APPENDIX C INFRASTRUCTURE BACK-UP DATA

UTILITY DEMAND ESTIMATION

Fig. Fig.

Table

Table

Table

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Table

C-1	Water Demand of Study Area
C-2	Water Demand of Kemayoran Com
C-1	Water Demand of Kemayoran Com
C2	Demand Estimation of Water Su
C3	Estimation of Solid Waste Gen
C-4	Demand Estimation of Electric
C5	Demand Estimation of Telephon

ABROBIC FILTER SYSTEM

	Table	C-6
2000 2010	Table	C-7
	Fig.	C3
:	Fig.	C-4

Design Criteria of Aerobic Fi Equipment List of Aerobic Fil Flow Diagram of Aerobic Filte General Layout of Aerobic Fil (2,000 m³/day)

	C-1
mplex	C-1
mplex by phase	C1
upply	C-2
neration	C-3
city	C-4
ne Services	C-5

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ilter System	C-6
lter System	C-6
er System	C-7
lter System	C-7

LEGEND أن ج 000 209 Population 108000 Water demand at peak hour (l/sec) 300 20,000 13600 108 (<u>3,000</u> 89 4,000 (80/) 311-7 2.8.6

 Water Supply Capacity by PAM Estimated Water Demand in 199 completion of Kemayoran Completion 	1,765 lit/sec at peak hour		
* Zone 1 (ex-airport area) 82.000 p	rs :	500 lit/sec
* Zone 5 (vicinity area)			994 lit/sec
Total	440,000 p	rs :	1,494 lit/sec at peak hour

Fig. C-1

Discharge at peak hour (1/sec) of main gird of Pulo Gadung system

		Wat	er Demand	۵ ه ^{یر} غذات کا بر این این این این این می می می می این این این این این این این این این ای
Phase	Year	Daily (m3/day)	in average (lit/sec)	at peak hour (11t/sec)
		A	Ax0.0116	Ax0.0116x2.0
Existing & phase I	Until 1992	9,736	113	226
Phase II	Until 1995	18,589	215	430
Phase III	Until 1998	21,593	250	500

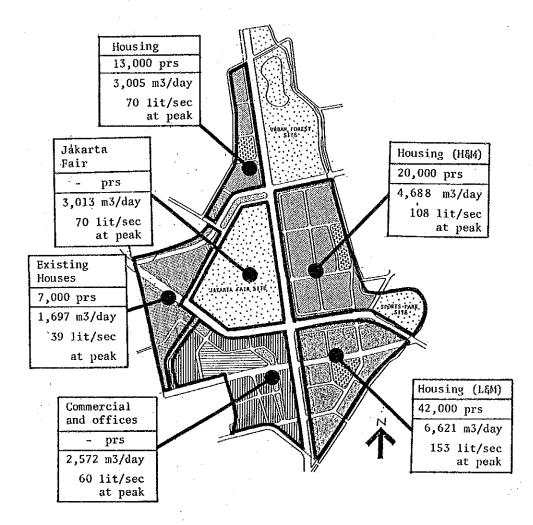


Fig. C-2



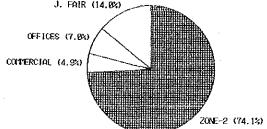
Water Demand of Study Area

Table C-1 Water Demand of Kemayoran Complex by phase

C - 1

Table C-2 KTA-53/JICA DEMAND ESTIMATION OF WATER SUPPLY

	ZONE	BLOCK	LANDUSE	AREA (HA)	UNIT DEMAND	STAGE	EXISTING	STAGE I (1990-1992)	STAGE 11 (1993-1995)	STAGE III (1996-1998)	TOTAL (M3/DAY)
					(M3/HA/D)		(M3/DAY)	(M3/DAY)	(M3/DAY)	(M3/DAY)	
14 M	ZONE-2	A1	HOUSING/LOW & MID INCOME	4.43	160	2			709	· · · · · · · · · · · · · · · · · · ·	70
All ous In		A2	HOUSING/LOW & MID INCOME		160	2			1,080		1,08
ji Cranto V		A3	HOUSING/LOW & MID INCOME	3.00	160	2			480		48
		A4	PUBLIC FACILITIES	4.58	50	1		229			22
		A5	HOUSING/LOW & MID INCOME	5.78	160	2			925		928
		A6	HOUSING/LOW & MID INCOME	5.50	160	1		880			880
		A7	HOUSING/LOW & MID INCOME		160	1		571			571
		A8	HOUSING/LOW & MID INCOME	4.88	160	1		781			781
		A9	HOUSING/LOW & MID INCOME	6.04	160	1		966			966
		D1	HOUSING/HIGH INCOME	6.38	80	2			510		510
		D2	HOUSING/HIGH INCOME	7.90	80	2			632		632
		D3	HOUSING/HIGH INCOME	5.73	80	2			458		458
		D4	HOUSING/MIDDLE INCOME	7.70	110	2			847		847
		D5	HOUSING/MIDDLE INCOME	6.53	110	$\overline{2}$			718		718
		D6	PUBLIC FACILITIES	4.50	50	2			225		225
		D7	HOUSING/MIDDLE INCOME	7.55	110	$\tilde{2}$			831		831
		D11	HOUSING/MIDDLE INCOME	3.13	îiŏ	2			344		344
DS 00%		D12	SPORTS FIELD	12.25	10	ĩ		123			123
[[f] 21 [] 2 [] 2 [] 2 [] 2 [] 2 []		<u>C4</u>	HOUSING/MIDDLE INCOME	3.50	170	3		100		595	595
		Č6	HOUSING/MIDDLE INCOME	6.38	170	3				1,085	1,085
		C7	HOUSING/MIDDLE INCOME	3.48	170	3				592	592
H 02 1 33		Č8	HOUSING/MIDDLE INCOME	3.28	170	3				558	558
		C12	PUBLIC FACILITIES	3.50	50	3				175	175
		C2,C3	EXISTING HOUSES	16.44	50	0	822			170	822
		B10	EXISTING HOUSES	10.56	50	ň	528				528
I Can and Age in the internet		B13	EXISTING HOUSES	5.60	50	õ	280				280
		B13	EXISTING HOUSES	1.33	50	0.	67				67
ALL LACK TO LACK		DEMAND O		160.27		V	1,697	3,550	7,760	3,004	16,010
	ZONE-1	B1	SHOPING CENTER	2.50	50	1		125			125
	EXCEPT	B2	SHOPING CENTER	4.75	50	1		238			238
A	ZONE-2	B3	SHOPING CENTER	1.96	50	1		98			98
	27112 2	B4	SHOPING CENTER	3.88	50	i		194			194
		B5	SHOPING CENTER	2.38	50	2		101	119		119
Lovin		B6	SHOPING CENTER	5.56	50	2			278		278
Y #		B0 B7	OFFICES	4.70	50	1		235	2.0		235
1		B8	OFFICES	3.80	50	1 9		200	190		190
		B0 B11	OFFICES	10.13	50	۰ ۲			507		507
		B11 B12	EXISTING OFFICES	10.13 11.75	50	0	588		007		588
		<u>D12</u> C1	JAKARTA FAIR	60.25	50	1	000	3,013		· · · · · · · · · · · · · · · · · · ·	3,013
			F ZONE-1 EXCEPT ZONE-2	111.66		<u>L</u>	588	3,902	1,094	0	5,583
ater denano by landuse		DEMAND V	F ZONE-I EXCELI ZONE-Z	111.00	(IIA)		000	0,502	1,004	v	0,000
21,593 M3/DAY		MAND OF ZO	NF-1	271.93	(44)		2,284	7,452	8,853	3,004	21,593

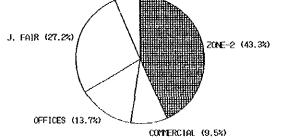


· · · ·	POPULATION DENSITY (PERSON/HA)	UNIT CONSUMPTION (L/PERSON)	DOMESTIC DEMAND (M3/HA/DAY)	NON-DOMESTIC DEMAND (30%)	UNIT DEMAND (M3/HA/DAY)
- HOUSING/LOW INCOME	1,050	120	126	38	160
- HOUSING/MID INCOME (D)	550	160	88	26	110
- HOUSING/MID INCOME (C)	800	160	128	38	170
- HOUSING/HIGH INCOME	320	200	64	19	80
- EXISTING HOUSING	200	200	40	12	50

Note: The above unit demand of water supply are based on the design criteria for Category 3 of Directorate of Water Supply of Cipta Carya.

Table C-3 KTA-53/JICA ESTIMATION OF SOLID WASTE GENERATION

	ZONE	BLOCK	LANDUSE	AREA	UNIT	STAGE	EXISTING	STAGE I	STAGE II	STAGE III	TOTA
				(HA)	DEMAND			(1990-1992)	(1993-1995)	(1996 - 1998)	(KG/DAY
					(KG/HA/D)		(M3/DAY)	(KG/DAY)	(KG/DAY)	(KG/DAY)	
	ZONE-2	A1	HOUSING/LOW & MID INCOME	4.43	315	2			1,395		1,39
		A2	HOUSING/LOW & MID INCOME	6.75	315	2		•	2,126		2,12
di tin		A3	HOUSING/LOW & MID INCOME	3.00	315	2			945		94
		A4	PUBLIC FACILITIES	4.58	400	1		1,832			1,83
		A5	HOUSING/LOW & MID INCOME	5.78	315	2			1,821		1,82
		A6	HOUSING/LOW & MID INCOME	5.50	315	1		1,733			1,73
		A7	HOUSING/LOW & MID INCOME	3.57	315	1		1,125			1,12
		A8	HOUSING/LOW & MID INCOME	4.88	315	1		1,537			1,53
		A9	HOUSING/LOW & MID INCOME	6.04	315	1		1,903			1,9
11/131/		D1	HOUSING/HIGH INCOME	6.38	218	2			1,391		1,3
		D2	HOUSING/HIGH INCOME	7.90	218	2			1,722		1,7
		D3	HOUSING/HIGH INCOME	5.73	218	2			1,249		1,2
		D4	HOUSING/MIDDLE INCOME	7.70	215	2			1,656		1,6
S [1]		D5	HOUSING/MIDDLE INCOME	6.53	215	2			1,404		1,4
		D6	PUBLIC FACILITIES	4.50	400	2			1,800		1,8
		D7	HOUSING/MIDDLE INCOME	7.55	215	2			1,623		1,6
		D11	HOUSING/MIDDLE INCOME	3.13	215	. 2			673		6
		D12	SPORTS FIELD	12.25	100	. 1		1,225			1,2
		C4	HOUSING/MIDDLE INCOME	3.50	312	3				1,092	1.0
		C6	HOUSING/MIDDLE INCOME	6.38	312	3			•	1,991	1.9
		C7	HOUSING/MIDDLE INCOME	3.48	312	3				1,086	1,0
		C8	HOUSING/MIDDLE INCOME	3.28	312	3				1,023	ī,0
		C12	PUBLIC FACILITIES	3.50	400	3				1,400	1,4
		C2,C3	EXISTING HOUSES	16.44	136	0	2,236				2,2
		B10	EXISTING HOUSES	10.56	136	0	1,436				1,4
		B13	EXISTING HOUSES	5.60	136	0	762				7
		B18	EXISTING HOUSES	1.33	136	0	181				1
	• ••••••	DEMAND O	F ZONE-2	160.27			4,614	9,354	17,805	6,592	38,3
	ZONE-1	B1	SHOPING CENTER	2.50	400	1		1,000			1,0
The line of a start of the star	EXCEPT	B2	SHOPING CENTER	4.75	400	1		1,900			1,9
	ZONE-2	B3	SHOPING CENTER	1.96	400	1		784			7
B		B4	SHOPING CENTER	3.88	400	1		1,552			1,5
D		B5	SHOPING CENTER	2.38	400	2			952		9
		B6	SHOPING CENTER	5.56	400	2			2,224		2,2
		B7	OFFICES	4.70	400	1		1,880			1,8
		B8	OFFICES	3.80	400	2			1,520		1,5
l l	-	B11	OFFICES	10.13	400	2			4,052		4,0
•		B12	EXISTING OFFICES	11.75	400	0	4,700				4,7
		C1	JAKARTA FAIR	60.25	400	1		24,100			24,1
		DEMAND O	F ZONE-1 EXCEPT ZONE-2	111.66	(HA)		4,700	31,216	8,748	0	44,66
SOLID WASTE GENERATION BY LANDUSE	URBAN F	OREST		29.56	100	2			2,956		2,98
88.6 TON/DAY	ALL ROAD	DS AND STRE	ET (TOTAL LENGTH IN KM)	34.7	75			998	683	923	2,60
	TOTAL D	EMAND OF ZO	<u>NE-1</u>	271.93	(HA)		9,314	40,570	26,553	6,592	88,58
0THERS (6.3%)		÷				IINT	T GENERATIO	N OF SOLID WA	STE IN HOUST	NG	
								PC	PULATION UN	IIT TC	TAL



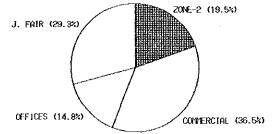
POP DEN (PE HOUSING/LOW-MID INCOME
 HOUSING/MID INCOME (D)
 HOUSING/MID INCOME (C)
 HOUSING/HIGH INCOME
 EXISTING HOUSING

Note: The above unit generation rates of solid waste are based on "the Study on Solid Waste Management System Improvement Project" by JICA in 1987.

PULATION	UNIT	TOTAL
ISITY	CONSUMPTION	DEMAND
ERSON/HA)	(KG/CAPITA)	(KG/HA/DAY)
1,050	0.30	315
550	0.39	215
800	0.39	312
320	0.68	218
200	0.68	136

	ZONE	BLOCK	LANDUSE	AREA (HA)	UNIT DEMAND	STAGE	EXISTING	STAGE I (1990-1992)	STAGE (1993-1995)	STAGE III (1996-1998)	TOTA (KVA
1					(KVA/HA)		(KVA)	(KVA)	(KVA)	(KVA)	
1-1	ZONE-2	A1	HOUSING/LOW & MID INCOME	4.43	120	2			532		53
()) 80 ³		A2	HOUSING/LOW & MID INCOME	6.75	120	2			810		81
		A3 -	HOUSING/LOW & MID INCOME	3.00	120	2			360		36
		A4	PUBLIC FACILITIES	4.58	100	1		458			45
		A5	HOUSING/LOW & MID INCOME	5.78	120	2			694		69
		A6	HOUSING/LOW & MID INCOME	5.50	120	1		660			66
		A7	HOUSING/LOW & MID INCOME	3.57	120	1		428			42
118"11811 - M		A8	HOUSING/LOW & MID INCOME	4.88	120	1		586			58
		A9	HOUSING/LOW & MID INCOME	6.04	120	1		725			72
		D1	HOUSING/HIGH INCOME	6.38	80	2			510		51
		D2	HOUSING/HIGH INCOME	7.90	80	2			632		63
		D3	HOUSING/HIGH INCOME	5.73	80	2			458		48
		D4	HOUSING/MIDDLE INCOME	7.70	110	2			847		84
		D5	HOUSING/MIDDLE INCOME	6.53	110	2			718		7
		D6	PUBLIC FACILITIES	4.50	100	2			450		49
		D7	HOUSING/MIDDLE INCOME	7.55	110	2			831		8
		D11	HOUSING/MIDDLE INCOME	3.13	110	2			344		3.
		D12	SPORTS FIELD	12.25	10	1		123			14
		C4	HOUSING/MIDDLE INCOME	3.50	110	3				385	3
		C6	HOUSING/MIDDLE INCOME	6.38	110	3				702	70
		C7	HOUSING/MIDDLE INCOME	3.48	110	3				383	38
		C8	HOUSING/MIDDLE INCOME	3.28	110	3				361	36
		C12	PUBLIC FACILITIES	3.50	100	3				350	38
		C2, C3	EXISTING HOUSES	16.44	50	0	822				82
		B10	EXISTING HOUSES	10.56	50	0	528				52
		B13	EXISTING HOUSES	5.60	50	Ó	280				28
		B18	EXISTING HOUSES	1.33	50	õ	67				
	DEMAND O			160.27	(HA)		1,697	2,979	7,186	2,180	14,04
	ZONE-1	B1	SHOPING CENTER	2.50	1,250	1		3,125			3,13
	EXCEPT	B2	SHOPING CENTER	4.75	1,250	1		5,938			5,93
BA	ZONE-2	B3	SHOPING CENTER	1.96	1,250	1		2,450			2,45
Shilling	201013 2	B4	SHOPING CENTER	3.88	1,250	1		4,850			4,85
XVIII		B5	SHOPING CENTER	2.38	1,250	± 2		4,000	2,975		2,97
- Langelle		B6	SHOPING CENTER	5.56	•	2			6,950		6,95
а					1,250	2		1 646	0,900		
l l		B7 B9	OFFICES OFFICES	4.70	350	0 T		1,645	1,330		1,64
		B8		3.80	350	4					1,33
		B11	OFFICES	10.13	350	2	4 110		3,546		3,54
		<u>B12</u>	EXISTING OFFICE	11.75	350	U	4,113	01 000			4,11
ELECTRICITY DEPAND BY LANDUSE	DEMAND O	C1 F ZONE-1 E	JAKARTA FAIR XCEPT ZONE-2	$\begin{array}{r} 60.25 \\ 111.66 \end{array}$	350 (HA)	1	4,113	<u>21,088</u> 39,095	14,801	0	<u>21,08</u> 58,00
72,050 KUA	TOTAL DE	MAND OF ZO	NF - 1	271.93			5,809	42,074	21,987	2,180	72,05

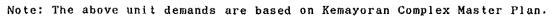
Table C-4 KTA-53/JICA DEMAND ESTIMATION OF ELECTRICITY

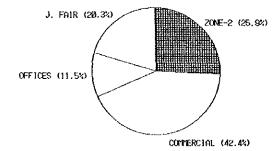


C - 4

Table C-5 KTA-53/JICA	DEMAND ESTIMATION OF	TELEPHONE SERVICES

	ZONE	BLOCK	LANDUSE	AREA (HA)	UNIT DEMAND	STAGE	EXISTING	STAGE I (1990-1992)	STAGE II (1993-1995)	STAGE III (1996-1998)	TOTAL (SS)
• • • • • • • • • • • • • • • • • • •					(SS/HA)		(SS)	(55)	(SS)	(\$\$)	
Level A	ZONE~2	A1	HOUSING/LOW & MID INCOME	4.43	12	2			53		53
11 222		A2	HOUSING/LOW & MID INCOME	6.75	12	2			81		81
		A3	HOUSING/LOW & MID INCOME	3.00	12	2			36		36
		A4	PUBLIC FACILITIES	4.58	30	1		137	•		137
		A5	HOUSING/LOW & MID INCOME	5.78	12	2			69		69
		A6	HOUSING/LOW & MID INCOME	5.50	12	1		66			66
		A7	HOUSING/LOW & MID INCOME	3.57	12	1		43			43
		A8	HOUSING/LOW & MID INCOME	4.88	12	1		59			59
Fall		A9 D1	HOUSING/LOW & MID INCOME	6.04	12			72	0.0.1		72
		D1 D2	HOUSING/HIGH INCOME HOUSING/HIGH INCOME	6.38 7.90	44	2			281 348		281
		D2 D3	HOUSING/HIGH INCOME	5.73	44 44	2			252		348 252
S III		D4	HOUSING/MIDDLE INCOME	7.70	44 30	2			232		232
		D5	HOUSING/MIDDLE INCOME	6.53	30	2			196		196
		D6	PUBLIC FACILITIES	4.50	30	2			135		135
		D7	HOUSING/MIDDLE INCOME	7.55	30	2			227		227
		D11	HOUSING/MIDDLE INCOME	3.13	30	2			94		94
		D12	SPORTS FIELD	12.25	1	1		12	04		12
		C4	HOUSING/MIDDLE INCOME	3.50	30	3				105	105
		C6	HOUSING/MIDDLE INCOME	6.38	30	š				191	191
		C7	HOUSING/MIDDLE INCOME	3.48	30	3				104	104
		C8	HOUSING/MIDDLE INCOME	3.28	30	3				98	98
		C12	PUBLIC FACILITIES	3.50	30	3				105 .	105
		C2, C3	EXISTING HOUSES	16.44	25	0	411				411
		B10	EXISTING HOUSES	10.56	25	0	264				264
		B13	EXISTING HOUSES	5.60	25	0	140				140
	<u></u>	B18	EXISTING HOUSES	1.33	25	0	33				33
	DEMAND O	F ZONE-2		160.27 (HA)		848	390	2,002	604	3,844
	ZONE-1	B1	SHOPING CENTER	2.50	300	1		750			750
	EXCEPT	B2	SHOPING CENTER	4.75	300	1		1,425			1,425
B	ZONE-2	B3	SHOPING CENTER	1,96	300	1		588			588
		B4	SHOPING CENTER	3.88	300	1		1,164			1,164
NH NH		B5	SHOPING CENTER	2.38	300	2			714		714
- The second sec		B6	SHOPING CENTER	5.56	300	2			1,668		1,668
· · · · · · · · · · · · · · · · · · ·		B7	OFFICES	4.70	60	1		282			282
l l		B8	OFFICES	3.80	60	2			228		228
		B11	OFFICES	10.13	60	2			608		608
		<u>B12</u>	EXISTING OFFICE	11.75	50	0	588				588
		<u>C1</u>	JAKARTA FAIR	60.25	50	1		3,013			3,013
telephone denand by landuse	DEMAND O	F ZONE-1 E	XCEPT ZONE-2	111.66 (HA)		588	7,222	3,218	Û	11,027
14,871 LINES	TOTAL DE	MAND OF ZO	NE-1	271.93			1,436	7,611	5,220	604	14,871
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				·····						





C - 5

AEROBIC FILTER SYSTEM

Table C-6 Design Criteria of Aerobic Filter System

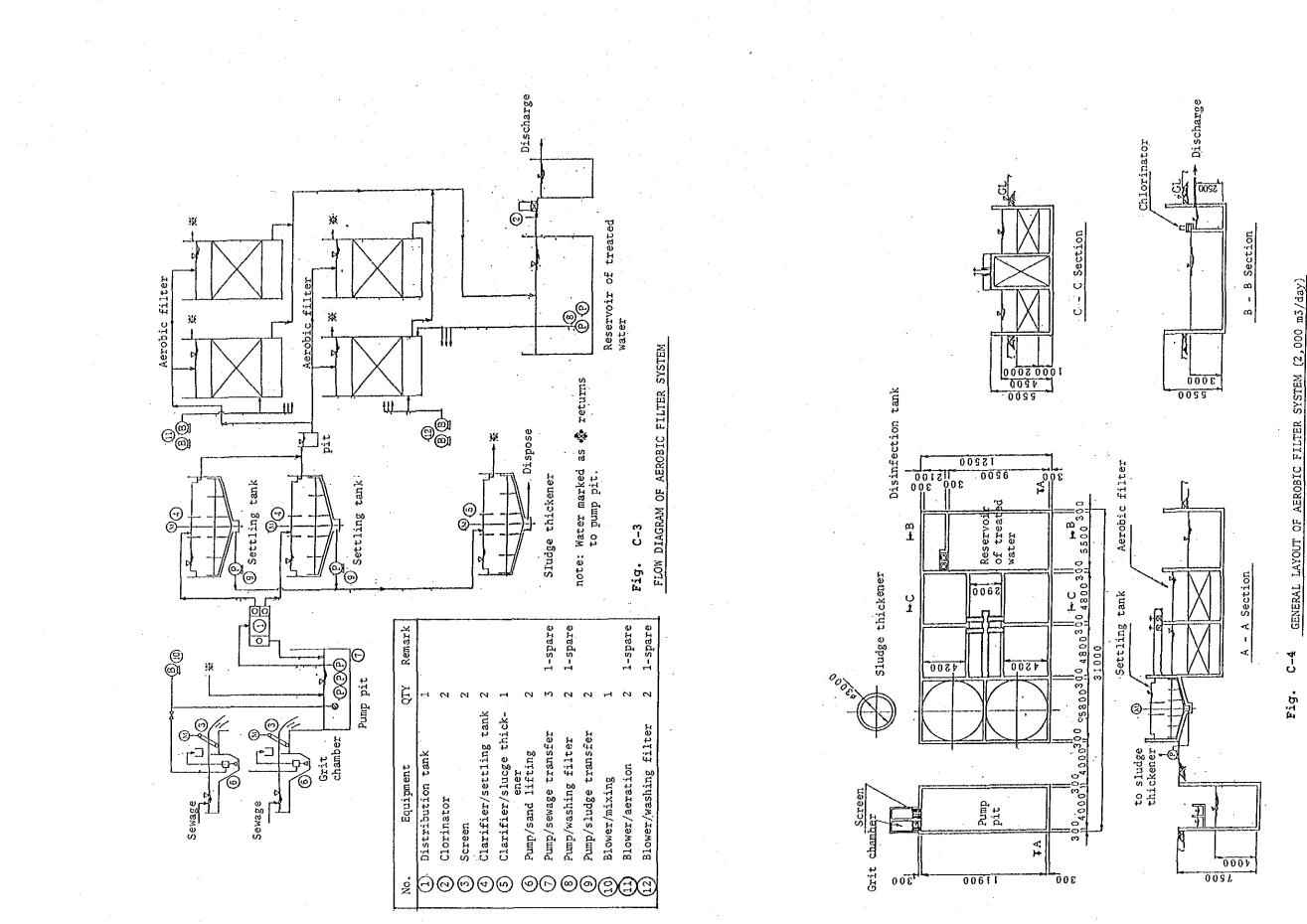
Grit chamber	* Water surface	1,800 m3/m2.day (hourly max.)
	* Velocity	less than 0.3 m/sec (hourly max.)
Pump pit	* Effective volume	More than a volume enable to store water washing one aerobic filter tank
Settling tank	* Water surface	less than 30 m3/m2.day (daily max.)
	* Retention time	more than 1.5 hours (daily max.)
Aerobic filter tank	<pre>* filtering velocity</pre>	less than 25 m/day (daily max.)
	* thickness of filter	2 m
	* Required air volume	30 m3/kg x an eliminated BOD
Reservoir of treated water	* Effective volume	More than a volume enable to store water washing one aerobic filter tank
Sludge thickener	* Sludge volume	1.0 kg/kg x an eliminated BOD (daily max.) 1.2 kg/kg x an eliminated BOD (daily ave.)
	* Required surface	less than 60 kg/m2.day to solid sludge

Table C-7 Equipment List of Aerobic Filter System

	·····	
Equipment	Case 1	Case 2
	300 m3/day	2,000 m3/day
Grit chamber	W:0.5m x L:0.8m x H:1.0m	W:1.Om x L:2.Om x H:1.Om
	x 1 set	x 1 set
Pump pit	W:4.1m x L:2.0m x H:7.5m	W:11.9m x L:4.0m x H:7.5m
·	x 1 set (Eff. Vol. 28.7 m3)	x 1 set (Eff. Vol. 305 m3)
Setlling tank	W:2.55m x L:2.55m x H:3.0m	W:5.8m x L:5.8m x H:3.0m
	x 2 sets	x 2 sets
Aerobic	W:1.6m x L:2.5m x H:5.5m	W:4.2m x L:4.8m x H:5.5m
filter tank	x 3 sets	x 4 sets
Reservoir of	W:3.1m x L:3.1m x H:5.5m	W:5.5m x L:9.5m x H:5.5m
treated water	x 1 set (Eff. Vol. 24 m3)	x 1 set (Eff. Vol. 131 m3)
Disinfection	W:0.8m x L:2.0m x H:5.5m	W:2.1m x L:5.5m x H:5.5m
tank	x 1 set (Eff. Vol. 4 m3)	x 1 set (Eff. Vol. 29 m3)
Sludge	Dia:2.0m x H:4.0m	Dia:3.0m x H:4.5m
thickener	x 1 set (Eff. Vol. 9.4 m3)	x 1 set (Eff. Vol. 28 m3)
	0.25m3/min x H:8m x 1.5kw	1.7m3/min x H:10m x 5.5kw
transfer	x 3 sets (incl. 1 spare)	x 3 sets (incl. 1 spare)
Pump/washing	4.0m3/min x H:7m x 11kw	20m3/min x H:7m x 37kw
filter	x 2 sets (incl. 1 spare)	x 2 sets (incl. 1 spare)
Blower/mixing	0.24m3/minx0.45kg/cm2x1.5kw	1.7m3/minx0.45kg/cm2x3.7kw
	x 1 set	x 1 set
Blower/	0.8m3/minx0.4kg/cm2x2.2kw	5.2m3/minx0.4kg/cm2x7.5kw
aeration	x 2 sets (incl. 1 spare)	x 2 sets (incl. 1 spare)
Blower/washing	4.0m3/minx0.45kg/cm2x5.5kw	20m3/minx0.45kg/cm2x30kw
filter	x 2 sets (incl. 1 spare)	x 2 sets (incl. 1 spare)
	······································	

6,000 m3/day W:1.5m x L:3.5m x H:1.0m x 2 sets W:14.5m x L:6.0m x H:7.5m x 1 set (Eff. Vol. 167 m3) W:10m x L:10m x H:3.0m x 2 sets W:6.5m x L:6.5m x H:5.5m W:6.5m x L:6.5m x H:5.5m x 6 sets W:6.5m x L:16m x H:5.5m x 1 set (Eff. Vol. 260 m3) W:2.1m x L:12m x H:5.5m x 1 set (Eff. Vol. 63 m3) Dia:5.0m x H:4.5m x 1 set (Eff. Vol. 78.5 m3) 5.0m3/min x H:10m x 18.5kw x 3 sets (incl. 1 spare) 20m3/min x H:7m x 37kw 20m3/min x H:7m x 37kw x 3 sets (incl. 1 spare) 2.6m3/minx0.45kg/cm2x5.5kw **. .** . . **. .** . . . x 1 set 7.5m3/minx0.4kg/cm2x11kw x 3 sets (incl. 1 spare) 40m3/minx0.45kg/cm2x55kw x 2 sets (incl. 1 spare)

Case 3



C−4 Fig.

C - 7

APPENDIX D NEIGHBOURHOOD FACILITY BACK-UP DATA

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EXISTING CONDITI	ON IN ZONE 5		Table D-17
	이 가지 않는 것이 있는 것이 같은 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 같은 것이 같은 것이 있는 것이 같은 것이 같은 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 같이 있는 것이 있 같은 것이 같은 것이 같은 것이 같은 것이 같은 것이 있는 것이 있는 것이 있는 것이 있는 것이 같은 것이 같이 있는 것이 같이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것		
Table D-3	Allocation of Existing Neighbourhood Facility	D-3	Table D-18
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······································			M-11- 7 07
Table D-11	Number of Neighbourhood Facility and		Table D-27
	Area in Zone 3 by year (Sub Area: H2-1)	D-8	그 같은 아이지는 것은 것은 것이 가지?

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D-12

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Area: H2-2)	D-8
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Area: H4-1)	D-8
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Area: H4-2)	D-8
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Area: H4-3)	D-9
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Area: H4-4)	D-9
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Area: H4-5)	D-9
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(Sub Area: H1)	D-10
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(Sub Area: H4)	D~10
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(Sub Area: H2)	D-10
ility and Area by	
(Sub Area: H3/North)	D-11
ility and Area by	
(Sub Area: H3/South)	D-11

Development Cost for Neighbourhood Facility (Sub Area: H4/1) D-12 Development Cost for Neighbourhood Facility (Sub Area: H4/2) D-12 Development Cost for Neighbourhood Facility (Sub Area: H4/3) D-12 Development Cost for Neighbourhood Facility (Sub Area: H4/4) D-13 Development Cost for Neighbourhood Facility D-13 (Sub Area: H4/5)

Table D-	-1 Neighl	bourhood	Facility	Standard	for Flat	Туре
		.				
	Housi	ng Estate	by Perun	nahan, Cip	ta Karya	

0.	Kind of	Max.	Area	a Max.	Location
	Facilities	Populati	on (m2)` (m)	
1	Kindergarten	1,000	800	500	at the
	(minimum, 2 classes				neighbourhood
	@ 35-40 pupils)				group + park
2	Primary School	1,600	2,40	0 1,000	ditto
	(minimum, 6 classes				-
	@ 40 pupils)	· · ·			
3	Junior High School	6,000-	2,70	1,000	clustered
	(minimum, 6 classes				with park +
	@ 40 pupils, mornin	g		•	sports court
	& evening)			· •	
4	Senior High School	12,000	2,70	0	ditto
	(minimum, 6 classes				÷.,
	@ 40 pupils, mornin	s.			-
	& evening)				
HE/	ALTH	-			
	ALTH Kind of	Max.	Area	Max.	Location
	Kind of	Max. Population	•	Max. Distance	Location
	Kind of		•		Location
NO.	Kind of		•	Distance	Location at community
NO.	Kind of Facilities 1	opulation '	(m2)	Distance (m)	
NO.	Kind of Facilities 1	opulation '	(m2)	Distance (m)	at community
NO.	Kind of Facilities 1	opulation '	(m2)	Distance (m)	at community centre,
NO.	Kind of Facilities 1	opulation '	(m2)	Distance (m)	at community centre, clustered
NO.	Kind of Facilities 1	opulation '	(m2)	Distance (m)	at community centre, clustered with other
NO.	Kind of Facilities 1	opulation '	(m2)	Distance (m)	at community centre, clustered with other social
NO.	Kind of Facilities 1 Doctor Practice	Population 5,000	(m2) 150 500	Distance (m) 1,500 1,000	at community centre, clustered with other social services ditto
1 2 3	Kind of Facilities 1 Doctor Practice Ext. Public Health centre Maternity House	Population 5,000	(m2) 150 500 1,600	Distance (m) 1,500 1,000 2,000	at community centre, clustered with other social services ditto ditto
NO.	Kind of Facilities 1 Doctor Practice Ext. Public Health centre Maternity House	20pulation 7 5,000 6,000 10,000	(m2) 150 500 1,600 350	Distance (m) 1,500 1,000 2,000 1,500	at community centre, clustered with other social services ditto ditto ditto
1 2 3	Kind of Facilities 1 Doctor Practice Ext. Public Health centre Maternity House Pharmacy Public Health	20pulation 7 5,000 6,000	(m2) 150 500 1,600	Distance (m) 1,500 1,000 2,000	at community centre, clustered with other social services ditto ditto
1 2 3 4	Kind of Facilities 1 Doctor Practice Ext. Public Health centre Maternity House Pharmacy Public Health Centre	20pulation 7 5,000 6,000 10,000	(m2) 150 500 1,600 350	Distance (m) 1,500 1,000 2,000 1,500	at community centre, clustered with other social services ditto ditto ditto
1 2 3 4	Kind of Facilities 1 Doctor Practice Ext. Public Health centre Maternity House Pharmacy Public Health	20pulation 7 5,000 6,000 10,000	(m2) 150 500 1,600 350	Distance (m) 1,500 1,000 2,000 1,500	at community centre, clustered with other social services ditto ditto ditto

NO.	Kind of		Max.	Area	Location
	Facilities	1	Population	(m2)	. <u></u>
1	Civilian Devenc	e post	2,500	300	at each
	Meeting Hall, P	ost.	· ·	۰.	community
	Box.				centre
	Public Parking	ç.			
	Public Bath, WC	& Wash		100	
2	Kelurahan Offic	e	30,000	500	
	Police Post			100	ditto
	Extension Post	Office		100	
	Fire Station			200	
	Public Parking	§ Public			•
	Bath, WC & Wash			1,000	
3	Kecamatan Offic	e	120,000	1,000	
	Police Office			300	ditto-
	Branch Post Off	ice		500	
	Branch telephon	e office		300	
	Fire Station			300	
	Public Parking	S. . 1			
	Public Bath	4		4,000	
	Youth Club			3,000	
	Electric Power			•	
	Station				
		•			-
EL	IGIOUS			• <u>•</u> •	<u></u>
NO.	Kind of	Max.	Area	Max.	Location
	Facilities	Populatio	on (m2)	Distance	
				(m)	
1	Musholla	2,500	300	_ ·	at each
2	Mosque	30,000	1,800	-	community
	(lingkungan)		· .		centre
3	Mosque	120,000	3,600		
	(kecamatan)				
	Church	120,000	1,000		

N	D. Kind of	Max.	1	Area L	ocation		
	Facilities	Populat	ion ((m2)			
1	l Play Ground	250		250	at the centre		
		-			of housing group		
	2 Park & Play Ground	2,500	1	L,250	at community centre		
	3 Sport Facili	000; ty 30	ç	,000	clustered with		
	& Open Court				school		
	Multipurpose						
	Building		1	L,000			
2	4 Green belt	-		-	Spread		
том							
	<u>TERCIAL & SHOPPI</u> Kind of Facilities	NG Max. Population	Area (m2)	Max. Distan	Location		
	Kind of	Max.					
1.	Kind of	Max.		Distan	e at the middle of neighbour hood group, can be clustered with		
NO.	Kind of Facilities Warung	Max. Population 250	(m2) 100	Distan (m) 300	at the middle of neighbour hood group, can be clustered with kindergarter		
NO.	Kind of Facilities	Max. Population	(m2)	Distan (m)	at the middle of neighbour hood group, can be clustered with kindergarter at RW centre		

2	Shops	2,500
3	Neighbourhood	30,000 -
	Shopping Centre	

(shops & market)

local condition

Table D-2	Planning	Standard	for	the	Neighbourhood	Facility	by	Cipta	Karya
							· •		o vie I v

1	Kind of		Area Requested	I Number of F	acility a	d Requested	area accore	ing to Stage	of Planni	ng Area				
	Public Facility : !		tone person I	I Cluster Uni I up to 6.000	t) people	lNeighbourhd lup to 60.00	xod D0 people	ISub Distric 1480.000 peo	t ple	ID1strict 11.500.000 p				
			l i	1 Nos of 1 1 Facility 1 1 (RW) 1 1 - 6000 1	Area	INos of IFacility I(Kelurahan)	lArea L	Nos of IFacility I(Kecamatan) I- 480000	Area I	-	IArea I I I	 		
I.	IEDUCATION	·····				1	}	1		1	1 I	16. 17.		: 70000 : 6000
•	l Windowenien	: 500	0.6700	1 1	4000	•	1 40000	640	320000	1 2000	1 1000000 1		IC i n e a a	1 4000
2.	IKindergarden IPrimary School	: 3000										19.	Cultural hall	1 10000
Z. 3.	Junior High School	1 4500				-						20.	City Park	50000
4.	Library	500			0	: 2	1 1000	16	8000	1 50			Traditional Cultural Hall	1 S000
5.	ISenior High School	4500	•			-								1
6.	lLibrary	I \$00											GOVERNMENT OFFICES	1
7.	Academy	0006			-								Security Post/Electric Pa	1
8.	IUniversity .	22000	I 0.0147		0	1	1			1			Station/Telp Scoth/Post	
п.	1 HEALTH		1			1	1	1		1	1 1	2.	:Box/Gerbage Box :Lurah Office	1 400 1
		1 200	0.067	1 21	400	1 20	1 4000	1 160	r I 32000	1 500	1 100000 1		Public facility	1 1000 I 1 750 I
1. 2.	Medical Melurahan level publick	1 200	i 0.007	1 <u>2</u> 1			1 4000		1 52000	1 300	1 100000	4	Security Post	300
2.	Ikealth Centre •	1 500	0,017	•		•	•	1 16	8000	1 50	1 25000 1	Š.	Fire Station	300
3	IDelivery Rospital	3000					•		48000	I 50			Extension Post Difice	500
4.	lPharmacy	400	0.014	1 0 1	0								Kecamatan Office	: 3750 :
5.	Laborator ius	1 350	0.012	1 01	0	1 2	700						Public Service Office	4200
6.	:Kecamatan level Publick/	1			•	1	!			-	1 19200 I	9. 10.	Police/Army Religious Affair Office	1 2000 1
	lHealth Centre	2400			-		•						ISP4/Marriage Hall	· · ·
7.	Extension Hospital (type C)	1 10000			-					· · · ·			Fire Station	1250
8. 9.	:Wilayah Hospital (type 8) IEmergency Hospital	45000 I 30000 I			-					-			Post/Telecomunication Office ICleaning Department	2500
ш.	: IREL IGIOUS		 			1	: 	1 5		1.	1	14.	Electric Pover Station	1 500 1
	1	1	1	1 1		!	1	1	20000	1 500	\$. I	- 15,	Government Office	1 25900 1
1.	ISmall Mosque	1 300											Post Office Wilayah Level	1 5000 1 1 4000 1
2.	Kelurahan Nosque	1000											Army Office	1 3500 1
5.	10ther Religious Place	: 2000 : 5000						1. 3			· · · · · · ·		Telecommunication Office	1 7500 1
4. 5.	lKecamatan Kosque IOther	1 1400			-								IPLN Office Wilayah Level	1 5000 1
6.	llosque	12000			-				12000	1 2	1 24000 1	21.	Water Supply Office	: 5000 :
7.	Wilayah Kosque	20000			0	I Ö	1 0						factigious Court	: 3000 ;
8.	Other	5000	0.003		0	1 0 1	I 0	10	1 O		1 5000 f	23.	Wilayah Fire Station H0	3000 1
I۷.	ISOCIAL FUND		-			, { ,	1	1		1 1	1 1	VII.	ICONTERCIAL I	
ĩ	; HMulti purpose Hall	400 1	0,1340	1 21	800	1 20	1 8000	1 160	64000	·i 500	1 200000 1	· 1.	ISmall Shop	: 100 :
2.	Youth Club	: 500						1 16					ISmall Shopping Area	; 3590 ;
3.	Social Hall	I 500	0.0080	I · 01									Karket	10000 1
4.	Peoples Hall	2000										-	Warket/ Shopping Area IShopping Contre/ Karket	: 10000 : : 36000 :
5.	Work Trainning Ball	1000											Shooping Centre/ Karket	
6. 7.	Reeting Hall Public Neeting Hall	1 10000 1 5000			-				_				Dept Store/ Bank/ Offices	1
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1.	Play Ground	1 250										. 1.	{Terminal/ Public Parking	. 460 i
5.	(Sport Court/ Park (Sport Court	: 1500 I 8400										2.	ITerminal/ Public Parking	2000 :
ŝ.	ISport Hall	1 1000								•	I 50000 I	· 3.	Terminal/ Transit	1 0008 I
5.	Svibling Pool	4000										4.	Public Parking	13500 (
6.	1C în ema	: 2000											Terminal Rubbin English	50000 \$
7.	lP ar k	1500										δ.	Public Farking	40000
£.	Haulty Purpose Court	10000											TOTAL	
ኖ. 10.	IP a r k ISport Hall	: 10000 10000						-						
11.	ISmall Stadium	1 50000								1 3	1 150000 /			· .
12.	iP a r k	30000				- 0	1 0	1 1 1	30000				ASEA PER HOUSE HOLD/ CLUSTER UNIT	30.0950
13.	a u s e u n	: 3000											AREA PER HOUSE HOLD/ NEIGHBOUR HOOD	38.6500
16.	Cultural Hall	3000											ASEA PER HOUSE HOLD/ SUB DISTRICT AREA PER HOUSE HOLD/ DISTRICT	42.4535 43.8380
15.	lGinema/Teatre	1 3000	0.0070	1 01	0	1 0	1 0	, 1	0000	, ,			AND TEN NOOSE NOEM VISIATO	+2.0000
											•		Source : Planning Standard, REWX (*)	2005

NUMBER OF FACILITY FOR EACH STAGE OF PLANNING AREA

Source : Planning Standard: REAX (*) 2005 (*) : Section Plan of City district

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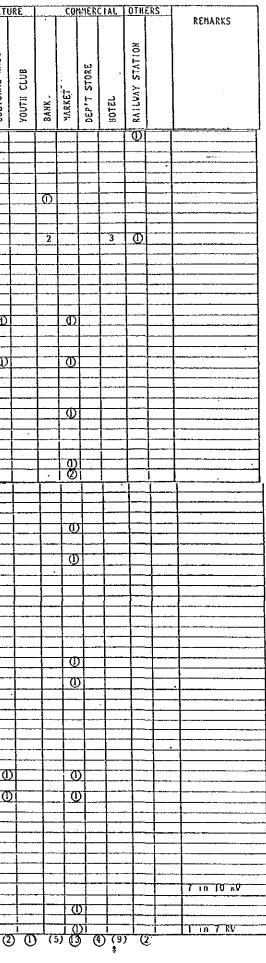
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Table D-3 Allocation of Existing Neighbourhood Facility	Y
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· ·				-	GOVERNI	IENT OFFI	<u> </u>		EDUCA	TIONAL			RELIGIOU	IS		HEALTH		50	CIAL/S	SPORTS	/CULTUR	E	100	MERCIA	L QT}	IERS	
	AREA (P/SQKH)	NUMBER OF POPULATION (P)-	POPULATION DENSITY (P/SQKM)	NUMBER OF HOUSE HOLD	XELURAIIAN OFFICE	TELEPHONE OFFICE	TION	TEN Hoot	JUNIOR ILICII SCHOOL	II SCHOOL	1.0	SCHOOL (UNKHOUN)		ipte -		CLINIC FOR 0 & G									STATION-		REHARKS
······································				L HATAN	JRAHAN	SU015	POLICE STATION FIRE DEPARTMENT	KINDER GARTEN PRIMARY SCHOOL	OR ILLCI	OR HIC	UNIVERSITY SCHOOL FOR	DL CUN	8 5	VISIARA/TEHPLE	ILOSPITAL CLINIC	IC FOR	DRUG STORE	SPORT COURT	NINHING POOL	CINENALL FIELD	CULTURAL RALL	anto III	.	DEP'T STORE	∣≿		
LURAHAN RV (15) (113)				103X	KELUR	TELE	FIRE	KIND	- RD	SENIOR II ACADEMY	UN I V	SCIIO	MOSQUE	VISIA	CLINIC	CLIN	DRUG	SPOR	SVIN	FOOTBAL CINEMA	CULT	YOUTH	MARKET	DEP'T	RAILVAY		
L. I. SUNTER AGUNG (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)										0																<u>}</u>	
	4.25	35,729	8,407	8,610				(10) (13) (3)	(3)								(5)		$\overline{\Omega}$							1 in 16 RV
2. SUNTER JAYA	NA	NA NA	NA	NA				NA NA	NA N.	A		NA						· NA		A							in 11 RV
. 3. PADEMANGAN TIHUR-RV. 01 (10) -RV. 02 -RV. 03 -RV. 04										<u>20</u>			20 20 30 0 0										- 0				
- RV. 04 - RV. 05 - RV. 06 - RV. 07										0			1 201 1		Ф.												······
-RV. 07 -RV. 03 -RV. 09													$\left \begin{array}{c} 0 \\ 0 \\ \end{array} \right $						·	- 6			0				
-RV. 10			-				1.0			<u></u>			·- 'V														
4. PADEHANGAN BARAT-TRV. 01	4.43	37.369	14,317	7,325				8 1	5	3			16 3 3 0		0 0			5					0				·····
(15) -RV. 02 -RV. 03 -RV. 04				9				00																-	\mp		· · · · · · · · · · · · · · · · · · ·
RV. 05 RV. 06 RV. 07																	B B								1		
-RV. 08 -RV. 09 -RV. 10						+												1							+		
- RV. 11 - RV. 12 - RV. 13									Σ			-											0 				
-RV. 14 	3.53	53,143	23.411	9.639 (ΣΟ						0												
. 5. GN. SAHARI UTARA— RV. 01 (8) - RV. 02 - RV. 03 - RV. 03 - RV. 04												0	0				2)	8		_ <u> </u> 					<u>-</u>		
												0						-									
RV. 06 RV. 07 RV. 08							0											-		2							
	1.98	24,450	12,348	5,985		10	0					(2)	(8) (2)					4		2 (2			3 8				
(10)				·									8	0													
RV. 03 RV. 04 RV. 05 RV. 06 RV. 06													D										0				
RV. 07 RV. 08 RV. 09 RV. 10													2														
	0.64	29,844	46,639	6,028					2	2	<u></u>		.6)	-D				3		<u>1</u>			0	2			
$\begin{array}{cccc} & (2) \\ &$	0.81	10,309	12,727	2,988			8		i) (2)	(2)								(17)						4			
			T	r		+	+- }~ 		:43=4	<u>\-</u> 4	1	+	┼╩┤┯┯┤			┼╌┼╸		-10-17		-19	4		╺┟╌╴┼	A (3	<u>ין ש</u>	 ²	10 5 80

Table D-4				-	G	OVER		<u>ا ۱۹۵</u>				T	DUCAT		T	N		RELI	<u> </u>			1	EALTI			<u></u>	AL/SP	ORTSZ	CULTU	ŝ
Allocation of Existing	AREA (SQKM)	NUMBER OF POPULATION (P)	POPULATION DENSITY	NUMBER OF House Hold	i Cel	B) -		11C	7	LY.			CILOOI	Cil001			(NNS		Í				0 +8	LTR			, e			
Neighbourhood Facility-2		(P)	(P/SQKH)		KECAMATAN OFFIĈĒ	KELURAHAN "OFFICE	I CE	RELIGIOUS AFFAIR OFF-	POLICE STATION	FIRE DEPARTMENT	RTEN	PRIMARY SCHOOL	JUNIOR HIGH SCHOOL	SENIOR HIGH SCHOOL	1	SCHOOL FOR N.C. CHILDREN	Сиккина			VI HARA/TENPLE		.	FOR 0	PUBLIC REALTH CTR	STORE	URT	FOOTBALL FIELD		CULTURAL HALL	
					WATA	JRAHA	POST OFFICE	CIDUS	CE CE	1 DEP)	KINDERGARTEN	ARY :	OR H	OR H	NLAUERY UNIVERSI	01 F0) 100	QUE	g	ARA/T	HOSPITAL	CLINIC.	CLINIC		G STO	SPORT COURT	TB/TL	CINEMA	TURAL	
ELURAHAN RV (15) (113)					KEC/	.KELI	POS	1138	POLI	FIRE	KIND	281	Nor	SEN	UNIT UNIT	SCHOO	SCHOOL	HOSQUE	CHURCI	VIII	NOSI	5	5			SPO	20. 20.		<u> </u>	
KEL. 8. GN. SAHARI SELATANTRV. 01 (10) RV, 02	·																	0	_						0			0		-
RV. 03 RV. 04		:									-						Ø	٢							O		_			-
8V. 06 -8V. 07											-	0	8	Q7	<u> </u>	×		Φ	8		Ø							0		-
8. UN. SAMART SELATAN RV. 01 (10) RV. 02 RV. 03 RV. 04 RV. 05 RV. 06 RV. 06 RV. 07 RV. 08 RV. 09 RV. 10	·						0		T C	5	-	0		0				Ō	0		Ø				0	•		+	╞═╁	-
	1.56	27,497	17,615	5,294	 		D			5	5	10	7	7			Ð.	6	3		Ø	 			0	23		Ø	+-+	-
9. KEMAYORAN - RV. 01 (10) - RV. 02										-				0				(l) (3)	-											-
RV. 03 RV. 04 RV. 05					-												0.	3 0					=						╉╍╍╋	-
- 8V. 06 - RV. 07						Ð						<u> </u>					-							0					O	_
RV. 06 RV. 07 RV. 07 RV. 08 RV. 09 RV. 10		-	······································								-					-	Q	2			- 215			0	0		_		╉╼╧┨	~
	0.55	24,302	44.185	6,115		D					2	n			_		0	Ø	Ø		8			Ø	0	-5				~
10. KEBON KOSONG (9) RV. 01 RV. 02																	<u>+</u>	σ	0											_
(3) (V. 02 (V. 03 (V. 03 (V. 04 (V. 05 (V. 05 (V. 05 (V. 06 (V. 07 (V. 08 (V. 03) (V. 03 (V. 03 (V. 03) (V. 03 (V. 03 (V. 03) (V. 03 (V. 03 (V. 03) (V. 03 (V. 03) (V. 03 (V. 03 (V. 03) (V. 03 (V. 03) (V. 03 (V. 03) (V. 03 (V. 05) (V. 06) (V. 06) (V				· · · · ·				-			-	<u> </u>		Ø														<u> </u>	╞╾┥	_
- RV. 06 - RV. 07								-+-		1	+	Ø	$\left \right $	_		0		9	0	<u> </u>				Ø	Ø		_		+	-
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1. SERDANG	1.33	27,344	24.198	5,852			<u>_</u>) 			ιſ	2			-		0						0	12		-1	╎	ĥ
-RV. 03 -RV. 04						D	0	~	+			a	0				0							Ō				D D	4	ŀ
11. SERDANG (7) RV. 02 RV. 03 RV. 04 RV. 04 RV. 05 RV. 06 RV. 07					0				_					Q		F		1 Ø												Ì
XV. 07	1.05	29,775	28,357	6,947	D	σ	2	<u> </u>			8	12	4	4]	0	6				8		0		8		īt		ļ
. UTAN PANJANG RV. 01 (10)						Ο				-	+	8	8	0			<u> </u>				D				Ο			_	- 	+
- RV. 03 - RV. 04															-			8											-	F
RV. 05 RV. 06 RV. 07									_		<u> </u>					·														ł
- RV. 08 - RV. 09							_	-+-						_			0	ا گ			<u> </u>								-	
t→RV. 10	1.05	30,447	28,977	5,195		Ø					7	10	-	-			O	8			0				Ø	20		-		İ
HARAPAN HULIA	·				 									_															_ <u></u>	ł
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RV. 05 RV. 06							<u> </u>										<u> </u>	Ø					<u> </u>							ļ
						0				-							8	18					0		<u> </u>				10	
	0.91	25,090	27,571	5,182	· · · · · ·	8		-			3	5		1			8	Ö					0			9		-	0	
4. CEHPAKA BARU	······································	-																D						0						1
- RV. 06 - RV. 07 - RV. 08 - RV. 09 - RV. 10						Φ							╞╼┛┨				†0.	1	0				<u> </u>	0						-
- RV. 09 - RV. 10								_		-															 	<u> </u>				1
15. SUMUR BARU	0.92	37,096	40.322	5.020		0					(7)) (7)	(3)	(3)			1	3	1					0		(12)		_	<u> </u>	-
(1)	(1.03) (19.512	(18,943)	(4.074)							/121		1(2)	(2)			4	2	1					<u> </u>		(17)				
1	23.84 ‡	411,907	17,278 ቱ ተ	84,274	0	8	6	l (0'0	0 0	(74)	(145) #	(51) ‡	(36) *		ס'מ	া জ্ব	Ó	0	0	6	0	0	٢	0	(147)	لل ا	(7) (#	୭୦	Ĵ
	t Kunher	vith Omark umbers is st	Average 4.	89 p/family]																									



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,		ACILITY OF FACILITY)	RELATED GOVERNMENT AGENCY	EXECUTION/OPERATION B O D Y
. (E 1	Kindergarten	- Education & Teaching	Education & Teaching
	1		Office-DKI	Office-DXI
			- City Planning Office-DKI	Dinas Pendidikan &
	[· · ·	Pengajaran - DKI
	E 2	Primary School	ditto	ditto
	E 3	Junior High	- Regional Office of Dept.	Regional Office of
_		School	Education & Culture-DKI	Dept. of Education
un l			·	& Culture
Education		·	- City Planning Office-DKI	(Kanwil P&K)
ad La	E 4	Senior High	ditto	ditto
		School		· · · · · · · · · · · · · · · · · · ·
	Е 5	Library	- Education & Teaching	Education & Teaching
1	·	-	Office-DKI	Office-DKI
			- City Planning Office-DKI	(Dinas Pendidikan &
				Pengajaran - DKI)
	E 6	Academy	- Regional Office of Dept.	Regional Office of
			of Education & Culture-DKI	Dept. of Education
			- City Planning Office-DKI	& Culture (Kanwil P&K
	E 7	University	ditto	ditto
	<u>л</u> ин 1	Medical Hall	- Health Office-DKI	Health Office - DKI
	uur	figurear Mair	- City Planning Office-DKI	Dinas Kesehatan - DKI
	MH2	Kelurahan Level	ditto	ditto
	1012	Public Health	44460	•
427		Centre		
rea	мнз	Kecamatan Level	ditto	ditto
σ	ណភ	Public Health	arco	dillo
Meulcal q Realth				
5		Centre		ditto
Σ	MH4	Extension Hospital	ditto	ditto
		(Type C)		ditto
	мн5	Wilayah Level	ditto	ditto
		Hospital (Type B)		ditto
-	MH6	Emergency Hospital		Regional Office of
	MH7	General Hospital	- Regional Office of Dept.	Dept. of Health
			of Health-DKI	(Kanwil DEPKES)
_	1010	Matovalte Houte	- City Planning Office-DXI	Health Office-DKI
nea	мн8	Maternity House	- Health Office-DKI	Dinas Keschatan - DKI
(LOP: LA DUCE	100		- City Planning Office-DKI	Health Office - DKI
5	MI9	Pharmacy	ditto	(Dinas Kesehatan-DKI)
1				
	M010	Taharatan.		Private owner ditto
-	<u>MH10</u>	Laboratorium	ditto - Local inhabitant	R W/Local
	RI	Small Mosque	 ~	Inhabitant
			Mental & Spiritual Development Bureau-DXI	4unostano
ł		Valuerban Treet	- City Planning Office-DKI ditto	Local Inhabitant
ر ۱	R 2	Kelurahan Level Mesawa	ULLU	TAPAT VAURATERUE
		Mosque		ditto
SNOTSTIAN	R 3	Kecamatan Level	ditto	ditto
2 2		Mosque		Wald Wake
ł	R 4	Wilayah Mosque	ditto	Wali Kota
	R 5	Grand Mosque	- Regional Office of Dept.	Regional Office of
			Religious	Dept. Of Religious
- 1			- City Planning Office-DK1	(Kanwil DEPAG)

FACILITY RELATED EXECUTION/OPERATION (CODE OF FACILITY) GOVERNMENT AGENCY BODY R 6 Other Religious - Local Inhabitant Place - Mental & Spiritual Dev. Local Inhabitant Bureau - DKI S1 Multi purpose - Local Inhabitant - Social Office-DKI Local Inhabitant Hall - City Planning Office-DKI - Kelurahan S 2 Youth Club - Social office-DKI Kelurahan al. - City Planning office-DXI 00 S 3 Social Hall ditto ditto - Kecamatan S 4 Peoples Hall - Social office-DKI Kecamatan - City Planning office-DKI S 5 Work Training - Kelurahan/Kecamatan Kelurahan/ Hall - City Planning office-DKI Kecamatan - Kecamatan S 6 Meeting Hall - Social Office DKI Kecamatan - City Planning Office-DKI S 7 Public Meeting ditto ditto Hall Self Management S 8 Metropolitan Hall ditto RS1 Play Ground Parks Office-DKI - Parks Office-DKI (Dinas Pertamanan-DKI - City Planning Office-DKI Sport Office-DKI RS2 Sport Park/ - Sport Office-DKI (Dinas Olah Raga DKI) Parks Office-DKI Court - Parks Office-DKI (Dinas Pertamanan-DXI) - City Planning office-DKI RS3 Sport Hall - Sport Office-DKI Sport Office-DKL - City Planning office-DKI (Dinas Olah Raga-DKI) RS4 Small Stadium ditto ditto Cultural RS5 Swimming Pool ditto ditto RS6 . Multi Purpose - Sport Office-DKI Sport Office-DKI (Dinas Olah Raga-DKI) Parks Office-DKI - Parks Office-DKI Court Kecamatan - City Planning Office-DKI Sports Office-DKI RS7 *Sport Complex - Sport Office-DKI Wali Kota - KONI-DKI - City Planning Office-DKI Private Owner RS8 Cinema/Theatre - Private Owner - City Planning Office-DKI RS9 Park - Parks Office-DKI Parks Office-DKI - City Planning Office-DKI (Dinas Pertamanan-DKI) RS10 City Park ditto ditto ditto ditto RS11 Metropolitan Park - Museum & History Museum & History RS12 Museum Office-DKI Office-DKI (Dinas Nuseum & - City Planning-DKI Sejarah DKI) - Cultural Office-DKI Cultural Office-DKI RS13 Cultural Hall (Dinas Kebudayaan-DKI) - City Planning Office-DKI Wali Kota

		FACILITY	RELATED	EXECUTION/OPERATION
(CODE	OF FACILITY)	GOVERNMENT AGENCY	BODY
	RS14	Traditional	ditto	Gultural office-DKI
				(Dinas Kebudayaan-D
		Cultural Hall		Tourism office-DKI
i	RS15	Amusement &	Tourism Office-DKI	Tourism Office-DKI
	L	Recreation	- City Planning Off - DKI	Private Company
	RS16	Metropolitan	- Parks Office-DKI	Parks Office-DKI
		Park	- City Planning Of - DKI	
				Self management
E)	RA17	Zoological	- City Planning Off - DKI	coordination with
Continued)				veterinary service
17.71				office - DXI
ŝ	R\$18	Botanical	- Forest office-DKI	Self Management
		Garden	- City Planning Off - DKI	
	R\$19	Metropolitan	- Directorate of Museum,	Dir. of Museum Dept.
		Museum	Dept. Of Education &	of Education &
			Culture	Culture
			- City Planning-DKI	
	RS20	Orchestra Hall	- Cultural Office-DKI	Cultural Office-DKI
_			- City Planning-DKI	
	C L	Security Post	- RW ; - RT	RW
ļ			- City Planning Off - DKI	R T
ł	G 2	Telephone Box	- Regional Office of Dept.	Perumtel - Witel IV
			of Tourism, Post&Telecom-	
			munication-DKI	
			- Perumtel-Witel IV	
			- City Planning Off - DKI	
	GJ	Elec. Power Sta.	- National Electric Power	National Electric
			Company	Power Company (PLN)
ļ			- City Planning Office-DKI	
	G4	Post Box	- Reg.Off.of Dept.of Torism,	Regional Office of
			Pos&Telecommunication~DKI	Dept. of Tourism
			- City Planning Office-DKI	Post & Telecommuni -
				tion - DKI
	G 5	Garbage Box	- Cleaning Office-DKI	Cleaning Office-DKI
ļ			- City Planning Office-DKI	
	G 6	Kelurahan Office	- Government Development	
			Bureau-DKI	Kelurahan
			- Wali Kota + Kecamatan	
ļ			- City Planning Office-DKI	······
	G 7	Fire Station	~ Fire Office-DKI	Fire Office-DKI
		<u> </u>	- City Planning Office-DKI	
	G 8	Local Post Off.	~ Reg.Off.of Dept.of Tourism	Reg.Off.of Dept.of
			Post & Telecommunication	Tourism, Post&Tele-
			- City Planning Office-DKI	communication - DXI
	G 9	Kecamatan Office	~ Government Dev.Bureau-DKI	Kecamatan
			~ City Planning Office-DKI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	G10	Public Service	~ Government Dev.Bureau-DKI	Kecawatan
ļ		Office	~ City Planning Office-DKI	
	G11	Polic Office	~ Wali Kota	Reg. Police of
ļ		(Kosekta-Kowilko)	~ Reg.Policy of Metro Jaya	Metro Jaya
			~ Kecamatan	

Table D-5 Related Agency and/or Execution-Operation Body for the Neighbourhood Facility

Y	FACILITY	RELATED	EXECUTION/OPERATION
CODE (OF FACILITY)	GOVERNMENT AGENCY	BODY
G12	Army Office	- Wali Kota	Reg. Military
	(Koramil-Kodim)	- Reg. Military Commando of	Comwando of
		Jakarta Raya	Jakarta Raya
		- Kecamatan	
		- City Planning Office-DKI	
G13	Post & Tel.Off.	- Regional Off. of Dept. of	Reg. Off.of Dept.
		Tourism, Post&Telecommuni-	of Tourism & Post
		cation-DKI	Telecommunication-
		- City Planning Off - DKI	DKI
G14	Religious Affair	- Regional Office of Dept.	Reg.Off. of Dept.
	Off. & Marriage	of Religious-DKI	of Religious-DKI
	Hall/BP4	- Mental & Spiritual Dev.	
		- Kecamatan	
		- City Planning Office-DKI	
G15	Cleaning Dept.	- Cleaning Office-DXI	Cleaning Office-DXI
		- City Planning Office-DKI	(Dinas Kebersihan-DKI)
G16	Government Off.	- Government Development	Offices Concern
		Bureau-DKI	Wali Kota
l		- City Planning Office-DKI	
G17	PLN Office	- National Elec.Power.Comp.	National Elec. Power
		- City Planning Office-DKI	Company (PLN)
G18	Water Supply	- Water Supply Company-DKI	Water Supply Company
	Office	- City Planning Office-DKI	- DKI (PDAM)
G19	Religious Court	- Regional Off.of Dept.of	Regional Off.of Dept.
		Law - DKI	of Law - DKI
			(Kanwil Dep.Kehakiman)
		- City Planning Off - DKI	Regional off of Dept
			of Religious-DKI
			(Kanwil Dep. Agama)
C 1	Small Shop Area	- Private Owner	Private Owner
	oward only fired	- City Planning Office	
		- PD Pasar Jaya/Private	PD Pasar Jaya/
		Owner/Company/Group	Private Owner
C 2	Market/Shopping	Development of Regional	
62	Area	Economy Facility	
1		Decouvery receivery	
	VICO	Bureau - DVT	
	ALCO	Bureau - DKI - Rublic order Bureau-DKI	
	A1Ca	- Public order Bureau-DKI	
		- Public order Bureau-DKI - City Planning Office-DKI	
		- Public order Bureau-DKI - City Planning Office-DKI - Development of Regional	
		 Public order Bureau-DKI City Planning Office-DKI Development of Regional Economy Facility 	Detusto fumer/Ermin
с 3	Shopping Centre/	 Public order Bureau-DKI City Planning Office-DKI Development of Regional Economy Facility Bureau - DKI 	Private Owner/Group
с 3		 Public order Bureau-DKI City Planning Office-DKI Development of Regional Economy Facility 	Private Owner/Group Compay PD. Pasar Jaya

	FACILITY	RELATED	EXECUTION/OPERATION
(CODE	OF FACILITY)	GOVERNMENT AGENCY	BODY
C 4	Dept. Store	- City Planning Office-DKI	Private Owner/Company
C 5	Bank	- Bank Indonesia	Government Bank
		- City Planning Office-DKI	Private Company/Group
Ce	office/Other	- Private Company/Private	Private Company)
	Services	Owner	Private Owner
		- Public order Bureau-DKI	
C 7		- City Planning-DKI	
C 7	Trade Centre	- DKI, Chmaber of Commerce	DKI, Chamber of
		- Regional Office of Dept.	Commerce/Private Comp
3	1	of Trade - DKI	Regional Off of Dept
	н. - С	- City Planning office-DKI	of Trade - DKI
			(Kanwil Departemen
		•	Perdagangan)
6 8	International	- Dept.of Tourism, Post &	Private Company/Group
100	Class Hotel	Telecommunication	
	CIASS NOCEL	- Public order Bureau-DXI	,
		- City Planning Office-DKI	
	Terminal/Public	- Traffic & Road Transpor-	Traffic & Road Trans-
T 1	•	tation Office-DXI	portation Off DKL
	Parking	tation office-bai	(DLLAJR - Dinas Lalu
			Lintas & Angkutan
			Jalan Raya)
5		- PD Parkir Jaya	PD Parkir Jaya
T 2		- Public order Bureau-DKI	
;		- City Planning Office-DKI	Mushfie t Dead Trans
T 2	Terminal/Transit	ditto	Traffic & Road Trans-
!			portation Office-DKI
			(DLLAJR - Dinas Lalu
			Lintas & Angkutan
		· · · · · · · · · · · · · · · · · · ·	Jalan Raya)
<u>T 3</u>	Terminal/Station	ditto	ditto
Т4	Public Parking	- Parkir Jaya	PD Parkir Jaya
		- Public order Bureau-DKI	
		- City Planning Office-DKI	

Table D-6 Related Agency and/or Execution-Operation Body for the Neighbourhood Facility

Table D-7 Number of Neighbourhood Facility and

Area in Zone 3 by year (Sub Area: H1-1)

	I t e m	No. of	Sqm/	Total	Number of Employee
		Unit	Facility	Area (m2)	(Person)
	1. Kinder garten	8	300	2,400	@ 5 x 8 = 40
	2. Primary School	44	1,800	7,200	$0.15 \times 4 = 60$
	3. Play ground	6	150	900.	
	4. Musholla, Church, Temple	2	1.80	360	· •
ł [,]	5. Pharmacy, Shops	-	240		-
2	6. Security Post, Public Tel.				-
•	Elec. Sub stn, Letter Box,				
	Garbage Box	2	180	360	
	Total			11,220	
	The second s				
51	1. Junior High School	1	2,400	2,400	@ 20 x 1 ≃ 20
12	2. Senior High School	1	2,400	2,400	0 25 x 1 = 25
ے ا	3. Clinic/Public Mealth Centre	1	300	300	@ 4 x 1 = 4
Ē	4. Maternity Nospital	1	1,800	1,800	$(20 \times 1) = 20$
Ned L Ca L	5. Hospital (Type C)/	· · · ·			
2	Laboratorium		210	-	0 6 x
ĺŕ	6. Kelurahan & Lurah Office	1	600	600	$0.10 \times 1 = 10$
- S	7. Police Post	1	180	130	$2 \times 1 = 2$
35	8. Sub Post Office	1	180	180	@ 3 x 1 = 3
- 0	9. Fire Brigade Post	1	180	180	@ 5 x 1 = 5
Le of	10. Shopping Centre (Pasar)	-	12,000	-	_
111	11. Commercial (Small shops)	1	2,100	2,100	-
ုဒ္ဓီသို	12. Cinema	_	1,200		
5	13, Cultural Hall				
100	(w/ Library, Art Hall etc)	_	300	-	@3x -= -
5	14. Multi Purpose Hall /				
55	Youth Club	- `	300	-	@ 5 x - = -
Gulture, Roct'ta Conmerc'1 Gov'z Youth Centre Office	15. Sports Field		2,040	<u> </u>	
[16. Kelurahan Mosque	1	600	600	
1	Total		<u>``````</u>	10,740	······································

R.W. Level 1.46 sqm/person, 7.31 sqm/H.H Kelurahan Level 1.40 sqm/person, 7.00 sqm/H.H Whole Level 7.86 sqm/person, 14.32 sqm/H.H Average Facility Area : R.W.

Table D-8 Number of Neighbourhood Facility and

ltem				Number of Employee
	Unit			(Person)
1. Kinder garten	7			@ 5 x 7 × 35
2. Primary School	3	1,800	5,400	0 15 x 3 = 45
3. Play ground	5	150	750	-
4. Musholla, Church, Temple	2	180	360	
5. Pharmacy, Shops	1	240	240	
6. Security Post, Public Tel. Elec. Sub sin, Letter Box,				
		180		
Total		·	9,210	·
1. Junior High School		2,400	**	0 20 x
2. Senior High School	`	2,400	_	@ 25 x
3. Clinic Public Health Centre		300		@ 4 x - = -
4. Maternity Hospital		1,800		@ 20 x - = -
	rea : H1 - 2 (1994/95) I t e m 1. Kinder garten 2. Primary School 3. Play ground 4. Musholla, Church, Temple 5. Pharmacy, Shops 6. Security Post, Public Tel. Elec. Sub sta, Letter Box, Garbage Box T o t a 1 1. Junior High School 2. Senior High School 3. Clinic Public Health Centre	rea : H1 - 2 (1994/95) I t e m No. of Unit 1. Kinder garten 7 2. Primary School 3 3. Play ground 5 4. Musholla, Church, Temple 2 5. Pharmacy, Shops 1 6. Security Post, Public Tel. Elec. Sub stn, Letter Box, Garbage Box 2 T o t a 1 1. Junior High School - 2. Senior High School - 3. Clinic Public Health Centre -	rea : H1 - 2 (1994/95) I t e m No. of Sqm/ Unit Facility 1. Kinder garten 7 300 2. Primary School 3 1,800 3. Play ground 5 150 4. Musholla, Church, Temple 2 180 5. Pharmacy, Shops 1 240 6. Security Post, Public Tel. Elec. Sub stin, Letter Box, Garbage Box 2 180 T o t a l - 1. Junior High School - 2,400 2. Senior High School - 2,400 3. Clinic Public Health Centre - 300	I t e m No. of Sqm/ Total Unit Facility Area (m2) 1. Kinder garten 7 300 2,100 2. Primary School 3 1,800 5,400 3. Play ground 5 150 750 4. Musholla, Church, Temple 2 180 360 5. Fharmacy, Shops 1 240 240 6. Security Post, Public Tel. Elec. Sub sth, Letter Box, Garbage Box 2 180 360 T o t a l 9,210 1. Junior High School - 2,400 - 1. Junior High School - 2,400 - - 2. Senior High School - 2,400 - 3. Clinic Public Health Centre - 300 -

. Ē	3. Clinic Public Health Centre	-	300		6	4 x	_ =	-
10	4. Maternity Hospital	~	1,800		Ģ	20 x	- =	
Чоці	5. Hospital (Type C)/	<u></u>						
× (Laboratorium	1	210	210		<u>6 x</u>		6
1 2 8	6. Kelurahan & Lurah Office	-	600 ·			10 x		-
202	7. Police Post		180	-	6	2 x	- =	-
6 ⁸ E	8. Sub Post Office	-	180		0	3 x	- 2	-
121	9. Fire Brigade Post	~	180		୍ତ	5 x	- *	
E i eí	10. Shopping Centre (Pasar)	-	12,000	-		-		
Commi	11. Commercial (Small shops)	1	.2,100	2,100		-	_	
5	12. Cinema	-	1,200		÷	-	_	
8	13. Cultural Hall						~	
Rect	(w/ Library, Art Hall etc)	-	300		6	3 x	1 =	3
2.	14. Multi Purpose Hall /							
15	Youth Club	1	300	300	6	5 x	_ = =	-
12.6	15. Sports Field	-	2,040				• •	
	16. Kelurahan Mosque	_	600					
	Total			2,610				

Note : Projected Population : 6.750 p (1,350 House Hold) Average Facility Area : R.W. Level 1.37 sqm/person, 6.83 sqm/H.H Kelurahan Level 0.39 sqm/person, 1.33 sqm/H.H Whole Level 1.76 sqm/person, 8.76 sqm/H.H

No. of Unit 7	Sqm/ Facility	Total	Number of Employed
7	Facility a		
		(m2)	(Person)
	300	2,100	@ 5 x 7 = 35
3	1,800	5,400	@ 15 x 3 = 45
5	1.50	750	
2	180	360	
	240		
x 2	180	360	~
		8,970	
-	2,400	-	@ 20 x
_	2,400		@ 25 x - = -
-	300	_	@ 4 x - = -
	1,800		@ 20 x - = -
	210		@ 6 x - = -
_	600		@ 10 x - = -
	180	~ .	@ 2 x - = -
-	180	_	0 3 x - = -
	180		0 5 x
_			
1		2,100	
1			-
1	300	300	@ 3 x 1 * 3
			<u> </u>
		2.040	
	and the second		
		5.640	
	2 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Number of Neighbourhood Facility and Table D-10

Table D-9

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Level 2

cdical, Educ ' tn

re, kect' th

Area in Zone 3 by year (Sub Area: H3-1, 2)

	lt.en	No. of	Squ/	Total	Number of Employe
		Unit	Facility	Area (m2)	(Person)
	1. Kinder garten	10	300	3,000	@ 5 x 10 = 50
	2. Primary School	5	1,800	9,000	@ 15 x 5 = 75
	3. Play ground	7	150	1,050	~
	4. Musholla, Church, Temple	2	180	360	
	S. Pharmacy, Shops		240	-	
	6. Security Post, Public Tel.				
	Elec. Sub stn, Letter Box, Garbage Bo	х 2	180	360	-
	Total			13,770	
ិភ្ន	1. Junior High School	1	2,400	2,400	$20 \times 1 = 20$
- äl	2. Senior High School	<i>→</i> .	2,400		@ 25 x - =
led i cal R	3. Clinic/Public Health Centre		300	-	0 4 x - =
5	4. Maternity Hospital	-	1,800	-	@ 20 x - ≖ →
्रा	5. Hospital (Type C)/Laboratorium		210	-	@ 6 x ~ = ~
ſ	6. Kelurahan & Lurah Office	-	600	_	0 10 x - ≃ -
<u>ا</u> ن ي	7. Police Post	-	180		@ 2 x - = -
Office	8. Sub Post Office		180	-	@ 3 x 1 ≈ 3
<u>ـ</u>	9. Fire Brigade Post	-	180		0 5 x 1 = 5
Connere'1	10. Shopping Centre (Pasar)	-	12,000		
r Y	11. Commercial (Small shops)	1	2,100	2,100	-
Ě	12. Cinema		1,200		<u> </u>
	13. Cultural Hall				
2	(w/ Library, Art Hall etc)	-	300		@3x - ≖ -
ž	14. Hulti Purpose Hall/ Youth Club	-	300	_	0 5 x - =
e L	15. Sports Field	~	2,040	_	_
35	16. Kelurahan Mosque	1	600	600	
Vouth.	Total			5,100	
		(. 			••••••
			use Hold)		4
	Average Facility Area : R.W.		.53 sqm/per		sqm/H.H
	Keluraha Whole		.57 sqm/per .10 sqm/per		sqm/H.H

Number of Neighbourhood Facility and

Area in Zone 3 by year (Sub Area: H1-3)

D ~ 7

Table D-11 Number of Neighbourhood Facility and

	Area in Zone 3 by year	: (Sub	Area:	H2-1)	
ub A	cea : H2 - 1 (1996/97)		1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		<u> </u>
	Item	No, of	Sqm/	Total	Number of Employe
	· · · · · · · · · · · · · · · · · · ·	Unit	Facility	Area (m2)	(Person)
	1. Kinder garten.		300	2,100	@ 5 x 7 = 35
	2. Primary School	3	1,800	S,400	$0.15 \times 3 = 45$
	.3. Play ground	5.	150	750	
	4. Musholla, Church, Temple	<u> </u>	180	180	
	5. Pharmacy, Shops	<u> </u>	240	240	
	6. Security Post, Public Tel.				
	Elec. Sub stn, Letter Box, Garbage Box	1	180	180	. .
	Total			8,850	
				States and	
5 (1. Junior High School	1	2,400	2,400	@ 20 x 1 = 20
· · ·	2. Senior High School	1	2,400	2,400	@ 25 x 1 = 25
ر چر	3. Clinic/Public Health Centre	1	300	300	@ 4 x 1 = 4
5	4. Maternity Hospital	**	1,800	_	@ 20 x - =
1 2 1	S. Hospital (Type C)/Laboratorium	-	210		0 6 x ≈
1 1	6. Kelurahan & Lurah Office	1	600	600	@ 10 x 1 = 10
. ° 8	7. Police Post	1	180	180	@ 2 x 1 = 2
Cov .	8. Sub Post Office	1	180	180	@ 3 x 1 = 3
0.01	9. Fire Brigade Post	1	180	180	@ 5 x 1 = 5
5 (10. Shopping Centre (Pasar)	-	12,000	-	~
12 St	11. Commercial (Small shops)	1	2,100	2,100	
55	12. Cinema	-	1,200	-	
5	13. Cultural Hall				
ų.	(w/ Library, Art Hall etc)		300	· ·	@ 3 x - = -
Roct	14. Multi Purpose Hall / Youth Club	1	300	300	@ 5 x 1 = 5
<u>.</u>	15. Sports Field		2,040		
24	16. Kelurahan Mosque	-	600		
ŝŝ	Total			8,640	

Note : Projected Population : 6.920 p (1,380 House Hold) Average Facility Area : R.W. Level 1.28 sqm/person, 6.40 sqm/H.H Kelurahan Level 1.25 sqm/person, 6.24 sqm/H.H Whole Level 2.53 sqm/person, 12.64 sqm/H.H

Table D-12 Number of Neighbourhood Facility and

	Area in Zone 3 by y	year (Sub	Area:	H2-2)	
ub A	rea : H2 - 2 (1997/98)				
	I t e m	No. of	Squ/	Total	Number of Employe
		Unit	Facility	Area (m2)	(Person)
	1. Kinder garten	5	300	1,500	@ 5 x 5 = 25
	2. Primary School	2	1,800	3,600	@ 15 x 2 = 30
:	3, Play ground	3	150	450	**
	4. Musholla, Church, Temple	1	180	180	~
	5. Pharmacy, Shops		240		· - · · · · · · · · · · · · · · · · · ·
:	6. Security Post, Public Tel.				
	Elec. Sub sth, Letter Box, Garbage	Box 1	180	180	- '
	Total			5,910	
51	1. Junior High School	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2,400		€ 20 x ~ ~ -
ાં	2. Senior High School		2,400		@ 25 x - = -
cal.Ed	3. Clinic/Public Health Centre	_	300	····	<u>e 25 x</u>
131	4. Maternity Hospital	1	1,800	1,800	$\frac{2}{20 \times 1} = 20$
1 to 1	5. Hospital (Type C)/Laboratorium	1	210	210	$e^{6x1} = 6$
۱ ⁻ ۱	6. Kelurahan & Lurah Office	~	600		0 10 x - = -
	7. Police Post		180		@ 2 x - =
00110	8. Sub Post Office		180		$\frac{1}{2} \frac{1}{3} \frac{1}{x} \frac{1}{1} = 3$
8 öl	9. Fire Brigade Post		180		0 5 x 1 = 5
1, 22 26 26	10. Shopping Centre (Pasar)	~	12,000		
1, 22	11. Commercial (Small shops)		2,100		
Com	12. Cinema	1	1,200	1	
20	13. Cultural Hall		· · · · · ·	······	· · · · · · · · · · · · · · · · · · ·
5	(w/ Library, Art Hall etc)	i	300	· 1	@ 3 x 1 = 3
2	14. Multi Purpose Hall/Youth Club		300	······	0 5 x - = -
Iture, Reer' ta C	15. Sports Field	1	2,040	1	
2 2	16. Kelurahan Mosque	1	600	i	
Ξē	Total			2,010	

Projected Population : 4,730 p (950 House Hold) Average Facility Area : R.W. Level 1.25 sqm/person, 6.25 sqm/H.H Kelurahan Level 0.42 sqm/person, 2.12 sqm/H.H Whole Level 1.67 sqm/person, 8.37 sqm/H.H

Sub Ar	ea : 114 ~		in zone	3 ру де	ar (Sub	Area: H	4~L)
		t e m	.]	No. of	. Sqm/	Total	Number of Emp
			· .	Unit	Facility	Area (m2)	(Person)
		er garten ary School		<u> </u>	300 1,800	1,500	0 5 x 5 × 0 15 x 2 ×
5	3. Play	ground		<u>3</u>	1,000	450	
Lovel	4. Mush	olla, Chur	ch, Temple	1	180	180	
R.	5. Phari	macy, Shop	s Public Tel	1	240	240	-
			Letter Box				
	Carbo	age Box		1	180	180	
·	To	t a l				-6,150	
5	1. Junio	or High Sc	hool	1	2,400	2,400	@ 20 x 1 =
Educ	2. Senio	or High Sc	hool	1	2,400	2,400	0 25 x 1 =
			Health Cent	re 1	300 1,800	300	@ 4 x 1 = @ 20 x - =
Medical,	5. Hosp	rnity Hosp ital (Type		·····	1,000		
. ¥[Labo	ratorium		·	210		@ 6 x - =
ا، راج			rah Office	<u> </u>	600 180	600 180	$\frac{(10 \times 1)}{(2 \times 1)^2}$
Kelurahan Level Ammerc'l Go't antre Office	7. Poli	<u>ce Post</u> Post Offic	e	<u>1</u> 	180	180	$\frac{6}{2} \frac{2}{x} \frac{1}{x} =$
505	9. Fire	Brigade P	ost	1	180	. 180	@ 5 x 1 =
	10. Shop	ping Centr	e (Pasar)		12,000	-	
Sona Kel	11. Communication 12. Cine		all shops)	1	2,100	2,100	
Kelurahan ftr Connerc'l Centre	13. Cult	ural Hall					
Culture, Rect'	(w/	Library, A	rt Hall etc)	300		<u> </u>
2 .		1 Purpose h Club	Hall /	-	300		@5x=
le ri	15. Spor				2,040		
0,	16. Kelu	rahan Mosq t a l	ນຍ		600	8,340	
Tabl	.e D-14		er of Ne	Kelural Whole ighbourl	han Level 1 Level 2 hood Fac	23 sqm/perso 67 sqm/perso 90 sqm/perso ility and	on, 8.35 squ/} on, 14.49 sqm/}
		Numb	er of Ne	Kelural Whole ighbourl 3 by ye	han Level 1 Level 2 hood Fac	67 sqm/perso 90 sqm/perso ility and Area: H	m, 8,35 squ/j n, 14.49 squ/j l l 4-2)
	.e D-14	Numb	er of Ne	Kelural Whole ighbourl 3 by ye No. of	han Level 1 Level 2 hood Fac ear (Sub	67 sqm/perso 90 sqm/perso ility and Area: H Total	n, 8.35 sqm/h n, 14.49 sqm/h l [4-2] Number of Em
	e D-14	Numb Area 2 (1991)	er of Ne	Kelural Whole ighbourl 3 by ye	han Level 1 Level 2 hood Fac	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400	n, 8.35 squ/} n, 14.49 squ/} [[4-2] Number of Em (Person) @ 5 x 8 =
Sub Ai	e D-14 rea : 114 - . I 1. Kind 2. Prim	Numb Area 2 (1991) t e m er garten ary School	er of Ne in Zone	Kelural Whole ighbourl 3 by ye No. of Unit 8 4	han Level 1 Level 2 hood Fac ear (Sub Facility 300 1,800	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400 7,200	n, 8.35 sqm/} n, 14.49 sqm/} [[4-2] Number of Em (Person)
Sub Ai	e D-14 	Numb Area 2 (1991) t e m er garten ary School ground	er of Ne in Zone	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6	han Level 1 Level 2 hood Fac ear (Sub Facility 300 1,800 - 150	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900	n, 8.35 squ/} n, 14.49 squ/} [[4-2] Number of Em (Person) @ 5 x 8 =
Sub Ar	e D-14 .e D-14	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop	er of Ne in Zone	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2	han Level 1 Level 2 hood Fac ear (Sub Facility 300 1,800	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400 7,200	Nn, 8.35 squ/} n, 14.49 squ/} (4-2) Number of Em (Person) 0 5 x 8 = 0 15 x 4 = -
Sub Ai	e D-14 .e D-14	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post,	er of Ne in Zone	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 -	han Level 1 Level 2 hood Fac ear (Sub Facility 300 1,800 - 150 180	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360	Nn, 8.35 squ/} n, 14.49 squ/} (4-2) Number of Em (Person) 0 5 x 8 = 0 15 x 4 = -
Sub Ar	e D-14 .e D-14 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, Sub stn,	er of Ne in Zone	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Facility 300 1,800 - 150 180 240	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400 7,200 900 360	Nn, 8.35 squ/} n, 14.49 squ/} (4-2) Number of Em (Person) 0 5 x 8 = 0 15 x 4 = -
Sub Ar	e D-14 rea : 114 -	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post,	er of Ne in Zone	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 -	han Level 1 Level 2 hood Fac ear (Sub Facility 300 1,800 - 150 180	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360	Nn, 8.35 squ/} n, 14.49 squ/} (4-2) Number of Em (Person) 0 5 x 8 = 0 15 x 4 = -
Sub An	e D-14 I. Kind I. Kind Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub sth, age Box t a 1	er of Ne in Zone ch, Temple Public Tel Letter Box	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Facility 300 1,800 - 150 180 240 180	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 - - 360	m, 8.35 sqm/h n, 14.49 sqm/h l (4-2) Number of Em (Person) @ 5 x 8 = @ 15 x 4 =
Sub Ar	e D-14 .e D-14 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub sth, age Box t a 1 or High Sc	er of Ne in Zone ch, Temple ss Public Tel Letter Box	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Facility 300 1,800 - 150 180 240 180	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 - - 360	m, 8.35 sqm/h m, 14.49 sqm/h I I4-2) Number of Employment @ 5 x 8 = @ 15 x 4 = -
Sub An	e D-14 .e D-14 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juni 2. Seni 3. Clin	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . age Box t a 1 or High Sc or High Sc ic Public	er of Ne in Zone ch, Temple ss Public Tel Letter Box hool hool Health Cent	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Facility 300 1,800 - 150 180 240 180	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} \text{m,} & 8.35 \text{ sqm/h} \\ \text{m,} & 14.49 \text{ sqm/h} \\ \text{I} \\ $
Sub An	e D-14 	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub stn, age Box t a 1 or High Sc or High Sc or High Sc or High Sc	er of Ne in Zone ch, Temple S Public Tel Letter Box hool hool Health Cent Ital	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 - - - - - - - - -	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Facility 300 1,800 - 150 180 240 180 240 2,400 2,400	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400 7,200 900 360 	m, 8.35 sqm/h m, 14.49 sqm/h I I4-2) Number of Employment @ 5 x 8 = @ 15 x 4 = -
Sub Ar	e D-14 	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub sth, age Box t a 1 or High Sc or High Sc or High Sc ic Public	er of Ne in Zone ch, Temple S Public Tel Letter Box hool hool Health Cent Ital	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Facility 300 1,800 - 150 180 2,400 2,400 300 1,800	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} \text{m,} & 8.35 \text{ sqm/H}\\ \text{m,} & 14.49 \text{ sqm/H}\\ \text{l}\\ \text{l}$
Sub An Medical Educion	e D-14 .e D-14 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Carb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shof rity Post, . Sub sth, age Box t a 1 or High Sc or High Sc or High Sc ic Public rnity Hosg ital (Type ratorium	er of Ne in Zone ch, Temple S Public Tel Letter Box hool hool Health Cent Ital	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 - - - - - - - - - - - - - - - - - -	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 - 150 - 150 - 180 - 240 - 180 - 2,400 - 2,400 - 300	67 sqm/perso 90 sqm/perso ility and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{sqm/f} \\ \text{m, } 14.49 \text{sqm/f} \\ 16.49 \text{sqm/f} \\ 15.8 \text{sqm/f} \\ 16.8 $
Sub An Medical Educion	e D-14 .ea : 114 - . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo 6. Kelu 7. Poli	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub sth, . age Box t a 1 or High Sc ic Public rnity Hosp ital (Type ratorium raban & Lu ce Post	er of Ne in Zone ch, Temple ss Public Tel Letter Box hool Health Cent ital C)/ rah Office	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 - 150 - 150 - 180 - 240 - 2,400 - 2,400 - 300 - 1,800 - 210 - 600 - 180	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{sqm/H} \\ \text{in, 14.49 sqm/H} \\ \text{i} \\ \text{i4-2)} \\ \hline \\ \text{Number of Emp} \\ \text{(Person)} \\$
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	e D-14 	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub stn, age Box t a 1 or High Sc or High Sc	er of Ne in Zone ch, Temple Public Tel Letter Box hool Health Cent ital C)/ rah Office e	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 1,800 2,400 2,400 2,400 300 1,800 2,400 2,400 300 1,800 2,400 300 1,800 2,400 300 1,800 2,400 300 1,800 2,400 300 1,800 2,400 300 1,800 300 1,800 300 1,800 2,400 300 1,800 300 1,800 2,400 300 1,800 2,400 300 1,800 2,400 300 1,800 2,400 300 1,800 2,400 2,400 2,400 300 1,800 2,400 2,400 300 1,800 2,400 2,400 2,400 300 1,800 2,400 2,400 300 1,800 2,400 2,400 2,400 2,400 300 1,800 2,400 300 1,800 2,400 2,400 2,400 300 1,800 300 1,800 2,400 2,400 300 1,800 2,400 2,400 300 1,800 2,400 2,400 1,800 2,400 1,800 2,400 1,800 2,400 1,800 2,400 1,800	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{ sqm/} \\ \text{m, } 14.49 \text{ sqm/} \\ 14.49 s$
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	e D-14 .e D-14 . I . I . I . Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo 6. Kelu 7. Poli 8. Sub 9. Fire	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub sth, . age Box t a 1 or High Sc ic Public rnity Hosp ital (Type ratorium raban & Lu ce Post	er of Ne in Zone in Zone ch, Temple Public Tel Letter Box hool Health Cent ital C)/ rah Office e ost	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 - 150 - 150 - 180 - 240 - 2,400 - 2,400 - 300 - 1,800 - 210 - 600 - 180	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{sqm/H} \\ \text{in, 14.49 sqm/H} \\ \text{i} $
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	e D-14 .e D-14 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo 6. Kelu 7. Poli 8. Sub 9. Fire 10. Shop 11. Comm	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, Sub stn, age Box t a 1 or High Sc or High Sc or High Sc ic Public rnity Hosp ital (Type ratorium rahan & Lu ce Post Post Offic Brigade P ping Centr ercial (Sm	er of Ne in Zone in Zone ch, Temple Public Tel Letter Box hool Health Cent ital C)/ rah Office e ost	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 - 150 - 180 - 240 - 180 - 2,400 - 2,400 - 2,400 - 2,400 - 2,400 - 180 - 190 - 180 - 190 - 190	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{sqm/f} \\ \text{m, } 14.49 \text{sqm/f} \\ 16.4 \text$
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	.e D-14 .ea : 114 - . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo 6. Kelu 7. Poli 8. Sub 9. Fire 10. Shop 11. Communi 12. Cine	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub stn, age Box t a 1 or High Sc or High Sc or High Sc or High Sc or High Sc or High Sc or High Sc fic Public Inity Hosp ital (Type ratorium rahan & Lu ce Post Post Offic Brigade P ping Centr ercial (Sm ma	er of Ne in Zone in Zone ch, Temple ss Public Tel Letter Box hool hool health Cent ital C)/ rah Office e ost e (Pasar)	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 2 	han Level 1 Level 2 hood Fac ear (Sub Squ/ Fac111ty 300 1,800 - 150 180 240 180 2,400 2,400 300 1,800 2,400 300 1,800 1,	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{ sqm/} \\ \text{m, } 14.49 \text{ sqm/} \\ 14.49 s$
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	e D-14 iea : 114 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo 6. Kelu 7. Poli 8. Sub 9. Fire 10. Shop 11. Commu 12. Cineel 13. Cult	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub stn, age Box t a 1 or High Sc or High Sc ratorium rahan & Lu Post Offic Brigade P ping Centr ercial (Sm ma ural Hall	er of Ne in Zone in Zone ch, Temple s Public Tel Letter Box hool hool Health Cent ital C)/ rah Office e ost e (Pasar) all shops)	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 - 150 - 180 - 240 - 180 - 2,400 - 2,400 - 2,400 - 2,400 - 2,400 - 180 - 190 - 180 - 190 - 190	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{sqm/f} \\ \text{m, } 14.49 \text{sqm/f} \\ 16.4 \text$
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	e D-14 .e D-14 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo 6. Kelu 7. Poli 8. Sub 9. Fire 10. Shop 11. Countu 12. Cineu 13. Cultu (W/ 14. Mult	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub stn, age Box t a 1 or High Sc or High Sc or High Sc or High Sc ic Public ratorium rahan 6 Lu ce Post Post Offic Brigade P ping Centr ercial (Sm ma ural Hall Library, A i Purpose	er of Ne in Zone in Zone ch, Temple s Public Tel Letter Box hool hool hool hool hool hool hool ho	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 1,800 - 150 180 240 180 240 2,400 2,400 2,400 2,400 2,400 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 300 300	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{ sqm}/\text{sqm}, \\ 14.49 \text{ sqm}/\text{sqm}/$
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	e D-14 .e D-14 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juní 2. Sení 3. Clín 4. Mate 5. Hosp Labo 6. Kelu 7. Polí 8. Sub 9. Fire 10. Shop 11. Comu- 12. Cíne 13. Cult (W/ 1) 14. Mult Youth	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, 	er of Ne in Zone in Zone ch, Temple s Public Tel Letter Box hool hool hool hool hool hool hool ho	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 - 150 - 150 - 180 - 240 - 2,400 - 2,400 - 2,400 - 2,400 - 2,400 - 300 - 1,800 - 180 - 300 - 300 - 300	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{ sqm/} \\ \text{m, } 14.49 \text{ sqm/} \\ 14.49 s$
Sub An Medical Educion	.e D-14 .ea : 114 - . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elecc Garb T o 1. Juni 2. Seni 3. Clin 4. Mate 5. Hosp Labo 6. Kelu 9. Fire 10. Shop 11. Comm 12. Cine 13. Cult (w/ 14. Mult 5. Spor	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, . Sub stn, age Box t a 1 or High Sc or High Sc	er of Ne in Zone ch, Temple s Public Tel Letter Box hool health Cent ital C)/ rah Office e ost e (Pasar) all shops) rt Hall etc Hall /	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac ear (Sub Sqm/ Fac11ity 300 1,800 - 150 180 240 180 240 2,400 2,400 2,400 2,400 2,400 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 300 300	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} 8.35 \text{ sqm}/\text{sqm}, \\ 14.49 \text{ sqm}/\text{sqm}/$
In Level RM Lovel Covit of Covit and Covel RM Lovel Office Medical Educien	e D-14 iea : 114 . I 1. Kind 2. Prim 3. Play 4. Mush 5. Phar 6. Secu Elec Garb T o 1. Juní 2. Sení 1. Sub 9. Fire 13. Cultu 12. Cineu 13. Cultu 14. Mult 15. Spor 16. Kelu	Numb Area 2 (1991) t e m er garten ary School ground olla, Chur macy, Shop rity Post, 	er of Ne in Zone ch, Temple s Public Tel Letter Box hool health Cent ital C)/ rah Office e ost e (Pasar) all shops) rt Hall etc Hall /	Kelural Whole ighbourl 3 by ye No. of Unit 8 4 6 2 	han Level 1 Level 2 hood Fac par (Sub sqm/ Fac11ity 300 - 150 180 - 2,400 2,400 2,400 - 2,400 - 300 - 2,100 - 2,000 - 2,00	67 sqm/perso 90 sqm/perso illity and Area: H Total Area (m2) 2,400 7,200 900 360 	$\begin{array}{c} \text{m,} 8.35 \text{ sqm/f} \\ \text{m,} 14.49 \text{ sqm/f} \\ \text{I} \\ \text{I4-2)} \\ \hline \\ \text{Number of Employments} \\ \text{e} 5 \times 8 = \\ \hline \\ \text{e} 15 \times 4 = \\ \hline \\ - \\ \hline \\ \hline$

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Table D-15 Number of Neighbourhood Facility and

0.1.1.	ea ; 114 - 3 (1992)			arout m	
SUD AT	ea : 114 - 3 (1992)				
L	Item	No. of Unit	Sqm/ Facility	Total Area (m2)	Number of Employee (Person)
	1. Kinder garten	7	300	2,100	@ 5 x 7 = 35
	2. Primary School	3	1,800	5,400	@ 15 x 3 = 45
-	3. Play ground	5	150	750	
eve.	4. Musholla, Church, Temple	1	180	180	
RM Levél.	S. Pharmacy, Shops		240		
× ۲	6. Security Post, Public Tel.		`		
	Elec. Sub stn. Letter Box,				
	Garbage Box	1	180	180	-
· · ·	Total			8,610	
J					
1 s l	1. Junior High School		2,400		@ 20 x - = -
1	2. Senior High School		2,400		0 25 x - = -
Educ.	3. Clinic Public Health Centre		300		@ 4 x - = -
Wedical,	4. Maternity Hospital		1,800	·	@ 20 x - = -
1 🗧 🛛	5. Hospital (Type C)/				
¥ [Laboratorium	1	210	210	$0.6 \times 1 = 6$
	6. Kelurahan & Lurah Office		600		@ 10 x - = -
DE Leve	7. Police Post	-	180		@ 2 x -= -
282	8. Sub Post Office	-	180		@ 3 x -= -
- 왕당 - U	9. Fire Brigade Post	-	180		0 5 x - = -
125	10. Shopping Centre (Pasar)		12,000	-	
. <u>988</u> .(11. Commercial (Small shops)	1	2,100	2,100	· _
1	12. Cinema		1,200	-	
	13. Cultural Hall				
	(w/ Library, Art Hall etc)		300	~	@ 3 x - = -
Culture,Real	14. Multi Purpose Hall /			· · · · ·	
글글[Youth Club	-	300		@5x-=-
3\$[[15. Sports Field	-	2,040	~	
1 1	16. Kelurahan Nosque		600	-	
	Total			2,310	

Area in Zone 3 by year (Sub Area: H4-3)

Note: Projected Population : 7.000 p (1.400 House Hold) Average Facility Area : R.W. Level 1.23 sqm/person, 6.15 sqm/H.H Kelurahan Level 0.33 sqm/person, 1.65 sqm/H.H Whole Level 1.56 sqm/person, 7.80 sqm/H.H

Table D-16 Number of Neighbourhood Facility and

	:ea : H4 - 4 (1993)	ο μη λε	ear (Sub	Area:	H4-4)
	I t e m	No. of	Sqm/	Total	Number of Employee
		Unit	Facility	Area (m2)	(Person)
	1. Kinder garten	12	300	3,600	@ 5 x 12 = 60
	2. Primary School	6	1,800	10,800	@ 15 x 6 = 90
	3. Play ground	9	150	1,350	.در
50.37	4. Musholla, Church, Temple	3.	180	540	
5	5. Pharmacy, Shops	1	240	240	
i	 Security Post, Public Tel. Elec. Sub stn, Letter Box, 	<u></u>			
	Garbage Box	3	180	540	
	Total			17,070	
7-77					
1	1. Junior High School	1	2,400	2,400	$e^{20 \times 1} = 20$
נייור,	2. Senior High School		2,400		@ 25 x - = -
1	3. Clinic Public Health Centre	÷	300		$e_{4x} - = -$
Medical	4. Naternity Nospital	1	1,800	1,800	@ 20 x. 1 = 20
2	5. Hospital (Type C)/				
ļ	Laboratorium	-	210		<u> 6 6 x - = -</u>
Gov t Office	6. Kelurahan & Lurah Office		600		(2 10 x - = -
0561	7. Police Post	~	180		<u>@ 2 x - = -</u>
	8. Sub Post Office		180		0 3 x - = -
Commerc'l	9. Fire Brigade Post		180		@ 5 x - = -
Comacre'l	10. Shopping Centre (Pasar)		12,000		
1005	11. Commercial (Small shops)		2,100	2,100	
5	12. Cinema 13. Cultural Hall	-	.1,200		·····
8			300		€ 3 x - = -
r.	(w/ Library, Art Hall etc) 14. Hulti Purpose Hall/		006		0 3 x - = -
Culture,Rect'tn Youch	Youth Club	1	300	300	@ 5 x 1 ≖ 5
5.2	15. Sports Field	1	2,040	2,040	
1 .	16. Kelurahan Mosque	····	600.	~,040	
	Total		000.	8,340	

Note : Projected Population : 11.000 p (2.200 House Hold) Average Facility Area : R.W. Level 1.55 sqm/person, 7.76 sqm/H.H Kelurahan Level 0.76 sqm/person, 3.79 sqm/H.H Whole Level 2.31 sqm/person, 11.55 sqm/H.H

	······				
	ltem	No. of	Sqm/	Total	Number of Employe
	1. Kinder garten	<u>Unit</u> 13	Facility 300	Area (m2) 3,900	(Person) @ 5 x 13 = 65
}	2. Primary School	6	1,800	10,800	$0.15 \times 6 = 90$
	3. Play ground	10	1,000	1,500	<u> </u>
	4. Nusholla, Church, Temple	3	180	5,400	
ε.	5. Pharmacy, Shops		240		
. ·]	6. Security Post, Public Tel.		240		
	Elec. Sub sth, Letter Box,				
[Garbage Box	3	180	540	_
	Total		100	27,000	
	10041		• • • • • • • • • • • • • • • • • • • •	27,000	
51	1. Junior High School		2,400		0 20 x 1 * -
	2. Senior High School	-	2,400		$e^{25x} - = -$
Medical, Educ' th	3. Clinic Public Health Centre	_	300		0 4 x
	4. Maternity Hospital		1,800		@ 20 x 1 =
	5. Hospital (Type C)/ .				
2	Laboratorium		210	-	@ 6 x ~ = -
if. ا	6. Kelurahan & Lurah Office		600		0 10 x
Gov't Office	7. Police Post	-	180		0 2 x -·= -
32	8. Sub Post Office		180		0 3 x - * -
- U	9. Fire Brigade Post		180		@ 5 x - = -
Culture, Rect' tn Comerc'l Youth.	10. Shopping Centre (Pasar)	1	12,000	12,000	
le fi	11. Commercial (Small shops)	1	2,100	2,100	
ام ^ي ديا	12. Cinema	1	1,200	1,200	-
15 11	13. Cultural Hall		************		
8	(w/ Library, Art Hall etc)	1	300	300	@3x1=3
	14. Multi Purpose Hall /				······································
[∄ ∰]	Youth Club	-	300	-	@5x -= -
]3 <i>3</i> []	15. Sports Field		2,040		
1 7	16. Kelurahan Mosque		600		
	Total			15,600	

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Table D-18 Number of Neighbourhood Facility and Area by

Modified Standard in Zone 2 (Sub Area: H1)

	NO. OF UNIT	SQM/	TOTAL AREA	REMARKS
ITENS	UNIT	FACILITY	(501)	
RW LEVEL	29	300	8,700	<u></u>
1.Kindergarten	14	1,800	25,200	ļ
2.Primary school	21	150	3,150	
3.Play ground	. 7	180	1,260	one space
4. Musholla, Church, Temple	1	240	240	<u> </u>
5. Pharmacy, Shops	1	180	1,260	
6.Security nost, Public tel., Elec., sub st'n, Letter box, Garbage box	<u></u>		39,810	
TOTAL				
KELURAHAN LEVEL				
1. Junior high school	. 2	2,400	2,400	Education
2.senior high school	1	2,400	2,400]
3.Clinic, Public health centre	1	300	300]
4.Maternity hospital	1	1,800	1,800	Medical centr
S,llospital	1	210	210	
6.Kelurahan office,Lurah office	1	600	600	<u>]</u> .
7.Plice post	1	180	180	Government
8.Sub post office	1	180	180	quater
9.Fire bregade post	1	180	180]
10.Shopping centre (Pasar)		12,000	12,000	Commercial
11.Commercial (Small shops)	-4	2,100	8,400	centre
12.Cinema		1,200	1,200	1
- Cultural hall(Library,	1	300	300	Cultural,
13. Arts hall,etc) 14.Multi purpose hall,Youth club	1	300	300	recreational-
14.Multi purpose Mall, Touch Club	1	2,040	2,040	Youth centre-
16.Kelurahan mosque	1	600 .	600	
TOTAL		<u>`</u>	33,090	
NOTE: Projected Population:	. 26,600	P (5,320 Hou		
Average Facility Area:		evel 1,50 sq		1 sqm/11.11.
	Kelurahan	Level 1.17 ^{sq}	m/person,5,8	3 sqm/11,11,
· ·	Whole	Level 2,675q	m/person,13.	34sqn/II.II.

Table D~19

Number of Neighbourhood Facility and Area by

Modified Standard in Zone 2 (Sub Area: H4)

Sub Area: H 4 (8RW)		. *	·	
I TEMS	NO. OF UNIT	SQM/ FACILITY	TOTAL AREA (SQN)	REMARKS
RW LEVEL				
1.Kindergarten	50,	300	15,000	
2.Primary school	24	1,800	45,000	Compineded i
3. Play ground	37	150	5,550	one space
4. Musholla, Church, Temple	12	180	2,160]
5. Pharmacy, Shops	1	240	240	
6.Security post, Public tel., Elec sub st'n, Letter box, Garbage box	12	180	2,160	<u> </u>
TOTAL	<u> </u>		70,110	
KELURAHAN LEVEL				
1. Junior high school	3	2,400	7,200	Education
2. senior high school	1	2,400	2,400	
3.Clinic, Public health centre	1	300	300	<u>]</u>
4.Maternity hospital	1	1,800	1,800	'Medical cent
S.Hospital	1	210	210	
6.Kelurahan office,Lurah office	1	600	600]
7.Plice post	1	180	180	Government
8.Sub post office	1	180	180	quater
9.Fire bregade post	1	180	180	J
10.5hopping centre (Pasar)	1	12,000	12,000	Commercial
11.Commercial (Small shops)	6	2,100	2,100	centre
12.Cinema	1	1,200	1,200]
13. Cultural hall(Library, Arts hall,etc)	1	300	300	Cultural,
14.Multi purpose hall, Youth club	1	300		Youth centre
15.Sports field	1	2,040	2,040	J
16.Kelurahan mosque	1	600 🦿	600	·
TOTAL			31,590	•
NOTE: Projected Population:	. 45,560	P (9,112 Hou	se Hold)	
Average Facility Area:	រុះម L	evel 1.51 sq	m/person,7.5	4 sqm/11.11.
	Kelurahan	Level 0.69sq	m/person, 3.4	7 som/H.11.
	Whole	Level 2.20sq	m/person,11.	01sqm/II.iI.

Table D-20

re

ITENS	NO, OF UNIT	SQM/ FACILITY	TOTAL AREA (SQ41)		REMARKS
RW LEVEL			<u> </u>		
1.Kindergarten	12	300	3,600	3	
2.Primary school	6	1,800	10,800	1	
3.Play ground				Ħ	-Compineded in one space
4. Nusholia, Church, Temple	<u> </u>	150 180	<u>1,350</u> 720	1	•
5. Pharmacy, Shops	<u>_</u>	240	240	F	
6 Security nest Public tel Elec		180	720	<u> </u>	
	x	100	17,430		
TOTAI.					
KELURAHAN LEVEL				<u> </u>	
1.Junior high school	1	2;400	2,400		
2.scnior high school	1	2,000	2,400	1	
3.Clinic, Public health centre	i	300	300		
4.Maternity hospital	1	1,800	1,800		Medical centr
5.Hospital	1	210	210	1	
6.Kelurahan office,Lurah office	1	600	600	٦	
7.Plice post	1	180	180		Government
8.Sub post office	· 1	180	180		quater
9.Fire bregade post	1	. 180	180	J	
10.Shopping centre (Pasar)	1	12,000	12,000]	Commercial
11.Commercial (Small shops)	1	2,100	2,100	J	centre
12.Cinema	1	1,200	1,200	١	
13.Cultural hall(Library, Arts hall,etc)	1	300	300		Cultural,
14.Multi purpose hall, Youth club	1	300	300	万	recreational
15.Sports field	1	2,040	2,040	Ţ	- Youth centre-
16.Kelurahan mosque	1	600	600		
ΤΟΤΛΙ		J	26,790		
NOTE: Projected Population:	· 10,900	P (2,180 ^{flou}	se Hold)		
Average Facility Area:	RH L	evel 1.59 ^{sqs}	/person ₁₇ ,9	5 51	qm/H,11.
	Kelurahan	Level 2,45sqm	/verson. 12.	2556	qa/H, H,

Number of Neighbourhood Facility and Area by Modified Standard in Zone 2 (Sub Area: H2)

Table D-21

Number of Neighbourhood Facility and Area by

Modified Standard in Zone 2 (Sub Area: H3/North)

Sub Area: H 3 (4RW)		· .		
ITEHS	NO. OF	SQM/ FACILITY	TOTAL AREA (SQII)	REMARKS
RW LEVEL				
1.Kindergarten	.6	300	1,800	
2.Primary school	3 1	1,800	5,400	-Compineded in
3. Play ground	4	150	600	one space
4. Musholla, Church, Temple	1	180	360	J
5. Pharmacy, Shops	1	240	240	
6.Security post, Public tel., Elec , sub st'n, Letter box, Garbage box	. 1	180	360	
TOTAL		۰	8,760	
KELURAHAN LEVEL	· · · · · · · · · · · · · · · · · · ·			
1. Junior high school	1	2,400	2,400	Education
2. senior high school	: 1-	2,400	-	
3.Clinic, Public health centre	1	300	300]
4. Maternity hospital		1,800		'Medical centre
5.llospital	1	210	210]
6.Kelurahan office,Lurah office		600	-	<u>ا</u>
7.Plice post	1	180	180	Government
8.Sub post office	1	180	180	quater
9.Fire bregade post	1	180	180	J
10.Shopping centre (Pasar)	1	12,000	12,000	Commercial
11.Commercial (Small shops)	1	2,100	2,100	centre
12.Cinema	-	1,200	-	<u> </u>
13. Cultural hall(Library, Arts hall,etc)	1	300	300	Cultural,
14.Multi purpose hall, Youth club		300	· -	Youth centre-
15,Sports field	1	2,040	2,040] }
16.Kelurahan mosque	-	600	-	
TOTAL	•		19,890	
NOTE: Projected Population:	- 5,014	P (1,003 Hou	se Hold)	
Average Facility Area:	1.75 RW Lo	ovel 1.75 sq	m/person, 8.7	4 sqm/11.11.
	Kelurahan L	evel 3,97 ⁵⁰	a/person, 19.	84 ^{sqm/II, II,}
	Whole L	evel 5,725q	ấ∕person,27.	58sqa/II.II.

Table D-22

Number of Neighbourhood Facility and Area by

Modified Standard in Zone 2 (Sub Area: H3/South)

				•
Sub Area: H 3 (3RW.) SOUTH		199 		· · · · · · · · · · · · · · · · · · ·
ITEMS	NO. OF UNIT	SQM/ FACILITY	TOTAL AREA (SQI)	REMARKS
RW LEVEL	<u></u>			
1.Kindergarten	6	300	1,800	
2.Primary school	3	1,800	5,400	Compineded in
3.Play ground	4	150	600	one space
4.Nusholla,Church,Temple	2	180	360]
5.Pharmacy, Shops	1	240	240	
6.Security post, Public tel., Eleq , sub st'n, Letter box, Garbage bo	x 2	180	180	
TOTAL			8,760	
KELURAHAN LEVEL				
1.Junior high school	1	2,400	2,400	Education
2. senior high school	1	2,400	2,400	
3.Clinic, Public health centre	1	300	300]
4.Maternity hospital	1	1,800	1,800	'Medical contre
5.Nospital		210	· <u>-</u>]
6.Kelurahan office,Lurah office	1	600	600	<u>}</u>
7.Plice post	1	180	180	Government
8.Sub post office	1	180	180	quater
9.Fire bregade post	1	180	180]
10.Shopping centre (Pasar)	-	12,000		Commercial
11.Commercial (Small shops)	- 1	2,100	2,100	centre
12.Cinema	1	1,200	1,200]
13, Cultural hall(Library, Arts hall, etc)	-	300	-	-Cultural, recreational-
14.Multi purpose hall,Youth club	1	300	300	Youth centre-
15,Sports field .	-	2,040	_]
16.Kelurahan mosque	1	600	600	·
ΤΟΤΛΙ			12,240	
NOTE: Projected Population:	5,336	P (1,067lou	se Hold)	
Average Facility Area:	RW L	evel 1.64 50	m/person, 8.2	21 sqm/11,11.
	Kelurahan i	Level 2.29 sq	s/person,11.4	17 50m/H. II.
	whole	Lovel 3.93 squ	a/person,19.6	58 sqa/11.11.
				÷

H4/1) Development Cost for Neighbourhood Facility (Sub Area: Table D-23

Sub Area : 84 / 1	(Year : 1990)	90.)									(unit :	(unit : Rp x 1,000)
			Buil	Building Developmen	evel c	P = C	a t		External Area Development	Area Dev	elopment	
ы Ч. Ф. В.	No.of	No.of	Floor Area / Facility	/ Feeiltry	Total	Uate	Construc-	FFY (20Z	Site area	Veic	Construc-	Total
	Fac1-	Storey	G. Floor	lst Floor	Fl.ares	Price	tion Cost	of (3))	ro be	Price	tion Cost	(3)+(7)+(2)
	11 t y		(1)	(2)	(1)+(1)	(M2.)	(3)	(4)	Devel'mnt	(N2)	(2)	
Flay Ground	e	1	1	r	•	1	•	•	300	15	13,500	13,500
Kindergarten	ŝ	ч	240	ı	240	178	213,600	42,720	99	20	6,000	262,320
Primary School	'n	7	700	500	1,200	224	806,400	161,280	1,100	20	66,000	I,033,680
Junior Kigh School	÷	7	1,000	700	1,700	224	360,600	76,160	1,400	20	23,000	484,560
Sentor High School	ч	8	1,000	005	1,900	224	425,600	85,120	1,400	20	28,000	538,720
Public Health Centre	1	7	100	100	200	224	44,800	8,960	200	20	4,000	57,760
Maternity Nonpital	1	7	600	400	1,000	224	1	ı	•	ı	ł	i
Hospital (Type C)	ı	7	TOO	007	200	224	ı	ı		.'	ı	ı
Kelurahan & Lurah Office	a L	N	300	200	500	224	000'211	22,400	300	20	6,000	140,400
Police Post	н	ч	100	1	100	178	17,800	3,560	80	ង	1,200	22,560
Sub Post Office	н	ы	100	ı	100	178	17,800	3,560	90	រា	1,200	22,560
Fire Brigade Post	-	н	100	ı	100	178	17,800	3,560	80	57	1,200	22,560
Cultural Hall	•	2	150	100	250	250	,	1	1	•	•	ł
Multipurpose Hall/Youth C	ו ט	2	150	100	250	250	ı	ı	·	1	ı	١
Kelurahan Mosque	1	-1	150	ı	150	178:	ı	r	1	·	1	1
Sports Fields	,	ч	50	1	50	178	ı	1	1	1	•	۲

Т

.599.020

155,100

407,320

,036,600

Dinas Remarks : For the building cost data dosued by Cipta Karya on 1987/88 is applifed (Tentang Pedoman Operanional Pelaksanaan DIP Pembangunan Bangunan Gedung Pemerintah dan Perumahan Tahun Anggoran 1987 - 1983). F.F.K. is Fixing, Furnishing and Yarns.

Development Cost for Neighbourhood Facility (Sub Area: H4/2) Table D-24

Sub Area : H4 / Z (Yea	(Year : 1991)	1							Turner a	Test Test	- TANKAR -	1001
			B u 1.	Building Development	0 T U U U	n n n n	2		TARGING VICE TOTAL	VICE PAR	- mamdana	
а 4 Н	No.of	No.of	Floor Area	Floor Area / Facility	Total	Unit	Construc-	FFY (202	Site area	Uate	Construct To ta I	Hotel
	Fact-	Storey	G. 71001	G. Floor lat Floor	Fl. area	Price	tion Cost	of (3))	to be	Price	tion Cost	(3)+(*)+(2)
	litev		Ð	. (2)	(2)+(1)	(242)	(3)	(4)	Devel'mut	(H2)	(2)	
Play Ground	0	,		•	1	1	•	•	300	ទា	27,000	27,000
Kinderzarten	ø	ч	240	1	240	178	341,760	68,352	60	20	9,600	419,712
Frimary School	4	6	700	500	1,200	224	1,075,200	215,040	1,100	20	88,000	1,378,240
Juntor High School	1	6	000*1.	. 700	1,700	224	ı	r	ı	t.	1	1
Sentor High School	ł	7	1,000	006	1,900	224	i	ı	ı	ł	1	1.
Fublic Health Centre	1	7	100	ICO	200	224	,	•	ı	t	•	1 ·
Materaity Kospital	i	7	600	400	1,000	224	ı	ı	1	I	t	•
Rospital (Type C)		2	100	100	200	224	•	ı	<u>,</u> 1	ļ,	1	•
Kelurahan & Lurah Office	ı	6	300	200	500	224	ı	н N	1	-1	,	1
Police Post	ı	м	100		100	178	,	ł	ı	1	ı	1
Sub Post Office	,	٦	100	1	100	718	1	·	1	1	1	1
Fire Brigade Post	•		100	ı	100	173	•	•	•	ı	ı	•
cultural Hall	J.	61	150	100	250	250	•	•	,		•	•
Multipurpose Hall/Youth C	ı	2	150	100	250	250	·	,	ı	-	1	1
Kelurahan Mosque	7	ч	150	1	150	178	26,700	5,340	450	29	000'6	41,040
Sports Fields	,	л	2	1	20	178	•	1	ı	ŀ	ı	•
							1 1 1 2 2 2 2	LCT BOC			137 600	1 865 907

Remarks : For the building cost date issued by Cipte Karys on 1987/88 is applied (Tentang Pedoman Operasional Relakaanaan Dip Pembangunan Bangunan Gedung Pemerintah dan Perumahan Dinas Tahun Anggaran 1987 - 1988). F.F.T. is Fixing, Purnishing and Yarns.

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H4/3) (Sub Area: Development Cost for Neighbourhood Facility Table D-25

(000

unfl

(Tear : 1992) Sub Area : 84 / 3

					,	,	,		T00122142	ALCO DCV	DEPRETATION PRODUCTS	
н е е в .	No.of	No.of No.of	No.of Floor Area / Facility Total Unit Const	/ Facility	Total	Սուե	Construc- FFY (20%	FFY (202	Site area Unit	Unit	Construct - I o t a l	Total
	Fac1-	Storey	G. Floor	Lst Floor	Fl.arca	Frice	tion Cost . of (3))	of (3))	to be	Price	tion Cost	(3)+(7)+(2)
	11 C Y		(T)	(2)	(1)+(2) (M2)	(K2)	(3)	(4)	Devel'mut (M2)	(M2)	(3)	
Play Ground	Ś	ı	ł	,	r	1	,	1	300	15	22,500	22,500
Kindergarten	7	7	240		240	178	299,040	59,808	, 60	20	8,400	367,248
Primery School	n	2	700	500	1,200	224	306,400	161,280	1,100	. 02	66,000	1,033,680
Junior Righ School	ı	2	1,000	200	1,700	224	ı	ł		,	ı	. ,
		,										

Senior High School	,	7	1,000	006	1,900	224	ı	` '		,	. 1	ı
Public Health Centre	ı	2	100	100	200	224	ı	1	ı	ı	r	t
Materulty Nospical	ı	2	600	400	1,000	224	1	t	,	ı	ı	,
Hospital (Type C)	ч	2	DOT	100	200	224	44,800	8,960	011	20	2,200	55,960
Xelurahan & Lurah Office	t	2	300	200	500	224	1	ı	ı	ł	I	. 1
Police Post	t	н	DOT	ı	100	173	ı	ı	1	ı	1	,
Sub Post Office	r	ч	100	ı	100	178	I	1	۰,		F	1
Fire Brigode Post	ı	٦	100		100	173		ı	t	r	I	1
Cultural Hall	ı	7	150	100	250	250	ŀ	1	•	ı	ı	
Multipurpose Hall/Youth C	ı	17	ISO	100	250	, 250	ł	1	•	•		ı
Kelurahan Mosque	ł	7	ISO	, i	150	178	1	ı	ı	,	ı	•
Sports Fields	·	г	50	ı	50	178	·	1	•	ı	•	ı
H D H							1,150,240	230,048			99,100	1,479,388
Remarks : For the building cose date issued by Cipta Karya on 1987/88 is splifed (Tentang Pedoman Operasions! Pelaksanaan Di? Fembangunan Bangunan Gedung Pemerintah dan Perumahan Dinas Tahun Anggaran 1987 - 1988). • P.F.Y. is Fixing, Purnishing and Yarno.	LE COSC ND Opera 1987 - L987 -	data 1994 19100al Pe 1988). 15882an	ad by Cipta K Laksanaan Dif darna.	stya on 198 Pembangunan	7/88 JS •	spp1 5ed Gedung 1	Pemerintah dan	Perunahan Di	5 U G S		·	· ·

Development Cost for Neighbourhood Facility (Sub Area: H4/4) Table D-26

•

			Buil	Building D	Development		1 L		External	Area Dev	External Area Development	pacat
н. г г е в	No.of	No.of	Floor Area	Floor Ares / Facility	Total	Unit	Construc-	FFY (202	Site area	Unit	Construc-	Тоса 1
	Fac1-	Storey	G. Floor	Lat Floor	Pl.area	Price	tion Cost	of (3))	to be	Price	tion Cost	(3)+(7)+(2)
	lity		(1)	(2)	(1)+(2)	(H2)	(3)	(4)	Devel'mnt	(H2)	(2)	
Play Cround	6	ı	1	t	•	ı	•	•	300	ភ	40*500	40,500
Kindergarten	12	٦	240	ł	240	178	512,640	102,528	60	20	14,400	629,568
Primary School	עי	7	200	500	1,200	224	1,612,800	322,560	1,100	50	132,000	2,067,360
Junior High School	ч	6	1,000	700	1,700	224	380,800	76,160	1,400	20	28,000	484,960
Senior High School	1	7	1,000	006	1,900	224	ı	ı	ł	ı	ı	1
Public Health Centre	1	14	100	100	200	224	• 1	IJ	1	ı	ı	ŀ
Materaity Hospital	-	2	600	400	1,000	224	224,000	44,800	1,200	20	24,000	292,800
Hospital (Type C)	٦	°N	100	100	200	224	I	•	ŀ	ı.	ı	I,
Kelurahan 5 Lurah Office	1	7	300	200	500	224	1	1	ı	1	ł	.1
Folice Fost -	i	ч	100	ı	100	178	t .	ı	I	r	ı	1
Sub Past Office	1	-	001	I	100	178	1	ı	ı	1	1	1
Fire Brigade Post	t	ŗ	100	ı	100	178	ı	T	ļ	t		t .
Cultural Hall	1	7	150	100	250	250	ı	ı	f	۱	1	ı
Multipurpose Hall/Youth C	ч	2	150	100	, 250	250	62,500	12,500	120	20	3,000	78,000
Kelurahan Mosque	I	-1	150	ı	150	178	ı	1	ı	,	1	ı
Sports Fields	h	ਜ	50		50	8/1	8,900	1,780	066'T (57	29,850	40,530
						1						

Remarks : For the building cost **datu issued by Cipta Karye on 1957/80 ig sppled** (Tenteng Pedoese Operasional Pelskamanan DI? Peabangunan Bangunan Cedung Pemerintah dan Perumahan Diaas Tahun Anggaran 1987 - 1988). F.F.Y. is Fixing, Furnishing and Yarno.

H4/5) (Sub Area: Development Cost for Neighbourhood Facility Table D-27

(Year : 1994) Sub Area : H4 / 5

Sub Area : N4 / 5 (Ye	(Year : 1994)	(76									(unit :	(unit : Re x 1.000)
			8 4 1	Building Development	e v e l c	7965	r t		External	Arca De	External Area Development	
H. A. H	No.of	No.of	Floor Area	Floor Ares / Facility	Total	Unit	Construc-	FFY (202	Site area	Unit	Construc-	Total
	Fact-	Storey	G. Floor	Lst Floor	Fl.area	Price	tion Cost of (3))	of (3))	to be	Price	tion Cost	(3)+(4)+(2)
	lity		(L)	(2)	(1)+(2)	(H2)	(3)	(4)	Devel ant	(243)	(2)	
Play Ground	5	1	1	1	T	1	I	ł	300	IS	45,000	45,000
Kindergarten	1	-1	240	4	240	178	555,360	111,072	99	20	15,600	682,032
Primary School	\$	2	200	200	1,200	224	1,612,800	322,560	1,100	20	132,000	2,067,360
Junior Righ School	ı	61	1,000	200	1,700	224		ı	ı	۱,		1
Senior High School	ı	17	1,000	006	1,900	224	ı		1	1	ı	•
Public Health Centre '	I.	7	100	100	200	224	1	ı	L	1	ł	1
Maternity Hospital	1	61	600	400	1,000	224	. I	1	·	1	ı	ŀ
Hospital (Type C)	ı	7	100	100	200	224	ı	ı	ı	1	ļ	1
Kelurahan & Lurah Office	•	7	300	200	500	224	ı	١	,	ł	•	1
Police Post	ł	ч	700	ł	OOT .	178	I	,	1	,	1	1
Sub Post Office	ı	ы	100.	1	001	178	ı	1	•	ł	,	1
Fire Brigade Post	ı	н	100	1	100	173	;	1	ı	ı	ı	ı
Cultural Hall	-	7	150	100	250	250	62,500	12,500	150	20	3,000	78,000
Multipurpose Mall/Youth C	ŀ	2	250	100	. 250	250	1	ı	•	ı		• 1
Kelurahan Nosque	•1	ы	150	ł	150	178	ı	ı	1	1	ı	1
Sports Fields	ı	-	8	I	ន	173	ł	Ί	ı	•	ŕ	ı
H, o t a l							2,230,660	446,132			009' 56T	2,872,392

Dinas daa Perunahaa Remarks : For the building cost data issued by Cipta Karya on 1987/88 is mpplied (Tentang Pedoman Operasional Pelakaanaa DIP Pembengunan Bangunan Gedung Pemerintah Tahun Anggaran 1987 - 1988). P.F.Y. is Fixing, Furnishing and Yarns.

APPENDIX E EXAMPLES OF HOUSING DEVELOPMENT PROJECT

- E.1 EXAMPLES IN INDONESIA
- 1. KEBON KACANG URBAN RENEWAL
- 2. PENJARINGAN URBAN RENEWAL
- 3. SENENG TRIANGLE URBAN RENEWAL
- 4. URBAN LAND CONSOLIDATION (ULC) PILOT PROJECT IN BANDUNG 5. DUPAK BANGUNSARI RENTAL HOUSING
- 6. PERUMNAS SUKARAMAI MEDAN
- E.2 EXAMPLES IN OTHER COUNTRIES
- 1. EXAMPLE OF RENEWAL SYSTEM IN SINGAPORE
- 2. EXAMPLE OF RENEWAL SYSTEM IN THAILAND

E-1E-7 E-13 E~16 E-19 E-21

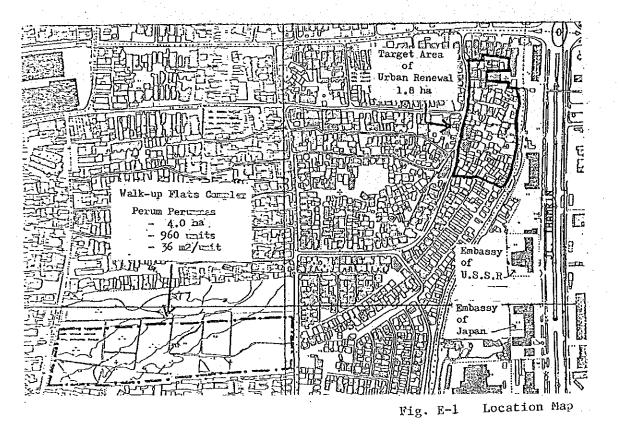
Page

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SIMILAR PROJECT REVIEW

1. KEBON KACANG URBAN RENEWAL

1.1. BACKGROUND OF PROJECT



Due to increasing migration from rural to urban area, urbanization has resulted in unbalanced population concentrations, which in turn induces illegal use of land for housing. Slum areas appear, depriving basic amenities necessary to lead an adequate life.

Aware of these problems, the government launched programs aimed to improve the urban housing system, such as KIP, to improve infrastructure and environment of existing kampungs-inferior pocket areas within the city.

Because the physical condition of several kampungs are of such characteristic that an improvement program would be inadequate o obtain desired results, the government formulated a comprehensive urban renewal program.

The Urban Renewal Program is aimed to provide the inhabitants of slum areas and kampung with a completely renewed and improved housing environment at their original place. Kebon Kacang Urban Renewal is the first comprehensive urban renewal project in Indonesia, initiated by the Directorate General of Cipta Karya and executed by Perum Perumnas.

1.2. RENEWAL PLAN

1.2.1. Existing condition Site location

Offe rocasion	•	00000000 0000
		Jl. M.H.Tha
		Area)
Area	:	18,208 m2
Number of habitants	•	736 HH cons
		- 357 lar
		- 30 hou
		– 77 mon
		– 44 yea
		- 228 fre
Ocupation	:	50% indepen

:

:

50% independent, small scale enterprise 25% labours (daily/weekly/non permanent) 15% private employees 5% government employees (incl. ABRI, retired)

5% others/

Central Jakarta District, along

amrin (Central Bussiness

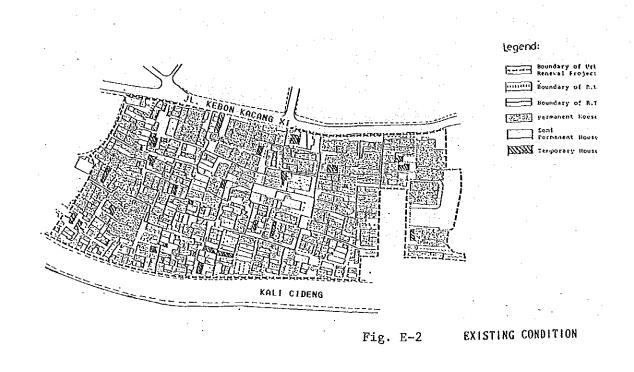
sisting of nd & house owners use owners nthly lessee arly lessee ee co-ocupants

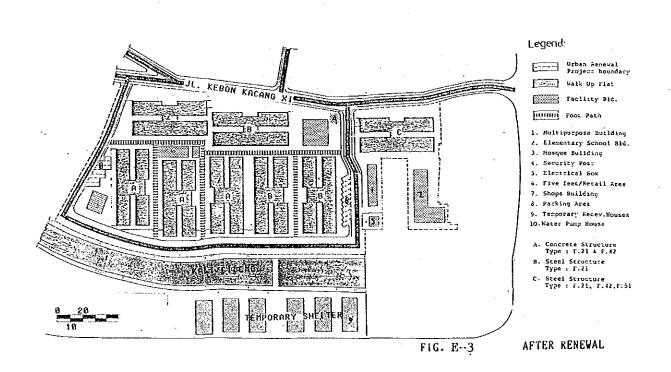
E - 1

	Existing houses	6 +	36% permanent structure	1.2.3.	Technical Data			
			21% semi permanen		Land Use Plan	:	Housi	ng Area
			50% moderate structure				Public	c Facility
			1% temporary structure	. *			Green	Area
	· · ·				. *		Parki	ng, pedestri
			Average floor space : 20 m2				open s	space
			Average nubmer of occupants : 6 persons					
					Number of units	:	600 re	esidential u
	Existing Public						4423 ·	F-21 368
	Facilities	:	2 mosque					F-42 160
		-	1 office					F-51 72
			2 restaurants				64 cor	umercial uni
			3 small shops				-	T-21 (Smal
								K-9 (Kios
1.2.2.	Participation of	inhabitan	ts in Urban Renewal Plan					
			to resettle in the new dwellings at the		Number of blocks	:	8 twir	n block flat
			HH, which have received temporary		Facilities provided	•	-	Electricit
	housing at						Velo	Water supp
	-		amrin and Kebon Melati					meter in e
	26	HH at Pe	rumnas walk up flats					Gas line ()
	2	HH at ot	her places				. •K.	Kios and w
							-	1 Septic Ta
	2) Inhabitant	s who ar	e resettled in other Perumnas site :					(capacity 2
	200 HH as							Mosque
	18	HH in Bek	asi				-	Multipurpo
	- 98	HH in Tan	gerang					space for l
	81	HH in Dep	ok				-	Parking are
	3	HH in Tan	ah Abang walk up flats					motorcycles
							←	Public ligh
	3) Inhabitant	s who hav	e choosen to live elsewhere : 374 HH					Power stat:
							-	Elementary
								Pemda DKI 🤇
							-	Garbage Dis
							-	Footpath fi
								aarraatina

. •

54,9 % 13,5 % 10,9 % lan, 20,7 % nits conisting of : units units units ts : 1 space) 32 units k) 32 units s (see fig. 1.2.2-A) y 450 watt/unit (PLN) ly with individual ach unit (PAM) PN Gas) arung on each floor ank for each block 20,5 m3) se hall 300 m2 with kiosk ea for 51 cars and 50 s hting ion (30m2 by PLN) school (provided by Jakarta) sposal - 2 large types -10 small types rom conblock connecting each block





INSTITUTIONAL ASPECTS 1.3.

1.3.1. Decres/Regulations Issued

There are 4 main decres/regulations issued to support the Urban renewal Project :

- 1) Ministry of Public Works Decree No.69/JPTS/1981 on Establishment of Coordination Committee and technical team for Flats Development by Perum Perumnas (20 March 1981)
- 2) Board of Director Decree No. DIRUT/0861/KPTS/21/81 on establishment of Urban Renewal Project in DKI Jakarta-Kebon Kacang (16 September 1981)
- 3) Ministry of Public Works Instruction NO.01/IN/M/1982 on Urban Renewal in Kebon Kacang and Redevelopment of Ex Burned area in Palembang (5 January 1982)
- 4) Board of Directors Decree No.DIRUT/0200/KPTS/10/82 on Establishment of Urban Renewal Team in Perum Perumnas

The organization and work plan of this project is stipulated in Board of Director Decree No.DIRUT/0861/KPTS/21/81 (see fig.1.3.1.A)

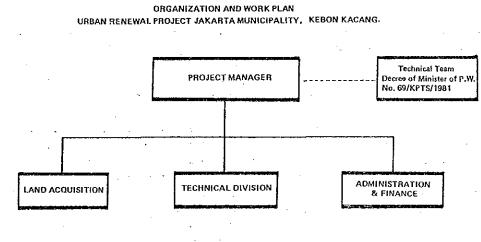


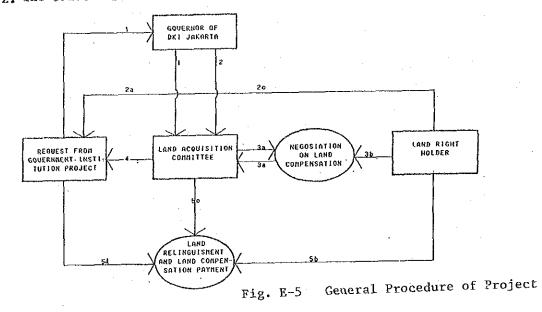
Fig. E-4

Enclosure of Perum Perumnas Decree Dirut/0861/KPTS/21/81 16 09 1981

Organization Chart of Project

Е-З

1.3.2. The General Procedure is shown in the following chart :



Procedure :

- Application letter for Land Acquisition permit from the Government 1) (invoved in the project development) to the Governor
- Decision of the Government on the land control, status and 2) ecqusition of area to be carried out by concerned governmen institutions
- Notify above-mentioned Governors' Decision to the 2a Government concerned
- Notify above-mentioned Governors' Decision tot he land 2Ъ acquisition committee (Panity 9)
- Notify above-mentioned Governors' Decision to the land 2c owner concerned
- Data/certificate for discussion to calculate land price 3a
- Data/certificate for on evidence of land ownership rights 3Ъ
- Discussion/Negotiation between land acquisition committee (3)and land owner to determine land price
- Letter of agrement on the compensation rate based on the 3c discussion

Information on the agreed compensation price to the Government/applicant concerned with following attachment :

Name list for compensation

Certificate

4

5

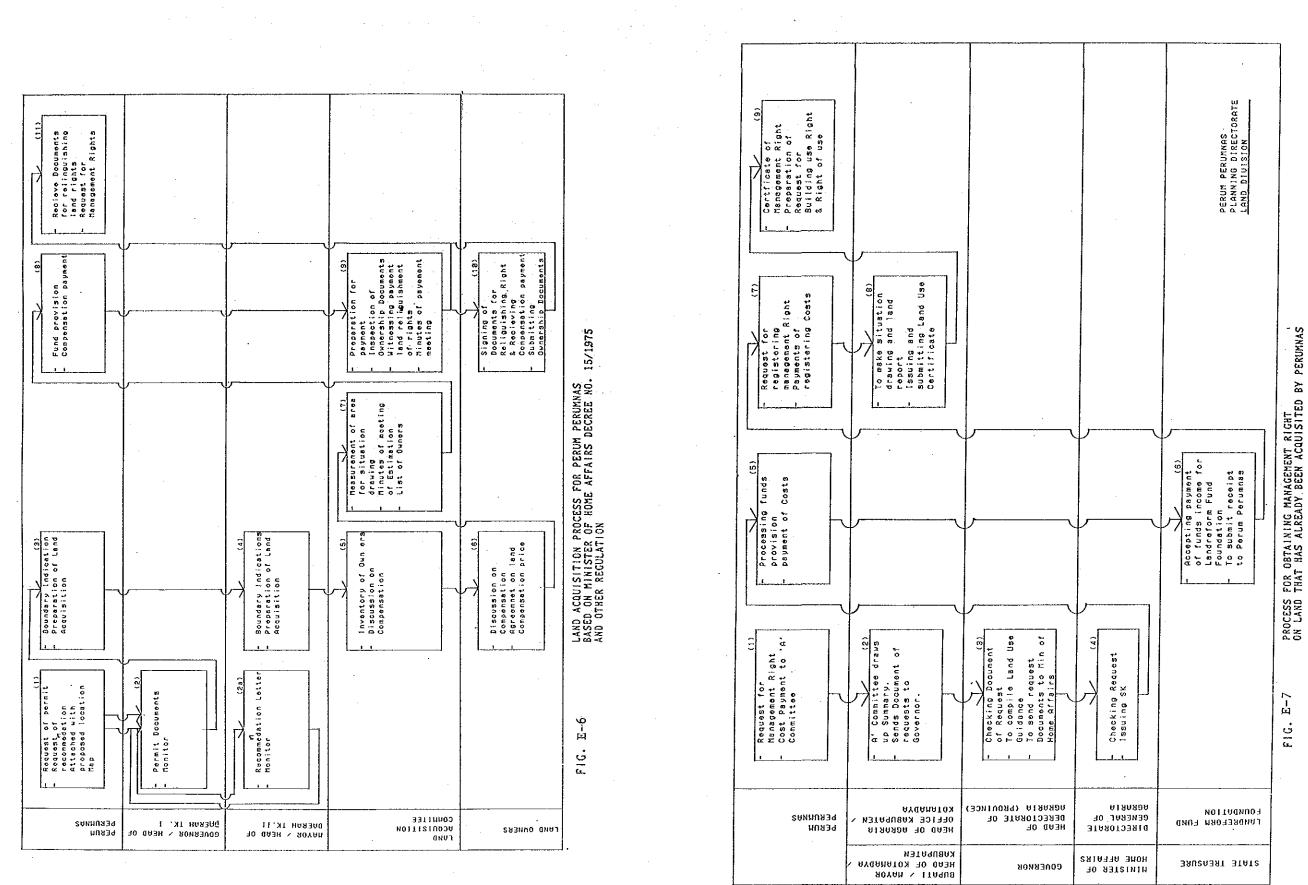
5a undertaken by Government/Applicant by own cost, with name list for the compensation and certificate of housing land ownership.

Submission of evidence for land ownership from the land 5b owner for compensation

Transaction, payment of compensation from applicant, based on the releasement of land ownership.

Statement of Performance (Berita Acara pelaksanaan) on 5c payment for compensation made by the committee. (After completion of payment for the above entioned compensation, the committee as a witness and both of applicant and land owner will sign it)

Payment of compensation directly to the land owner being



E - 5

The main activities implementation in this project can be seen in the fig. below.

A slight delay in the land acquisition process occured during negosiation of compensation.

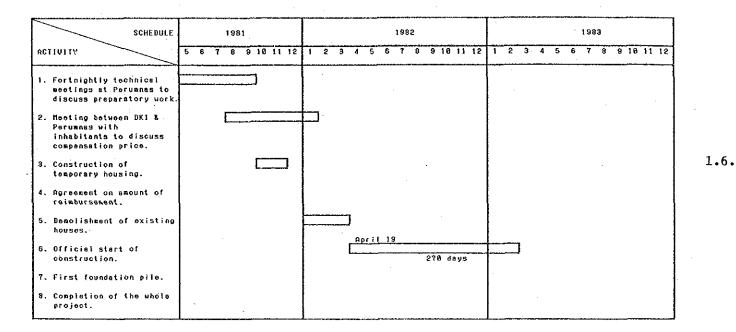


Fig. E-8 Implementation Schedule

1.5. FINANCE

The	total cost for this p	project was Rp 4,
The	large portions of thi	s cost were main
	Land acquisition	Rp 1,490,096,
-	Construction	Rp 1,926,332,

Funds for land acquisition came from the Perum Perumnas budget. Funds for construction in the first year came from the Perum Perumnas and the World Bank.

Later on the World Bank decided to withdraw from the project, because financing flats was not in accordance with their policy.

6. MANAGEMENT

Management of the flats in Kebon Kacang are sill the responsibility of Perum Perumnas Because expences are higher than predicted, due to the low quality construction of building and installation systems that causes high maintenance costs, Perum Perumnas is still giving subsidy to the management unit.

The low quality construction and installations is very much critisized by the tenants.

Better designs and construction with adequate facilities and affordable prices are expected in the future development

,317,658,349.92 nly used for ,173.82 (<u>+</u> Rp 82,000/m2) ,909.-

Е-6

2. PENJARINGAN URBAN RENEWAL

2.1. BACKGROUND OF PROJECT

In June 1984, a fire occured in Kampung Baru, Kelurahan Penjaringan, Kecamatan Penjaringan in Northen Jakarta. The burned area consisted of state land (tanah garapan), <u>+</u> 10,52 ha. About 11,293 people (2059 households) were left homeless. A total of 1725 housing units were burned down.

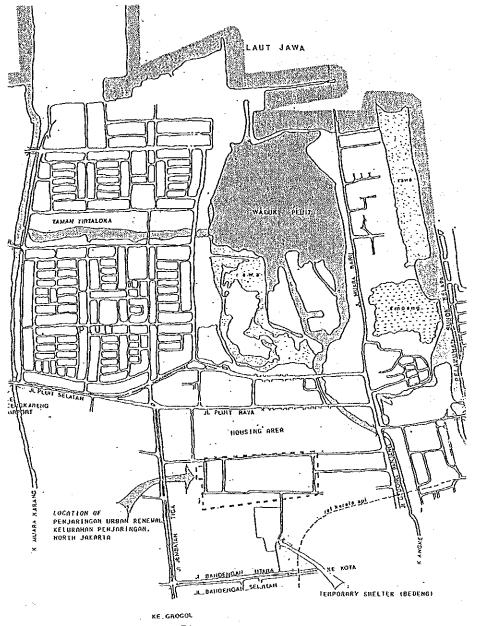


FIG. E-9 LOCATION OF PENJARINGAN URBAN RENEWAL To avoid future squatter development, the government took actions to control the utilization and redevelopment of the area. The area was decided as a resettlement area for the people left homeless in the fire, and utilization and construction of area was prohibited before any plans were made by the government.

After discussions between the Governor of DKI Jakarta and Minister of Public Housing, the area was decided to be utilized for urban renewal (flats), with the land use as follows : - 60% of area to be used for flats and public facilities - 40% for tollroad, green belt and high voltage line Institutions within the local Government received tasks to carry out this program (see Gov. of DKI Jakarta Decree No.609/1985)

Meanwhile, the Ministry of Public Housing acting as coordinator, proposed the area for the Pilot Project of Rental Housing Development in Jakarta to Bappenas, which later on instructed the Ministry of Public Works c/q Directorate General of Human Settlements to conduct the project.

E – 7

2.2.1.	Existing Condition		
	Area burned down	:	10,16 ha
	Families left homeless	:	2059 _. нн
•	Population	:	11.293 people
	Number of houses burned	:	1725 units
	Average house area	:	15 m2/unit

Composition of income level :

a state that the second se	and the second
Income (Rp)/month	%
40,000 - 50,000	43.7
60,000 - 99,000	31,1
100,000 - 149,000	14,1
150,000	11,1

Number of people with regular income : 741 people Number of people with non fix income : 1069 people

2.2.2. Technical Data

1)

Land I	Jse Plan			
	Housing	:	4.24 ha (41.7 %)	
	Public facilities	:	1. 7 ha (16.7 %)	
***	High tension line	:	2.07 ha (20.4 %)	
- .	Toll road for			
	Cengkareng-Tg. Priok	:	2.15 ha (23.2 %)	
			10.16 ha (100 %)	

2) Development target

2400 rental units priority for ex-community of burned area and aimed for :

- Low income group, with no regular income and not a. included in Perum Perumnas program
- Middle income groups, with regular income or high b. mobility which do not need ownership housing yet.

Development Phase Phase I : Constructed by P.T. PPL Pluit - Area : 0.7 ha - Units : 384 type 18 - 3 blocks of 4 storey housing Phase II : Constructed by Ditjen Cipta Karya c/q Pilot Project for Rental Housing Development Area : 1.6 ha No. of Units : 318 units, consisting of : Type 18 shop : 16 units Type 18 : 140 units Type 36 : 146 units Type 54 : 16 units Buildings/infrastructure constructed 2 blocks using convensional system 2 blocks using wika II system 1 management Office 1 multi purpose hall (295 m2) roads, drainage, parking area and green space Phase III: 1300 units - 4 storey and 8 storey flats with ownership system, to be developed by Perum Perumnas and PD. Sarana Jaya (in the process Perum Perumnas withdrew from this project) Phase I and Phase II have been completed in 1987 Facilities provided by other institutions : PAM DKI Jaya : - 1 unit ground reservoir

- PLN Jakarta
- : Electricity supply with outdoor installation and street

installation

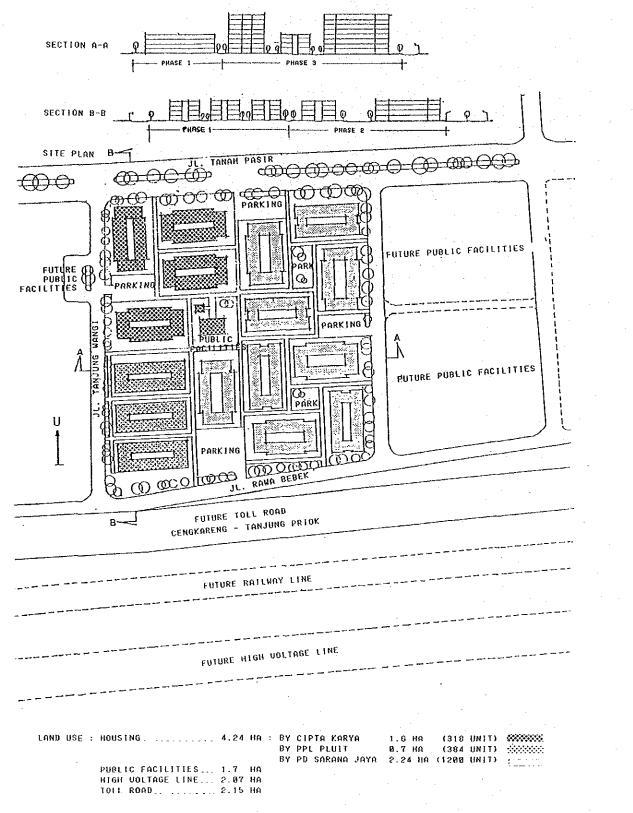
lighting

1.

2.

with underground water

- 1 fire hydrant





INSTITUTIONAL ASPECTS

2.3.

Basic Organization 2.3.1.

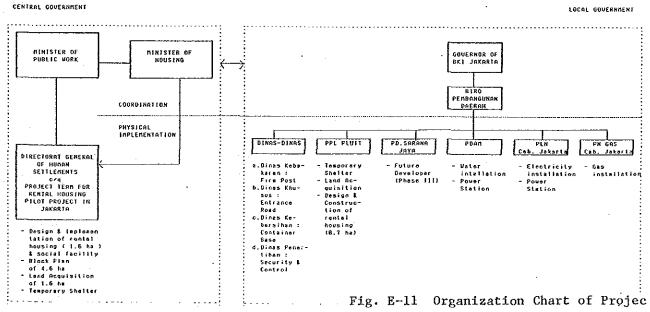
> The basic relationship between agencies/government institutions involved within the Penjaringan Urban Renewal is devided into 2. the central government and the local government.

The central government side is coordinated by the Minister of Public Housing and implementated by the Directorate General of Human Settlement, Ministry of Public Works through the Rental Housing Pilot Project in Jakarta.

The local government side is coordinated by Biro Pembangunan Daerah, Implementation is conducted by :

- 1) Agencies within the Jakarta Municiple, such as Dinas Kebakaran, Dinas Khusus, Dinas Kebersihan
- 2) Regional government enterprises, such as PPL Pluit, PD. Sarana Jaya, PD Air Minum
- 3) State enterprises such as PLN, PN. Gas

Each institution involved in housing development is in charge of its own land acquisition Clarification on task of each agency/institution involved in Penjaringan Urban Renewal is described in the Fig.



E - 9

The land acquisition procedure in Penjaringan is based on Ministry of Home Affairs Regulation No.15/1975. Each government agency involved in the development is responsible for the land release.

For phase I and II, Cipta Karya and PP1 Pluit were in charge of the housing development. The general procedure for land acquisition is as follows :

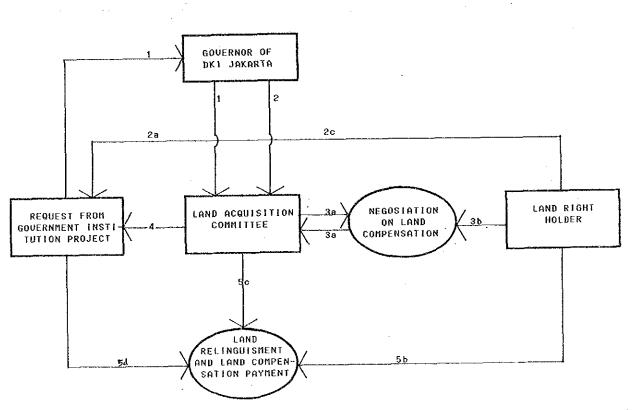


Fig. E-12 General Procedure of Land Acquisition

NOTES	Based on Min . of Home Affairs Decree No. 2/1985. : 1. Aress & 5 Ha	by Project Manager (Without Committee 9). 2. Areas > 5 Ha must be Cread through Cread through	Ţ.		
FINAL RESULTS	 Governar Decrea On Area Control Authority. Land controlled by Government. Security of Brea and inhabitants. 	 Governor Issues Decree for Land Decree No. Decree No. 609/1985. Housing, Public facility high tool ine. tool ine. 	 Request from Government i Institutions Private Sector Rea! Estate for Using Land Committee Formed. 	- Governor Decree on Land Price. No. 113/136. - Acceptance of Governments Decision. - Areal Freeing.	- SPH Documents. - Certificate.
PROCESS	- Roport to Governar	1. Mayor and Local Governor Aparatur Hold Meeting to compile Status of Land Use. 2. Mayor proposes to Governor The Land Use Status.	- Proposal offer to Government Batitutions Private Sectors, Real Estate to Build on That Area.	 Proposal to Governor. Governor. Negotiation with Community Price Agreement Price Agreement Payment of Land Compensation : 	- Signing of Signing of Documents. 1. Request for Land 2. Adainistration 2. Adainistration
GOALS	1. Measurements 2. Area 3. Boundary 4. Number of RT/RW	1. Acurate Data Gathering. 2. Land 2 Building Rights 3. Population/Household	 Request from Government Sovernment Instrutions Private & public who will use the lend. lend. formed based on Min. of Home Rifairs Decree. No. 15/1375. 	 Land price per m² Building price Explanation to Explanation to Inhabitants about Development Plans, Submittion of Land Submittion of Land & Building Rights. 	 SPH - Surat Pelepasan Mak Letter to Relinguish Rights. Land Certificate.
OFFICIAL INVOLVED	1. Mayor 2. Agraria 3. Kemtib 4. Bag. Pembangunan 5. Public Relation 6. Camat. Lurah	1. Mayor 2. Agrerie 3. Kamtib 4. Public Relation 5. Public Relation 6. Camat. Lureh 7. Teta Kota	 Local Government and Central Institutions. Rayor R		- Committee 9 1. Nayor 2. Agraria
ACTIVITY	Area Measuring	Land and Building Inventory	Land Use Marketing Committee S	Land & Building Taxation Counseling Land and Building Compensation	Administrative Settloments Certificate

E - 10

Procedure of compensation payment can be described as follows :

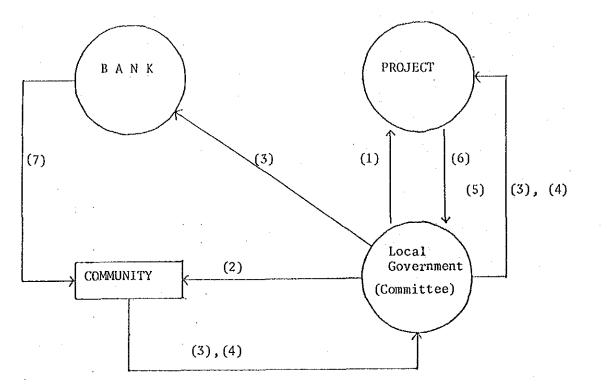


Fig. E-14 Procedure of Compensation Payment

- Committee proposes plan for compensation and submits list 1. of names of participants for compensation, that will be paid to Bank and project.
- Committee assisted by project staff and Bank carries out 2, payment of compensation to inhabitants (20% cash and 80% in the form of deposite).
- The signed receipt (by inhabitants and Project Manager) is 3. submitted to the committee. The genuine receipt is filed by the project and the other copy is filed by the Bank.
- Letter of relinguished rights is submitted to the committee 4. andlater on forwarded to the project as evidence for relingushed right of land.

- 5. After payment of compensation is completed, the committee submits name list and amount of compensation signed by inhabitants, and legalized by the committee to project as evidence besides the receipt.
- Project submits administration cost for execution of 6. compensation to the committee.
- The Bank distributes deposit books to inhabitans 7.

Based on Governor of DKI decree No.113/1986, compensation payments are paid in 2 ways :

- Though deposits according to Governor of DKI Decree 1. No.833/1985 in which inhabitants may receive 20% of the compensation in cash.
- 2. Cash for inhabitants who do not wish to stay in Penjaringan flats.

FINANCE 2.4.

> Financing of this project is mainly from the local government budget and central government, depending on which institute is involved,

For the implementation of 4 blocks of flats & infrastructure including land acquisition by Ministry of Public (Works the total budget was Rp 4,759,829,013.- starting from DIPP 1984/1985 untikl DIPP 1987/88.

consisting of :

- Project administration Rp
 - Land acquisition
- Construction/Physical Dev. Rp 3,759,829,013.-

151,491,836.-Rp 952,863,317.-Rp 4,759,829,013.-

MANAGEMENT 2.5.

> The management of the units were authorised to the local Government c/q PD. Sarana Jaya

The rental tarif was based upon :

- affordability ---
- relieve for inhabitants in temporary shelter
- government subisdy
- cross subsidy between housing types (T-18 subsidized by T-36 & T-54)
- Building deprisiation
- exlution of land price
- to meet management costs
- daily and monthly rental tarif

A socio-economic survey was done to determine rental tarif of T-18, this tarif also includes utility costs such as electricity water and gas, besides management cost. Ex-inhabitants of burned area recei ed subsidy so the rental tarif

was lower See

TYPE	RENTAL TAR PER DAY (AV EX BEDENG OCCUPANTS Rp.		
T18 PPL PLUIT	1,100	1,500	 Subsidy is given to ex bedeng
TI8 CIPTA KARYA	1,500	2,500	occupants. • Tarif includes electricity, gas
T36	2,500	4,000	and water bills.
T54	5,000	6,000	
SHOP	3,000	3,000	

Occupancy rate in PPL Pluit flats are 100%. In the Cipta Karya flats, occupancy rate in T18 is 100%, but in T36 and T54 occupancy rate is very low (below 20%). According to the management unit, the low occupancy rate in T36 and T54 is due to the high rental price that is not affordable for the inhabitants, which are mainly from low income groups.

Table E-1 Rental Tarif

3.1 SENEN TRIANGLE URBAN RENEWAL

1) BACKGROUND OF THE PROJECT

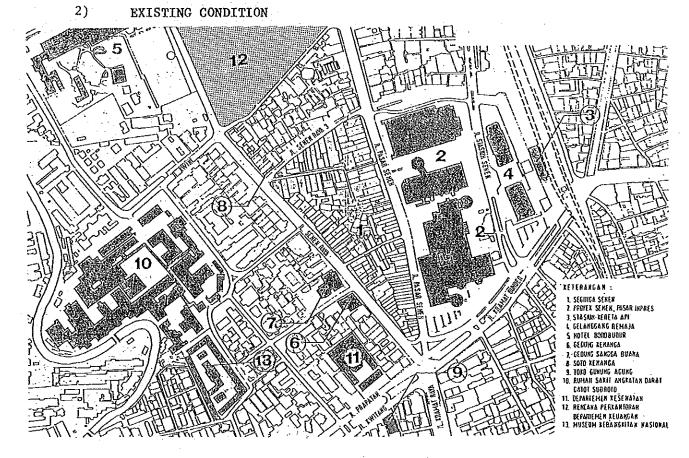
The Senen Market was renewed as Project Senen $(\pm 8.9 \text{ ha})$ in the early 70's. As it was decided in the Jakarta Master plan 2005, the Senen area will be developed into one of the 8 primary centres for trade and commerce in Jakarta.

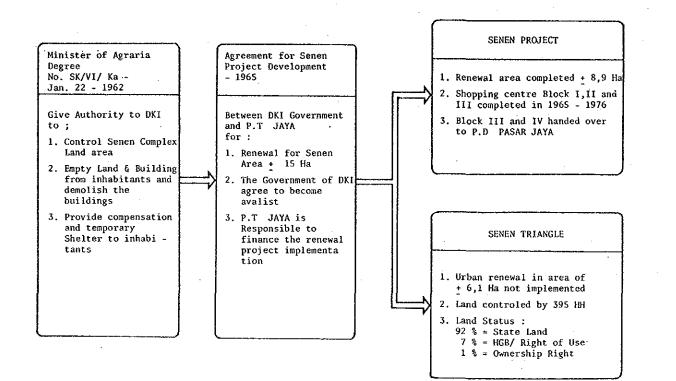
The existing condition of Senen Triangle $(\pm 60.594 \text{ sqm})$ is far from expected - consisting of old buildings with in adequate environment conditions.

For this reason, the Senen Triangle should be renewed according to its function.

P.D. Pembangunan Sarana Jaya received authority to conduct this development.

BACK GROUND OF PROJECT





Total A	rea	:	<u>+</u> 60.5	594 squ	n
Boundar	ies	:	Jalan	Senen	F
			Jalan	Pasar	2
			Jalan	Senen	F
Populat:	ion	•	+ 1669)р(+	4
Existing	g Build	ling fu	nction	:	
:	resider	its		*	
1	bussine	288		:	
t	resider	ts+bus:	siness	:	

Inventory on land and building status and clarification of whom will receive compensation has already been made.

Most inhabitants are occupying state land (92%), 7% have building use right and 1% has ownership rights.

Fig. E-15 Location Map

Raya III Senen Raya 413 Households)

42.61 % 8.47 % 73.12 %

E - 13

(1) Land Use Plan

> The Senen Triangle is + 60.594 sqm. About 10.005 sqm will be used for road expansion of Jalan Pasar Senen. The remaining land will be used for :

Shop houses Land Area

23.194 sqm (45,7%) : 51.411 sqm consisting of 155 units in : 10 blocks (4 storey)

Shopping Centre

Building

Land Area	•	16.638 sqm (32,9%)
Building	•	43.549 sqm, consisting of 2 blocks
		provided with shops, department
		stores, restaurants and children

recreation

Middle Class Office Centre

Land Area : Building :

18.234 sqm consisting of 4 & 8 storey building

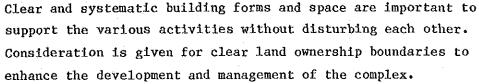
Hotel (3 star - business class)

Land Area 4.923 sqm (9,8%) :

Building 19.500 sqm, consisting of 10 storey : building with 280 rooms

5.834 sqm (11,6%)

Open space and parking area (1711 cars) are provided among the buildings and in basement (this level is not included in number of storeys mentioned above) space for the informal sector is also provided.



Priority is given to pedestrian circulation. Eventhough cars can reach the top floor, pedestrians are free to move and enter the buildings safely from the ground floor. Each corner and open space will have its own characterisctics.

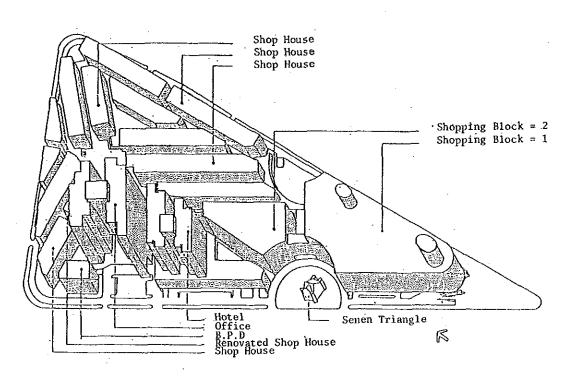


fig. E-16 Renewal Plan

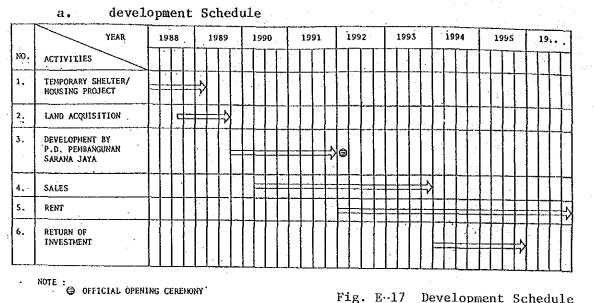


Fig. E-17 Development Schedule

Preparations for the temporary housing project in Sunter have began since early 1988. Negotiations for land acquisition have started in August 1988. The construction itself is scheduled to start in October 1989 and will end in January 1990.

Ъ. Land Acquisition

Inventory on the inhabitants and land/building status has been completed. This is important to determine the clasification for land compensation.

The formal land price for compensation has already been decided. Although some inhabitants may think if it too low compared with the market price.

Negotiations with inhabitants are still being carried out.

Temporary shelter/housing is provided in 2 locations :

1. Sunter Agung Podomoro + 104.060 sqm This land was purchased by the DKI Government from P.T AGUNG PODOMORO.

Previous residents of Senen Triangle are to be of the Senen Triangle area. But as an alternative, they may buy the developed land lots (Kavling tanah matang) at 60% market price. The location will be ready in February 1989.

Senen Triangle Area + 10.000 sqm reserved land for future road expansion. Before road construction, this area may be used for temporary commerce activities until the shops are completed.

The schedule for land acquisition is as follows :

No	Year Activity		19	88			19	89			19	90			19	91		-	19	92	
1	Compensation Confirmation		 	L P			11	A	чg	us		19	88			F	Γ				
2	Guidance for Inhabitants		ľ	T.	₽		(e	nđ	0	- 1	No No	ve	որ	er	- - ;	+ 98	- 18	<u>+</u> ,	en	đ	ł
3	Administrative Preparatic Compensation payments	n			\$	-	C M	id	- 1	e I	of	N	0 V	em	be be	- 	- 19 	88	-	e	
4	Compensation		T		ľ	>	(m	łd	d 1	i Î	10	Ð	e c	e m	- be	¦ r	19	88			
5	Consignation	T	ĺ			¢	(л	14	41	i c l	of	F	e b	r 1	- 	- 7.	19	189		Ъ	
6	Demotition implementation	1					\$			-	(be	gii	 nni	ng	1 Aj	- pri	†- 11	198	39	- •	1

2.

c. Institutional & Financial Aspects.

> Based on the Governor of DKI Jakarta Decree no. 1171/1988 dated June 25, 1988, P.D. Pembangunan Sarana Jaya was appointed as manager and executing agency for the development of Senen Triangle Urban Renewal. The Senen Triangle Unit was formed under the P.D. Pembangunan Sarana Jaya to carry out this task, working together with the local government.

Finance for land acquisition will be provided by the Ministry of Finance with very low interest rate. A consorsium of banks will finance the buildings managed by P.D. Pembangunan Sarana Jaya.

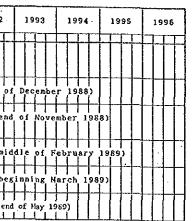


Fig. E-18 Land Acquisition Schedule

Investors and developers will finance the buildings developed by a third party. The total budget for this project is estimated Rp 120,000,000.-

Previous land rights will be compensated accordingly. P.D. Pembangunan Sarana Jaya obtained the management rights (hak pengelolaan). The developed land lots in Sunter will be sold with "hak guna bangunan.

The land titles in Senen Triangle are still being studied , but if it obvious that no ownership rights will be issued. Shop houses may be sold with "hak guna bangunan", if the hotel and office are handed over to a third party (developer/investor) if may be with "hak guna usaha" or "hak guna tanah". But it is still not decided yet.

Relationships between agencies involved in the Senen Triangle Urban Renewal can be seen in this diagram:

	INSTITUTION		EXECUTING BODY		FINANC	ε	THIRD -	PARTY			
	ACTIVITY	LOCAL GOVERNMENT OF OKI		SENEN TRIANGLE UNIT	MINISTRY OF FINANCE	BANK CONSORTIUM	INVESTOR	DEVELOPER	CONTRACTOR	CONSULTANT	NOTES
1	Signing of Loan	Approval	Debitur		Creditor						
11	Responsibility of Loan	Acknowledgeent	Bearer of Responsibility		Legaliza- tion				-		·
Ш , ,	LAND ASPECTS Land Acquisition Law Enforcement Consignation	Executor Executor	Finance Finance Executor	Treasurer Treasurer Treasurer					· ·		State Court
IV ,	DEVELOPMENT Planning Auction/Tender Development / Construction Joint Venture		Responsibility Bearer of Responsibility Bearer of Responsibility	Executor Executor Executor Executor		Finance	Investment		Executor Executor	Planner/ Designer Planner Public Notary	
۷	Developed Land Sales	Permit	Bearer of Responsibility			Finance Investment		<u></u>		PPAT	
٧I	Marketing									Market ing	

Table E-2 Institutional Relation

URBAN LAND CONSOLIDATION (ULC) PILOT PROJECT IN BANDUNG

1) BACKGROUND OF STUDY

4.

Nowadays, the land provision in Indonesia is carried out by land acquisition. The main problems of this method is the limited budget for land compensation and the high land price thus, it is difficult to reach an agreement between the land owners and the government. Besides that, it also consumes a lot of time for the procedure.

ULC research are based on those social and econmic problems. The main objective is to find an applicable model for ULC on the basis of Indonesian situations and conditions. The target of research are as follows : preparing law and regulations, preparing the executing institution and organzation, finding standard operation procedures, methodology, criteria of site selection and feasilibity study.

The tentative definition of ULC was formulated as follows :

"ULC is an integrated activity to rearrange areas from the irregular situations to regular situation and provide infrastructures and other facilities to achieve the optimum land use by the selfhelp of land owners"

The effect of the project was to increase land value in the project site.

This hypothetical model had been tested in a small pilot project in Bandung Municipality, Kiara Condong district, Babakan Surabaya Village, within an area of 7,7 ha.

2) EXISTING CONDITION

Previous land use

Location Area

Babakan Surabaya Village Kecamatan Kiara Condong, Bandung 7,7 ha Padi field owned by 5 land owners Squatters about 8 households who pay IPEDA

The situation of the site was lack of infrastructure network and facilities with irregular parcels of land. The physical boundary of the area is as follows :

> East : river West : river North : J1. Perumnas Antapani South : Kampung

.:

:

;

Land value : Rp 17,500 - Rp 50,000/sqm

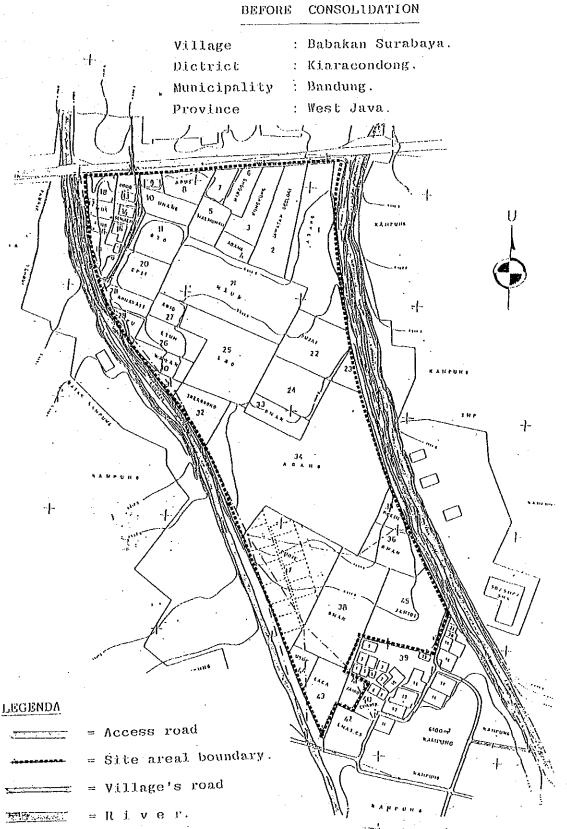
3) THE RENEWAL PLAN

(1) Land Use

The detail use after consolidation are as follows :

1)	Infrastructure, drainage and sewerage	14.385 sqm (18.7%)
2)	Land for public facilities	1.617 sqm (2.1%)
3)	Cost Equivalent land	4.704 sqm (6.1%)
4)	Redistributed land	56.302 sqm (73.1%)
		77.008 sqm (100%)

The land owners contributed + 26.9% of their land to be used for infrastructure, facilities and development cost. After land consolidation, the land value increased up to Rp 50,000/sqm - Rp 75,000/sqm.



= Parcels.

Fig. E-19 Existing Condition Map

Project Implementation and Finance

After negotiations with the land owners, the local government purchased "cost equivalent land" about 4704 sqm or Rp 150.000.000.- This amount was to be allocated for infrastructure development Rp 120,000,000.- and Rp 30,000,000 was allocated for compensation.

The illegal occupants of the area were to move out of the site. The registered residents whom have paid IPEDA regularly, will be given compensation of small land parcels (see fig. 5.3.1) The land owners will receive organized land parcels according to the amount of land they owned (minus the 26.9% contribution)

After the project completion, the land value increased. This was a benefit for the residents besides the government. The "cost equivalent land" can be sold by the government at a higher price, and the amount can be allocated for other projects. The residents are provided with an adequate and organized environment. The land owners also received certificate of the parcels.

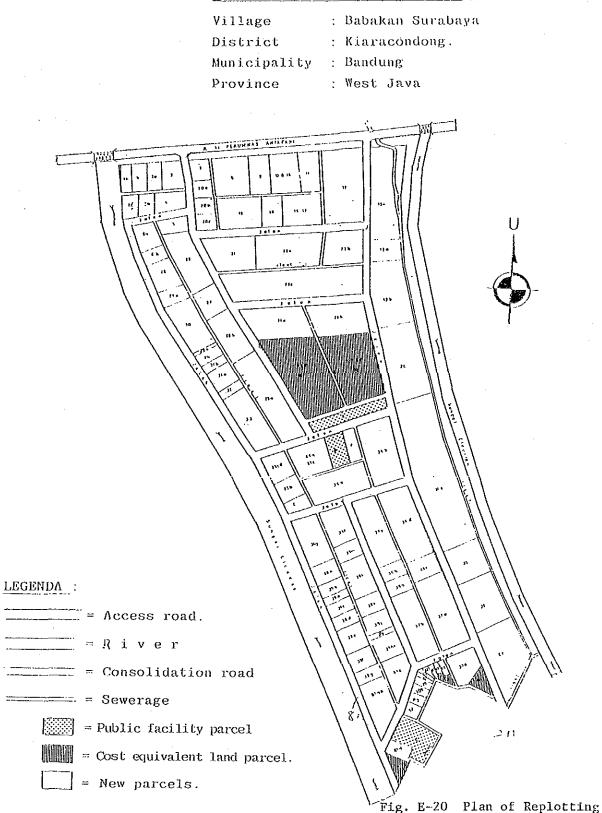
Institutional Aspects 5)

The Centre for land Research and Development (under the Ministry of Home Affairs) since the fiscal year 1985/1986 cooperated with the local Government of Bandung Municipality with the division of task and responsibilities as follows :

- 1. Agraria Agency conduct the land administration
- 2. City Planning Agency conduct the site planning
- The Regional Planning and Development Agency (BAPPEDA) 3. conduct the coordination
- 4. The Public Works Agency conduct the design of roads, drainage and sewerage
- The centre of land Research and Development conduct the 5. research and guides the implementation

AFTER CONSOLIDATION

Village	:	Baba
District	:	Kiar
Municipality	:	Band
Province	:	West



4)

E - 18

DUPAK BANGUNSARI RENTAL HOUSING FLATS

BACKGROUND OF PROJECT

(1)

As stated in the national policy of Repelita IV in the Sector on Housing and settlements : "There will be a pioneering effort to provide low income groups

and young/skilled labourers which are beyond the reach of PERUMNAS with rental housing or other housing facilities as many as 25,000 units"

As a realization of this program, the government gave priority to sponsor rental housing projects in several of Indonesia's major cities, including Surabaya which received the rental housing pilot project for 50 units in the fiscal year 1988/89.

Through various considerations the local government of Surabaya proposed the area of Dupak Bangunsari.

Besides the inadequate environment and high density, this area was proposed because the inhabitants used a form of rental housing system. From the 49 families living in the area, 19 were house owners and the remaining 30 were tenants.

This situations would be an advantage to adopt the rental housing system, besides a chance to renew the area.

(2) Existing Condition

Site area	:	1870 m2, consiting of low storey
		housing with inadequate environment
Density	:	1000 p/ha
No.of households		49 HH consisting of
		19 house owners and 30 tenants
Average house area	per hous	sehold : 15 - 20 sqm
Facilities		: Kiosk/warung
Surrounding area	:	Low storey housing

2) THE RENEWAL PLAN

(1)

.

Land Use

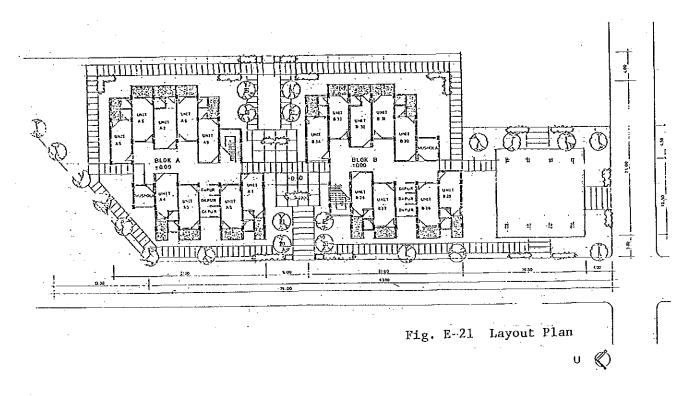
The site will consist of :

- 2 housing blocks with
 - 50 units, stairs, corrie
 - musholla, kitchen
 - public bath
 - playing space in bit
 - 1 Multipurpose hall
- Kiosk & garage
- Parking area

The housing blocks are 3 storeys, but can be extended up till 4 storey by the tenant. An access road will be constructed.

Unit Type : F-18 : F-21

Resettlement rate 100%



5.

1)

dor	1551 sqm	
	117 sqm	
	76 sqm	
uilding	136 sqm	
	136 sqm	
	48 sqm	

(provided with bathroom and kitchen, for house owners, on ground floor)

E - 19

The land was provided by the local government, so there are no acquisition costs. Compensation was given in the form of temporary housing rent (+ 6 months, during demolition & construction period) in surrounding area.

(3) Development Plan

Informal meetings with the residents were held by ITS students, in accordance with their task to make an inventory of the land, building and inhabitants.

Afterwards, a formal meeting was held by the Project team with the Lurah. Followed by negotiations for compensation. (about 4-5 times).

Physical planning & design was prepared by staff of ITS, headed by Prof. Johan Silas. The social condition of the residents was taken into deep consideration.

The demolition of existing buildings began in October 1988 and was followed by construction. The project will be ready by April 1989, and the previous residents will move in. For the time being no units will be sold. The government will use a 2 stage system in rent - receiving rent from the 19 house owners who will collect the rent from their tenants.

INSTITUTIONAL AND FINANCIAL ASPECTS

3)

The executing body for this project is the Rental Housing Pilot Project of Jawa Timur (Proyek Perintisan Pembangunan Rumah Sewa Jatim) under the project P4R (Proyek Penyuluhan dan Perintisan Perbaikan Perumahan Rakyat), Ministry of Public Works.

This body has very close coordinations with the local Government and the ITS (Institut Teknologi 10 November - Surabaya) Planning and design was done by the ITS staff. As a result, this project could be implemented integratedly with the KIP.

Budget for this program was obtained from 2 sources : - From the Central Government (through DIP, P4R) for design & Construction of the 50 units (58%) Rp 248.046.000,-

- From the Local Government (through APBD II KMS) 42% for
 - Land compensation & demolition of buildings
 - Installations, Multipurpose Hall and Kiosk
 - Access Road

.... Rp 176.972.000,-

Detail of this budget can be seen in Table 4.3.1

The official rent of this housing project is based on the local government's regulation, which is considered too low. The rent is as follows :

- '	Rp 2,500/month	1 ι
-	Rp 5,000/month	2 -
_	Rp 15,000/month	6.

The owner must pay according to this regulation, but he may ask the tenants to pay a higher rent, according to market price (+ Rp 10,000 - Rp 15,000/month)

BD II KMS) - 42% for of buildings 11 and Kiosk

76.972.000,-Table 4.3.1

units - 5 units - 11 units

PERUMNAS SUKARAMAI MEDAN 6.

1) BACKGROUND OF THE PROJECT.

The area for this project was an ex-fire area. After fire occure, government decided to implementate an urban renewal on this area in accordance to make better a environment. The government assigned Perum Perumnas to conduct this project.

2) EXISTING CONDITION (BEFORE FIRE)

Location	:	Kelurahan Sukaramai II, Kecamatan Medan Kota, Medan
Site Area	:	Total 11.5 ha
Population	:	- 724 House Holds (+ 3258 people)
Previous land use	:	densely low storey housing area with
		inadequate environment
Surrounding area	:	- Low storey housing, inadequate environment
		- Multi storey shop-housing

3) THE RENEWAL PLAN

(1) Land Use

The total area of 11.5 ha will be developed in stages. First stage area is 3.4 ha, consist of :

- Parking area ---
- Plaza + telephone booth _
- Playground
- Mosque
- Multipurpose hall -
- 16 housing blocks (4 storey) : ----

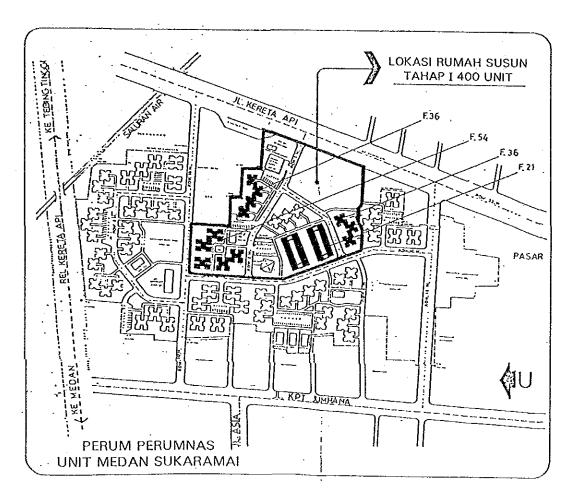
+ 4 blocks (of type	F-21	;	208 units	:	4.368 m2
+ 7 blocks d	of type	F-36	:	112 units	:	4.032 m2
+ 5 blocks o	of type	F-54	:	80 units	•••	<u>4.320 m2</u>
				400 units	:	12.720 m2

Shop house (6763 m2 within 3.4 ha_ 2 storey, 40 units.

The shop houses will be prepared by private consultant, consisting of maximum 40 units of 2 storey shop houses.

Resettlement rate	:	20% of 400 units o
	÷	lived here before
Occupancy rate	:	95% (381 units/400

_



ts occupied by family

s/400 units)

Fig. E-22 Layout Plan

(2) Land Aqcuisition

Land Aqcuisition cost is : Rp 530.375.177,91

Compensation cost :

Rp 7.500/m2 (status of land is : state land with right of exploitation/use)

- Compensation cost for building :
 - + Permanent Rp 51.600/m2 : + Semi Permanent Rp 30.000/m2 : + Temporary Rp 10.000/m2
- Compensation for demolition : Rp 250.000/house.
- (3) Development Plan
 - This area was an ex-fire area. After fire occured, the local government formed committee A to acquisite the land. Inventory of previous building, land and tenants was done. Formal meetings with residents were held by local government in accordance to explain their plan and negotiating for compensation.
 - Central government, through Kanwil PU (Regional Office of Dept. of Public Works) coordinated concerned agencies and gave the certificate of land (Right of managing).
 - Development Period :
 - * 1st stage construction started in 1985 with the area of 3.4 ha.
 - * Completion of the 1st stage was in 1987 including infrastructure & neighbourhood facility.
 - During the construction, the inhabitants lived in the temporary housing built by local government.

- Difficulties occured when Perumnas wanted to start the 2nd stage construction. Some of the previous in habitants refused to move from their house after they repaired it, because they don't agree with compensation price. Local government are still negotiating with them, therefore the 2nd stage is not yet decided.
- 4) Institutional and Financial Aspects.
 - Perum Perumnas is the executing body of this project. As the executing body, Perumnas prepared the physical planning design and construction as well as financing the project and site clearance. (There is no subsidy for the project).
 - Project cost is Rp 3,289,123,277.98, 100% Perumnas fund consist of :
 - * Land acquisition cost;
 - ħ Compensation cost : Rp 7,500/m2
 - * Building construction cost : Rp 1,765,548,511.86
 - * Infrastructure cost : RP 433,634,228.19
 - Selling price (Table 6.4 ha) has been reduced about 10% from previous price as Perum could not sell the flats at the beginning selling price of a unit (-m2):
 - Type F-21 : 4th floor Ι - 3rd floor - 1st & 2nd floor II Type F-36: - 4th foor - 3rd floor - 1st & 2nd floor Type F-54 : - 4th floor III - 3rd floor
 - 1 st & 2nd floor

2,640,000.-Rp Rp 2,950,000.-3,420,000.-Rp 4,952,000.-Rp 5,502,200.-Rp Rp 6,371,000.-Rp 8,812,000.-Rp 9,852,000.-Rp 11,404,000.-

Downpayment and Monthly installment can be seen on table 6.4.b - 6.4.c

								.'
				DP	Install-	1	Time	Shortage
			_	(Rp)	ment			of DP (Rp)
I	Type F-21,	4th	f1	264,000	20,000	1.0	months	64,000
		3rd	f 1	295,000	22,500	10	months	70,000
		lst/2nd	£1	342,000	25,000	10	months	92,000
					· · · ·			
II	Type F-36,	4th	f1	752,000	46,900	10	months	283,000
		3rd	f 1	1,002,200	50,250	10	months	499,700
		1st/2nd	f1	1,371,000	55,800	10	months	813,000
III	Type F-54,	4th	f1	1,882,000	92,350	18	months	219,700
		3rd	f1	2,652,900	95,900	18	months	925,800
		lst/2nd	fl	3,704,000	102,500	18	months	1,859,000

Monthly installment : (KPR-BTN 20 years)

	•			-	
I	Type F-21	4th floor	:	Rp	22.000,-
		3rd floor	:	Rp	24.340,-
		lst/2nd fl	:	Rp	28,150,-
II	Туре F-36	4th floor	:	Rp	46.900,-
		3rd floor	:	Rp	50.250,-
		lst/2nd fl	:	Rp	55,800,-
TTT	Type R-54	4th floor	•	Rn	92.350

III	Туре F-54	4th floor :	Rp 92.350,-
		3rd floor :	Rp 95.900,-
		1st/2nd f1:	Rp 102.500,-

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