o	
02	KAB. TABANAN	359,832 432,732	796	452.1/543.6	TABANAN Fishery	0/0	-	344	1,294 2,613		29	x	o	
03	KAB. BADUNG	547,061 736,636	384	1,424.6/ 1,918.3	BADUNG Craft	1/1	12/149	4,720	1,977 5,213		26	o	o	
04	KAB. GIANJAR	322,712 396,396	417	773.9/950.6	GIANJAR	0/0	-	39	1,131 2,304		13	x	o	
05	KAB. KLUNGKUNG	155,196 178,378	315	492.7/566.3	KLUNGKUNG Agriculture	0/0	-	189	560 908		29	x	o	
06	KAB. BANGLI	168,388 204,805	453	371.7/452.1	BANGLI Tourism	0/1	0/5	90	612 1,065		32	x	o	
07	KAB. KARANG ASEM	320,199 376,576	809	395.8/465.5	KARANG ASEM Craft	0/0	-		1,145 2,196		30	x	o	
08	KAB. BULELENG	524,533 683,783	971	540.2/704.2	Fishery Tourism	0/0	-	1,064	1,950 4,788		40	x	o	
5200	PROPINSI NUSA TENGGARA BARAT	2,998,066 4,074,100	20,160	147.8/202.1					4,845	7,753 14,480				
01	KAB. LONBOK BARAT	724,625 1,002,229	1,641	441.6/610.7	MATARAM Industry (Transmigra- tion)	0/0	-	2,727	1,785 3,554		28	o	o	
02	KAB. LONBOK TENGAH	633,054 851,487	1,428	44.2/596.3	Mining	0/1	0/5	182	1,556 2,939		11	x	o	

Code No.	Kabupaten/ Kodya	Demographic Data		Satellite Communications			Telephone Subscribers		Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	SCPC 1984/1989	No. of St. No. of Modems No. of Cct. Existing FOMA-TDMA 1984/1989	Subscribers 1983	Access Demand 1984/2000	I	II
03	KAB. LOMBOK TIMUR	795,235 1,071,488	1,607	494.9/666.8	0/1	0/5	222	<u>1,946</u> 3,834	18	x	o
04	KAB. SUNBAWA	335,614 464,447	8,492	39.5/54.7	0/1	0/5	837	<u>996</u> 1,706	43	o	o
05	KAB. DOMPU	107,428 150,742	2,324	46.2/64.9	0/0	-	239	<u>354</u> 553	44	o	o
06	KAB. BIMA	402,100 533,707	4,598	87.5/116.1	0/0	-	638	<u>1,116</u> 1,894	17	x	o

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications			Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	No. of St. No. of Modems 1984/1989	SCPC 1984/1989	FDNA+TDNA 1984/1989	Existing Subscribers 1983	Demand 1984/2000	I	II	III
					Industry					Access	Geo- Graphical PTC/IKK	Access to Road Condition	
5300	PROVINSI NUSA TENGGARA TIMUR	2,986,810 4,145,700	47,142	63.4/97.9				2,119		8,533 14,150			
01	KAB. SUNDAWA BARAT	256,142 364,822	4,153	61.7/87.8	HAINGAPU Agriculture	1/1	3/9		42	733 1,232	x	*	
02	KAB. SUNDAWA BARAT	131,992 178,265	5,816	22.7/30.7	Animal Hus.	1/1	2/2		55	433 653	x	*	
03	KAB. KUPANG	441,625 634,292	7,314	60.4/86.7	KUPANG Administration Education	1/2	70/75	1,382	90	1,233 2,216	x	*	
04	KAB. TIMOR TENGAH SELATAN	316,496 443,590	4,017	78.8/110.4	Industry	0/1	0/5	67	45	877 1,489	x	o	
05	KAB. TIMOR TENGAH UTARA	146,347 198,994	2,750	53.2/72.4	Commerce	0/1	0/5	66	35	448 689	x	o	
06	KAB. BELU	197,221 273,616	2,516	78.4/108.8	Agriculture	1/1	3/9		50	568 914	x	o	
07	KAB. ALOR	132,390 161,682	2,985	44.4/54.2	ENDEH Fishery	1/1	1/9	78	48	416 577	x	*	
08	KAB. FLORES TIMUR	280,846 381,404	3,080	91.2/123.8		1/1	3/9		75	776 1,265	x	*	
09	KAB. SIKKA	236,699 319,219	1,770	133.7/180.3		1/1	2/9	265	60	647 1,036	x	*	
10	KAB. ENDEH	216,030 281,908	2,177	99.2/129.5		1/1	3/25		38	606 931	x	*	
11	KAB. NGADA	188,198 265,325	3,087	61.0/85.9		0/1	0/5		40	555 900	x	*	
12	KAB. MANGGARAI	442,761 642,384	7,451	59.4/86.2		0/0	-	261	85	1,241 2,248	x	*	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications					Telephone Subscribers			Indices				
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	No. of St. No. of Modems 1984/1989	SCPC 1984/1989	FDNAT-TDMA 1984/1989	Cot. Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	Geo- Graphical PTC/TKK	Access to Road Condition		
																1984/2000	1984/2000
5400	PROVINSI TIMOR TIMUR	613,683	15,708	39.1/55.2					1,393								
01	KAB. COVALIMA	30,200 43,315	1,385	21.8/41.3		0/1	0/5		81 113	33	x		*				
02	KAB. AINARO	49,046 69,304	1,197	41.0/57.9		0/1	0/5		113 156	35	x		*				
03	KAB. SAME (MANUFAHI)	30,465 43,315	1,133	26.9/38.2		0/1	0/5		81 111	30	x		o				
04	KAB. VIQUE QUE	61,166 86,630	1,850	33.1/46.8		0/1	0/5		136 191	48	x		o				
05	KAB. LAUTEM	42,785 60,641	1,975	21.7/30.7		0/1	0/5		105 147	37	x		o				
06	KAB. BAUCAU	80,352 112,619	1,423	56.5/79.1		0/1	0/5		162 227	33	x		o				
07	KAB. MANA TUTU	25,021 34,652	1,994	12.5/17.4		0/1	0/5	0/150	73 99	43	x		o				
08	KAB. DILI	73,730 103,956	476	154.9/218.4		1/1	5/41		140 196	20	x		o				
09	KAB. AILEU	18,067 25,989	755	23.9/34.4		0/1	0/5		56 77	38	x		o				
10	KAB. LIKUIKA	31,025 43,315	607	51.1/71.4		0/1	0/5		79 107	16	x		o				
11	KAB. ERMEBA	61,489 86,630	671	91.6/129.1		0/1	0/5		126 177	23	x		o				
12	KAB. BOBONARO	67,701 95,293	1,568	43.2/60.8		0/1	0/5		144 201	26	x		*				
13	KAB. AMBENO	42,561 60,641	674	63.1/90.0		0/1	0/5		97 136	42	x		*				

Code No.	Kabupaten/ Kodya	Demographic Data				Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	Industry	SCPC 1984/1989	SPC 1984/1989	No. of Modems 1984/1989	FDMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	
		1984/2000	(km ²)	(/km ²) 1984/2000	Industry	1984/1989	1984/1989	No. of Modems 1984/1989	FDMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	Graphical PTC/IKK	Access to Road Condition		
6100	PROP. KALIMANTAN BARAT	2,763,370 4,016,200	149,178	18.5/26.9					2,750	10,487 22,592					
01	KAB. SAMBAS	666,850 943,807	15,253	43.7/61.9	River Dev.	2/3	6/24		495	2861 6,558	100	*	o		
02	KAB. PONTIANAK	668,126 979,953	24,277	27.5/40.4		0/1	0/5		157	2,948 7,013	110	*	*		
03	KAB. SANGAU	359,307 510,057	27,053	13.3/18.9		1/2	2/14		10	1,547 3,081	80	x	o		
04	KAB. KETAPANG	281,919 413,669	28,836	9.8/14.3	KETAPANG River Dev.	3/3	9/21		86	1,219 2,412	140	x	o		
05	KAB. SINTANG	292,872 417,685	31,648	9.3/13.2	SINTANG River Dev.	1/2	2/29		64	1,274 2,450	135	x	*		
06	KAB. KAPUAS HULU	143,555 200,810	21,990	6.5/9.1		1/1	3/9		9	638 1,078	130	x	*		
71(02)	KODYA PONTIANAK (A)	350,672 550,219	121	-	PONTIANAK	1/1	56/100	84/294	1,929	-	-	*	o		
					NGABANG		0/5								
					SUKAMARA		0/5								

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications			Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	
										Geo- graphical	Access to Road	Condition	
6200	PROP. KALIMANTAN TENGAH	1,106,820 1,875,200	159,850	6.9/11.7			1,624	5,279 10,251					
01	KAB. KOTAWARINGIN BARAT	108,703 185,645	21,000	5.2/8.8	PANGKALABUUN	1/1	2/22		554 1,070	135	x		
02	KAB. KOTAWARINGIN TIMUR	205,380 309,408	32,950	6.2/9.4		1/2	4/36	SAMPIT 0/90	1,039 1,919	230	x	x	
03	KAB. KATINGAN	78,178 138,765	17,800	4.4/7.8	SAMPIT	0/1	0/5		413 789	165	x	x	
04	KAB. KAPUAS	294,588 487,552	27,400	10.8/17.8		0/1	0/5		1,491 3,281	182	*	x	
05	KAB. BARITO SELATAN	81,529 142,515	8,380	9.2/16.1	BUNTAK	1/1	2/22		414 784	70	x	*	
06	KAB. BARITO TIMUR	60,575 106,886	4,070	14.9/26.3		0/1	0/5		314 575	35	x	o	
07	KAB. BARITO UTARA	75,841 138,765	8,300	9.1/16.7		1/1	3/9		389 762	53	x	o	
08	KAB. KAHAYAN HULU/G. MAS	64,353 106,886	13,400	4.8/8.0		1/1	3/9		346 603	70	x	*	
09	KAB. MURUNG RAYA	57,164 78,758	23,700	2.4/3.3		0/0	-		319 468	75	x		
71(-)	KODYA PALANCKA RAYA (A)	80,253 180,019	2,400	-	PALANCKA RAYA	1/1	44/39		-	-	-	x	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	Industry	SCPC 1984/1989	SCPC 1984/1989	FDMA+TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	
											Geo- graphical P/C/IKK	Access to Road Condition		
6300	KALIMANTAN SELATAN	2,255,885 3,143,100	265,173	8.5/11.9				3,991	8,113 16,020					
01	KAB. TANAH LAUT	147,618 260,877	2,149	68.7/121.4	Commerce	0/1	0/5	37	587 1,339	45	x	o		
02	KAB. KOTA BARU	325,995 452,606	12,845	25.4/35.2	KOTA BARU Agriculture Mining Transmigration	1/2	4/9	77	1,439 2,715	104	x	*		
03	KAB. BANJAR	221,902 298,595	5,972	37.2/50.0	Industry	0/0	0/5	432	828 1,617	37	*	*		
04	KAB. BARITO KUALA	134,494 188,586	3,284	41.0/57.4	Fishery	0/0	-		526 961	55	x			
05	KAB. TAPIN	169,256 232,589			KANDANGAN Agriculture	0/0	-		210 1,493	28	x	o		
06	KAB. HULU SEI SELATAN	206,121 254,591	1,703	121.0/149.5	Fishery	0/0	-	203	783 1,293	25	*	o		
07	KAB. HULU SEI TANGAH	247,287 326,882	1,373	180.1/238.1	Forestry	0/0	-	186	929 1,702	10	x	*		
08	KAB. HULU SEUTARA	152,370 172,871	2,770	55.0/62.4		0/0	-	102	568 873	40	x	*		
09	KAB. TABALONG	339,514 641,192	4,246	80.0/151.0		0/0	-		1,543 4,027	40	*	o		
71(-)	KODYA BANJAR MASIN (A)	244,780 314,310	73	-	BANJAR MASIN	1/1	52/123	2,954	-	-	o	o		

Code No.	Kabupaten/ Kodya	Demographic Data				Satellite Communications				Telephone Subscribers			Indices			
		Population Area (km ²)	Pop. Density (/km ²)	SCPC 1984/1989	SCPC 1984/1989	No. of St. No. of Modems	No. of Cct. Existing	Access Demand	I	II	III	Access to Road	PTC/IKK	Condition		
		1984/2000	1984/2000	1984/1989	1984/1989	1984/1989	1983	1984/2000								
6400	KALIMANTAN TIMUR	1,476,748 2,918,600	206,443 7.2/14.1						4,509	7,223 18,828						
01	KAB. PASIR	97,685 183,872	20,040 4.9/9.2	Oil, Coal Fishery	0/0				118	694 1,525	*					o
02	KAB. KUTAI	435,469 796,778	81,027 5.4/9.8	Agriculture Chemical	0/0				320	4,405 12,140	x					x
03	KAB. BERAU	53,652 99,232	32,700 1.6/3.0	BERAU Agriculture	1/1	2/10			170	394 768	x					x
04	KAB. BULONGAN	211,837 399,848	64,000 3.3/6.2	Puip	3/3	37/62			290	1,730 4,395	x					x
71(-)	KODYA BALIK PAPAN (A)	344,500 720,894	946 -	BALIK PAPAN	0/0				1,917	-	*					o
72(-)	KODYA SAMARINDA (B)	333,488 717,976	2,727 -	SAMARINDA	1/1	76/113	120/390		2,592	-	*					o
				KUALA KUAYAN MELAK						2/9 0/5						

Code No.	Kabupaten/ Kodya	Demographic Data				Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	GROWTH POLE Industry	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	FDMA-TDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	Geo- Access to Road	Graphical PTC/IKK Condition
7100	PROPINSI SULAWESI UTARA	2,335,173 3,341,600	27,529	84.8/121.4					2,385	8,565 20,791					
01	KAB. GORONTALO	555,602 795,301	12,102	45.9/65.7	Agriculture Plantation	0/0	-			2,443 5,737	175	*		0	
02	KAB. BOLANG MANGONDOW	333,309 507,923	8,448	39.5/60.1	Commerce	1/1	3/7	173		1,394 3,173	110	*		0	
03	KAB. MINAHASA	844,005 1,226,367	4,321	195.3/283.8	Plantation	0/0	0/5	799		3,739 10,140	75	*		0	
04	KAB. SANGHE TALAUT	254,363 320,794	2,265	112.3/141.6	TAJUNA Fishery	1/1	4/7	5		989 1,741	136	x		x	
71(01)	KODYA GORONTALO (A)	105,615 140,347	65	-	CRONTALO	1/1	3/18	16	Only to MND 0/60	-	-	*		0	
72(03)	KODYA MANADO (B)	242,227 350,868	25	-	MANADO	1/1	47/152	1,392	361/396	-	-	*		0	
7200	PROPINSI SULAWESI TENGAH	1,495,107 2,533,200	67,766	22.1/37.4				1,797		5,037 9,838					
01	KAB. LURUK/ BANGGAI	308,578 521,839	12,487	24.7/41.8	LURUK Plantation	1/2	3/50			1,024 1,925	95	*		*	
02	KAB. POSO	304,637 489,841	24,883	12.2/19.4	POSO Plantation	1/2	3/14	600		1,067 1,874	228	*		0	
03	KAB. DONGGALA	677,914 1,172,872	22,706	29.9/51.7	PAJU Commerce Plantation	1/2	53/73	1,177	PAJU 0/120	2,262 4,773	190	*		0	
04	KAB. BUAL TOLI TOLI	203,958 354,648	7,160	28.5/49.5	TOLITOLI Agriculture Fishery	1/1	2/9	20		684 1,266	118	*		0	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications			Telephone Subscribers			Indices			
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	SCPC 1984/1989	SCPC 1984/1989	No. of Modems No. of Cef. Existing 1984/1989	SCPC 1984/1989	SCPC 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III
												Graphical	Access to Road	Condition
7300	PROPINSI SULAWESI SELATAN	6,529,072 8,487,900	74,401	87.8/114.1					6,504	20,739 40,152				
01	KAB. SELAYAR	98,898 118,831	1,938	51.0/61.3	0/0	-				392 588	35	x	o	
02	KAB. BULUKUMBA	331,127 441,371	1,547	214.0/285.3	0/0	-	Administration		197	1,150 2,368	30	x	o	
03	KAB. BANTAENG	129,714 178,246	468	277.2/380.9	0/0	-	Education			467 832	10	x	o	
04	KAB. JENEPONTO	250,484 288,389	819	305.8/352.4	0/1	0/5	Industry			847 1,415	20	x	o	
05	KAB. TAKALAR	188,825 237,661	581	325/409.1	0/1	0/5			62	650 1,131	12	x	o	
06	KAB. GOWA	379,737 466,835	2,148	176.6/217.3	0/0	-			207	1,332 2,561	55	x	o	
07	KAB. SINJAI	187,891 263,125	1,067	176.1/246.6	1/1	1/10			124	665 1,288	30	x	o	
08	KAB. BONE	666,950 814,838	4,589	145.3/177.6	1/1	1/10	WAMEPONE Agriculture		367	2,489 5,328	70	*	o	
09	KAB. MAROS	215,813 280,101	1,118	193.0/250.5	0/0	-			277	752 1,382	32	*	o	
10	KAB. PANGKAJENE KEP	235,359 305,564	1,215	193.7/251.5	0/0	-			196	819 1,529	30	x	o	
11	KAB. BARRU	144,223 161,270	1,521	94.8/106.0	0/0	-	Agriculture		68	534 780	20	x	o	
12	KAB. SOPPENG	248,872 305,564	1,511	164.7/202.2	0/0	-	Commerce Fishery		139	871 1,539	20	*	o	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	No. of St. No. of Modems SCPC 1984/1989	SCPC 1984/1989	No. of Cct. Existing Subscribers 1983	Access Demand 1984/2000	I	II	III	Access to Road		
												SCPC 1984/1989	PDMA-TDMA 1984/1989	Geographical PTC/IKK
13	KAB. WAJO	388,322 441,371	2,610	148.8/169.1	0/0	-	191	1,371 2,408	35	*	*	*		
14	KAB. SINDERENG RAPPANG	227,907 305,564	2,681	85.0/114.0	0/0	-	380	828 1,570	65	x	x	o		
15	KAB. PINRANG	287,641 364,980	2,508	114.7/145.5	0/0	-	133	1,023 1,920	28	*	*	o		
16	KAB. ENREKANG	143,294 169,758	1,579	90.7/107.5	1/1	1/10	42	533 822	25	x	x	o		
17	KAB. LUWU	542,041 763,911	22,895	23.7/33.4	2/2	6/13	200	2,209 5,187	140	*	*	o		
18	KAB. TANA TORAJA	353,474 424,395	3,854	91.7/110.1	1/2	3/15	228	1,279 2,327	35	*	*	o		
19	KAB. POLEMALI MAMASA	401,414 551,714	8,561	46.9/64.4	0/1	0/5	116	1,531 3,302	60	x	x	o		
20	KAB. MAJENE	140,831 220,685	1,803	78.1/122.4	0/0	-	87	532 1,084	60	x	x	o		
21	KAB. MAMUJU	110,283 152,782	8,749	12.6/17.5	0/1	0/5		465 793	173	x	x	o		
71(-)	KODYA UJUNG PANDANG (A)	763,849 1,111,915	449	-	1/1	74/110	180/600	3,681	-	o	o	o		
72(-)	KODYA PARE-PARE (B)	91,744 118,831	190	-	0/0	-	5	-	-	o	o	o		

Code No.	Kabupaten/ Kodya	Demographic Data				Satellite Communications				Telephone Subscribers			Indices		
		Population 1984/2000	Area (km ²)	Pop. Density (/km ²) 1984/2000	Industry	SCPC 1984/1989	SCPC 1984/1989	No. of Modems 1984/1989	YDMA 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	Y	II	III	
											Graphical PTC/IKK	Access to Road	Condition		
7400	PROPANSI SULAWESI TENGGARA	1,060,191 1,660,100	38,139	27.8/43.5					996	1,980 7,758					
01	KAB. BUTON	349,535 484,749	6,463	54.1/75.0	BAU BAU Fishery	1/1	3/9		25	1,261 2,239	142	x	o		
02	KAB. MUNA	197,769 302,138	4,886	40.5/61.8	RANA Food, Agr. Animal Hus.	1/1	3/9		18	732 1,326	52	x	o		
03	KAB. KENDARI	342,961 557,794	16,320	21.0/34.2	KENDARI Commerce Administration	1/1	40/59	0/120	938	1,318 2,753	145	*	o		
04	KAB. KOLAKA	169,863 315,419	10,310	16.5/30.6	KOLAKA Plantation Mining	1/1	3/9		15	669 1,440	120	*	o		
8100	PROPINSI MALUKU	1,595,674 2,458,500	76,849	20.8/32.0					3,730	6,181 13,132					
01	KAB. MALUKU TENGGARA	259,859 363,858	21,504	12.5/16.9	TUAL Fishery, Agr.	2/2	6/49		250	1,199 2,105	802	x	*		
02	KAB. MALUKU TENGAH	502,518 742,467	25,092	20.0/29.6	Commerce Agriculture	2/4	2/30		330	2,320 5,070	290	x	o		
03	KAB. MALMAHEKA TENGAH	110,579 181,929	9,116	12.1/20.0	TERNATE Fishery Agriculture	1/1	1/10			501 952	420	x	*		
04	KAB. MALUKU UTARA	475,219 740,009	20,778	22.9/35.6		3/4	39/72	TERNATE 0/60	1,150	2,161 5,005	225	x	x		
71	KODYA AMBON (A)	237,451 430,238	359	-		1/1	37/77	241/324	2,000	-	-	x	o	Island	

Code No.	Kabupaten/ Kodya	Demographic Data			Satellite Communications				Telephone Subscribers			Indices			
		Population Area (km ²)	Pop. Density (/km ²)	GROWTH POLE	SCPC 1984/1989	SCPC 1984/1989	No. of Modems No. of Oct. 1984/1989	Existing Subscribers 1983	Access Demand 1984/2000	I	II	III			
		1984/2000	1984/2000	Industry	1984/1989	FDMA/TDMA 1984/1989	Only to JYP 0/30		1984/2000	Geographical	Access to PTC/IKK	Road Condition			
8200	PROPINSI IRIAN JAYA	1,326,530 2,090,900	303,116	4.4/6.9				4,726	19,904 28,860						
01	KAB. MERAUKE	184,335 240,454	123,240	1.5/2.0	2/2	32/44	Only to JYP 0/30	378	1,550 3,110	460	x	x			
02	KAB. PEG-JAYA WIJAYA	303,345 535,270	8,779	34.6/61.0	1/1	2/7		17	2,800 9,851	260	x	x			
03	KAB. JAYAPURA	179,532 517,817	3,460	51.9/91.9	2/2	51/74	96/246	1,705	1,392 4,324	320	x	x			
04	KAB. PANIAI	193,993 273,908	12,338	15.7/22.2	1/2	2/11		10	1,560 3,548	275	x	x			
05	KAB. FAK FAK	71,749 112,909	50,592	1.4/2.2	3/3	11/19	SORONG	327	552 1,125	600	x	x			
06	KAB. SORONG	152,515 238,363	43,120	3.5/5.5	2/2	43/54		858	1,231 2,988	210	x	x			*
07	KAB. MANOKWARI	96,624 158,908	40,000	2.4/4.0	1/2	30/41		498	742 1,718	215	x	x			*
08	KAB. TEL-CENDERAWASIH	65,547 96,181	18,994	3.5/5.1	1/1	2/10	Only to JYP 0/30	289	486 904	130	x	x			*
09	KAB. YAPEN WAROPEN	78,659 117,090	2,593	30.3/45.2	1/1	35/35		644	548 1,092	265	x	x			x

ANNEX 3-1-1 THE NUMBER OF HOUSEHOLDS (1980)
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PENETRATION RATES OF CONSUMER DURABLES PER
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ANNEX 3-1-8
FLOOR SPACE PER HOUSEHOLD IN URBAN AREAS (1980)
ANNEX 3-1-9
FLOOR SPACE PER HOUSEHOLD IN RURAL AREAS (1980)

ANNEX 3-1-1 The Number of Households (1980)

Code	Province	Total	Urban	Rural
12	Sumatera Utara	1,548,323	362,607	1,185,716
13	Sumatera Barat	704,010	78,976	625,034
14	Riau	413,384	98,119	315,265
15	Jambi	300,076	32,617	267,459
16	Sumatera Selatan	457,338	217,473	637,865
17	Bengkulu	150,218	14,397	135,821
18	Lampung	871,666	94,997	776,669
31	Dki Jakarta	1,224,936	1,138,301	86,635
32	Jawa Barat	6,100,713	1,122,766	4,977,947
33	Jawa Tengah	5,286,220	936,698	4,349,522
34	D.I. Tigtajara	592,563	127,604	464,959
35	Jawa Timur	6,478,680	1,171,515	5,307,165
51	Bali	485,201	67,093	418,108
52	Nusa Tenggara Barat	594,192	79,105	515,087
53	Nusa Tenggara Timur	495,942	29,926	466,016
54	Timor Tunyr	-	-	-
61	Kalimantan Barat	442,083	57,765	384,318
62	Kalimantan Tengah	185,528	18,381	167,147
63	Kalimantan Selatan	44,435	86,987	357,448
64	Kalimantan Timur	234,557	90,693	143,864
71	Sulawesi Utra	398,993	65,819	333,174
72	Sulawesi Tengah	233,121	18,505	214,616
73	Sulawesi Selatan	1,117,330	177,531	939,799
74	Sulawesi Tenggara	173,598	14,379	159,219
81	Maluku	228,689	24,038	204,651
82	Irian Jaya	215,525	40,233	175,290

ANNEX 3-1-2 The Number of Employees (1980) (%)

Code	Province	E-P/Lab. Force		Lab Force/Pop	
		Urban	Rural	Urban	Rural
11	D. I. Aceh	96.74	98.45	36.44	47.64
12	Sumatera Utara	97.47	99.04	39.93	58.02
13	Sumatera Barat	97.04	99.03	33.35	48.23
14	Riau	97.35	98.47	38.54	49.84
15	Jambi	97.40	39.73	36.30	53.08
16	Sumatera Selatan	97.51	99.13	36.99	57.64
17	Bengkulu	97.83	98.54	34.90	57.01
18	Lampung	97.23	99.33	38.78	51.74
31	Dki Jakarta	96.10	97.00	42.86	40.33
32	Jawa Barat	97.14	98.04	38.33	46.91
33	Jawa Tengah	97.74	98.78	47.26	56.47
34	D. I. Yogyakarta	97.63	99.19	42.43	63.37
35	Jawa Timur	97.73	98.69	45.03	54.67
51	Bali	99.19	98.07	44.46	55.12
52	Nusa Tenggara Barat	97.49	97.81	39.77	51.43
53	Nusa Tenggara Timur	98.27	99.45	32.03	54.61
54	Timor Timur	-	-	-	-
61	Kalimantan Barat	96.65	99.26	37.28	62.02
62	Kalimantan Tengah	97.94	99.40	42.08	59.40
63	Kalimantan Selatan	97.07	97.16	39.34	54.95
64	Kalimantan Timur	97.50	98.82	37.90	49.00
71	Sulawesi Utra	95.69	97.23	39.61	46.10
72	Sulawesi Tengah	98.91	96.43	36.14	50.64
73	Sulawesi Selatan	97.31	96.78	34.23	40.31
74	Sulawesi Tenggara	98.45	98.18	36.46	45.33
81	Maluku	97.17	98.64	31.61	43.33
82	Irian Jaya	96.78	98.42	34.9	51.94

ANNEX 3-1-3 Penetration Rates of Consumer Durable
per Households in Urban Areas (1980)

Code	Province	Sideboard	Stove	Bicycle	Radio Cassette Recorder	TV Set
11	D.I. Aceh	60.30	74.22	62.43	60.27	50.90
12	Sumatera Utara	65.24	80.50	54.62	60.72	38.12
13	Sumatera Barat	55.84	87.82	42.17	57.97	34.80
14	Riau	68.85	89.22	48.11	63.78	40.34
15	Jambi Selatan	68.39	80.60	42.06	64.59	35.25
16	Sumatera	64.13	76.59	36.59	57.66	36.81
17	Bengkulu	69.71	74.90	31.44	49.89	22.69
18	Lampung	65.57	68.17	23.60	54.39	29.28
31	Dki Jakarta	69.46	97.36	20.47	66.37	47.71
32	Jawa Barat	66.22	87.50	18.94	57.05	30.86
33	Jawa Tengah	47.35	71.60	50.36	57.03	24.72
34	D.I. Yogyakarta	45.51	71.92	57.99	64.87	28.28
35	Jawa Timur	58.09	85.99	46.96	52.14	28.42
51	Bali	62.33	77.86	46.61	56.81	31.78
52	Nusa Tenggara Barat	43.78	59.15	20.03	35.67	15.43
53	Nusa Tenggara Timur	60.32	59.65	13.24	55.99	20.85
54	Timor Timur	-	-	-	-	-
61	Kalimantan Barat	58.24	77.30	56.27	58.62	39.36
62	Kalimantan Tengah	56.66	47.21	61.80	60.53	34.56
63	Kalimantan Selatan	74.54	42.09	37.37	54.08	41.73
64	Kalimantan Timur	62.31	45.90	24.73	54.29	22.99
71	Sulawesi Utra	68.13	79.58	17.57	54.79	32.71
72	Sulawesi Tengah	67.16	65.86	22.72	54.22	29.36
73	sulawesi Selatan	7.278	78.85	40.53	51.66	31.81
74	Sulawesi Tenggara	59.17	46.28	17.03	45.68	20.84
81	Maluku	59.91	82.30	6.39	61.38	39.01
82	Irian Jaya	50.17	66.96	13.16	53.97	17.17

ANNEX 3-1-4 Penetration Rates of Consumer Durables
per Households in Rural Areas (1980)

Code	Province	Sideboard	Stove	Bicycle	Radio Cassette Recorder	TV Set
11	D.I. Aceh	38.04	18.02	61.43	38.01	7.31
12	Sumatera Utara	54.27	18.18	54.19	42.37	5.82
13	Sumatera Barat	45.01	31.57	37.72	41.91	5.33
14	Riau	44.30	24.03	54.59	51.74	9.74
15	Jambi	41.48	18.59	40.35	48.34	6.14
16	Sumatera Selatan	43.28	15.49	37.55	44.10	5.37
17	Bengkulu	46.77	13.01	26.61	40.99	5.37
18	Lampung	40.87	8.94	42.70	41.40	3.11
31	Dki Jakarta	4.96	4.24	1.90	9.41	0.56
32	Jawa Barat	53.77	37.93	19.45	38.48	4.47
33	Jawa Tengah	30.18	16.01	36.05	35.87	2.25
34	D.I. Yogyakarta	28.46	12.62	56.62	53.84	4.13
35	Jawa Timur	42.35	29.80	43.09	33.34	2.82
51	Bali	45.67	26.08	29.83	44.71	4.38
52	Nusa Tenggara Barat	22.59	11.84	6.94	14.62	1.02
53	Nusa Tenggara Timur	12.48	2.25	2.14	11.20	0.51
54	Timor Timur	-	-	-	-	-
61	Kalimantan Barat	28.52	15.49	34.33	41.52	4.88
62	Kalimantan Tengah	54.38	8.32	17.11	47.71	4.51
63	Kalimantan Selatan	65.02	9.58	46.93	46.25	7.66
64	Kalimantan Timur	52.60	22.60	23.11	49.05	8.15
71	Sulawesi Utra	51.32	31.27	11.46	32.58	7.04
72	Sulawesi Tengah	28.67	8.21	14.92	24.91	1.36
73	sulawesi Selatan	51.25	16.01	25.90	25.77	2.38
74	Sulawesi Tenggara	25.50	9.57	19.56	21.20	2.25
81	Maluku	31.34	20.12	5.85	35.35	3.88
82	Irian Jaya	4.96	4.24	1.90	9.41	0.56

ANNEX 3-1-5 Elementary School Education Experience Rate (1980) %

Code	Province	Urban			Rural		
		No Edu- cation	Elem. School	More	No Edu- cation	Elem. School	More
11	D. I. Aceh	29.73	28.32	41.91	55.99	30.84	13.14
12	Sumatera Utara	34.21	32.63	33.13	59.28	28.81	11.89
13	Sumatera Barat	32.53	28.01	39.45	62.72	25.49	11.76
15	Jambi	40.12	34.51	25.35	65.22	24.60	10.16
16	Sumatera Selatan	40.73	32.56	26.70	67.34	25.21	7.43
17	Bengkulu	39.87	31.68	28.45	65.63	23.68	10.64
18	Lampung	44.11	29.43	26.41	70.98	22.85	6.12
31	Dki Jakarta	33.34	29.57	37.07	47.93	27.23	24.79
32	Jawa Barat	40.77	31.54	27.66	63.84	29.65	6.47
33	Jawa Tengah	40.30	30.47	29.19	67.18	25.48	7.25
34	D.I. Yogyakarta	28.03	25.84	46.08	48.14	33.25	18.55
35	Jawa Timur	37.58	31.83	30.56	64.03	28.66	7.26
51	Bali	35.06	30.64	34.28	57.91	32.13	9.91
52	Nusa Tenggara Barat	39.93	29.16	31.39	66.18	25.45	8.31
53	Nusa Tenggara Timur	28.81	28.18	42.97	62.29	30.42	7.22
54	Timor Timur	-	-	-	-	-	-
61	Kalimanta Barat	45.56	28.35	26.08	76.56	16.93	6.46
62	Kalimantan Tengah	26.16	27.66	46.19	60.77	29.25	10.10
63	Kalimantan Selatan	42.47	30.92	26.58	67.07	23.99	8.90
64	Kalimantan Timur	37.75	29.15	33.06	64.53	25.44	10.00
71	Sulawesi Utra	36.79	27.58	35.54	60.26	26.82	12.89
72	Sulawesi Tengah	25.51	32.90	41.59	58.23	32.01	9.73
73	Sulawesi Selatan	35.44	27.77	36.76	61.85	27.82	10.29
74	Sulawesi Tenggara	35.36	29.70	34.91	57.03	30.40	12.53
81	Maluku	24.74	31.30	43.92	55.16	32.07	12.75
82	Irian Jaya	36.48	33.37	30.10	62.11	27.21	10.48

ANNEX 3-1-6 Indonesian Speaking Population Rate (1980) %

Code	Province	Urban		Rural	
		Speak	Not Speak	Speak	Not Speak
11	D.I. Aceh	89.47	10.53	61.19	38.81
12	Sumatera Utara	95.05	4.95	71.79	28.21
13	Sumatera Barat	78.73	21.27	61.55	38.45
14	Riau	83.93	16.07	69.46	30.54
15	Jambi	82.71	17.29	66.18	33.82
16	Sumatera Selatan	82.72	17.28	64.94	35.06
17	Bengkulu	76.97	23.03	61.79	38.21
18	Lampung	88.95	11.05	64.41	35.59
31	Dki Jakara	99.48	0.52	99.48	0.52
32	Jawa Barat	76.53	23.47	57.18	42.82
33	Jawa Tengah	65.86	34.14	46.90	52.10
34	D.I. Yogyakarta	62.87	37.13	54.07	45.93
35	Jawa Timur	71.41	28.59	45.89	54.11
51	Bali	75.61	24.39	48.29	51.71
52	Nusa Tenggara Barat	71.09	28.91	42.61	57.39
53	Nusa Tenggara Timur	97.02	2.98	53.98	46.02
54	Timor Timur	-	-	-	-
61	Kalimantan Barat	82.25	17.75	59.60	40.40
62	Kalimantan Tengah	77.20	22.80	60.01	39.99
63	Kalimantan Selatan	74.63	25.37	56.81	43.19
64	Kalimantan Timur	91.26	8.74	69.96	30.04
71	Sulawesi Utra	96.45	3.55	79.04	20.96
72	Sulawesi Tengah	93.84	6.16	75.55	24.45
73	Sulawesi Selatan	80.00	20.00	44.85	55.15
74	Sulawesi Tenggara	92.59	7.41	58.23	41.77
81	Maluku	98.95	1.05	87.21	12.79
82	Irian Jaya	96.69	3.31	54.76	45.24

ANNEX 3-1-7 Literacy Rate (1980) %

Code	Province	Urban		Rural	
		Read	Not Read	Read	Not Read
11	D.I. Aceh	92.86	7.20	72.65	27.29
12	Sumatera Utara	92.91	7.05	81.08	18.88
13	Sumatera Barat	92.81	7.16	80.09	19.86
14	Riau	87.87	12.07	73.23	26.70
15	Jambi	89.52	10.45	74.25	25.75
16	Sumatera Selatan	88.98	11.00	78.42	21.54
17	Bengkulu	91.46	8.50	72.48	27.41
18	Lampung	88.37	11.59	75.90	24.05
31	Dki Jakara	89.05	10.89	74.77	25.14
32	Jawa Barat	87.74	12.14	71.33	28.54
33	Jawa Tengah	79.53	20.31	63.21	36.73
34	D.I. Yogyakarta	84.49	15.45	65.07	34.84
35	Jawa Timur	78.89	29.96	58.95	41.00
51	Bali	97.77	20.12	58.96	40.97
52	Nusa Tenggara Barat	73.84	26.11	51.75	48.19
53	Nusa Tenggara Timur	92.08	7.93	62.63	37.29
54	Timor Timur	-	-	-	-
61	Kalimantan Barat	77.39	22.58		
62	Kalimantan Tengah	87.02	12.93	77.94	21.98
64	Kalimantan Timur	89.19	10.76	66.79	33.12
71	Sulawesi Utra	95.60	4.35	89.99	9.90
72	Sulawesi Tengah	93.49	6.50	80.88	19.05
73	Sulawesi Selatan	82.26	17.70	57.18	42.77
74	Sulawesi Tenggara	88.02	11.91	66.37	33.58
81	Maluku	94.55	5.30	81.44	18.50
82	Irian Jaya	88.67	11.26	41.56	58.37

ANNEX 3-1-8 Floor Space per Household in Urban Areas (1980)

Code	Province	Urban		Rural	
		upto 49m ²	upto 50-99m ²	upto 100-199m ²	more than 200m ²
11	D.I. Aceh	58.76	33.04	6.33	1.39
12	Sumatera Utara	53.21	34.38	9.56	2.39
13	Sumatera Barat	59.40	31.57	6.82	1.57
14	Riau	53.35	32.61	11.40	2.59
15	Jambi	59.39	32.40	6.50	1.08
16	Sumatera Selatan	57.87	32.25	7.89	1.81
18	Lampung	42.34	45.56	9.68	2.28
31	Dki Jakara	58.18	27.03	10.36	4.19
32	Jawa Barat	64.94	25.78	6.77	1.94
34	D.I. Yogyakarta	42.90	35.15	15.65	5.74
35	Jawa Timur	53.58	30.93	9.86	3.67
51	Bali	55.72	29.09	11.93	2.81
52	Nusa Tenggara Barat	77.01	15.67	5.22	1.91
61	Kalimantan Barat	52.42	36.55	8.74	1.82
63	Kalimantan Selatan	62.10	26.13	9.51	1.75
64	Kalimantan Timur	54.58	33.91	8.09	2.41
71	Sulawesi Utra	61.86	26.63	7.70	2.69
72	Sulawesi Tengah	46.27	33.13	16.15	3.57
73	Sulawesi Selatan	60.14	30.79	6.92	1.92
74	Sulawesi Tenggara	64.44	29.17	4.98	1.28
81	Maluku	65.53	25.25	6.50	1.96
82	Irian Jaya	62.76	31.49	4.10	1.22

ANNEX 3-1-9 Floor Space per Household in Rural Areas (1980)

Code	Province	Urban		Rural	
		upto 49m ²	upto 50-99m ²	upto 100-199m ²	more than 200m ²
11	D.I. Aceh	69.82	26.40	3.20	0.36
12	Sumatera Utara	79.42	18.57	1.40	0.38
13	Sumatera Barat	62.75	31.93	4.48	0.62
14	Riau	67.96	25.86	5.06	0.92
15	Jambi	67.34	27.82	3.67	0.98
16	Sumatera Selatan	58.75	34.81	5.36	0.78
17	Bengkulu	60.89	35.48	2.92	0.55
18	Lampung	50.59	41.77	6.73	0.73
31	Dki Jakara	49.38	40.21	9.05	1.21
32	Jawa Barat	70.18	26.34	2.52	0.54
33	Jawa Tengah	27.30	44.37	22.98	5.19
34	D.I. Yogyakarta	13.37	39.78	34.37	12.17
35	Jawa Timur	42.01	35.96	13.16	3.00
51	Bali	73.57	22.41	3.09	0.80
52	Nusa Tenggara Barat	88.64	10.10	0.69	0.44
53	Nusa Tenggara Timur	83.59	13.69	1.74	0.48
54	Timor Timur	-	-	-	-
61	Kalimantan Barat	81.42	15.38	2.30	0.56
62	Kalimantan Tengah	78.21	18.58	2.38	0.44
63	Kalimantan Selatan	74.75	22.35	2.40	0.38
64	Kalimantan Timur	72.70	23.31	2.96	0.55
71	Sulawesi Utra	73.93	20.57	3.98	1.07
72	Sulawesi Tengah	77.86	17.89	3.00	0.43
73	Sulawesi Selatan	68.85	28.24	2.17	0.53
74	Sulawesi Tenggara	79.05	18.79	1.44	0.53
81	Maluku	62.59	32.61	3.43	0.59
82	Irian Jaya	87.83	10.46	0.82	0.23

ANNEX 3-2-1
RURAL ELECTRIFICATION PROGRAM OF PLN IN PELITA IV

(Literal to PLN Original)

ANNEX 3-2-1

Rural Electrification Program of PLN in PELITA IV

The background and the policy of PLN for Rural electrification program are as follows:

1. Background

- The total number of the electrified Desas (villages) at the end of PELITA II (the Second Five-year Development 1974 - 1978) was 2244 Desas. The electrified rate of Desas was 3.5%.
- PELITA III (1979 - 1983) target was about 3700 Desas.
- Hence, at the end of PELITA III the total electrified Desas will be estimated of 5944 Desas.
- Realization of the new Desas that have just been energized in PELITA III are about 5771 Desas, so the target of 3700 Desas have already reached.
- Realization of the electrified Desas in Indonesia up to the end of PELITA III are 8015 Desas.
- With Funds given by the Government (APBN fund) and PLN's funds (APLN fund) for 1984/1985 period (the first year of the PELITA IV), estimation of the new electrified Desas will be increased up to 9070 Desas.

2. Policy

In confirmity with the village economic development, the village could be grouped into Swasembada villages, as the highest level, followed by Swakarya villages and Swadaya villages.

The main target of PELITA IV is to electrify all of the Swasembada villages, where the capital of the Kecamatan is included, and a part of the Swakarya villages as well as the Swadaya villages which are covered by PLN existing network of the extent of distribution line program.

The policy used in the electric power supply for the rural is giving priority through the existing distribution line, then non fuel energy resources which is available in the area will be used first, including microhydro power generation, wood, agriculture, waste and geothermal.

For villages which are given priority to be electrified, but are not yet reached by the existing and planned distribution line and non fuel energy resources are not available around them, the villages mentioned could be electrified by using diesel generator sets.

To enlighten the expenses and to speed up the installation of the distribution line and rural electrification installation, simplification of the used standard is still tried, without disregarding the general safety and materials used for electric power.

The supply of electric power in the rural areas is directed to push the improvement of productive uses to develop the industrial business in the villages involved.

With the consideration to the development of PLN's power capacity planning, and seeing the number of villages which are able to electrify in the year of PELITA III, Rural Electrification program in PELITA IV has a target to electrify approximately 1400 villages in a year.

So in PELITA IV, the total number of villages which could be electrified is about 7000 Desas.

3. Program

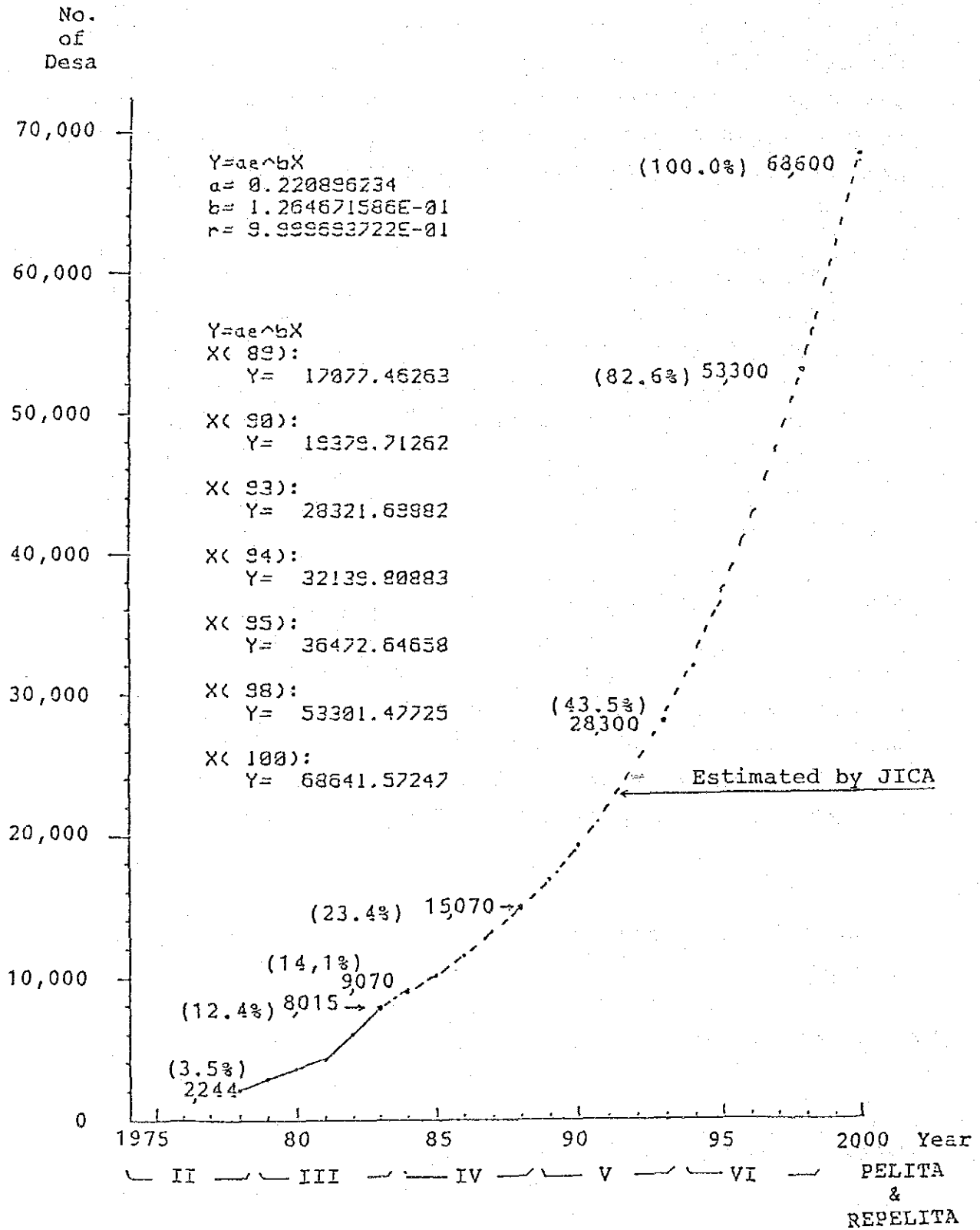
Regarding to the electrical distribution network, not only the existed lines but also which are still in planning, and the policy for giving priority to the Swasembada villages especially which are covered by the PLN's distribution lines, also observing whether some Microhydro potentials could be utilized, then plan of PELITA IV is than made as follows:

1. Total villages	:	7,000 villages
2. Total consumers	:	1,600,000 consumers
3. Total Diesel generator sets	:	132 MW
4. Total Microhydro generator sets:	:	50 MW
5. Distribution Transformers	:	877 MVA
6. Medium voltage networks	:	21,000 KM
7. Low voltage network	:	21,000 KM
8. In cooperation with KUD	:	226 villages

KUD: Village unit cooperations

Considering the rural peoples affordability which is generally low, so in order to get the number of consumers which is mentioned above the consumers house connection cost (Rp.110,580 per connection) will be assisted in paying through the credit given by the Government Bank.

The total number of the electrified Desas



ANNEX 4-1-1

DATA OF 10 KABUPATEN FOR REGRESSION MODEL (1984)

ANNEX 4-1-2

**RESULTS OF PROVINCE DEMAND AGGREGATED FROM
KABUPATEN**

ANNEX 4-1-3

**RESULTS OF DEMAND ESTIMATE CALCULATED BY
KABUPATEN MODEL**

ANNEX 4-1-1 describes the survey results of demand in the sample and reference areas in 1984, and basic data for the estimation of subscriber demand by Kabupaten in the year 2000.

The abbreviation in Annex 4-1-1, 2, 3 stand for the followings.

POP : Population
INDUST : Industry
RESID : Residence
PDA : Public Demand A
PDB : Public Demand B
ID : Industrial Demand
RD : Residential Demand
SUMMED : Summation of PDA, PDB, ID and RD
DENSITY: Telephone Demand Density

ANNEX 4-1-1-1 Data of 10 Sampled Kabupatenens for Regression Model (as of 1984)

FILE:REG-KAB (IR 41)

NAME of KAB and KEC	TOTAL AREA	POP	POP DENSITY	REGIONAL INCOME MRP	PUBLIC DEMAND A	PUBLIC DEMAND B	INDUST DEMAND	RESID DEMAND	TOTAL DEMAND
INDRAGIRI HULU	15855	254260	16	29091.23	361	101	430	240	1132
KAMPAR	28291	402416	14.2	46037.58	326	89	418	289	1122
CILACAP	2338	1416891	606	109393.46	813	175	1709	1762	4459
BANYUMAS	1310	1286886	982.4	99073.32	1090	186	1961	2153	5390
PRUBALINGGA	765	697596	911.9	53664.72	343	69	821	362	1595
HULU SEI SELATAN	1703	206100	121	20241.13	267	19	503	148	937
HULU SEI TENGAH	1373	247259	180.1	22956.4	276	16	447	134	873
SINJAI	1067	173066	162.2	18742.29	111	20	295	89	515
PANGKEP	1215	235386	193.7	23266.29	132	37	875	259	1303
MALUKU TENGAH	25092	502575	20	59465.34	787	118	687	798	2390

ANNEX 4-1-2 Results of Province Demand Aggregated from Kabupaten

FILE:DEM-PRO

CODE CLASS	NAME OF PROVINCE	PDA (1984)	PDB (1984)	ID (1984)	RD (1984)	SUMMED (1984)	PDA (2000)	PDB (2000)	ID (2000)	RD (2000)	SUMMED (2000)	DENSITY (1984)	DENSITY (2000)
1100	PROP D. I. ACEH	2730	486	5866	6825	15907	3843	741	9330	27732	41646	0.566	0.993
1200	PROP SUMATERA UTARA	6473	1320	11901	17902	37596	8486	1829	18584	70024	98923	0.516	0.985
1300	PROP SUMATERA BARAT	2714	468	4596	1961	9739	3185	571	6605	7156	17517	0.341	0.51
1400	PROP RIAU	2579	549	3795	2582	9905	3730	883	6136	11805	22404	0.443	0.645
1500	PROP JAMBI	1576	282	2449	873	5180	2552	513	4049	3262	10376	0.366	0.424
1600	PROP SUMATERA SELATAN	4519	960	7654	10174	23307	6768	1578	12717	41055	62118	0.545	0.906
1700	PROP BENGKULU	766	119	1430	489	2804	1261	221	2376	1762	5620	0.338	0.379
1800	PROP LAMPUNG	4507	1143	5560	6572	17782	8606	2493	10892	22371	44362	0.331	0.376
	TOTAL (SUMATERA)	25864	5327	43251	47778	122220	38481	8829	70689	184967	302966	0.451	0.693
3100	DKI. JAKARTA	0	0	0	0	0	0	0	0	0	0	0	0
3200	PROP JAWA BARAT	18663	3823	35368	62637	120491	23888	5151	56833	275892	361764	0.43	0.953
3300	PROP JAWA TENGAH	16067	2758	30559	22969	72353	18377	3240	45476	97813	164906	0.293	0.566
3400	PROP D. I. YOGYAKARTA	1723	287	3390	2077	7477	2113	366	5167	8519	16165	0.297	0.5
3500	PROP JAWA TIMUR	18213	3314	36915	46081	104523	20922	3919	55152	198457	278450	0.383	0.86
	TOTAL (JAWA)	54666	10182	106232	133764	304844	65300	12676	162628	580681	821285	0.369	0.8
5100	PROP BALI	1761	236	4691	2779	9467	2131	298	6976	11296	20701	0.361	0.627
5200	PROP NUSA TENGGARA BARAT	2363	404	3682	1304	7753	3062	552	5691	5175	14480	0.259	0.355
5300	PROP NUSA TENGGARA TIMUR	2877	461	4405	790	8533	3824	656	6666	3004	14150	0.286	0.341
5400	PROP TIMOR TIMUR	587	56	750	0	1393	799	84	1050	5	1938	0.227	0.224
	TOTAL (NUSA TENGGARA)	7538	1157	13528	4873	27146	9816	1590	20383	19480	51269	0.294	0.414
6100	PROP KALIMANTAN BARAT	2915	630	4050	2892	10487	4003	932	6344	11313	22592	0.435	0.652
6200	PROP KALIMANTAN TENGAH	1367	226	2724	962	5279	2142	397	4272	3440	10251	0.514	0.605
6300	PROP KALIMANTAN SELATAN	2060	343	3980	1730	8113	2842	514	6131	6533	16020	0.417	0.566
6400	PROP KALIMANTAN TIMUR	1204	263	2257	3499	7223	2097	527	3769	12435	18828	0.904	1.272
	TOTAL (KALIMANTAN)	7546	1462	13011	9083	31102	11084	2370	20516	33721	67691	0.503	0.715
7100	PROP SULAWESI UTARA	1865	359	3275	3066	8565	2540	525	5191	12535	20791	0.431	0.729
7200	PROP SULAWESI TENGAH	1747	364	2152	774	5037	2761	640	3556	2881	9838	0.337	0.388
7300	PROP SULAWESI SELATAN	5108	827	10209	4595	20739	6340	1987	15089	17636	40152	0.366	0.553
7400	PROP SULAWESI TENGGARA	1163	205	1899	713	3980	1734	336	3027	2661	7758	0.375	0.467
	TOTAL (SULAWESI)	9883	1755	17535	9148	38321	13375	2588	26863	35713	78539	0.375	0.549
8100	PROP MALUKU	1650	344	2466	1721	6181	2342	530	3867	6393	13132	0.455	0.647
8200	PROP IRIAN JAYA	1731	298	4292	4583	10904	2564	484	6795	18817	28660	0.822	1.371
	TOTAL (MALUKU&IRIAN)	3381	642	6758	6304	17085	4906	1014	10662	25210	41792	0.636	1.015
	WHOLE INDONESIA	108928	20525	200315	210950	540718	142962	29067	311741	879772	1363542	0.392	0.68

ANNEX 4-1-3 (1/13) Results of Demand Estimate Calculated by Kabupaten Model

FILE:DEM-EST1 (IR 41)

CODE CLASS NAME (KAB.KOD.)	PDA (1984)	PDB (1984)	ID (1984)	RD (1984)	SUMMED (1984)	PDA (2000)	PDB (2000)	ID (2000)	RD (2000)	SUMMED (2000)
1100 PROP D.I. ACEH	2730	486	5866	6825	15907	3843	741	9330	27732	41646
1101 KAB ACEH SELATAN	337	61	675	616	1689	468	91	1048	2307	3914
1102 KAB ACEH TEHGGRA	184	27	466	263	940	282	45	770	1149	2246
1103 KAB ACEH TIMUR	490	96	939	1285	2810	723	155	1576	5620	8074
1104 KAB ACEH TENGAH	184	27	438	223	872	203	31	552	525	1311
1105 KAB ACEH BARAT	330	58	694	655	1737	475	90	1119	2666	4350
1106 KAB ACEH BESAR	246	38	599	468	1351	348	58	944	1825	3175
1107 KAB PIDIE	350	60	784	856	2050	470	86	1197	3095	4848
1108 KAB ACEH UTARA	609	119	1271	2459	4458	874	185	2124	10545	13728
1171 KODYA BAND ACEH (A)										
1172 KODYA SABANG (B)										
1200 PROP SUMATERA UTARA	6473	1320	11901	17902	37596	8486	1829	18584	70024	98923
1201 KAB NIAS	465	86	897	931	2379	605	118	1374	3519	5616
1202 KAB TAPANULI SELATAN	807	178	1330	2142	4457	1056	247	2081	8388	11772
1203 KAB TAPANULI TENGAH	173	24	425	175	797	234	35	648	663	1580
1204 KAB TAPANULI UTARA	784	179	1192	1692	3847	938	223	1702	5532	8395
1205 KAB LABURAN BATU	588	118	1043	1292	3041	836	181	1742	5813	8572
1206 KAB ASAHAN	738	150	1386	2344	4618	1021	223	2297	10288	13809
1207 KAB SIMALUNGUN	715	145	1330	2140	4330	933	200	2081	8338	11602
1208 KAB DAIRI	253	39	555	323	1170	342	57	857	1252	2508
1209 KAB KARO	200	28	513	270	1011	260	38	765	972	2035
1210 KAB DELI SERDANG	1035	225	1939	4563	7762	1256	284	2877	16169	20586
1211 KAB LANGKAT	715	148	1291	2030	4184	1005	223	2160	9060	12448
1271 KODYA SIBOLGA (A)										
1272 KODYA TANJUNG BALAI (B)										
1273 KODYA KOTA SIANTAR (C)										
1274 KODYA TEBING TINGGI (D)										
1275 KODYA MEDAN (E)										
1276 KODYA BINJAI (F)										
1300 PROP SUMATERA BARAT	2714	468	4596	1961	9739	3185	571	6605	7156	17517
1301 KAB PESISIR SELATAN	336	58	553	222	1169	410	74	822	869	2175
1302 KAB SOLOK	381	69	597	260	1307	449	85	862	963	2359

ANNEX 4-1-3 (2/13) Results of Demand Estimate Calculated by Kabupaten Model

1303 KAB	SAWAH LUNTO/SIJUNJUNG	253	41	437	131	862	327	56	671	553	1607
1304 KAB	TANAH DATAR	268	39	558	225	1090	314	48	802	822	1986
1305 KAB	PADANG PARIAMAN	461	87	707	372	1627	478	91	922	1114	2605
1306 KAB	AGAM	335	53	643	306	1337	389	64	922	1114	2489
1307 KAB	LIMAPULUH KOJA	265	42	484	164	955	285	46	643	502	1476
1308 KAB	PASAMAN	415	79	617	281	1392	533	107	961	1219	2820
1371 KODYA	PADANG (A)										
1372 KODYA	SOLOK (B)										
1373 KODYA	SAWAH LUNTO (C)										
1374 KODYA	PADANG PANJANG (D)										
1375 KODYA	BUKIT TINGGI (E)										
1376 KODYA	PAYA KUMBUH (F)										
1400 PROP	RIAU	2579	549	3795	2982	9905	3780	883	6136	11605	22404
1401 KAB	INDRAGIRI HULU	309	57	502	226	1094	423	84	744	735	1986
1402 KAB	INDRAGIRI HILIR	500	100	789	620	2009	781	174	1354	2674	4983
1403 KAB	KEPULAUAN RIAU	472	91	787	608	1958	658	137	1225	2168	4188
1404 KAB	KAMPAR	512	111	703	477	1803	748	178	1127	1814	3867
1405 KAB	BENGKALIS	786	190	1014	1051	3041	1170	310	1686	4214	7380
1471 KODYA	PEKAN BARU (A)										
1500 PROP	JAMBI	1576	262	2449	873	5180	2552	513	4049	3262	10376
1501 KAB	KERINCI	257	41	463	150	911	368	63	695	462	1588
1502 KAB	SARKO	310	56	462	152	980	520	107	784	599	2010
1503 KAB	BATANG HARI	293	52	451	141	937	456	89	725	506	1776
1504 KAB	TANJUNG JABUNG	363	67	564	249	1243	614	128	956	912	2610
1505 KAB	BUNGO TEBO	353	66	509	181	1109	594	126	889	783	2392
1571 KODYA	JAMBI (A)										
1600 PROP	SUMATERA SELATAN	4519	960	7654	10174	23307	6768	1578	12717	41055	62118
1601 KAB	OGAN KOMERING ULU	881	204	1428	2726	5239	1366	348	2507	11847	16068
1602 KAB	OGAN KOMERING ILIR	753	178	1102	1570	3603	1094	282	1786	5919	9081
1603 KAB	LEMATANG ILIR OGAN TENGAH	498	99	882	972	2451	677	144	1334	3204	5359
1604 KAB	LAHAT	498	92	884	1237	2808	724	147	1607	4755	7233
1605 KAB	MUSIRAWAS	472	94	811	816	2193	742	165	1387	3478	5772
1606 KAB	MUSI BANYU ASIN	731	165	1158	1750	3804	1144	285	2025	7674	11128
1607 KAB	BANGKA	480	95	850	901	2326	706	152	1374	3414	5646
1608 KAB	BELITUNG	209	33	439	202	883	315	55	697	764	1831

ANNEX 4-1-3 (4/13) Results of Demand Estimate Calculated by Kabupaten Model

FILE:DEM-EST3 (IR 41)

CODE CLASS	NAME (KAB.KOD.)	PDA (1984)	PDB (1984)	ID (1984)	RD (1984)	SUMMED (1984)	PDA (2000)	PDB (2000)	ID (2000)	RD (2000)	SUMMED (2000)
3100	DKI . JAKARTA	18663	3823	35368	62637	120491	23888	5151	56833	275892	361764
3171	JAKARTA SELATAN	599	111	1116	1135	2961	775	151	1757	4684	7367
3172	JAKARTA TIMUR	801	113	1084	1066	2864	775	154	1702	4387	7018
3173	PAKARTA PUSAT	1740	407	3153	8576	13876	2337	579	5481	42918	51315
3174	JAKARTA BARAT	1243	280	2084	3923	7530	1596	378	3364	17017	22355
3175	JAKARTA UTARA	1114	241	1928	3371	6654	1406	320	3049	14073	18848
		1862	445	3334	9509	15150	2431	611	5633	45138	53813
3207	GARUT	1142	244	2051	3806	7243	1456	330	3311	16510	21617
3208	TASIK MALAYA	1228	268	2176	4266	7938	1576	362	3522	18605	24065
3209	CIAMIS	1024	212	1868	3153	6257	1243	268	2838	12238	16587
3210	KUNINGAN	582	95	1218	1355	3230	701	124	1868	5305	7998
3211	CIREBON	854	157	1836	3050	5897	1070	206	2891	12678	16845
3212	MAJALENGKA	607	104	1321	1584	3616	755	135	2033	6298	9221
3213	SUMEDANG	548	95	1120	1134	2897	680	123	1702	4387	6892
3214	INDRAMAYU	699	178	1711	2649	5437	1125	232	2679	10916	14952
3215	SUBANG	799	153	1546	2183	4681	1003	201	2412	8876	12492
3216	FURWAKARTA	355	54	804	571	1784	458	74	1246	2292	4070
3217	KARAWANG	878	169	1740	2752	5539	1102	222	2732	11346	15402
3218	BEKASI	794	148	1613	2362	4917	1035	203	2626	10502	14366
3219	TANGERANG	1005	195	2084	3918	7202	1319	270	3468	18051	23108
3220	SERANG	809	154	1581	2274	4818	1035	208	2519	9671	13433
3271	KODYA BOGOR (A)										
3272	KODYA SUKABUMI (B)										
3273	KODYA BANDUNG (C)										
3274	KODYA CIREBON (D)										
3300	PROF JAWA TENGAH	16067	2758	30559	22969	72353	18377	3240	45476	97813	164906
3301	KAB CILACAP	960	194	1591	1707	4452	1139	238	2493	8089	11959

ANNEX 4-1-3 (5/13) Results of Demand Estimate Calculated by Kabupaten Model

3302	KAB BANYUMAS	147	1469	1459	3873	899	170	2184	6232	9485
3303	KAB PURBALINGGA	68	905	554	1965	487	77	1302	2183	4049
3304	KAB BANJAR NEGARA	77	906	555	2009	540	91	1344	2330	4305
3305	KAB KEBUMEN	125	1270	1094	3183	762	140	1829	4374	7105
3306	KAB PURWOREJO	79	932	589	2084	538	90	1344	2330	4302
3307	KAB WONOSOBO	67	849	489	1830	491	80	1260	3871	3871
3308	KAB MAGELANG	109	1192	969	2898	706	125	1750	3938	6579
3309	KAB BOYOLALI	90	1036	733	2398	604	104	1508	2955	5171
3310	KAB KLATEN	106	1319	1182	3243	716	122	1948	4962	7748
3311	KAB SUKOHARJO	54	849	490	1770	435	65	1260	2040	3800
3312	KAB WONOGIRI	125	1168	926	2896	722	135	1629	3480	5946
3313	KAB KARANG ANYAR	76	850	489	1875	531	91	1260	2040	3922
3314	KAB SRAGEN	85	1010	696	2307	610	104	1549	3121	5384
3315	KAB GROBOGAN	742	1268	1095	3245	871	170	1948	4962	7951
3316	KAB BLORA	140	955	625	2264	648	122	1385	2481	4636
3317	KAB REMBANG	51	682	312	1383	392	61	1005	1284	2722
3318	KAB PATI	704	1241	1053	3128	812	154	1869	4567	7402
3319	KAB KUDUS	46	768	396	1539	392	56	1176	1765	3389
3320	KAB JEPARA	80	957	625	2152	565	95	1426	2635	4721
3321	KAB DEMAK	477	930	590	2075	551	92	1385	2481	4509
3322	KAB SEMARANG	77	933	588	2074	529	87	1344	2330	4290
3323	KAB TEMANGGUN	59	795	427	1668	462	73	1218	1899	3652
3324	KAB KENDEL	76	957	624	2133	532	87	1385	2481	4465
3325	KAB BATANG	55	768	396	1584	421	65	1134	1632	3252
3326	KAB PEKALONGAN	447	903	555	1976	532	87	1385	2481	4465
3327	KAB PEMALANG	106	1193	968	2886	711	125	1790	4189	6815
3328	KAB TENGAL	116	1344	1226	3361	788	139	2066	5584	8577
3329	KAB BREBES	165	1518	1557	4102	991	195	2300	6908	10394
3371	KODYA MAGELANG (A)									
3372	KODYA SURAKARTA (B)									
3373	KODYA SALATIGA (C)									
3374	KODYA SEMARANG (D)									
3375	KODYA PEKALONGAN (E)									
3376	KODYA TENGAL (F)									
3400	D.I. YOGYAKARTA	287	3390	2077	7477	2113	366	5167	8519	16165
3401	KAB KULON PROGO	35	606	248	1150	310	43	879	911	2143
3402	KAB BANTUL	58	907	583	1944	495	76	1410	2464	4445
3403	KAB GUNUNG KIDUL	130	924	603	2298	771	163	1377	2345	4656
3404	KAB SLEMAN	64	953	643	2085	537	84	1501	2799	4921
3471	KODYA YOGYAKARTA (A)									
3500	PROP JAWA TIMUR	3314	36915	46081	104523	20922	3919	55152	198457	278450

ANNEX 4-1-3 (6/13) Results of Demand Estimate Calculated by Kabupaten Model

3501 KAB PACITAN	365	57	777	520	1719	380	60	1034	1698	3172
3502 KAB PONOROGO	554	96	1132	1137	2919	581	101	1536	3946	6184
3503 KAB TRENGGALEK	405	64	886	687	2042	472	77	1317	2854	4720
3504 KAB TULUNG AGUNG	558	94	1199	1283	3134	628	108	1750	5176	7662
3505 KAB BLITAR	718	132	1433	1839	4122	814	153	2118	7646	10731
3506 KAB KEDIRI	813	151	1661	2489	5094	944	181	2532	10956	14613
3507 KAB MALANG	1446	326	2572	5770	10114	1702	397	4040	27339	33478
3508 KAB LUMAJANG	606	105	1265	1437	3413	706	127	1909	6185	8927
3509 KAB JEMBER	1311	287	2359	4871	8828	1483	333	3542	21187	26555
3510 KAB BANYUWANGI	1032	214	1884	3188	6288	1203	257	2888	14227	18575
3511 KAB BONDOWOSO	440	71	956	808	2274	493	81	1372	3111	5057
3512 KAB SITUBONDO	411	67	848	630	1956	458	76	1205	2360	4099
3513 KAB PROBOLINGGO	632	113	1264	1437	3446	717	132	1856	5839	8544
3514 KAB PASURUAN	707	127	1463	1928	4225	843	157	2275	8332	12107
3515 KAB SIDOARJO	532	84	1263	1438	3317	654	108	2014	6907	9683
3516 KAB MOJOKERTO	461	72	1061	1001	2595	554	90	1643	4543	6830
3517 KAB JOMBANG	605	102	1333	1592	3633	722	126	2067	7279	10194
3518 KAB NGANJUK	598	103	1266	1436	3403	695	123	1909	6185	8912
3519 KAB MADIUN	454	73	990	870	2387	510	84	1427	3381	5402
3520 KAB MAGETAN	402	62	923	745	2132	465	73	1372	3111	5021
3521 KAB NGAWI	548	94	1130	1140	2912	637	113	1697	4853	7300
3522 KAB BOJONEGORO	761	146	1429	1845	4181	889	176	2170	8032	11267
3523 KAB TUBAN	652	119	1264	1436	3471	760	144	1909	6185	8998
3524 KAB LAMONGAN	749	140	1464	1926	4279	872	169	2223	8437	11701
3525 KAB GRESIK (SURABAYA)	506	85	1063	1000	2654	525	88	1427	3381	5421
3526 KAB BANGKALAN	487	81	1027	934	2529	545	93	1481	3636	5775
3527 KAB SAMPAN	433	70	922	746	2171	502	84	1372	3111	5069
3528 KAB PAMEKASAN	365	55	850	629	1899	443	69	1317	2854	4683
3529 KAB SUMENEP	661	124	1232	1359	3376	725	139	1750	5176	7790
3571 KODYA KEDIRI (A)										
3572 KODYA BLITAR (B)										
3573 KODYA MALANG (C)										
3574 KODYA PROBOLINGGO (D)										
3575 KODYA PASURUAN (E)										
3576 KODYA MOJOKERTO (F)										
3577 KODYA MADIUN (G)										
3578 KODYA SURABAYA (H)										
GRAND TOTAL (JAWA)	54666	10182	106232	133764	304844	65300	12676	162628	580681	821285

ANNEX 4-1-3 (7/13) Results of Demand Estimate Calculated by Kabupaten Model

FILE:DEM-EST5 (IR 41)

CODE CLASS NAME (KAB.KOD.)	PDA (1984)	PDB (1984)	ID (1984)	RD (1984)	SUMMED (1984)	PDA (2000)	PDB (2000)	ID (2000)	RD (2000)	SUMMED (2000)
5100 PROP BALI	1761	236	4691	2779	9467	2131	298	6976	11296	20701
5101 KAB JEMBRANA	160	20	448	170	798	203	26	683	702	1614
5102 KAB TABANAN	254	35	636	369	1294	297	43	915	1358	2613
5103 KAB BADUNG	318	44	875	740	1977	405	58	1391	3359	5213
5104 KAB GIANJAR	208	26	587	310	1131	247	32	856	1169	2304
5105 KAB KLUNGKUNG	107	11	348	94	560	121	13	474	300	908
5106 KAB BANGLI	122	14	369	107	612	144	17	524	380	1065
5107 KAB KARANG ASEM	231	31	582	301	1145	265	37	823	1071	2196
5108 KAB BULELENG	361	55	846	688	1950	449	72	1310	2957	4788
5200 PROP NUSA TENGGARA BARAT	2363	404	3682	1304	7753	3062	552	5691	5175	14480
5201 KAB LOMBOK BARAT	517	89	829	350	1785	677	123	1311	1443	3554
5202 KAB LOMBOK TENGAH	451	74	747	284	1556	577	100	1151	1111	2939
5203 KAB LOMBOK TIMUR	557	97	889	403	1946	713	131	1383	1607	3834
5204 KAB SUMBAWA	356	65	468	107	996	473	91	722	420	1706
5205 KAB DOMPU	106	13	216	19	354	143	19	322	69	553
5206 KAB BIMA	376	66	533	141	1116	479	88	802	525	1894
5300 PROP NUA TENGGARA TIMUR	2877	461	4405	790	8533	3824	656	6666	3004	14150
5301 KAB SUMBAWA BARAT	250	39	379	65	733	340	57	585	250	1232
5302 KAB SUMBA TIMUR	147	21	242	23	433	192	29	352	80	653
5303 KAB KUPANG	441	83	560	149	1233	602	122	887	605	2216
5304 KAB TIMOR TENGAH SELATAN	299	49	440	89	877	400	70	677	342	1489
5305 KAB TIMOR TENGAH UTARA	143	19	259	27	448	188	27	379	95	689
5306 KAB BELU	183	26	316	43	568	244	37	475	158	914
5307 KAB ALOR	133	18	242	23	416	158	22	329	68	577
5308 KAB FLORES TIMUR	258	40	404	74	776	336	55	605	269	1265
5309 KAB SIKKA	203	29	358	57	647	283	39	531	203	1036
5310 KAB ENDEH	194	27	336	49	606	244	36	485	166	931
5311 KAB NGADA	182	26	307	40	555	246	38	465	151	900
5312 KAB MANGGARAI	444	84	562	151	1241	611	124	896	617	2248
5400 PROP TIMOR TIMUR	587	56	750	0	1393	799	84	1050	5	1938

ANNEX 4-1-3 (8/13) Results of Demand Estimate Calculated by Kabupaten Model

5401 KAB	COVALIMA	31	3	47	0	81	44	4	65	0	113
5402 KAB	AINARO	48	5	60	0	113	65	7	84	0	156
5403 KAB	SAME (MANUFAHI)	31	3	47	0	81	42	4	65	0	111
5404 KAB	VIQUE RQE	62	7	67	0	136	85	10	95	1	181
5405 KAB	LAUDEM	45	4	56	0	105	62	7	78	0	147
5406 KAB	BAUCAU	76	8	78	0	162	103	12	111	1	227
5407 KAB	MANA TUTU	28	2	43	0	73	37	4	58	0	89
5408 KAB	DILI	60	6	74	0	140	81	8	106	1	196
5409 KAB	AILEU	18	1	37	0	56	25	2	50	0	77
5410 KAB	LIKUICA	29	2	48	0	79	39	3	65	0	107
5411 KAB	ERWERA	54	5	67	0	126	73	8	95	1	177
5412 KAB	BOBONARO	66	7	71	0	144	90	10	100	1	201
5413 KAB	AMBENO	39	3	55	0	97	53	5	78	0	136
TOTAL DEMAND (NUSATENGGARA)		7588	1157	13528	4873	27146	9816	1590	20383	19480	51269

ANNEX 4-1-3 (9/13) Results of Demand Estimate Calculated by Kabupaten Model

FILE:DEM-EST6 (IR 41)

CODE CLASS NAME (KAB.KOD.)	PDA (1984)	PDB (1984)	ID (1984)	RD (1984)	SUMMED (1984)	PDA (2000)	PDB (2000)	ID (2000)	RD (2000)	SUMMED (2000)
6100 PROP KALIMANTAN BARAT	2915	630	4050	2892	10487	4003	932	6344	11313	22592
6101 KAB SAMBAS	715	160	1009	977	2861	965	231	1587	3775	6558
6102 KAB PONTIANAK	778	184	1010	976	2948	1083	277	1636	4017	7013
6103 KAB SANGGAU	460	97	631	359	1547	626	142	973	1340	3081
6104 KAB KETAPANG	374	75	528	242	1219	526	115	828	943	2412
6105 KAB SINTANG	393	81	543	257	1274	539	119	834	958	2450
6106 KAB KAPUAS HULU	195	33	329	81	638	264	48	486	280	1078
6171 KODYA PONTIANAK (A)										
6200 PROP KALIMANTAN TENGAH	1367	226	2724	962	5279	2142	397	4272	3440	10251
6201 KAB KOTAWARINGIN BARAT	150	23	301	80	554	244	43	481	302	1070
6202 KAB KOTAWARINGIN TIMUR	288	55	467	229	1039	415	87	699	718	1919
6203 KAB KOTINGAN	108	15	243	47	413	183	30	392	184	789
6204 KAB KAPUAS	386	78	608	419	1491	603	136	988	1554	3281
6205 KAB BARITO SELATAN	101	13	250	50	414	168	25	399	192	784
6206 KAB BARITO TIMUR	69	8	206	31	314	115	15	327	118	575
6207 KAB BARITO UTARA	94	12	238	45	389	162	24	392	184	762
6208 KAB KAHAYAN HULU/G.MAS	87	11	214	34	346	138	20	327	118	603
6209 KAB MURUNG RAYA	84	11	197	27	319	114	17	267	70	468
6271 KODYA PALANGKA RAYA (A)										
6300 KELIMANTAN SELATAN	2060	343	3980	1730	8113	2842	514	6131	6533	16020
6301 KAB TANAH LAUT	139	18	340	90	587	228	33	600	478	1339
6302 KAB KOTA BARU	372	70	617	380	1439	496	100	908	1211	2715
6303 KAB BANJAR	234	37	424	193	828	303	51	663	600	1617
6304 KAB BARITO KUALA	137	18	306	65	526	184	27	474	276	961
6305 KAB TAPIN	328	74	383	125	910	441	108	551	393	1493
6306 KAB HULU SEI SELATAN	179	24	427	153	783	215	31	589	458	1293
6307 KAB HULU SEI TENGAH	202	28	489	210	929	257	37	709	699	1702
6308 KAB JULU SEI UTARA	149	20	327	72	568	166	23	446	238	873
6309 KAB TABALONG	320	54	667	502	1543	552	104	1191	2180	4027
6371 KODYA BANJAR MASIN (A)										

ANNEX 4-1-3 (10/13) Results of Demand Estimate Calculated by Kabupaten Model

6400 PROP	KALIMANTAN TIMUR	1204	263	2257	3499	7223	2097	527	3789	12435	18828
6401 KAB	PASIR	135	20	353	186	694	240	42	574	669	1525
6402 KAB	KUTAI	657	164	1056	2528	4405	1124	321	1792	8903	12140
6403 KAB	BEAU	83	11	236	64	394	148	24	371	225	768
6404 KAB	BULONGAN	329	68	612	721	1730	585	140	1032	2638	4395
6471	KODYA BALIK PAPAN (A)										
6472	KODYA SAMARINDA (B)										
GRAND TOTAL (KALIMANTAN)		7546	1462	13011	9083	31102	11084	2370	20516	33721	67691

ANNEX 4-1-3 (11/13) Results of Demand Estimate Calculated by Kabupaten Model

FILE:DEM-EST7 (IR 41)

CODE CLASS NAME (KAB. KOD.)	PDA (1984)	PDB (1984)	ID (1984)	RD (1984)	SUMMED (1984)	PDA (2000)	PDB (2000)	ID (2000)	RD (2000)	SUMMED (2000)
7100 PROP SULAWESI UTARA	1865	359	3275	3066	8565	2540	525	5191	12535	20791
7101 KAB GORONTALO	587	123	903	830	2443	799	179	1433	3326	5737
7102 KAB BALANG MANGONDOW	354	64	615	361	1384	510	100	1005	1558	3173
7103 KAB MINAHASA	699	139	1254	1647	3739	956	204	2045	6935	10140
7104 KAB SANGIHE TALAUT	225	33	503	228	989	275	42	708	716	1741
7171 KODYA GORONTALO (A)										
7172 KODYA MANADO (B)										
7200 PROP SULAWESI TENGAH	1747	364	2152	774	5037	2761	640	3556	2881	9838
7201 KAB LUWUK/BANGGAI	353	66	475	130	1024	559	116	776	474	1925
7202 KAB POSO	391	79	470	127	1067	590	131	733	420	1874
7203 KAB DONGGALA	779	183	852	448	2262	1249	328	1465	1731	4773
7204 KAB BUAL TOLI TOLI	224	36	355	69	684	363	65	582	256	1266
7300 PROP SULAWESI SELATAN	5108	827	10209	4595	20739	6340	1087	15089	17636	40152
7301 KAB SELAYAR	96	11	247	38	392	113	14	339	120	586
7302 KAB BULUKUMBA	265	39	575	271	1150	338	53	879	1098	2368
7303 KAB BANTAENG	98	11	298	60	467	129	15	450	238	832
7304 KAB JENEPONTO	188	24	467	188	847	212	28	638	537	1415
7305 KAB TAKALAR	140	17	384	109	650	170	21	553	387	1131
7306 KAB GOWA	315	50	634	333	1332	375	62	918	1206	2561
7307 KAB SINJAI	153	19	384	109	665	205	28	596	459	1288
7308 KAB BONE	579	111	972	827	2489	686	137	1423	3082	5328
7309 KAB MAROS	174	23	421	134	752	218	30	624	510	1382
7310 KAB PANGKAJENE KEP	190	26	448	155	819	238	34	666	591	1529
7311 KAB BARRU	129	16	319	70	534	149	18	419	780	1539
7312 KAB SOPPENG	207	29	466	159	871	246	36	666	591	1539
7313 KAB WAJO	332	54	643	342	1371	370	61	879	1098	2408
7314 KAB SINDERENG RAPPANG	210	31	439	148	828	271	42	666	591	1570
7315 KAB PINRANG	254	39	517	213	1023	312	50	761	797	1920
7316 KAB ENREKANG	129	16	318	70	533	149	19	435	219	822
7317 KAB LUWU	642	144	829	594	2209	865	209	1351	2762	5187
7318 KAB TANA TORAJA	327	54	601	297	1279	382	66	853	1026	2327
7319 KAB POLEWALI MAMASA	417	78	664	372	1531	549	110	1045	1598	3302
7320 KAB MAJENE	130	16	316	70	532	192	27	524	341	1084

ANNEX 4-1-3 (12/13) Results of Demand Estimate Calculated by Kabupaten Model

7321	KAB	MAMUJU	133	19	267	46	465	178	27	404	184	793
7371	KODYA UJUNG PANDANG (A)											
7372	PARE-PARE (B)											
7400	PROP	SULAWESI TENGGARA	1163	205	1899	713	3980	1734	336	3027	2661	7758
7401	KAB	BUTON	352	62	583	264	1261	468	88	855	828	2239
7402	KAB	MUNA	205	31	389	107	732	297	49	600	380	1326
7403	KAB	KENDARI	405	80	576	257	1318	620	135	953	1045	2753
7404	KAB	KOLAKA	201	32	351	85	669	349	64	619	408	1440
GRAND TOTAL (SULAWESI)			9883	1755	17535	9148	38321	13375	2588	26863	35713	78539

ANNEX 4-1-3 (13/13) Results of Demand Estimate Calculated by Kabupaten Model

FILE:DEM-EST8 (JR 41)

CODE CLASS NAME (KAB.KOD.)	PDA (1984)	PDB (1984)	ID (1984)	RD (1984)	SUMMED (1984)	PDA (2000)	PDB (2000)	ID (2000)	RD (2000)	SUMMED (2000)
8100 PROP MALUKU	1650	344	2466	1721	6181	2342	530	3867	6393	13132
8101 KAB MALUKU TENGGARA	343	66	529	261	1199	447	92	761	805	2105
8102 KAB MALUKU TENGAH	610	137	843	730	2320	858	208	1326	2678	5070
8103 KAB HALMAHERA TENGAH	134	19	286	62	501	210	34	458	250	952
8104 KAB MALUKU UTARA	563	122	808	668	2161	827	196	1322	2660	5005
8171 KODYA AMBON (A)										
8200 PROP IRIAN JAYA	1731	298	4292	4583	10904	2564	484	6795	18817	28660
8201 KAB MERAUKE	322	69	567	632	1590	411	94	788	1817	3110
8202 KAB PEG-JAYA WIJAYA	328	58	830	1584	2800	538	107	1474	7732	9851
8203 KAB JAYAPURA	178	25	562	630	1395	292	47	976	3009	4324
8204 KAB PANIAI	233	39	590	698	1560	317	57	871	2303	3548
8205 KAB FAK-FAK	117	18	295	122	552	178	31	453	463	1125
8206 KAB SORONG	229	42	497	463	1231	344	70	783	1791	2988
8207 KAB MANOKWARI	149	24	361	208	742	235	43	580	860	1718
8208 KAB YAPEN WAROPEN	93	13	277	103	486	132	20	405	347	904
8209 KAB TELUK CENDERAWASIH	82	10	313	143	548	117	15	465	495	1092
GRAND TOTAL (MLK,IRIAN)	3381	642	6758	6304	17085	4906	1014	10662	25210	41792

ANNEX 4-2-1

LIST OF COUNTRIES SAMPLED FOR INTERNATIONAL MODEL

ANNEX 4-2-2

DATA USED FOR INTERNATIONAL MODEL (1973-1982)

ANNEX 4-2-3

TELEPHONE DEMAND ESTIMATED RESULTS OF WHOLE INDONESIA SIMULATED BY INTERNATIONAL MODEL

These data are prepared for the estimation of the nationwide subscriber demand.

The abbreviations in Annex 4-2-1, 2,3 stand for the following.

M/L ADD	:	New subscriber in the objective year
NA + W	:	New subscribers and waiting applicants in the objective year
POP	:	Population
REAL GDP	:	Gross Domestic Products in the constant price at 1975 (US\$)
REAL SUB FEE:		Average Subscription Fee in the constant price at 1975 (US\$)
SPL	:	Telephone Supply Volume
SF	:	Real Sub Fee
SPL-I	:	10% increment of telephone supply per year
SPL-II	:	10% increment in PELITA IV, 12.5% and 15% increment in REPELITA V and VI
SPL-III	:	10% increment in PELITA IV, 15% and 20% increment in REPELITA V and VI
SF(-20%)	:	The case when the subscription fee is decreased by 20%
SF(+20%)	:	The case when the subscription fee is increased by 20%

ANNEX 4-2-1 List of Countries Sampled
for International Model

NAME OF COUNTRY	COUNTRY NO.
GERMANY	1
BELGIUM	2
AUSTRALIA	3
BOTSWANA	4
CHILE	5
DENMARK	6
U.S.A	7
GREECE	8
INDONESIA	9
ITALY	10
JAPAN	11
MALAYSIA	12
MALTA	13
PARAGUAY	14
NETHERLANDS	15
PHILIPPINE	16
UNITED KINGDOM	17
SINGAPORE	18
THAILAND	19
URUGUAY	20

ANNEX 4-2-2 (1/4) Data Used for International Model (1973-1982)

FILE:INTER-1 (IR 41)

(SOURCE: TELECOMMUNICATION STATISTICS OF ITU)

CONTI NO.	YEAR	MAIN LINE (10 ⁶)	M/L ADD (10 ⁶)	NA+W (10 ⁶)	POP (10 ⁶)	REAL GDP (10 ⁶)	REAL SUB FEE
1	73	11.482	0.703	1.625	61.98	385311	122.08
1	74	12.167	0.685	1.321	62.05	434356	153.14
1	75	12.834	0.667	1.405	61.83	393905	206.48
1	76	14.212	1.378	2.204	61.53	453071	141.63
1	77	15.748	1.536	2.251	61.4	524161	160.52
1	78	17.305	1.557	2.455	61.32	632988	178.59
1	79	18.917	1.612	2.437	61.44	695823	172.49
1	80	20.535	1.618	2.309	61.5	621053	109.43
1	81	21.769	1.234	1.9765	61.7	521954	102.69
1	82	22.713	0.944	1.758841	61.6	490469	58.86
2	73	3.147	0.259	0.6344	13.38	72261	101.45
2	74	3.361	0.214	0.675	13.599	79132	168.01
2	75	3.539	0.178	0.5768	13.771	72987	159.39
2	76	3.7	0.161	0.4064	13.916	69584	187.3
2	77	3.907	0.207	0.4647	14.074	64077	149.07
2	78	4.166	0.259	0.5196	14.249	66478	128.65
2	79	4.449	0.283	0.5852	14.422	66639	106.11
2	80	4.743	0.294	0.6463	14.616	70125	101.65
2	81	5.213	0.47	0.616521	15.0495	85850	147.62
2	82	5.48	0.267	0.548841	15.2761	62855	260.04
3	73	1.652	0.1	0.2	9.756	51001	120.56
3	74	1.766	0.114	0.232	9.788	53976	102.07
3	75	1.871	0.105	0.159	9.813	52972	157.32
3	76	1.941	0.07	0.214	9.823	55227	272.4
3	77	2.05	0.109	0.203	9.837	65893	259.82
3	78	2.178	0.128	0.241	9.842	77777	282.38
3	79	2.317	0.139	0.281	9.855	81557	265.95
3	80	2.463	0.146	0.269	9.863	68269	225.56
3	81	2.609	0.146	0.2745	9.868	57476	172.98
3	82	2.745273	0.136273	0.244325	9.867953	47294	139.65
4	73	0.0039	0.0004	0.00068	0.653	225	164
4	74	0.0043	0.0004	0.000803	0.672	391	188.17
4	75	0.0047	0.0004	0.000968	0.696	354	121.79
4	76	0.005	0.0003	0.001449	0.719	366	199.95
4	77	0.0055	0.0005	0.001321	0.739	321	67.91
4	78	0.0059	0.0004	0.001481	0.767	358	72.76
4	79	0.0064	0.0005	0.001812	0.797	339	126.86
4	80	0.0068	0.0004	0.002841	0.846	290	193.36
4	81	0.0072	0.0004	0.00387	0.925	275	226.22
4	82	0.008564	0.001364	0.004898	0.943	251	72.43
5	73	0.282	0.006	0.165	9.899	114815	3348.77
5	74	0.289	0.007	0.164	10.076	24972	1133.66
5	75	0.297	0.008	0.143	10.253	4688	350.95
5	76	0.308	0.011	0.137	10.555	3304	129.53
5	77	0.325	0.017	0.148	10.756	1915	59.73
5	78	0.345	0.02	0.138	10.801	1573	65.96
5	79	0.351	0.006	0.139	11.104	1543	128.33
5	80	0.363	0.012	0.15	11.1865	1404	87.14
5	81	0.3836	0.0206	0.1315	11.269	966	31.22
5	82	0.404196	0.020596	0.112932	11.27544	324	9.58

NOTE: GDP, SUB FEE: US\$ IN 1975 PRICE

ANNEX 4-2-2 (2/4) Data Used for International Model (1973-1982)

FILE:INTER-2 (IR 41)

(SOURCE: TELECOMMUNICATION STATISTICS OF ITU)

CONTI NO.	YEAR	MAIN LINE (10 ⁶)	M/L ADD (10 ⁶)	NA+W (10 ⁶)	POP (10 ⁶)	REAL GDP (10 ⁶)	REAL SUB FEE
6	73	1.501	0.094	0.001027	5.034	302	3.16
6	74	1.6	0.099	0.001234	5.053	331	3.09
6	75	1.707	0.107	0.001593	5.06	308	2.6
6	76	1.835	0.128	0.002652	5.075	351	2.52
6	77	1.954	0.119	0.001591	5.092	348	2.45
6	78	2.055	0.101	0.00085	5.112	395	2.99
6	79	2.155	0.1	0.000617	5.122	374	2.96
6	80	2.226	0.071	0.000366	5.122	321	3.71
6	81	2.289	0.063	0.000114	5.119	259	2.78
6	82	2.351	0.062	0.000012	5.116	278	2.32
7	73	77.58	0.557	0.058	212.932	1428692	1882.27
7	74	78.744	1.164	0.046	214.931	1389301	875.99
7	75	80.515	1.771	0.038	217.095	1361600	583.29
7	76	82.802	2.287	0.036	219.179	1462382	489.33
7	77	85.426	2.624	0.038	221.477	1537300	463
7	78	88.431	3.005	0.036	223.88	1599422	434.92
7	79	91.265	2.834	0.072	226.444	1622461	484.95
7	80	94.282	3.017	0.065	228.83	1583932	479.54
7	81	94.429	0.147	0.057	230.508	1723254	9089.08
7	82	94.90585	0.47685	0.049	231.99	1679810	2615.23
8	73	1.413	0.125	0.433	8.945	20568	65.71
8	74	1.573	0.16	0.5	8.99	19173	31.89
8	75	1.687	0.114	0.467	9.08	16477	32.89
8	76	1.806	0.119	0.679	9.15	17622	30.28
8	77	1.905	0.099	0.885	9.25	18952	30.82
8	78	2.025	0.12	0.932	9.37	20002	29.84
8	79	2.156	0.131	0.988	9.48	19357	36.78
8	80	2.27	0.114	1.036	9.68	15686	42.09
8	81	2.40116	0.13116	1.13648	9.78	12147	34.16
8	82	2.53441	0.13325	1.122765	9.82	10043	23.23
9	73	0.1834	0.012	0.0752	125.549	27258	440.96
9	74	0.1976	0.0142	0.07856	128.636	30717	311.1
9	75	0.2075	0.0099	0.0747	131.799	30464	1474.02
9	76	0.2194	0.0119	0.08566	135.04	31084	752.71
9	77	0.241	0.0216	0.13153	138.361	34417	1020.7
9	78	0.2751	0.0341	0.11946	141.755	24425	439.5
9	79	0.3171	0.042	0.13144	143.457	28234	290.66
9	80	0.3758	0.0587	0.14322	147.383	26021	200.99
9	81	0.42706	0.05126	0.3338	150.421	37436	188.74
9	82	0.475459	0.048399	0.5244	153	23774	150.83
10	73	8.441	0.695	1.125	55.199	173471	171.57
10	74	9.09	0.649	1.433	55.665	165476	133.25
10	75	9.66	0.57	0.703	56.034	171730	177.02
10	76	10.166	0.506	1.072	56.343	143222	166.87
10	77	10.778	0.612	1.222	56.621	145818	151.44
10	78	11.456	0.678	1.54	56.849	159915	147.89
10	79	12.172	0.716	2.047	57.02	174650	138.3
10	80	13.017	0.845	1.832	57.162	154976	119.41
10	81	13.86	0.843	1.664	56.266	118992	97.44
10	82	14.69778	0.83778	1.62175	56.76438	105369	81.21

NOTE: GDP, SUB FEE: US\$ IN 1975 PRICE

ANNEX 4-2-2 (3/4) Data Used for International Model (1973-1982)

FILE:INTER-3 (IR 41)

(SOURCE: TELECOMMUNICATION STATISTICS OF ITU)

CONTI NO.	YEAR	MAIN LINE (10 ⁶)	M/L ADD (10 ⁶)	NA+W (10 ⁶)	POP (10 ⁶)	REAL GDP (10 ⁶)	REAL SUB FEE
11	74	26.274	3.581	4.446	109.789	535547	223.27
11	75	29.502	3.228	3.311	111.216	491423	195.96
11	76	32.377	2.875	2.788	112.464	480711	179.22
11	77	34.444	2.067	1.971	113.566	502832	196.25
11	78	35.837	1.393	1.422	114.624	688645	368.16
11	79	37.214	1.377	1.427	115.622	771752	392.42
11	80	38.611	1.397	1.449	116.541	660803	312.09
11	81	39.934	1.323	1.321	117.415	836006	347.26
11	82	41.19	1.256	1.28	117.009	802394	332.72
11	83	42.429	1.239	1.342	117.777	719907	284.43
12	73	0.136	0.006	0.0567	11.443	9309	383.25
12	74	0.149	0.013	0.0775	11.795	10342	114.85
12	75	0.169	0.02	0.1003	12.187	8630	86.95
12	76	0.194	0.025	0.1263	12.579	10772	66.13
12	77	0.228	0.034	0.1484	12.972	12728	45.14
12	78	0.271	0.043	0.1712	13.332	14616	48.56
12	79	0.325	0.054	0.2187	17.706	17361	87.58
12	80	0.396	0.071	0.277	13.436	18651	37.69
12	81	0.48867	0.09267	0.32684	13.436	18202	15.86
12	82	0.58539	0.09672	0.39049	13.704	32502	160.06
13	73	0.0264	0.0002	0.0169	0.321	323	288.36
13	74	0.0269	0.0005	0.0168	0.318	347	105.19
13	75	0.0277	0.0008	0.0067	0.31	347	51.55
13	76	0.0285	0.0008	0.0249	0.301	371	43.06
13	77	0.0338	0.0053	0.0259	0.305	405	15.36
13	78	0.0426	0.0088	0.0294	0.309	469	15.2
13	79	0.0465	0.0039	0.0309	0.312	564	48.51
13	80	0.0511	0.0046	0.0313	0.312	579	22.05
13	81	0.0605	0.0094	0.0415	0.3187	94	4.01
13	82	0.0656	0.0051	0.04	0.32272	103	7.83
14	73	0.0238	0.004	0.0001	2.516	1261	160.85
14	74	0.0274	0.0036	0.0001	2.608	1365	475.48
14	75	0.03	0.0026	0.0001	2.686	1449	404.76
4	76	0.032	0.002	0.0001	2.765	1558	571.85
14	77	0.0353	0.0033	0.0001	2.846	1761	450.23
4	78	0.0401	0.0048	0.0001	2.971	1923	456.46
14	79	0.0458	0.0057	0.0001	3.108	1974	395
14	80	0.0495	0.0037	0.0001	3.218	2184	799.25
14	81	0.05474	0.00524	0.0001	3.3144	2403	557.25
14	82	0.05998	0.00524	0.0001	3.4108	2572	552.03
15	73	2.8136	0.276	0.31	13.49	63801	270.01
15	74	3.0636	0.25	0.3778	13.598	75097	354.33
15	75	3.3355	0.2719	0.4264	13.734	70212	304.89
15	76	3.6121	0.2766	0.4686	13.815	78870	324.97
15	77	3.9328	0.3207	0.5192	13.898	92172	328.21
15	78	4.2799	0.3471	0.4786	13.986	110428	374.83
5	79	4.6048	0.3249	0.4222	14.091	115815	408.6
15	80	4.8921	0.2873	0.3637	14.209	103201	430.88
15	81	5.1033	0.2112	0.3063	14.286	87109	452.93
15	82	5.291	0.1877	0.3144	14.338	82373	423.12

NOTE: GDP, SUB FEE: US\$ IN 1975 PRICE

ANNEX 4-2-2 (4/4) Data Used for International Model (1973-1982)

FILE:INTER-4 (IR 41)

(SOURCE: TELECOMMUNICATION STATISTICS OF ITU)

CONT NO.	YEAR	MAIN LINE (10 ⁶)	M/L ADD (10 ⁶)	NA+W (10 ⁶)	POP (10 ⁶)	REAL GDP (10 ⁶)	REAL SUB FEE
16	73	0.239	0.027	0.1096	40.002	13904	1.23
16	74	0.265	0.026	0.622	41.116	13505	2.09
16	75	0.284	0.019	0.716	42.216	13670	5.65
16	76	0.304	0.02	0.819	43.4	15000	5.62
16	77	0.364	0.06	0.1092	44.54	15980	1.3
16	78	0.371	0.007	0.1363	45.771	16952	15.95
6	79	0.389	0.018	0.1832	47.005	17602	5.9
16	80	0.42	0.031	0.2041	48.054	17809	4.43
16	81	0.44284	0.02284	0.1982	49.1066	17197	146.53
16	82	0.48074	0.0379	0.194319	50.28847	28737	170.12
17	74	12.007	0.838	1.466	55.915	226798	151.19
17	75	12.807	0.8	3.443	55.917	236981	170.18
17	76	13.341	0.534	1.213	55.897	189595	186.91
17	77	14.074	0.733	1.463	55.877	168026	153.8
7	78	15.184	1.11	1.987	55.844	189925	111.32
17	79	16.479	1.295	2.391	55.835	218069	109.1
17	80	17.717	1.238	2.163	55.883	224243	102.92
17	81	18.543	0.826	1.68	55.938	324624	249.4
17	82	19.08854	0.54554	1.589	55.992	261299	349.56
17	83	19.54938	0.46084	1.58	56.252	76801	129.66
18	73	0.1567	0.0163	0.0479	2.193	4934	93.01
18	74	0.1761	0.0194	0.0626	2.2298	5016	63.88
18	75	0.2016	0.0255	0.0786	2.2626	5525	62.36
18	76	0.2496	0.048	0.0759	2.2933	5577	39.34
18	77	0.3226	0.073	0.0764	2.3253	5952	36.25
8	78	0.3969	0.0743	0.0884	2.3536	6675	42.77
8	79	0.4648	0.0679	0.0903	2.3835	7772	49.88
18	80	0.5234	0.0586	0.0934	2.4139	8372	52.5
18	81	0.57548	0.05208	0.09013	2.4433	9478	62.76
18	82	0.630357	0.054877	0.091514	2.48782	10039	60.18
19	73	0.255	0.03	0.002	39.95	13764	33.49
19	74	0.271	0.016	0.002	41.334	14035	66.79
19	75	0.312	0.041	0.002	42.391	14509	70
19	76	0.334	0.022	0.032	43.214	15899	89.51
19	77	0.367	0.033	0.092	44.273	17217	71.68
19	78	0.409	0.042	0.152	45.222	19128	66.67
19	79	0.451	0.042	0.333	46.114	20511	70.38
19	80	0.497	0.046	0.349	46.995	21043	46.75
19	81	0.52911	0.03211	0.43055	47.875	20934	53.77
19	82	0.56122	0.03211	0.48836	48.8469	22183	225.16
20	73	0.167	0.007	0.213	2.74	22143	545.19
20	74	0.177	0.01	0.227	2.76	6927	160.81
20	75	0.187	0.01	0.241	2.783	2604	67.77
20	76	0.193	0.006	0.255	2.803	1804	68.76
20	77	0.202	0.009	0.28	2.803	1333	27
0	78	0.204	0.002	0.284	2.803	1068	131.76
20	79	0.212	0.008	0.302	2.831	976	22.86
20	80	0.22	0.008	0.346	2.899	820	18.66
20	81	0.22645	0.00645	0.37606	2.92574	2782	103.8
20	82	0.229	0.00255	0.406	2.93	2452	263.55

NOTE: GDP, SUB FEE: US\$ IN 1975 PRICE

ANNEX 4-2-3 Telephone Demand Estimate Results of Whole Indonesia Simulated by International Model

FILE:INT-INDO (IR 41)

(Unit: x10⁶ Main Lines)

YEAR	<GDP: 3% PER ANNUM>			<GDP: 5% PER ANNUM>			<GDP: 7% PER ANNUM>			<GDP: 5% PER ANNUM (SPL-I)>			
	SPL-I	SPL-II	SPL-III	SPL-I	SPL-II	SPL-III	SPL-I	SPL-II	SPL-III	SPL-I	SPL-II	SPL-III	SF(+20%)
1985	1.3957	1.3957	1.3957	1.4014	1.4014	1.4014	1.4071	1.4071	1.4071	1.4754	1.4014	1.4014	1.3458
1990	2.2776	2.3174	2.3571	2.3298	2.3703	2.4106	2.3833	2.4245	2.4655	2.4446	2.3298	2.3298	2.2435
1995	3.14	3.4072	3.6705	3.2682	3.5432	3.8139	3.4045	3.6877	3.9664	3.4248	3.2682	3.2682	3.1504
2000	4.0037	4.6362	5.2534	4.2393	4.8978	5.5391	4.4991	5.1863	5.8542	4.4408	4.2393	4.2393	4.0878

NOTE: SPL-I 0.1/ANNUM UP TO YEAR 2000 (x10⁶)
 SPL-II IV:0.1, V:0.125, 0.15/ANNUM UP TO YEAR 2000 (x10⁶)
 SPL-III IV:0.1, V:0.15, 0.2/ANNUM UP TO YEAR 2000 (x10⁶)

ANNEX 4-3-1
NUMBER OF SUCCESSFUL CALLS AND TOTAL CHARGING
MINUTES FOR MANUAL EXCHANGE INTERLOCAL CALL
ANNEX 4-3-2
ANALYSIS OF TRAFFIC DATA (MANUAL EXCHANGE)
ANNEX 4-3-3
TRAFFIC DISTRIBUTION
ANNEX 4-3-4
DATA USED IN TRAFFIC ANALYSIS
ANNEX 4-3-5
A STUDY OF THE FREQUENCY OF PHONE CALLS PER
SUBSCRIPTION

ANNEX 4-3-1 Number of Successful Calls and Total Charging Minutes for Manual Exchange Interlocal Call

Zone	Pulse Inter-val (Sec)	Rate	1979		1980		1981		1982		1979-1982	
			No. of Calls	Minutes	No. of Calls	Minutes	No. of Calls	Minutes	No. of Calls	Minutes	No. of Calls	Minutes
-	50	0-25	3,093.9 (25.54)	17,421.2 (24.78)	2,601.1 (24.77)	16,003.0 (25.34)	2,830.7 (27.72)	16,852.1 (26.20)	2,941.8 (27.67)	17,847.2 (26.39)	11,556.4 (26.37)	68,123.5 (25.68)
I	6	25-100	3,776.6 (31.17)	20,530.6 (29.20)	3,575.1 (32.91)	17,024.3 (26.98)	3,125.7 (30.60)	17,078.0 (27.55)	3,045.3 (28.64)	18,024.8 (27.54)	13,522.8 (30.86)	73,857.7 (27.84)
II	5	100-200	1,806.1 (14.91)	10,392.2 (14.78)	1,513.7 (13.94)	9,199.4 (14.57)	1,382.4 (13.54)	8,086.4 (13.54)	1,439.7 (13.54)	9,508.0 (14.06)	6,142.0 (14.02)	37,786.0 (14.25)
III	4	200-300	312.2 (2.58)	1,592.9 (2.26)	201.2 (1.85)	1,531.4 (2.42)	209.5 (2.05)	1,483.3 (2.31)	256.3 (2.41)	1,399.6 (2.07)	979.1 (2.23)	6,007.2 (2.26)
IV	3	300-1000	2,413.6 (19.92)	14,552.9 (20.84)	2,140.1 (19.70)	13,907.9 (22.02)	2,001.5 (19.60)	14,410.6 (22.45)	2,339.6 (22.00)	14,607.7 (21.60)	8,894.8 (20.30)	57,579.1 (21.71)
V	2	1000-	712.6 (5.88)	5,726.4 (8.14)	742.3 (6.83)	5,492.8 (8.70)	662.7 (6.40)	5,064.1 (7.89)	609.6 (5.74)	5,034.2 (8.34)	2,727.2 (6.22)	21,917.4 (8.25)
T O T A L			12,114.8 (100.0)	70,316.2 (100.0)	10,802.5 (100.0)	63,156.8 (100.0)	10,212.0 (100.0)	64,174.5 (100.0)	10,632.3 (100.0)	67,621.5 (100.0)	43,822.2 (100.0)	265,270.9 (100.0)
No. of Subscribers			63,419		50,540		53,893		56,202		224,054	

No. of pulses per minute = $\frac{0.01235 \times 60}{60} = 0.01235$
 $\frac{73857.7 \times 60}{60} = 73857.7$
 $\frac{37786.0 \times 60}{60} = 37786.0$
 $\frac{6007.2 \times 60}{60} = 6007.2$
 $\frac{57579.1 \times 60}{60} = 57579.1$
 $\frac{21917.4 \times 60}{60} = 21917.4$
 Total = 265270.9
 - 12.0 (pis)

ANNEX 4-3-2 (1/3) Analysis of Traffic Data (Manual Exchange)

Exchange	No. of Subscribers	Monthly Conversation Minutes (Sep. 1983)	Erlang Value Outgoing (Erl)	Trunk Traffic Calling Rate Outgoing (mErlang)
MAJALAYA	545	13,934	1.3934	2.56
PANDEGLANG	283	4,413	0.4413	1.56
RANGKASBITUNG	561	7,793	0.7593	1.35
SUBANG	217	3,305	0.3305	1.52
CIKAMPEK	171	4,832	0.4832	2.83
PAMANUKAN	95	1,159	0.1159	1.22
CIAMIS	667	17,563	1.7563	2.63
BANJAR	525	11,950	1.1940	2.27
CIKONENG	34	1,495	0.1495	4.40
BANJARSARI	141	1,421	0.1421	1.00
CLBALONG	21	1,170	0.1170	5.57
SINGAPARNA	184	2,336	0.2336	1.27
KUNINGAN	218	3,457	0.3457	1.59
MAJALENGKA	119	2,094	0.2094	1.76
INDRAMAYU	302	7,812	0.7812	2.59
UNGARAN	180	5,376	0.5376	2.99
AMBARAWA	153	4,653	0.4653	3.04
JEPARA	196	7,702	0.7702	3.93
WONOSOBO	330	8,223	0.8223	2.49
PURWOREJO	385	10,840	1.0840	2.82

Source : Anedatel's Data Traffic

ANNEX 4-3-2 (2/3) Analysis of Traffic Data (Manual Exchange)

Exchange	No. of Subscribers	Monthly Conversation Minutes (Sep. 1983)	Erlang Value Outgoing (Erl)	Trunk Traffic Calling Rate Outgoing (mErlang)
TEMANGGUNG	335	11,038	1.1038	3.29
SLAWI	149	10,103	1.103	6.78
WATES	109	5,329	0.5329	4.89
PALBAPANG	40	3,359	0.3359	8.40
GODEAN	27	1,605	0.1605	5.94
SLEMAN	47	3,979	0.3979	8.47
KALIURANG	55	1,017	0.1017	1.85
KALASAN	24	3,211	0.3211	* 13.38
WONOSARI	162	3,220	0.3220	1.99
SUKOHARJO	97	5,604	0.5604	5.78
BOYOLALI	113	1,068	0.1068	0.95
KARANGANYAR	124	6,435	0.6435	5.19
TAWANGMANJU	90	1,278	0.1278	1.42
SRAGEN	206	6,818	0.6818	3.31
BATURETNO	37	1,431	0.1431	3.87
WONOGIRI	143	4,366	0.4366	3.05
REMBANG	251	5,244	0.5244	2.09
BLORA	283	8,297	0.8297	2.93
BANGKALAN	277	9,094	0.9094	3.28
SAMPANG	158	2,030	0.2030	1.28

ANNEX 4-3-3 Traffic Distribution

No. of Calls , Sep. 1983

Distination Exchange	Primary Area		Other Areas	Total
	Primary Center	Other Exchanges		
MAJALAYA	3462 (79.4)	233 (5.3)	669 (15.3)	4362 (100)
CIKAMPAK	171 (10.6)	467 (29.0)	922 (57.4)	1607 (100)
PAMANUKAN	19 (4.5)	77 (18.1)	329 (77.4)	425 (100)
CIAMAS	1380 (26.6)	1835 (35.4)	1963 (37.9)	5178 (100)
BANJAR	599 (16.1)	1701 (45.8)	1415 (38.1)	3715 (100)
CIKONENG	109 (22.0)	333 (67.1)	54 (10.9)	496 (100)
UNGARAN	1275 (69.4)	112 (6.1)	451 (24.5)	1838 (100)
AMBARAWA	485 (31.6)	103 (6.7)	948 (61.7)	1536 (100)
Jepara	613 (27.0)	18 (0.7)	1643 (72.3)	2274 (100)
MAOS	407 (69.1)	16 (2.4)	156 (26.5)	589 (100)
KROYA	219 (26.7)	0 (0)	601 (73.3)	820 (100)
MAJENANG	299 (19.8)	72 (4.8)	1137 (75.4)	1508 (100)
MELUWUNG	230 (22.5)	80 (7.7)	683 (66.8)	1022 (100)
BANYUMAS	739 (67.3)	131 (11.9)	228 (20.8)	1098 (100)
JUKOREJO	139 (29.6)	67 (14.2)	264 (56.2)	470 (100)
PURBOLINGGO	1589 (48.5)	135 (4.1)	1554 (56.2)	3278 (100)
AIR MOLEK	14 (27.1)	0 (0)	37 (72.5)	51 (100)
TANJUNG BALI	466 (27.0)	0 (0)	1259 (73.0)	1725 (100)
BRASTAGI	833 (44.5)	0 (0)	1040 (55.5)	1873 (100)
PARIAMAN	327 (65.8)	0 (0)	180 (36.2)	497 (100)
PAYAKUMBUH	453 (24.4)	0 (0)	1403 (75.6)	1856 (100)
BATUSANGKAR	149 (21.5)	180 (25.9)	365 (52.6)	694 (100)
			$\bar{x} = 51.24$	
Source : Anedatel's	Data Traffic		$s = 21.73$	

ANNEX 4-3-4 (1/3) Data Used in Traffic Analysis

NAME OF PROVINCE	S U B S C R I B E R				N O . O F P U L S E S (x1,000pls)			
	1979	1980	1981	1982	1979	1980	1981	1982
ACEH	1,775	2,266	3,897	5,083	7,306	13,702	17,767	42,944
SUMATERA UTARA	17,003	21,709	25,889	30,864	184,889	244,119	297,193	343,605
SUMATERA BARAT	5,078	5,947	6,080	6,240	39,363	51,188	56,106	67,626
RIAU	2,979	3,488	4,161	4,295	14,765	20,950	30,921	37,476
JAMBI	2,679	2,873	2,872	2,894	22,041	26,599	29,756	30,598
SUMATERA SELATAN	4,505	4,832	5,780	6,880	62,424	82,478	97,976	114,973
LAMPUNG	3,930	4,215	4,802	4,946	29,703	39,641	50,426	57,579
BENGGULU	858	921	927	939	299	710	3,213	5,458
JAKARTA	93,486	122,970	151,560	171,894	1,101,931	1,502,767	1,862,343	2,110,410
JAWA BARAT	29,742	34,421	37,447	40,020	237,223	308,699	399,337	438,068
JAWA TENGAH	21,602	28,013	29,953	31,808	158,681	217,642	316,250	356,408
YOGYAKARTA	2,530	3,281	3,626	3,811	32,410	41,671	48,183	59,125
JAWA TIMUR	45,323	52,361	58,430	65,344	386,420	501,302	615,741	676,277
BALI	3,222	4,164	4,968	5,254	40,709	51,176	63,537	67,734
NUSA TENGGARA BARAT	1,902	2,458	3,083	3,426	4,011	6,192	23,893	25,853
NUSA TENGGARA TIMUR	809	1,046	1,251	1,322	15,204	15,514	8,413	11,470
TIMOR TIMUR	256	330	340	380	-	-	-	-
KALIMANTAN BARAT	972	1,749	1,888	1,891	16,111	21,026	25,302	30,555
KALIMANTAN TENGAH	385	693	830	878	299	643	1,401	2,911
KALIMANTAN SELATAN	1,601	2,883	2,890	3,325	33,265	41,777	50,399	55,534
KALIMANTAN TIMUR	1,357	2,443	4,262	5,333	591	1,238	64,766	89,874
SULAWESI UTARA	2,336	3,106	3,319	3,414	35,713	46,525	57,044	69,932
SULAWESI TENGAH	654	870	930	934	258	616	5,461	11,735
SULAWESI SELATAN	6,331	8,417	9,944	11,990	60,107	81,439	110,147	133,705
SULAWESI TENGGARA	501	666	839	912	60	145	2,749	7,916
MALUKU	1,521	1,507	2,283	2,827	15,646	22,807	30,372	38,264
IRIAN JAYA	359	1,674	3,173	3,614	6,310	12,826	28,228	56,731
T O T A L	253,696	319,303	375,424	420,518	2,505,739	3,353,442	4,296,924	4,942,761

SOURCE : POSTEL Annual Report from 1979 up to 1982
Report of 'TRAFFIC Dalam Angka' 1979-1980 and 1981-1982

ANNEX 4-3-4 (2/3) Data Used in Traffic Analysis

NAME OF PROVINCE	Real		G.R.D.P (Billion Rp.)		POPULATION (x1,000)			
	1979	1980	1980	1981	1979	1980	1981	1982
ACEH	225.3	254.1	292.8	299.4	2,537	2,611	2,685	2,762
SUMATERA UTARA	999.8	1,080.0	1,173.8	1,200.2	8,149	8,361	8,580	8,806
SUMATERA BARAT	251.1	279.9	308.6	315.5	3,337	3,407	3,463	3,519
RIAU	211.6	231.8	249.0	254.6	2,103	2,169	2,237	2,308
JAMBI	127.9	134.1	134.3	137.3	1,389	1,446	1,501	1,558
SUMATERA SELATAN	603.4	662.4	754.7	771.7	4,481	4,630	4,784	4,943
LAMPUNG	313.2	340.3	390.6	399.4	726	758	792	828
BENGKULU	52.9	61.2	68.9	70.4	4,096	4,333	4,645	4,979
JAKARTA	1,527.0	1,686.4	1,949.8	1,993.7	6,258	6,503	6,760	7,026
JAWA BARAT	2,324.2	2,590.1	2,915.3	2,980.9	26,742	27,454	28,124	28,811
JAWA TENGAH	1,519.2	1,717.1	1,929.1	1,972.5	24,963	25,373	25,718	26,067
YOGYAKARTA	172.1	187.3	199.6	204.1	2,721	2,751	2,797	2,844
JAWA TIMUR	2,470.4	2,774.7	3,009.7	3,077.4	28,760	29,189	29,596	30,008
BALI	235.4	275.5	310.8	317.8	2,429	2,470	2,507	2,544
NUSA TENGGARA BARAT	132.1	144.1	161.9	165.6	2,662	2,725	2,791	2,858
NUSA TENGGARA TIMUR	127.6	144.7	159.1	162.7	2,685	2,737	2,798	2,859
TIMOR TIMUR	-	-	-	-	-	555	569	584
KALIMANTAN BARAT	228.3	261.0	247.3	252.8	2,430	2,486	2,553	2,621
KALIMANTAN TENGAH	105.6	129.6	138.3	141.4	923	954	990	1,028
KELIMANTAN SELATAN	162.0	176.2	197.9	202.4	2,021	2,065	2,111	2,158
KALIMANTAN TIMUR	357.2	353.2	355.2	363.2	1,152	1,218	1,278	1,341
SULAWESI UTARA	204.1	241.6	283.5	289.9	2,068	2,115	2,168	2,223
SULAWESI TENGAH	85.2	93.8	103.1	105.4	1,242	1,290	1,338	1,389
SULAWESI SELATAN	503.6	546.5	603.0	616.6	5,959	6,062	6,176	6,291
SULAWESI TENGGARA	58.1	70.0	81.9	83.7	914	942	970	1,000
MALUKU	140.4	168.5	196.6	201.0	1,372	1,411	1,455	1,501
IRIAN JAYA	126.9	144.2	156.8	160.3	1,143	1,174	1,210	1,248
TOTAL	13,264.5	14,748.4	16,371.3	16,739.7	143,262	147,188	150,596	154,102

REMARK : Calculated based on price indexes of 1975

SOURCE : Statistical Yearbook of INDONESIA 1983

ANNEX 4-3-4 (3/3) Data Used in Traffic Analysis

NAME OF PROVINCE	Real Calling Fee (Rp.)			
	1979	1980	1981	1982
ACEH	21.7	17.8	15.9	15.9
SUMATERA UTARA	22.7	17.5	16.0	16.0
SUMATERA BARAT	22.0	18.2	15.1	15.2
RIAU	20.9	17.1	15.4	15.5
JAMBI	18.6	16.5	15.6	15.6
SUMATERA SELATAN	21.6	18.4	17.4	17.5
LAMPUNG	20.2	17.2	16.9	16.9
BENGGKULU	23.2	19.0	19.8	19.8
JAKARTA	21.2	18.0	16.2	16.2
JAWA BARAT	23.2	18.3	16.9	16.9
JAWA TENGAH	21.4	18.4	17.6	17.6
YOGYAKARTA	21.2	18.3	15.7	15.7
JAWA TIMUR	23.3	18.9	17.2	17.2
BALI	26.5	22.7	20.8	20.8
NUSA TENGGARA BARAT	21.4	19.2	17.4	17.4
NUSA TENGGARA TIMUR	22.4	20.6	18.3	18.3
TIMOR TIMUR	-	-	-	-
KALIMANTAN BARAT	24.1	19.8	18.1	18.1
KALIMANTAN TENGAH	18.1	16.2	15.4	15.4
KELIMANTAN SELATAN	20.5	17.6	15.3	15.4
KALIMANTAN TIMUR	19.4	14.5	11.6	11.6
SULAWESI UTARA	21.3	18.5	19.1	19.2
SULAWESI TENGAH	18.6	17.4	16.3	16.3
SULAWESI SELATAN	22.5	19.1	17.9	17.9
SULAWESI TENGGARA	24.0	18.7	16.1	16.1
MALUKU	17.9	17.0	16.5	16.5
IRIAN JAYA	25.3	23.1	20.8	20.8

REMARK : Calculated based on price indexes of 1975

SOURCE : Statistical Yearbook of INDONESIA 1983

ANNEX 4-3-5 A Study of the Frequency of Phone Calls per
Subscription

By utilizing the data accumulated from 1969 to 1983 (refer to the diagram on the next page), the nationwide frequency of phone calls per subscription was subjected to a regression analysis. The following formula was obtained.

$$\ln(\text{TRFC}/\text{SUB}) = 4.516 + 1.788 \ln (\text{GDP}/\text{C}) - 0.348 \ln (\text{CF})$$

** (8.59362) * (-2.58319)

$$R = 0.964145$$

where TRFC/SUB: Annual frequency of phone calls per
subscription (1,000 pls)
GDP/C : Real GDP per capita (Rp. 1,000)
CF : Real phone call unit charge (Rp./pls)
R : Multiple correlation coefficient
() : T value
** : Express that the coefficient is
 significant to a value of .01.
* : Expresses that the coefficient is
 significant to a value of .05.

When rewritten:

$$\text{TRFC}/\text{SUB} = 10.93 \times 10^{-3} \frac{(\text{GDP}/\text{C})^{1.788}}{(\text{CF})^{0.348}}$$

Therefore, the nationwide frequency of phone calls per subscription is inversely proportional to the real phone call unit charge to the third power.

Data used in Traffic Analysis

Year	Auto SUBSCRIBER	No. of Pulses (1,000 pls)	Pulses per Auto SUB (pls)	Real Calling Fee (Rp)	Consumer's Price Index	Real G.D.P. (bill. Rp)	Real GDP Per Capita (1,000 Rp.)
1969	65,691	231,698	3,527	20.16	0.486	5,507.80	47.79
1970	72,864	-	-	15.85	0.631	5,322.30	45.28
1971	72,832	-	-	14.88	0.672	5,676.60	47.54
1972	91,016	-	-	13.30	0.752	6,067.20	50.00
1973	102,197	631,209	6,176	10.00	1.000	6,753.40	54.19
1974	113,107	758,760	6,708	6.79	1.473	7,267.90	57.20
1975	129,791	875,007	6,742	12.07	1.657	7,630.80	58.20
1976	137,525	1,137,972	8,275	10.55	1.896	8,156.30	61.09
1977	156,358	1,543,184	9,870	9.37	2.135	8,761.00	63.39
1978	192,857	2,164,648	11,224	8.41	2.378	9,566.50	68.45
1979	253,696	2,504,542	9,872	12.69	3.151	10,164.90	70.92
1980	319,843	3,353,442	10,485	9.83	4.069	11,169.20	75.78
1981	362,800	4,297,047	11,844	8.92	4.482	12,054.60	79.75
1982	416,078	4,949,036	11,894	10.33	4.838	12,325.40	79.68
1983	455,957	5,384,294	11,809	9.76	5.123	12,695.20	80.46

REMARK : BASED ON 1973 PRICE

SOURCE : POSTEL Annual Report from 1974 up to 1983
Statistical Yearbook of INDONESIA from 1973 up to 1983