APPENDIX C INFRASTRUCTURE BACK-UP DATA

UTILITY DEMAND ESTIMATION

Fig. Fig.

Table

Table

Table

Table

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 |
| | |

Page

| 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 |

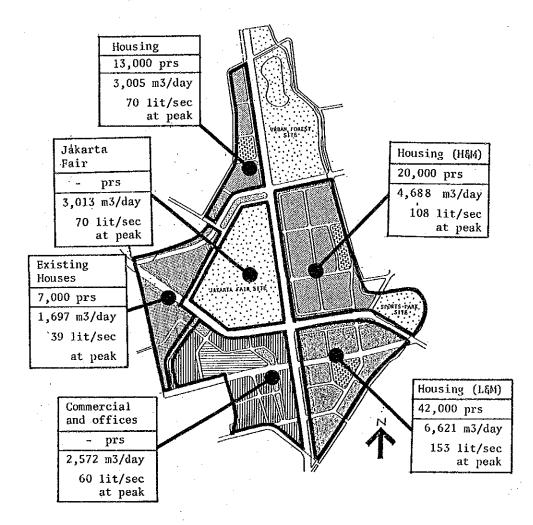


Fig. C-2



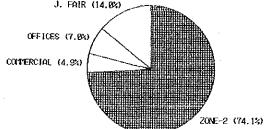
Water Demand of Study Area

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 |

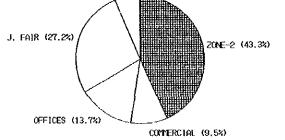


| · · · · | POPULATION DENSITY (PERSON/HA) | UNIT CONSUMPTION (L/PERSON) | DOMESTIC DEMAND (M3/HA/DAY) | NON-DOMESTIC DEMAND (30%) | UNIT DEMAND (M3/HA/DAY) |
|--------------------------|--------------------------------------|-----------------------------------|-----------------------------------|---------------------------------|-------------------------------|
| - 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 |



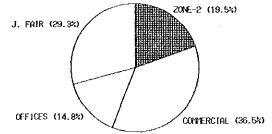
POP DEN (PE HOUSING/LOW-MID INCOME
 HOUSING/MID INCOME (D)
 HOUSING/MID INCOME (C)
 HOUSING/HIGH INCOME
 EXISTING HOUSING

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 |

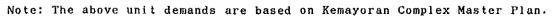
Table C-4 KTA-53/JICA DEMAND ESTIMATION OF ELECTRICITY

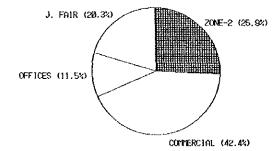


C - 4

| 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

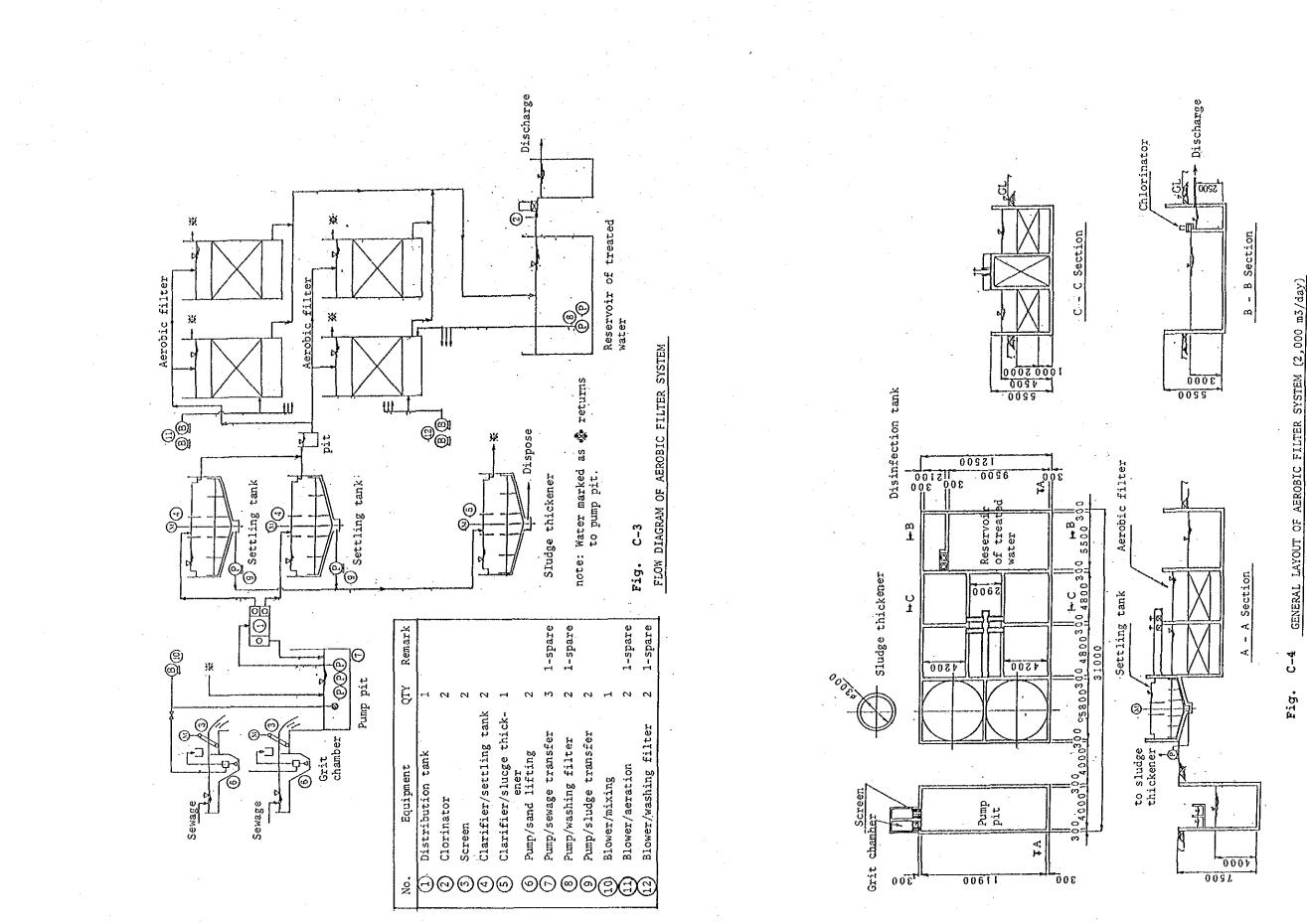
| Grit chamber | * Water surface | 1,800 m3/m2.day (hourly max.) |
|-------------------------------|------------------------------------|---|
| | * Velocity | less than 0.3 m/sec (hourly max.) |
| Pump pit | * Effective volume | More than a volume enable to store water washing one aerobic filter tank |
| 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

| | | | Table D-12 |
|--|--|--------------|------------------------|
| PLANNING STANDAR | iD | <u>Page</u> | Table D-13 |
| | | | 14016 D-13 |
| Table D-1 | Neighbourhood Facility Standard for Flat Type | | Table D-14 |
| | Housing Estate by Perumahan, Cipta Karya | D-1 | |
| Table D-2 | Planning Standard for the Neighbourhood | | Table D-15 |
| | Facility by Cipta Karya | D-2 | |
| | | | Table D-16 |
| 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 |
| Table D-4 | Allocation of Existing Neighbourhood Facility | D-4 | |
| | | | Table D-19 |
| RELATED AGENCY | | | Table D-20 |
| | | | |
| Table D-5 | Related Agency and/or Execution-Operation | | Table D-21 |
| | Body for the Neighbourhood Facility | D-5 | |
| Table D-6 | Related Agency and/or Execution-Operation | | Table D-22 |
| | Body for the Neighbourhood Facility | D-6 | |
| | | | |
| | | | |
| DETAIL CALCULATI | ON FOR ALLOCATION OF FACILITY | | DEVELOPMENT COST |
| | | | |
| Table D-7 | Number of Neighbourhood Facility and | <u>р</u> , а | Table D-23 |
| Tabla D D | Area in Zone 3 by year (Sub Area: H1-1) Number of Neighbourhood Facility and | D-7 | |
| Table D-8 | Area in Zone 3 by year (Sub Area: H1-2) | D-7 | Table D-24 |
| Table D-9 | Number of Neighbourhood Facility and | | |
| | Area in Zone 3 by year (Sub Area: H1-3) | D-7 | Table D-25 |
| Table D-10 | Number of Neighbourhood Facility and | | |
| Table D-10 | Area in Zone 3 by year (Sub Area: H3-1, 2) | D-7 | Table D-26 |
| ······································ | | | 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? |

Number of Neighbourhood Fac. Area in Zone 3 by year (Sub Number of Neighbourhood Fac. Area in Zone 3 by year (Sub Number of Neighbourhood Fac. Area in Zone 3 by year (Sub Number of Neighbourhood Fac: Area in Zone 3 by year (Sub Number of Neighbourhood Fac. Area in Zone 3 by year (Sub Number of Neighbourhood Fac Area in Zone 3 by year (Sub Number of Neighbourhood Fac Modified Standard in Zone 2 Number of Neighbourhood Fac. Modified Standard in Zone 2 Number of Neighbourhood Fac Modified Standard in Zone 2 Number of Neighbourhood Fac: Modified Standard in Zone 2 Number of Neighbourhood Fac. Modified Standard in Zone 2

D-12

| ility and | • |
|----------------------|------|
| Area: H2-2) | D-8 |
| ility and | |
| Area: H4-1) | D-8 |
| ility and | |
| Area: H4-2) | D-8 |
| ility and | |
| Area: H4-3) | D-9 |
| ility and | |
| Area: H4-4) | D-9 |
| ility and | |
| Area: H4-5) | D-9 |
| ility and Area by | |
| (Sub Area: H1) | D-10 |
| ility and Area by | |
| (Sub Area: H4) | D~10 |
| ility and Area by | |
| (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 |
| 1. | | | ł | : : | • | ļ | ł . | | | 1 | 4. . 1 1 1 | | Other Services | E5000 1 |
| ۷. | : SPORT/RECREATION | | | | | | Ì | 1 1 | | 1 | | ¥111. | : TRANSPORTATION | |
| - | | | | ا ا | 1000 | 1 970 | | 1 1920 | 480000 | 1 6000 | 1 1500000 I | 1414. | - HARDLOUBLICH | , i , i |
| 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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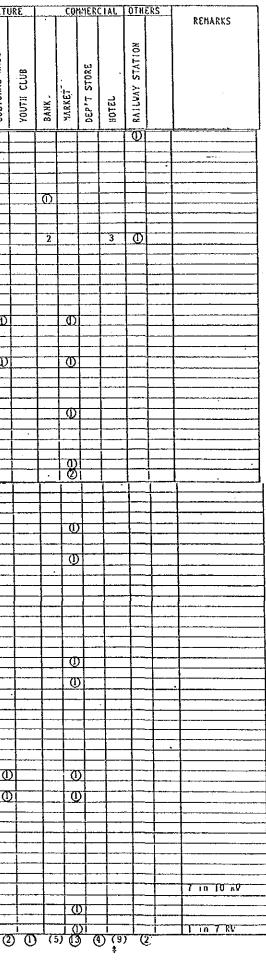
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| Table D-3 Allocation of Existing Neighbourhood Facility | Y |
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| · · | | | | - | GOVERNI | IENT OFFI | <u> </u> | | EDUCA | TIONAL | | | RELIGIOU | IS | | HEALTH | | 50 | CIAL/S | SPORTS | /CULTUR | 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 | | | | | | | | | | | _ |
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| - RV. 06 - RV. 07 | | | | | | | | -+- | | 1 | + | Ø | $\left \right $ | _ | | 0 | | 9 | 0 | <u> </u> | | | | Ø | Ø | | _ | | + | - |
| ۲۳۰. 08 ۲۳۰. 09 | | | | 6.050 | | 8 | | | | | | ø | 2 | 0 | | | | 8 | _ | | | | | | | | | - | | Ē |
| 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 |
| | | | | | | | | | | | - | | | - | | | | 8 | | | | | | | | | | | | ł |
| 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

.....

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

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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

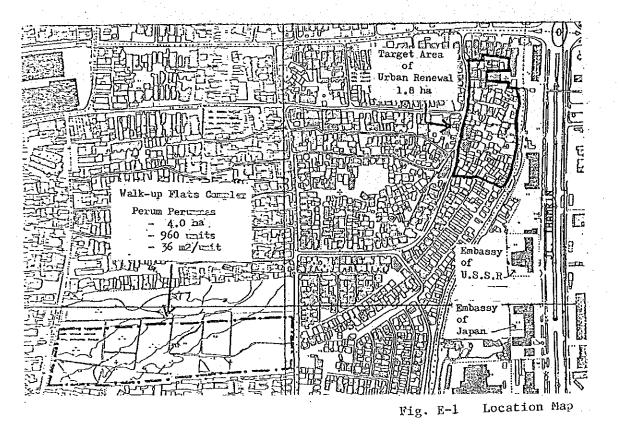
Page

E-24 E-28

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

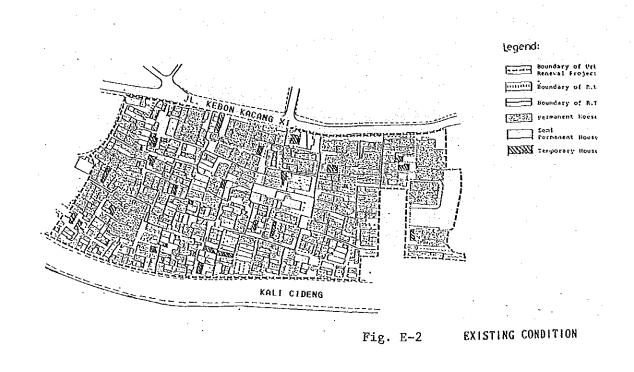
sisting of nd & house owners use owners nthly lessee arly lessee ee co-ocupants

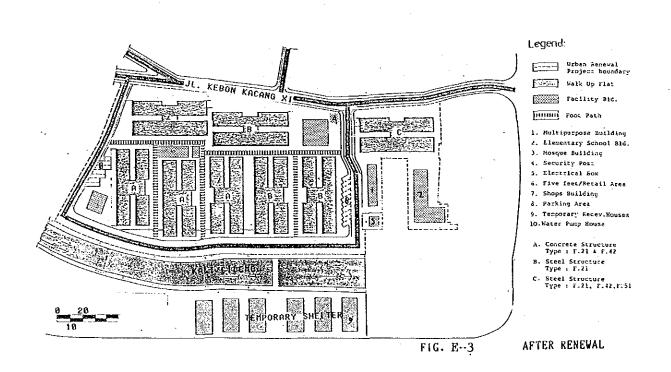
E - 1

| | 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)

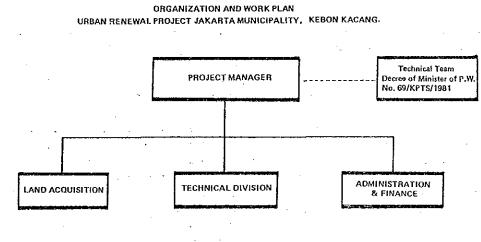


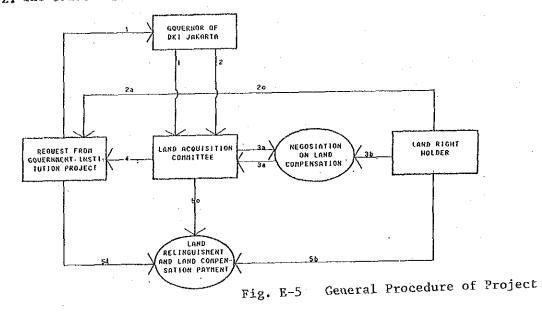
Fig. E-4

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

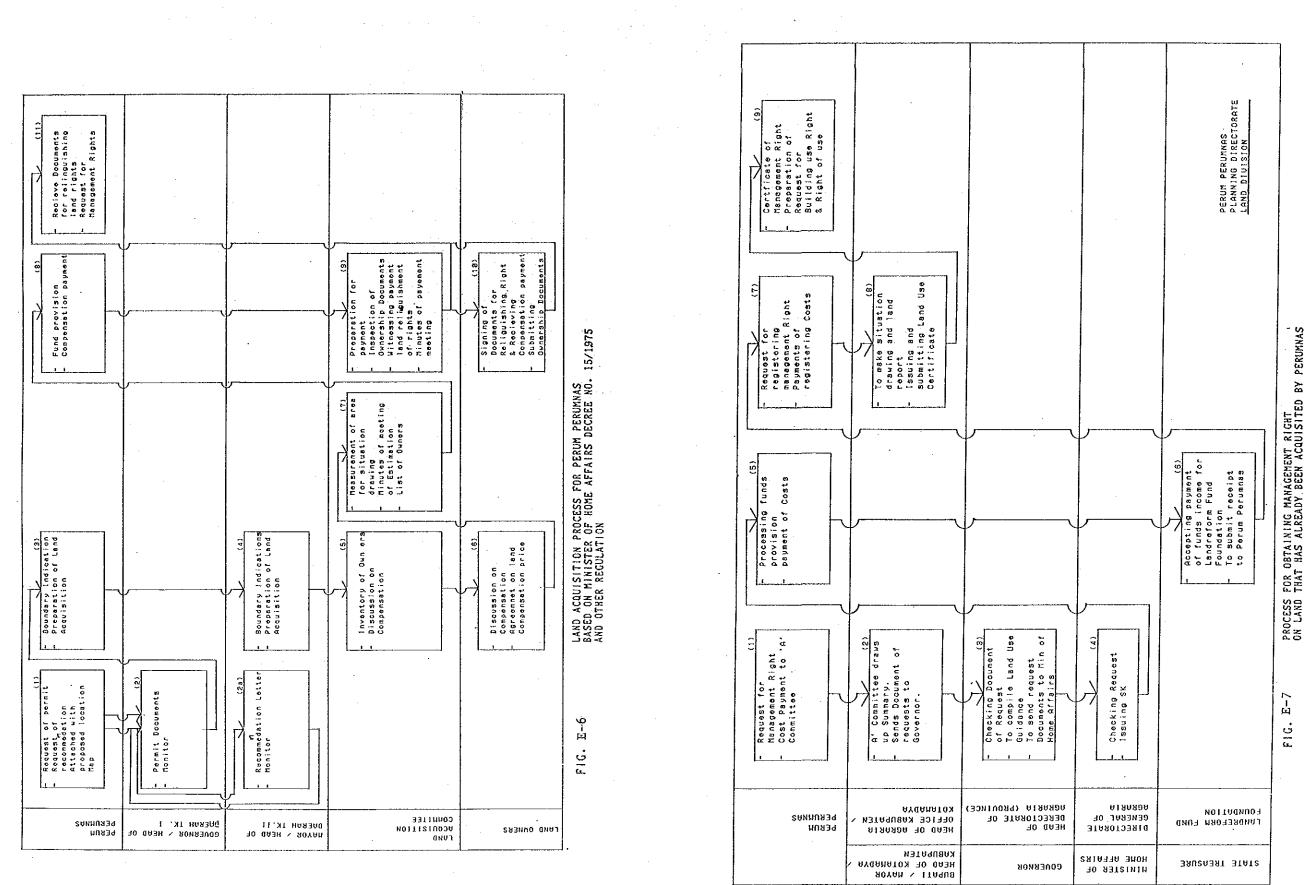
5a undertaken by Government/Applicant by own cost, with name list for the compensation and certificate of housing land ownership.

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.

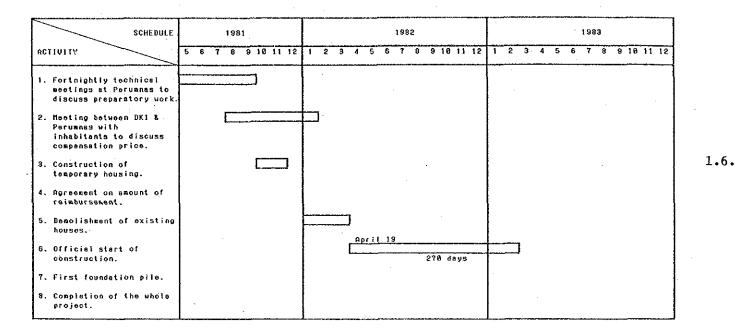


Fig. E-8 Implementation Schedule

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.

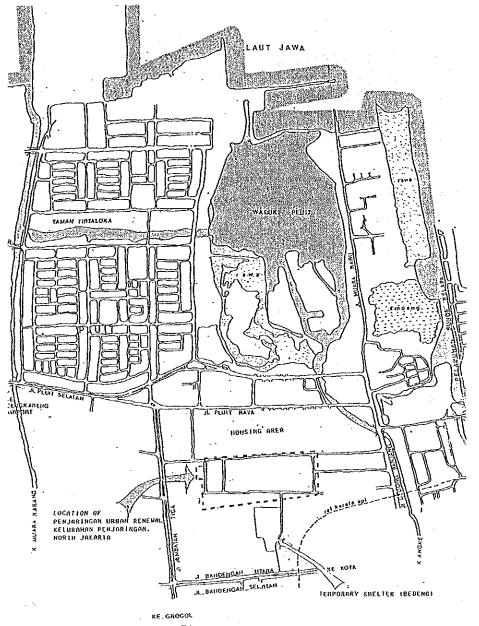


FIG. E-9 LOCATION OF PENJARINGAN URBAN RENEWAL To avoid future squatter development, the government took actions to control the utilization and redevelopment of the area. The area was decided as a resettlement area for the people left homeless in the fire, and utilization and construction of area was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

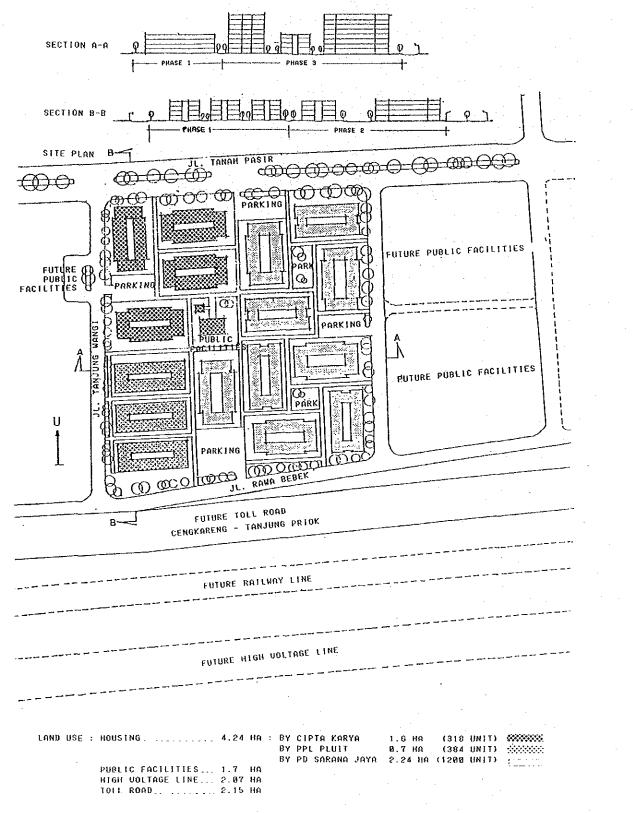
lighting

1.

2.

with underground water

- 1 fire hydrant





INSTITUTIONAL ASPECTS

2.3.

Basic Organization 2.3.1.

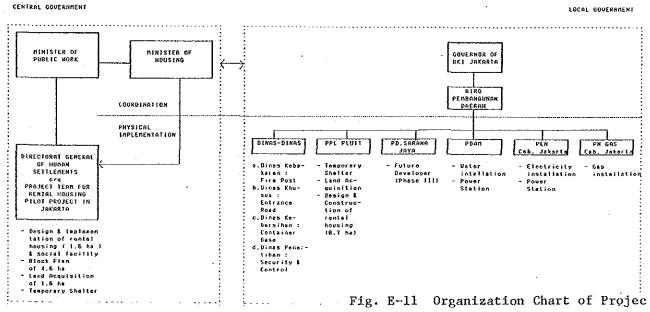
> The basic relationship between agencies/government institutions involved within the Penjaringan Urban Renewal is devided into 2. the central government and the local government.

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.



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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 :

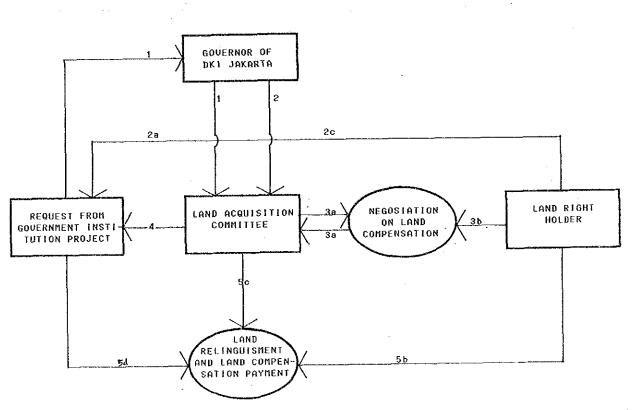


Fig. E-12 General Procedure of Land Acquisition

| 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 :

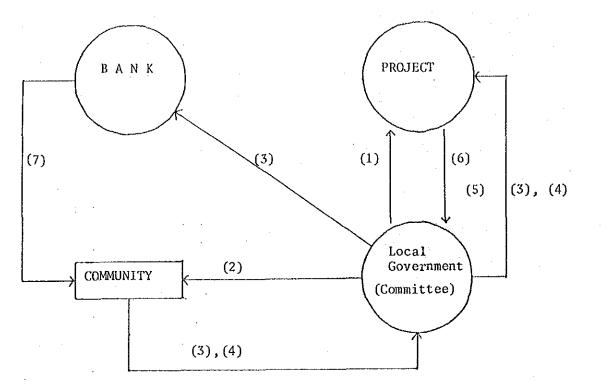


Fig. E-14 Procedure of Compensation Payment

- 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

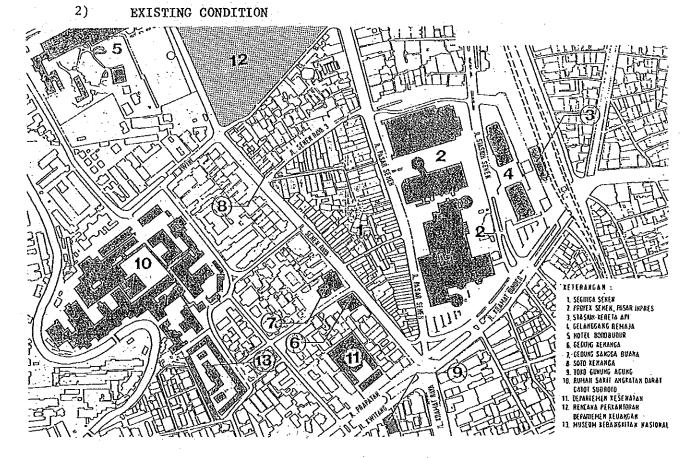
The Senen Market was renewed as Project Senen $(\pm 8.9 \text{ ha})$ in the early 70's. As it was decided in the Jakarta Master plan 2005, the Senen area will be developed into one of the 8 primary centres for trade and commerce in Jakarta.

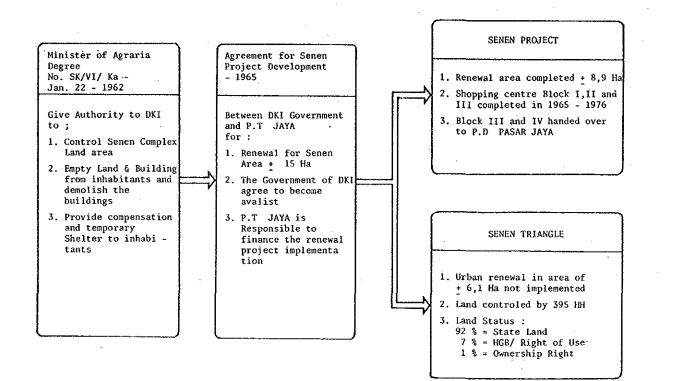
The existing condition of Senen Triangle $(\pm 60.594 \text{ sqm})$ is far from expected - consisting of old buildings with in adequate environment conditions.

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

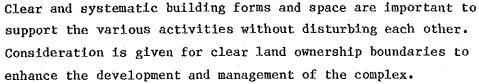
Hotel (3 star - business class)

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.

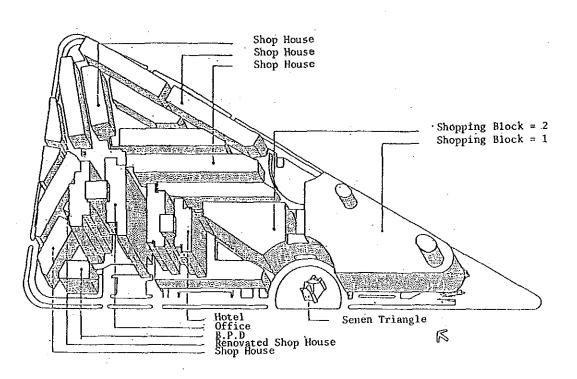


fig. E-16 Renewal Plan

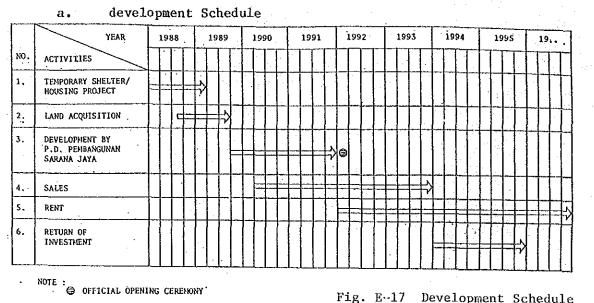


Fig. E-17 Development Schedule

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.

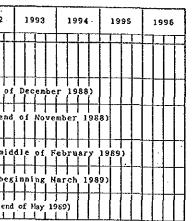


Fig. E-18 Land Acquisition Schedule

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

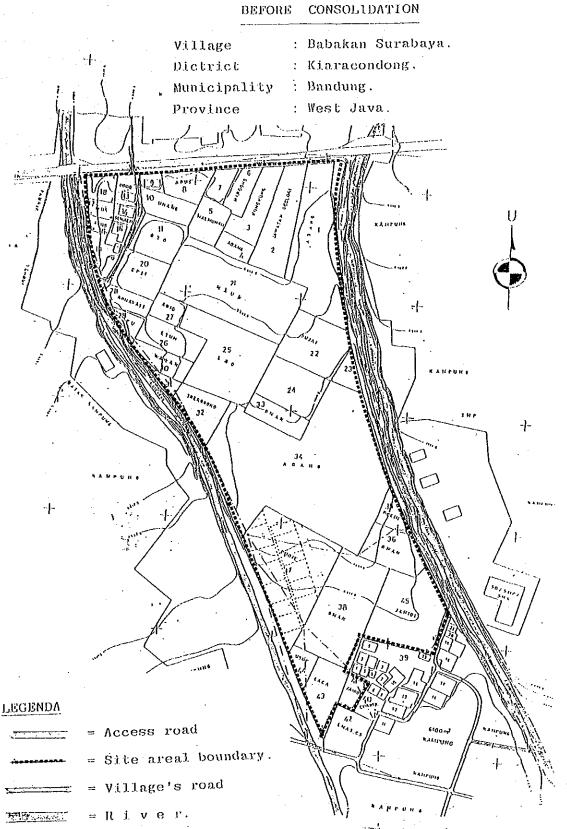
3) THE RENEWAL PLAN

(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.

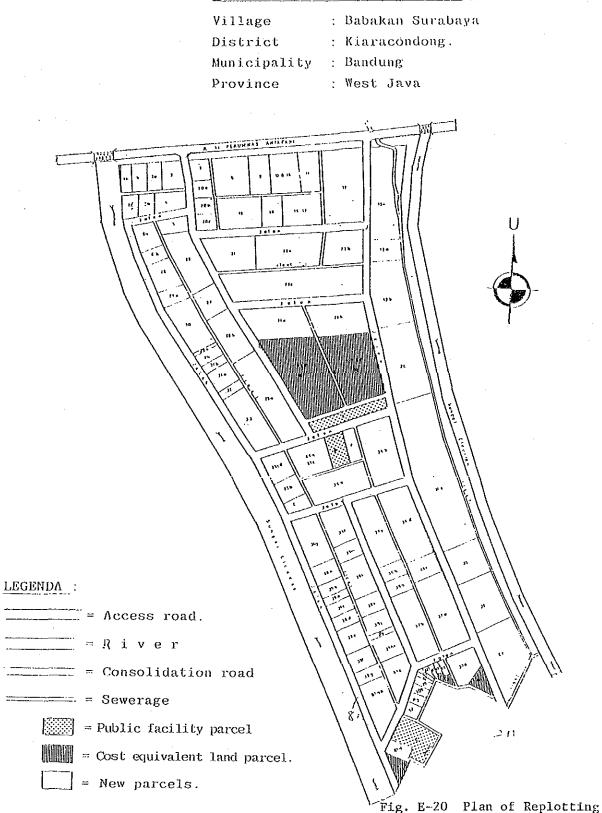
Institutional Aspects 5)

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

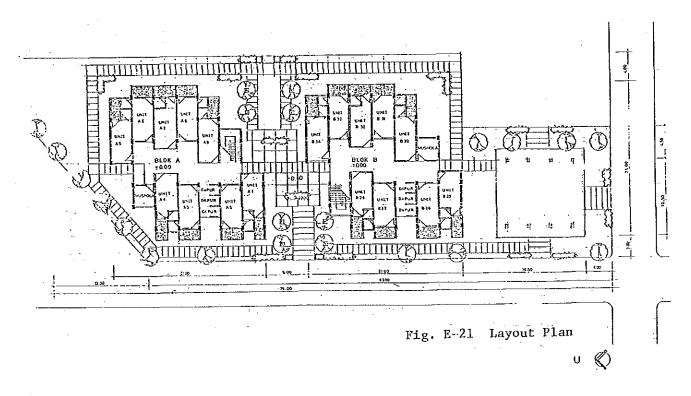
The site will consist of :

- 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) : ----

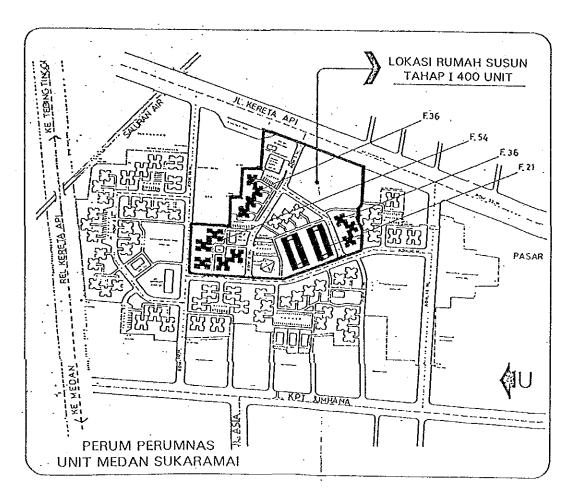
| + 4 blocks (| of type | F-21 | ; | 208 units | : | 4.368 m2 |
|--------------|---------|------|---|-----------|-----|-----------------|
| + 7 blocks d | of type | F-36 | : | 112 units | : | 4.032 m2 |
| + 5 blocks o | of type | F-54 | : | 80 units | ••• | <u>4.320 m2</u> |
| | | | | 400 units | : |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