

TABLES

CHAPTER 2

**PRESENT CONDITION OF
THE STDY AREA**

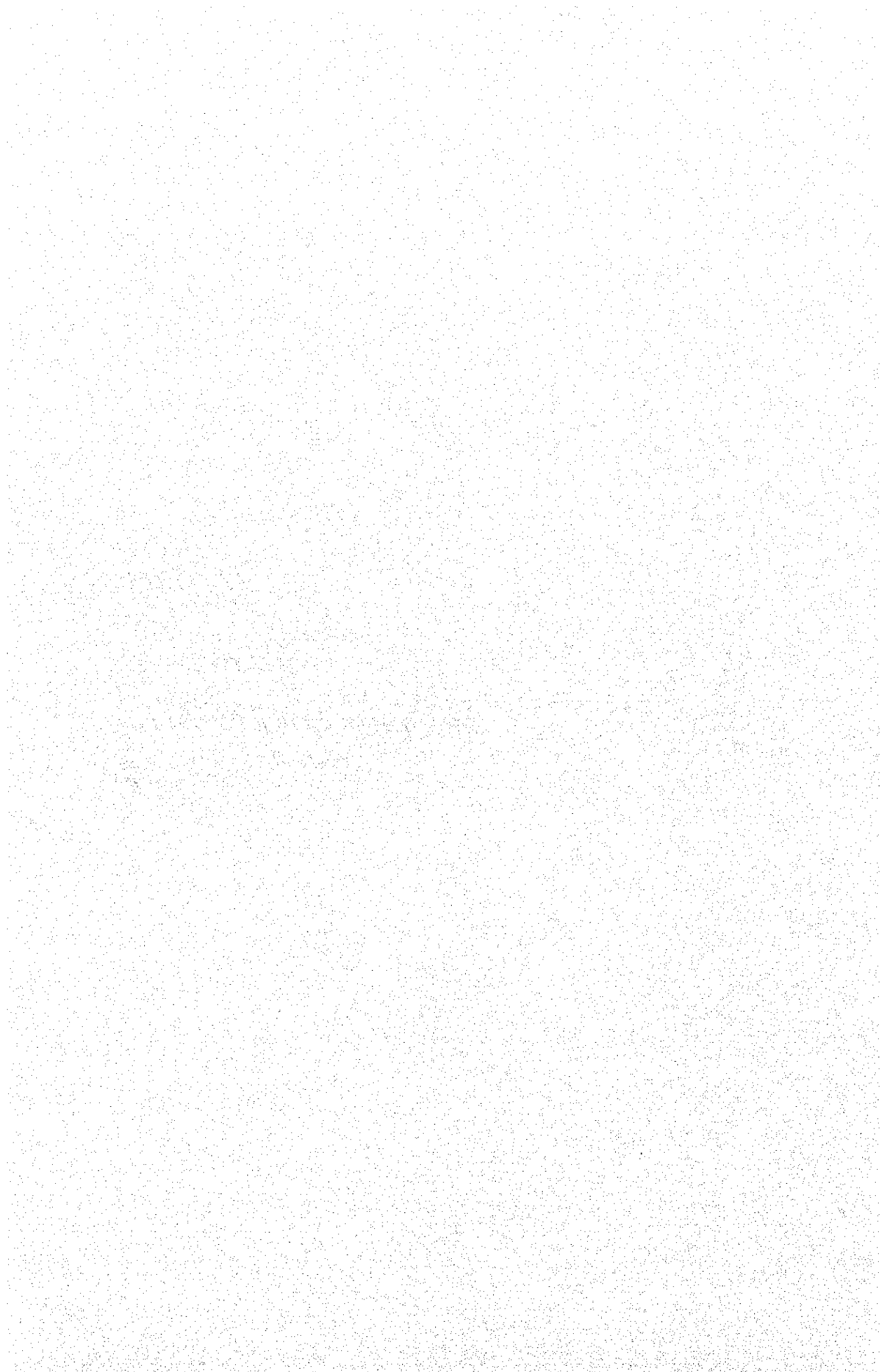


Table 2.1.1 CLIMATOLOGICAL DATA AT BMG-SEMARANG STATION

| Element | Unit | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total (/year) | Mean | Data Period |
|---------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|-------|-------------|
| Monthly Rainfall | mm/mon | 434 | 292 | 274 | 201 | 178 | 100 | 73 | 67 | 92 | 154 | 228 | 285 | 2378 | 198.2 | 1968-1996 |
| Pan Evaporation | mm/day | 3.3 | 3.7 | 3.8 | 4.0 | 4.3 | 4.5 | 4.8 | 5.1 | 5.7 | 5.5 | 4.4 | 3.8 | 1610 | 4.4 | 1978-1996 |
| Average Temperature | deg. C | 26.4 | 26.4 | 26.8 | 27.6 | 27.9 | 27.4 | 27.1 | 27.2 | 27.8 | 28.3 | 27.8 | 27.0 | | 27.3 | 1968-1996 |
| Maximum Temperature | deg. C | 29.9 | 30.0 | 30.4 | 31.7 | 32.5 | 32.4 | 32.6 | 33.2 | 33.7 | 33.7 | 32.3 | 30.8 | | 31.9 | - do. - |
| Minimum Temperature | deg. C | 23.5 | 23.6 | 23.9 | 24.3 | 24.2 | 23.2 | 22.8 | 22.7 | 23.0 | 23.6 | 23.7 | 23.7 | | 23.5 | - do. - |
| Relative Humidity | % | 84.4 | 84.1 | 83.8 | 79.8 | 77.2 | 74.6 | 72.2 | 70.7 | 70.1 | 71.7 | 77.3 | 81.5 | | 77.3 | - do. - |
| Rainy Days | days | 22 | 18 | 18 | 15 | 11 | 7 | 6 | 5 | 8 | 11 | 16 | 19 | 156 | 13.0 | - do. - |
| Sunshine Duration | % | 38 | 46 | 52 | 59 | 65 | 65 | 75 | 81 | 74 | 70 | 56 | 46 | | 60.6 | - do. - |
| Wind Velocity | m/s | 2.0 | 2.0 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.0 | 1.8 | 1.6 | 1.6 | | 1.8 | - do. - |

Source : Badan Meteorologi dan Geofisika, Stasiun Klimatologi Semarang

Table 2.1.2 GEOLOGICAL STRATA OF STUDY AREA

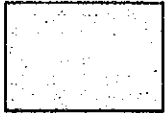
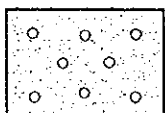
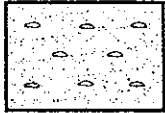
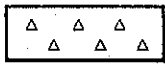

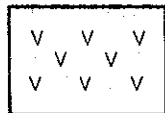

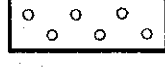
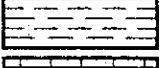
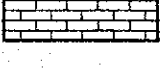
| EPOCH | SYMBOL | FORMATION | NAME | LITHOLOGY |
|---|---|-----------|-------------------------|---|
| HOLOCENE |  ts | - | Top Soil Talus dt | Clay, Gravel (angular) |
| |  rd | - | River Bed dt. | Sand, gravel interbedded silt and clay |
| |  Fd | - | Flood Plain dt | Sand, gravel, silt and clay |
| PLEISTOCENE |  VB | NOTOPURO | Volcanic breccia | VB; Volcanic Breccia |
| |  VS | | | VBs; Tuffaceous sandstone |
| |  La | | Lava Flow | Andesite Exposed Lava Locally |
| |  Dts | DAMAR | Tuffaceous Sandstone | Dts; Tuffaceous sandstone |
|  Dtg | Dtg; Conglomerate | | | |
| PLIOCENE |  Kc | KALIBIUK | Blue Claystone | Kc; Blue Claystone, marl, Sandstone |
| |  Kcl | | | Kcl Limestone |

Table 2.1.3 WATER LEVEL-DISCHARGE RELATION AT SIMONGAN WEIR

| No. | Water Level EL(m) | Head $h=H-5.2$ (m) | Center Portion Q_1 (m ³ /s) $=1.57*64.6*h^{1.5}$ | Side Portion Q_2 (m ³ /s) $=1.8*10.4*h^{1.5}$ | Discharge $Q=Q_1+Q_2$ (m ³ /s) |
|-----|-------------------|--------------------|--|---|---|
| 1 | 5.20 | 0.00 | 0.0 | 0.0 | 0.0 |
| 2 | 5.40 | 0.20 | 9.1 | 1.7 | 10.7 |
| 3 | 5.60 | 0.40 | 25.7 | 4.7 | 30.4 |
| 4 | 5.80 | 0.60 | 47.1 | 8.7 | 55.8 |
| 5 | 6.00 | 0.80 | 72.6 | 13.4 | 86.0 |
| 6 | 6.20 | 1.00 | 101.4 | 18.7 | 120.1 |
| 7 | 6.40 | 1.20 | 133.3 | 24.6 | 157.9 |
| 8 | 6.60 | 1.40 | 168.0 | 31.0 | 199.0 |
| 9 | 6.80 | 1.60 | 205.3 | 37.9 | 243.2 |
| 10 | 7.00 | 1.80 | 244.9 | 45.2 | 290.1 |
| 11 | 7.20 | 2.00 | 286.9 | 52.9 | 339.8 |
| 12 | 7.40 | 2.20 | 331.0 | 61.1 | 392.0 |
| 13 | 7.60 | 2.40 | 377.1 | 69.6 | 446.7 |
| 14 | 7.80 | 2.60 | 425.2 | 78.5 | 503.7 |
| 15 | 8.00 | 2.80 | 475.2 | 87.7 | 562.9 |
| 16 | 8.20 | 3.00 | 527.0 | 97.3 | 624.3 |
| 17 | 8.40 | 3.20 | 580.6 | 107.2 | 687.7 |
| 18 | 8.60 | 3.40 | 635.8 | 117.4 | 753.2 |
| 19 | 8.80 | 3.60 | 692.8 | 127.9 | 820.6 |
| 20 | 9.00 | 3.80 | 751.3 | 138.7 | 890.0 |
| 21 | 9.10 | 3.90 | 781.1 | 144.2 | 925.3 |
| 22 | 9.20 | 4.00 | 811.4 | 149.8 | 961.1 |

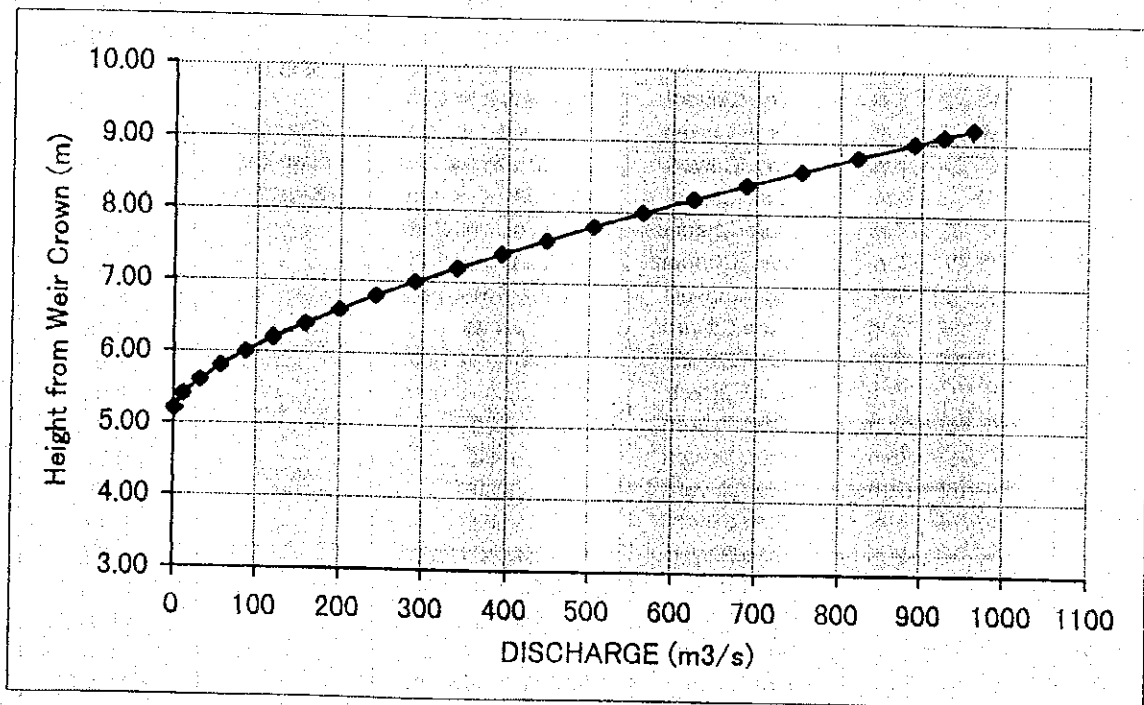


Table 2.1.4 EXISTING DRAINAGE OUTLET

| No. | Location | Type of Drainage Channel | Dimension W x H x n / Dia. | Type of Gate | Channel Bed Elevation (m) |
|-------------------|----------------|--------------------------|-------------------------------|--------------|------------------------------|
| Right Bank | | | | | |
| R - 1 | WF.5 +5 m | Open Channel | W = about 10 m | - | -1.42 |
| R - 2 | WF.53 +12 m | Box Culvert | W 1.00 x H 1.00 x 2 | Flap Gate | -0.88 |
| R - 3 | WF.68 +21 m | Trapezoid | 3.7 x 2.9 x 2.2 | Flap Gate | 0.01 |
| R - 4 | WF.74 +3 m | Pipe Culvert | φ 1, 100 | Flap Gate | 0.16 |
| R - 5 | WF.74 +4 m | Box Culvert | W 1.20 x H 1.20 | Flap Gate | 0.27 |
| R - 6 | WF.96 +7 m | Box Culvert | W 2.50 x H 2.90 x 2 | - | 0.24 |
| R - 7 | WF.115 +25 m | Box Culvert | W 1.40 x H 1.50 x 2 | Log Gate | 5.54 |
| R - 8 | WF.115 +39 m | Box Culvert | W 0.80 x H 0.90 | - | 8.61 |
| R - 9 | WF.122 +14 m | Open Channel | W 1.50 , H 5.40 | Slide Gate | 5.70 |
| R - 10 | WF.139 +56 m | Box Culvert | W 1.20 x H 1.20 | - | 7.39 |
| R - 11 | WF.156 +55 m | Box Culvert | W 1.00 x H 1.20 | Flap Gate | 9.65 |
| R - 12 | WF.160 +21 m | Box Culvert | W 1.10 x H 1.20 | Flap Gate | 9.52 |
| R - 13 | WF.162 +41 m | Box Culvert | W 1.10 x H 0.60 | Flap Gate | 9.80 |
| R - 14 | WF.165 +9 m | Box Culvert | W 1.10 x H 0.90 | - | 8.52 |
| R - 15 | WF.172 +6 m | Box Culvert | W 1.10 x H 1.10 | Flap Gate | 10.87 |
| R - 16 | WF.172 +10 m | Box Culvert | W 1.00 x H 0.70 | Flap Gate | 11.22 |
| R - 17 | WF.172 +58 m | Box Culvert | W 0.90 x H 0.80 | Flap Gate | 11.15 |
| R - 18 | WF.172 +61 m | Box Culvert | W 0.90 x H 1.00 | Flap Gate | 11.21 |
| R - 19 | WF.173 +49 m | Open Channel | W=3.0, H=1.0 | - | 8.92 |
| R - 20 | WF.176 +27 m | Open Channel | W=1.0, H=1.0 | - | 7.03 |
| R - 21 | WF.176 +46 m | Open Channel | W=1.0, H=1.0 | - | 7.75 |
| Left Bank | | | | | |
| L - 1 | WF.0 -7 - 41 m | Open Channel | W 1.70 , H 1.10 | - | -0.45 |
| L - 2 | WF.2 +33 m | Box Culvert | W 1.70 x H 1.80 | - | -0.95 |
| L - 3 | WF.4 +26 m | Pipe Culvert | φ 800 | - | 0.15 |
| L - 4 | WF.6 +17 m | Pipe Culvert | φ 800 | - | 0.46 |
| L - 5 | WF.10 +10 m | Pipe Culvert | φ 800 | - | 0.32 |
| L - 6 | WF.11 +8 m | Pipe Culvert | φ 800 | - | 0.45 |
| L - 7 | WF.14 +0 m | Open Channel | B = about 4 m | - | -0.91 |
| L - 8 | WF.15 +20 m | Box Culvert | W 1.20 x H 1.50 | Stop Log | -0.36 |
| L - 9 | WF.22 +37 m | Box Culvert | W 1.40 x H 0.80 | - | -0.71 |
| L - 10 | WF.29 +12 m | Pipe Culvert | φ 1700 x 3 | Flap Gate | -1.25 |
| L - 11 | WF.36 +20 m | Box Culvert | W 1.9 x H 1.8 x 8 | Flap Gate | -1.47 |
| L - 12 | WF.74 +9 m | Box Culvert | W 1.50 x H 1.50 | Slide Gate | 0.22 |
| L - 13 | WF.98 +37 m | Open Channel | W 2.70 , H 2.00 | - | 5.25 |
| L - 14 | WF.98 +42 m | Open Channel | W 2.70 , H 2.00 | - | 5.46 |
| L - 15 | WF.129 +3 m | Box Culvert | 2.0 x 1.0 x 1.6 | - | 8.59 |
| L - 16 | WF.134 +21 m | Pipe Culvert | φ 1000 | - | 6.80 |
| L - 17 | WF.149 +34 m | Box Culvert | W 1.20 x H 1.00 | - | 7.94 |
| L - 18 | WF.152 +16 m | Box Culvert | W 1.50 x H 1.00 | - | 9.03 |
| L - 19 | WF.154 +47 m | Pipe Culvert | φ 800 | - | 9.69 |
| L - 20 | WF.155 +35 m | Pipe Culvert | φ 800 | - | 9.97 |
| L - 21 | WF.156 +51 m | Pipe Culvert | φ 800 | - | 10.03 |
| L - 22 | WF.158 +1 m | Pipe Culvert | φ 800 | - | 9.42 |
| | WF.158 +3 m | Box Culvert | W 1.20 x H 1.60 | - | 9.70 |
| L - 23 | WF.158 +18 m | Box Culvert | W 0.90 x H 2.00 | - | 10.21 |
| L - 24 | WF.160 +7 m | Pipe Culvert | φ 500 x 2 | - | 11.91 |
| L - 25 | WF.161 +51 m | Box Culvert | W 0.80 x H 0.70 | - | 13.62 |
| L - 26 | WF.167 +1 m | Open Channel | W 1.50 , H 1.70 | - | 6.69 |
| L - 27 | WF.174 +34 m | Open Channel | W 3.0 , H 1.90 | - | 5.72 |
| L - 28 | WF.177 +37 m | Box Culvert | W 0.40 x H 0.50 | - | 12.21 |

Table 2.2.1 AREA AND POPULATION IN INDONESIA

| Province | Area (km ²) | Population | | | Households (HHs) | | | Family size (person/III) | | Annual average growth rate of population (%) | | | Population density as of 1996 (persons/km ²) |
|-----------------------------|-------------------------|--------------------|--------------------|--------------------|------------------|----------------|----------------|--------------------------|----------------|--|-------|-------|--|
| | | 1980 | | 1990 | 1980 | | 1990 | 1980 | 1990 | 80-90 | 90-96 | 80-96 | |
| | | (persons in 1,000) | (persons in 1,000) | (persons in 1,000) | (HHs in 1,000) | (HHs in 1,000) | (HHs in 1,000) | (HHs in 1,000) | (HHs in 1,000) | (%) | (%) | (%) | |
| Sumatera Island | 482,393 | 28,016 | 36,592 | 41,840 | 5,375 | 7,474 | 9,202 | 5.21 | 4.88 | 2.68% | 2.30% | 2.49% | 87 |
| Dista Aceh | 55,390 | 2,611 | 3,416 | 3,945 | 531 | 697 | 832 | 4.92 | 4.90 | 2.72% | 2.43% | 2.54% | 71 |
| Sumatera Utara | 71,680 | 8,361 | 10,252 | 11,306 | 1,548 | 2,023 | 2,367 | 5.40 | 5.07 | 2.06% | 1.64% | 1.90% | 158 |
| Sumatera Barat | 42,898 | 3,407 | 4,000 | 4,390 | 704 | 868 | 1,004 | 4.84 | 4.61 | 1.62% | 1.56% | 1.90% | 102 |
| Riau | 94,561 | 2,168 | 3,304 | 4,057 | 413 | 679 | 923 | 5.25 | 4.87 | 4.30% | 3.48% | 3.99% | 43 |
| Jambi | 53,436 | 1,446 | 2,020 | 2,459 | 300 | 438 | 577 | 4.82 | 4.61 | 3.40% | 3.33% | 3.37% | 46 |
| Sumatera Selatan | 109,254 | 4,630 | 6,313 | 7,413 | 857 | 1,266 | 1,631 | 5.40 | 4.99 | 3.15% | 2.71% | 2.99% | 68 |
| Bengkulu | 19,789 | 768 | 1,179 | 1,464 | 150 | 252 | 343 | 5.12 | 4.68 | 4.38% | 3.68% | 4.12% | 74 |
| Lampung | 35,385 | 4,625 | 6,018 | 6,806 | 872 | 1,251 | 1,525 | 5.30 | 4.81 | 2.67% | 2.07% | 2.44% | 192 |
| Jawa Island | 127,499 | 91,270 | 107,591 | 116,379 | 19,623 | 24,908 | 28,268 | 4.65 | 4.32 | 1.66% | 1.32% | 1.53% | 913 |
| DKI Jakarta | 664 | 6,503 | 8,259 | 9,341 | 1,164 | 1,740 | 2,117 | 5.59 | 4.75 | 2.42% | 2.43% | 2.54% | 14,068 |
| Jawa Barat | 43,177 | 27,454 | 35,384 | 40,118 | 6,101 | 8,180 | 9,575 | 4.50 | 4.33 | 2.57% | 1.64% | 2.61% | 929 |
| Jawa Tengah | 32,549 | 25,373 | 28,521 | 29,881 | 5,286 | 6,414 | 7,077 | 4.80 | 4.45 | 1.18% | 1.56% | 1.90% | 918 |
| DI Yogyakarta | 3,186 | 2,751 | 2,913 | 2,915 | 593 | 729 | 769 | 4.64 | 4.00 | 0.57% | 3.48% | 3.99% | 915 |
| Jawa Timur | 47,923 | 29,189 | 32,504 | 34,124 | 6,479 | 7,845 | 8,730 | 4.51 | 4.14 | 1.08% | 3.33% | 3.37% | 712 |
| Nusa Tenggara Island | 87,744 | 8,487 | 10,165 | 11,133 | 1,684 | 2,136 | 2,480 | 5.04 | 4.76 | 1.82% | 1.53% | 1.71% | 127 |
| Bali | 5,633 | 2,470 | 2,778 | 2,924 | 485 | 601 | 704 | 5.09 | 4.62 | 1.18% | 0.86% | 1.06% | 519 |
| Nusa Tenggara Barat | 20,153 | 2,725 | 3,370 | 3,708 | 594 | 767 | 883 | 4.59 | 4.39 | 2.15% | 1.60% | 1.94% | 184 |
| Nusa Tenggara Timur | 47,349 | 2,737 | 3,269 | 3,641 | 496 | 619 | 715 | 5.52 | 5.28 | 1.79% | 1.81% | 1.80% | 77 |
| Timor Timur | 14,609 | 555 | 748 | 860 | 109 | 149 | 178 | 5.09 | 5.02 | 3.03% | 2.35% | 2.77% | 59 |
| Kalimantan Island | 547,891 | 6,723 | 9,099 | 10,807 | 1,323 | 1,942 | 2,532 | 5.04 | 4.76 | 3.07% | 2.91% | 3.01% | 20 |
| Kalimantan Barat | 146,807 | 2,486 | 3,229 | 3,732 | 458 | 640 | 795 | 5.43 | 5.05 | 2.65% | 2.44% | 2.57% | 25 |
| Kalimantan Tengah | 153,564 | 954 | 1,396 | 1,686 | 186 | 306 | 408 | 5.13 | 4.56 | 3.88% | 3.19% | 3.62% | 11 |
| Kalimantan Selatan | 36,535 | 2,065 | 2,597 | 2,960 | 444 | 597 | 748 | 4.65 | 4.35 | 2.32% | 2.21% | 2.28% | 81 |
| Kalimantan Timur | 210,985 | 1,218 | 1,877 | 2,429 | 235 | 399 | 581 | 5.18 | 4.70 | 4.42% | 4.39% | 4.41% | 12 |
| Sulawesi Island | 191,800 | 10,409 | 12,521 | 14,019 | 1,923 | 2,558 | 3,019 | 5.04 | 4.76 | 1.86% | 1.90% | 1.88% | 73 |
| Sulawesi Barat | 27,488 | 2,115 | 2,478 | 2,686 | 399 | 549 | 637 | 5.30 | 4.51 | 1.60% | 1.35% | 1.51% | 98 |
| Sulawesi Tengah | 63,689 | 1,290 | 1,711 | 1,997 | 233 | 347 | 438 | 5.54 | 4.93 | 2.86% | 2.61% | 2.77% | 31 |
| Sulawesi Selatan | 62,483 | 6,062 | 6,982 | 7,693 | 1,117 | 1,399 | 1,605 | 5.43 | 4.99 | 1.42% | 1.63% | 1.50% | 123 |
| Sulawesi Tenggara | 38,140 | 942 | 1,350 | 1,643 | 174 | 263 | 339 | 5.41 | 5.13 | 3.66% | 3.33% | 3.54% | 43 |
| Maluku and Irian Jaya | 499,852 | 2,585 | 3,507 | 4,163 | 445 | 677 | 900 | 11.60 | 10.35 | 3.10% | 2.90% | 3.02% | 8 |
| Maluku | 77,871 | 1,411 | 1,858 | 2,142 | 229 | 344 | 435 | 6.16 | 5.40 | 2.79% | 2.40% | 2.64% | 28 |
| Irian Jaya | 421,981 | 1,174 | 1,649 | 2,021 | 216 | 333 | 465 | 5.44 | 4.95 | 3.46% | 3.45% | 3.45% | 5 |
| Total in Indonesia | 1,937,179 | 147,490 | 179,375 | 198,341 | 30,373 | 39,695 | 46,401 | 4.86 | 4.52 | 1.98% | 1.69% | 1.87% | 102 |

Source : Indonesia in Figures (Indonesia Dalam Angka) 1996, Central Statistic Bureau of Indonesia

Table 2.2.2 AREA AND POPULATION IN CENTRAL JAVA

| Kabupaten/Kotamadya (Regency/Municipality) | Area (km ²) | Population | | 1995* (persons in 1,000) | Household (HHs) | | Family size (person/HH) | | Annual average growth rate of population (%) | | | Population density as of 1995 (persons/km ²) |
|---|-------------------------|---------------------------------|---------------------------------|--------------------------------|-----------------------------|-----------------------------|-------------------------|-------|--|---------|---------|--|
| | | 1980 (persons in 1,000) | 1990 (persons in 1,000) | | 1990 (HHs in 1,000) | 1995 (HHs in 1,000) | 1990 | 1995 | '80-'90 | '90-'95 | '80-'95 | |
| | | | | | | | | | | | | |
| Cilacap | 2,143 | 1,344 | 1,459 | 1,535 | 326 | 348 | 4.43 | 4.41 | 0.82% | 1.02% | 0.89% | 716 |
| Banyumas | 1,328 | 1,228 | 1,351 | 1,402 | 304 | 317 | 4.44 | 4.42 | 0.600% | 0.74% | 0.89% | 1,056 |
| Purbalingga | 778 | 671 | 756 | 786 | 159 | 165 | 4.75 | 4.76 | 1.20% | 0.78% | 1.05% | 1,010 |
| Banjarnegara | 1,070 | 678 | 773 | 808 | 178 | 176 | 4.34 | 4.59 | 1.32% | 0.89% | 1.17% | 755 |
| Kabupaten | 1,283 | 1,038 | 1,151 | 1,182 | 320 | 244 | 3.60 | 4.84 | 1.04% | 0.53% | 0.87% | 921 |
| Purworejo | 1,035 | 694 | 724 | 733 | 158 | 165 | 4.58 | 4.44 | 0.42% | 0.26% | 0.36% | 708 |
| Wonorebo | 985 | 601 | 671 | 705 | 140 | 146 | 4.79 | 4.83 | 1.12% | 0.99% | 1.07% | 716 |
| Magelang | 1,086 | 935 | 1,017 | 1,038 | 235 | 238 | 4.33 | 4.36 | 0.84% | 0.41% | 0.70% | 956 |
| Boyolali | 1,015 | 786 | 870 | 888 | 191 | 199 | 4.55 | 4.46 | 1.03% | 0.40% | 0.82% | 875 |
| Klaten | 656 | 1,086 | 1,180 | 1,204 | 250 | 257 | 4.72 | 4.68 | 0.83% | 0.41% | 0.69% | 1,835 |
| Sukoharjo | 467 | 605 | 696 | 727 | 140 | 159 | 4.97 | 4.57 | 1.41% | 0.89% | 1.24% | 1,557 |
| Wonogiri | 1,822 | 953 | 1,026 | 1,050 | 203 | 213 | 5.05 | 4.93 | 0.74% | 0.47% | 0.65% | 576 |
| Karanganyar | 772 | 610 | 707 | 744 | 138 | 162 | 5.12 | 4.59 | 1.49% | 1.01% | 1.33% | 964 |
| Sragen | 946 | 765 | 845 | 863 | 180 | 190 | 4.69 | 4.54 | 1.00% | 0.43% | 0.71% | 912 |
| Grobogan | 1,976 | 1,020 | 1,176 | 1,242 | 262 | 300 | 4.49 | 4.14 | 1.44% | 1.09% | 1.32% | 629 |
| Blora | 1,794 | 698 | 757 | 782 | 179 | 185 | 4.23 | 4.26 | 0.82% | 0.79% | 0.81% | 439 |
| Rembang | 1,014 | 443 | 511 | 526 | 115 | 120 | 4.38 | 4.44 | 1.44% | 0.56% | 1.15% | 519 |
| Pati | 1,491 | 971 | 1,070 | 1,110 | 259 | 275 | 4.13 | 4.04 | 0.97% | 0.74% | 0.89% | 744 |
| Kudus | 425 | 537 | 610 | 635 | 127 | 141 | 4.80 | 4.50 | 1.27% | 0.83% | 1.13% | 1,594 |
| Jepara | 1,004 | 701 | 776 | 827 | 190 | 203 | 4.08 | 4.07 | 1.03% | 1.28% | 1.11% | 824 |
| Demak | 897 | 645 | 807 | 854 | 187 | 199 | 4.32 | 4.29 | 2.27% | 1.15% | 1.90% | 952 |
| Semarang | 982 | 709 | 772 | 763 | 170 | 174 | 4.54 | 4.39 | 0.86% | -0.23% | 0.50% | 777 |
| Ternangtinggung | 870 | 558 | 606 | 632 | 128 | 136 | 4.73 | 4.65 | 0.84% | 0.82% | 0.83% | 726 |
| Kendal | 1,002 | 701 | 789 | 819 | 181 | 186 | 4.36 | 4.40 | 1.20% | 0.74% | 1.04% | 817 |
| Batang | 789 | 531 | 593 | 616 | 130 | 135 | 4.56 | 4.56 | 1.10% | 0.79% | 1.00% | 781 |
| Pekalongan | 836 | 653 | 701 | 734 | 142 | 146 | 4.94 | 5.03 | 0.72% | 0.92% | 0.78% | 878 |
| Pemalang | 1,012 | 949 | 1,085 | 1,147 | 217 | 237 | 5.00 | 4.84 | 1.34% | 1.13% | 1.27% | 1,133 |
| Tegal | 880 | 1,103 | 1,242 | 1,268 | 263 | 272 | 4.72 | 4.66 | 1.19% | 0.43% | 0.94% | 1,441 |
| Brebes | 1,658 | 1,267 | 1,529 | 1,546 | 334 | 342 | 4.58 | 4.52 | 1.90% | 0.23% | 1.34% | 932 |
| Kotamadya (Municipality) | | | | | | | | | | | | |
| Magelang | 18 | 123 | 117 | 115 | 26 | 26 | 4.50 | 4.42 | -0.47% | -0.36% | -0.43% | 6,389 |
| Sukakarta | 44 | 459 | 517 | 528 | 113 | 116 | 4.55 | 4.55 | 1.19% | 0.44% | 0.94% | 12,000 |
| Salafiga | 18 | 80 | 86 | 143 | 18 | 30 | 4.78 | 4.77 | 0.80% | 10.59% | 3.97% | 7,944 |
| Semarang | 374 | 996 | 1,147 | 1,221 | 251 | 274 | 4.57 | 4.46 | 1.42% | 1.26% | 1.37% | 3,265 |
| Pekalongan | 43 | 133 | 235 | 242 | 48 | 51 | 4.90 | 4.75 | 5.89% | 0.57% | 4.08% | 5,378 |
| Tegal | 34 | 132 | 250 | 230 | 48 | 49 | 4.79 | 4.69 | 5.69% | 0.04% | 3.77% | 6,265 |
| Total in Central Java | 32,349 | 23,403 | 28,582 | 29,651 | 6,310 | 6,576 | 17.69 | 17.24 | 1.19% | 0.74% | 1.04% | 911 |

21. 1992, 1993, 1994 and 1996, Statistik Bureau of Central Java Province.
 *figures based on the Statistical Year Book of Indonesia.

Table 2.2.3 AREA AND POPULATION IN SEMARANG CITY

| Kecamatan (District) | Area (km ²) | Population (persons) | | | Households (HHs) | | | | Family size (person/HH) | | | | Annual average growth rate of population (%) '93-'96 | Population density as of 1996 (persons/km ²) | |
|-----------------------|-------------------------|----------------------|-----------|-------------------|------------------|---------|---------|-------------------|-------------------------|------|------|------|--|--|--------|
| | | 1985 | 1990 | 1993 ^b | 1996 | 1985 | 1990 | 1993 ^d | 1996 | 1985 | 1990 | 1993 | | | 1996 |
| Mijen | 57.55 | 35,364 | 37,276 | 32,767 | 35,726 | 7,595 | 5,919 | 7,954 | 8,527 | 4,66 | 6,30 | 4,12 | 4,19 | 2.92% | 621 |
| Gunungpau | 52.63 | 38,185 | 43,946 | 48,591 | 54,237 | 7,862 | 10,797 | 11,378 | 12,907 | 4,86 | 4,07 | 4,27 | 4,20 | 3.73% | 1,031 |
| Semarang Selatan | 5.92 | 196,660 | 204,491 | 79,743 | 79,138 | 37,852 | 41,036 | 17,344 | 18,076 | 5,20 | 4,98 | 4,60 | 4,38 | -0.25% | 13,368 |
| Banyumanik | 27.73 | - | - | 81,361 | 93,681 | - | - | 19,025 | 20,713 | - | - | 4,29 | 4,52 | 4.73% | 3,378 |
| Gajahmungkur | 10.78 | - | - | 52,711 | 54,625 | - | - | 10,941 | 11,506 | - | - | 4,82 | 4,75 | 1.20% | 5,067 |
| Genuk | 27.39 | 85,417 | 137,504 | 48,631 | 55,872 | 18,092 | 31,622 | 10,777 | 12,034 | 4,72 | 4,35 | 4,51 | 4,64 | 4.74% | 2,040 |
| Pedurungan | 20.72 | - | - | 98,134 | 117,770 | - | - | 22,852 | 27,594 | - | - | 4,29 | 4,27 | 6.27% | 5,684 |
| Gayamsari | 5.26 | - | - | 54,355 | 61,182 | - | - | 12,327 | 13,509 | - | - | 4,41 | 4,53 | 4.02% | 11,632 |
| Semarang Timur | 7.12 | 205,428 | 201,280 | 96,260 | 88,413 | 46,573 | 43,162 | 20,848 | 20,153 | 4,41 | 4,66 | 4,62 | 4,39 | -2.79% | 12,418 |
| Candisari | 6.80 | - | - | 76,006 | 76,640 | - | - | 15,780 | 16,521 | - | - | 4,82 | 4,64 | 0.28% | 11,271 |
| Tembalang | 44.20 | - | - | 79,148 | 85,402 | - | - | 16,646 | 18,386 | - | - | 4,75 | 4,64 | 2.57% | 1,932 |
| Semarang Utara | 10.97 | 169,330 | 152,457 | 122,705 | 129,299 | 34,366 | 35,182 | 27,090 | 27,816 | 4,93 | 4,33 | 4,53 | 4,65 | 1.76% | 11,787 |
| Semarang Tengah | 5.14 | 72,473 | 62,756 | 84,652 | 81,283 | 14,669 | 13,048 | 20,030 | 19,247 | 4,94 | 4,81 | 4,23 | 4,22 | -1.34% | 15,814 |
| Semarang Barat | 19.96 | 248,254 | 251,707 | 132,754 | 139,189 | 49,876 | 53,656 | 28,083 | 29,519 | 4,98 | 4,69 | 4,73 | 4,72 | 1.59% | 6,973 |
| Ngaliyan | 39.97 | - | - | 68,917 | 76,753 | - | - | 15,811 | 16,682 | - | - | 4,36 | 4,60 | 3.65% | 1,920 |
| Tugu | 39.97 | 248,254 | 251,707 | 132,754 | 139,189 | 49,876 | 53,656 | 28,083 | 29,519 | 4,98 | 4,69 | 4,73 | 4,72 | 3.14% | 3,482 |
| Total in Central Java | 382.11 | 1,299,365 | 1,343,124 | 1,177,562 | 1,368,399 | 266,761 | 288,078 | 284,969 | 302,709 | 4,87 | 4,66 | 4,13 | 4,52 | 2.06% | 3,581 |

Note : 1) The administration units belonging to several districts had been revised at the end of 1992. So the new administration system is used since 1993.

:- Lack of data

n.a.: Not available

Source: Semarang City in Figures (Kotamadya Semarang Dalam Angka) 1985, 1990, 1993, and 1996, Statistic Office of Semarang City.
Data Monografi Kotamadya Dati II Semarang 1996, BAPPEDA Kotamadya Dati II Semarang.

Table 2.2.4 LABOUR FORCE IN INDONESIA

| Item | 1985 ¹⁾ | 1995 ²⁾ | 1996 ³⁾ |
|---|----------------------|----------------------|----------------------|
| Labour Force Participation (Current) of the Household Population, 10 Years & Over in Both Sexes. | | | |
| Household Population (10-years & over) | 110,441,199 | 152,514,964 | 154,464,763 |
| Economic active population (Labour force in total) | 59,598,626 | 86,361,261 | 90,109,582 |
| Participation rate (%) | 53.96% | 56.62% | 58.34% |
| Actual Labour Force Situation | | | |
| Employed force | 57,802,801 (100.00%) | 80,110,060 (100.00%) | 85,701,813 (100.00%) |
| Employed rate (%) | 96.99% | 92.76% | 95.11% |
| Unemployed force | 1,795,825 | 6,251,201 | 4,407,769 |
| Unemployed rate (%) | 3.01% | 7.24% | 4.89% |
| Currently Employed Persons by Major Industrial Groups in Bothe Series | | | |
| Agriculture, forestry, hunting & fishery | 31,593,314 (54.66%) | 35,233,270 (43.98%) | 37,720,251 (44.01%) |
| Mining & quarrying | 390,661 (0.68%) | 643,352 (0.80%) | 774,211 (0.90%) |
| Manufacturing | 6,021,929 (10.42%) | 10,127,047 (12.64%) | 10,773,038 (12.57%) |
| Electricity, gas & water | 61,666 (0.11%) | 216,128 (0.27%) | 164,142 (0.19%) |
| Construction | 2,146,210 (3.71%) | 3,768,080 (4.70%) | 3,796,228 (4.43%) |
| Wholesales, retail trade, hotel and restaurant | 8,553,919 (14.80%) | 13,883,682 (17.33%) | 16,102,552 (18.79%) |
| Transportation, storage & communication | 1,796,112 (3.11%) | 3,458,155 (4.32%) | 3,942,799 (4.60%) |
| Finance, insurance, real estate, & business services | 112,859 (0.20%) | 658,497 (0.82%) | 689,733 (0.80%) |
| Public services | 7,125,419 (12.33%) | 12,121,869 (15.13%) | 11,728,495 (13.69%) |
| Others | 712 (0.00%) | - (0.00%) | 10,364 (0.01%) |

Source:

1) Statistics of Indonesia 1985, Central Statistic Bureau of Indonesia

2) Statistics of Indonesia 1995, Central Statistic Bureau of Indonesia

3) Statistics of Indonesia 1996, Central Statistic Bureau of Indonesia

Table 2.2.5 LABOUR FORCE IN CENTRAL JAVA

| Item | 1980 ¹⁾ | 1988 ²⁾ | 1995 ³⁾ |
|---|---------------------|----------------------|----------------------|
| Labour Force Participation (Current) of the Household Population, 10 Years & Over in Both Sexes. | | | |
| Household Population (10-years & over) | 18,392,419 | 21,251,543 | 23,650,214 |
| Economic active population (Labour force in total) | 10,101,217 | 13,396,583 | 14,642,604 |
| Participation rate (%) | 54.92% | 63.04% | 61.91% |
| Actual Labour Force Situation | | | |
| Employed force | 9,966,183 (100.00%) | 13,125,717 (100.00%) | 14,062,056 (100.00%) |
| Employed rate (%) | 98.66% | 97.98% | 96.04% |
| Unemployed force | 135,034 | 270,766 | 580,548 |
| Unemployed rate (%) | 1.34% | 2.02% | 3.96% |
| Currently Employed Persons by Major Industrial Groups in Both Series | | | |
| | (Share in %) | (Share in %) | (Share in %) |
| Agriculture, forestry, hunting & fishery | 5,408,177 (54.27%) | 6,562,533 (50.00%) | 6,466,506 (45.99%) |
| Mining & quarrying | 47,336 (0.47%) | (0.00%) | 138,817 (0.99%) |
| Manufacturing | 1,191,985 (11.96%) | 1,418,789 (10.81%) | 1,881,367 (13.38%) |
| Electricity, gas & water | 9,148 (0.09%) | (0.00%) | 41,813 (0.30%) |
| Construction | 344,369 (3.46%) | (0.00%) | 670,068 (4.77%) |
| Wholesales, retail trade, hotel and resta | 1,433,316 (14.38%) | (0.00%) | 2,415,213 (17.18%) |
| Transportation, storage & communication | 231,760 (2.33%) | 2,320,670 (17.68%) | 422,517 (3.00%) |
| Finance, insurance, real estate, & business services | 31,463 (0.32%) | (0.00%) | 65,413 (0.47%) |
| Public services | 1,219,549 (12.24%) | 1,940,913 (14.79%) | 1,881,043 (13.38%) |
| Others | 59,080 (0.59%) | 879,912 (6.70%) | 79,299 (0.56%) |

Source:

- 1) Central Java in Figures (Jawa Tengah Dalam Angka) 1985, Statistic Office of Central Java Province
- 2) Central Java in Figures (Jawa Tengah Dalam Angka) 1990, Statistic Office of Central Java Province
- 3) Central Java in Figures (Jawa Tengah Dalam Angka) 1995, Statistic Office of Central Java Province

Table 2.2.6 LABOUR FORCE IN SEMARANG CITY

| Item | 1985 ¹⁾ | 1990 ²⁾ | 1995 ³⁾ | 1996 ³⁾ |
|---|--------------------|--------------------|--------------------|--------------------|
| Labour Force Participation (Current) of the Household Population, 10 Years & Over in Both Sexes: | | | | |
| Household Population (10-years & over) | 835,577 | 893,708 | 993,298 | 1,016,433 |
| Economic active population (Labour force in total) | 510,821 (100.00%) | 631,885 (100.00%) | 840,903 (100.00%) | 822,176 (100.00%) |
| Participation rate (%) | 61.13% | 70.70% | 84.66% | 80.89% |
| Consist of: | | | | |
| Farmer | 30,910 (6.05%) | 32,957 (5.22%) | 29,966 (3.56%) | 28,749 (5.63%) |
| Farm Labour | 31,399 (6.15%) | 30,995 (4.91%) | 29,980 (3.57%) | 32,771 (6.42%) |
| Fishery | 1,002 (0.20%) | 1,815 (0.29%) | 2,861 (0.34%) | 2,852 (0.56%) |
| Entrepreneur | 5,087 (1.00%) | 10,389 (1.64%) | 17,761 (2.11%) | 15,442 (3.02%) |
| Manufacturing | 90,744 (17.76%) | 143,434 (22.70%) | 169,212 (20.12%) | 175,361 (34.33%) |
| Construction | 83,696 (16.38%) | 95,464 (15.11%) | 109,328 (13.00%) | 105,080 (20.57%) |
| Trader | 38,264 (7.49%) | 43,941 (6.95%) | 70,468 (8.38%) | 73,505 (14.39%) |
| Transportation & communication | 16,537 (3.24%) | 16,934 (2.68%) | 27,137 (3.23%) | 26,806 (5.25%) |
| Public servants & personal services | 82,326 (16.12%) | 82,233 (13.01%) | 89,560 (10.65%) | 90,270 (17.67%) |
| Pensionary | 24,742 (4.84%) | 26,884 (4.25%) | 31,759 (3.78%) | 27,804 (5.44%) |
| Other activities | 106,114 (20.77%) | 145,839 (23.08%) | 263,172 (31.30%) | 243,536 (47.68%) |
| Actual Labour Force Situation | | | | |
| Employment force | 451,599 (100.00%) | 414,965 (100.00%) | 677,713 (100.00%) | 655,326 (100.00%) |
| Employment rate (%) | 88.41% | 65.67% | 80.59% | 79.71% |
| Unemployment force | 59,222 | 216,920 | 163,190 | 166,850 |
| Unemployment rate (%) | 11.59% | 34.33% | 19.41% | 20.29% |

Source:

- 1) Semarang City in Figures (Kotamadya Daerah Tingkat II Semarang Dalam Angka) 1985, Statistic Office of Semarang City
- 2) Semarang City in Figures (Kotamadya Daerah Tingkat II Semarang Dalam Angka) 1990, Statistic Office of Semarang City
- 3) Semarang City in Figures (Kotamadya Daerah Tingkat II Semarang Dalam Angka) 1996, Statistic Office of Semarang City

Table 2.2.7

ECONOMIC ACTIVE POPULATION BY DISTRICTS AND WORKING GROUP
IN SEMARANG CITY

| Kecamatan | Year | Farmer | Farm labour | Fisheries | Entrepreneur | Manufacture | Construction | Trader | Transport | Public Officer | Pensionaries | Others | Total |
|-------------------------|------|--------|-------------|-----------|--------------|-------------|--------------|--------|-----------|----------------|--------------|---------|---------|
| Mijen | 1993 | 4,971 | 8,958 | - | 359 | 1,636 | 1,564 | 1,144 | 610 | 700 | 203 | 3,612 | 23,757 |
| | 1994 | 5,333 | 8,346 | - | 179 | 1,291 | 1,191 | 1,401 | 706 | 875 | 567 | 7,276 | 27,165 |
| | 1995 | 5,712 | 6,875 | - | 195 | 1,425 | 1,302 | 1,523 | 762 | 956 | 612 | 4,874 | 24,236 |
| | 1996 | 4,211 | 6,706 | - | 298 | 5,045 | 3,704 | 1,705 | 549 | 704 | 346 | 4,120 | 27,388 |
| Gunungpahi | 1993 | 13,297 | 8,294 | - | 127 | 1,862 | 1,996 | 1,568 | 391 | 1,257 | 143 | 2,592 | 31,527 |
| | 1994 | 16,554 | 10,366 | - | 158 | 2,166 | 2,553 | 1,998 | 510 | 1,570 | 187 | 3,281 | 39,343 |
| | 1995 | 13,394 | 8,387 | - | 129 | 1,762 | 2,094 | 1,637 | 422 | 1,275 | 168 | 2,663 | 31,931 |
| | 1996 | 13,506 | 8,495 | - | 134 | 1,894 | 2,207 | 1,699 | 428 | 1,296 | 237 | 1,998 | 31,894 |
| Banyuwani | 1993 | 215 | 314 | - | 12 | 3,453 | 12,144 | 1,572 | 350 | 12,297 | 4,328 | 8,017 | 42,702 |
| | 1994 | 356 | 512 | - | 25 | 5,807 | 20,394 | 2,673 | 584 | 20,637 | 7,263 | 13,462 | 71,713 |
| | 1995 | 2,093 | 1,580 | - | 215 | 13,228 | 7,781 | 2,103 | 1,730 | 13,971 | 4,338 | 11,268 | 58,307 |
| | 1996 | 1,803 | 4,553 | - | 249 | 15,076 | 7,305 | 3,291 | 1,125 | 13,268 | 3,065 | 13,404 | 63,139 |
| Tembalang | 1993 | 815 | 1,274 | - | 89 | 10,447 | 7,774 | 1,084 | 829 | 13,268 | 3,065 | 13,404 | 63,139 |
| | 1994 | 1,018 | 1,790 | - | 217 | 21,491 | 16,580 | 2,220 | 1,730 | 17,195 | 3,425 | 2,102 | 67,768 |
| | 1995 | 1,650 | 2,982 | - | 157 | 11,427 | 14,086 | 3,698 | 1,207 | 5,275 | 2,308 | 18,491 | 61,281 |
| | 1996 | 1,492 | 2,967 | - | 163 | 11,572 | 14,026 | 3,913 | 1,196 | 5,311 | 2,382 | 19,246 | 62,268 |
| Pedurungan | 1993 | 1,389 | 3,150 | - | 521 | 16,503 | 8,574 | 2,632 | 2,207 | 7,944 | 1,024 | 14,209 | 58,153 |
| | 1994 | 1,427 | 3,045 | - | 85 | 24,393 | 17,289 | 3,504 | 2,322 | 9,114 | 1,172 | 16,466 | 78,817 |
| | 1995 | 1,273 | 2,949 | - | 187 | 27,357 | 16,730 | 3,941 | 2,848 | 9,357 | 1,461 | 14,343 | 80,446 |
| | 1996 | 1,284 | 2,939 | - | 95 | 19,591 | 12,735 | 4,431 | 3,265 | 10,309 | 1,405 | 10,687 | 66,741 |
| Genuk | 1993 | 3,776 | 2,711 | 5 | 158 | 8,173 | 3,066 | 1,733 | 340 | 985 | 258 | 14,978 | 36,183 |
| | 1994 | 3,262 | 2,319 | 6 | 987 | 12,855 | 4,212 | 1,629 | 638 | 1,303 | 902 | 11,530 | 39,643 |
| | 1995 | 2,584 | 1,796 | - | 806 | 10,077 | 3,784 | 1,456 | 537 | 1,051 | 729 | 12,148 | 34,968 |
| | 1996 | 3,401 | 2,613 | - | 871 | 13,743 | 4,396 | 1,884 | 602 | 1,373 | 197 | 13,068 | 42,148 |
| Semarang Timur | 1993 | - | - | - | 1,273 | 12,831 | 3,870 | 5,849 | 2,283 | 4,463 | 2,359 | 15,232 | 48,160 |
| | 1994 | - | - | - | 2,292 | 13,725 | 3,991 | 16,738 | 4,746 | 3,613 | 1,300 | 32,831 | 79,236 |
| | 1995 | - | - | - | 2,326 | 13,809 | 4,124 | 18,820 | 4,787 | 3,624 | 1,302 | 21,869 | 70,661 |
| | 1996 | - | - | - | 2,314 | 13,768 | 4,120 | 16,613 | 4,545 | 3,361 | 1,178 | 25,258 | 71,157 |
| Semarang Utara | 1993 | - | 2 | 2,536 | 1,559 | 22,416 | 7,140 | 5,508 | 3,874 | 8,629 | 3,885 | 38,225 | 93,774 |
| | 1994 | - | - | 2,750 | 1,689 | 24,306 | 7,744 | 5,977 | 4,196 | 9,358 | 4,214 | 41,446 | 101,680 |
| | 1995 | - | 2 | 2,596 | 5,484 | 24,315 | 10,935 | 6,339 | 3,689 | 9,913 | 2,501 | 31,494 | 97,268 |
| | 1996 | - | - | 2,566 | 5,414 | 24,223 | 10,932 | 6,341 | 3,615 | 9,916 | 2,509 | 34,730 | 100,246 |
| Semarang Tengah | 1993 | - | - | - | 1,827 | 4,203 | 3,531 | 6,255 | 1,253 | 3,315 | 1,646 | 20,562 | 42,592 |
| | 1994 | - | - | - | 2,819 | 6,740 | 7,778 | 9,897 | 2,815 | 3,972 | 3,187 | 33,621 | 70,829 |
| | 1995 | - | - | - | 3,778 | 6,543 | 5,833 | 5,968 | 2,120 | 3,149 | 1,622 | 36,564 | 65,577 |
| | 1996 | - | - | - | 1,650 | 5,449 | 3,013 | 6,877 | 1,979 | 3,011 | 1,646 | 18,617 | 42,242 |
| Semarang Selatan | 1993 | - | - | - | 455 | 8,086 | 6,478 | 3,511 | 708 | 8,767 | 2,627 | 5,069 | 35,701 |
| | 1994 | - | 5 | - | 780 | 14,109 | 11,842 | 9,363 | 1,659 | 12,391 | 4,510 | 12,349 | 67,008 |
| | 1995 | - | - | - | 483 | 9,123 | 7,849 | 5,891 | 933 | 7,688 | 2,852 | 7,734 | 42,553 |
| | 1996 | - | - | - | 479 | 10,173 | 9,126 | 5,543 | 988 | 6,842 | 2,602 | 12,132 | 47,885 |
| Gayamsari | 1993 | 46 | 133 | 34 | 617 | 8,968 | 6,848 | 1,274 | 755 | 3,280 | 741 | 5,866 | 28,562 |
| | 1994 | 63 | 184 | 48 | 849 | 12,339 | 9,427 | 1,762 | 1,040 | 4,516 | 1,021 | 8,070 | 39,319 |
| | 1995 | 46 | 135 | 36 | 619 | 8,982 | 6,861 | 1,284 | 760 | 3,289 | 745 | 5,879 | 28,636 |
| | 1996 | 45 | 132 | 37 | 620 | 8,981 | 6,243 | 1,295 | 761 | 3,287 | 752 | 5,884 | 28,037 |
| Candisari | 1993 | - | - | - | 420 | 5,298 | 7,997 | 5,678 | 1,629 | 5,979 | 1,984 | 5,644 | 34,629 |
| | 1994 | - | - | - | 907 | 9,083 | 13,536 | 10,985 | 2,823 | 10,130 | 3,381 | 12,194 | 63,039 |
| | 1995 | - | - | - | 523 | 8,128 | 12,693 | 8,117 | 2,169 | 7,564 | 3,700 | 9,406 | 52,300 |
| | 1996 | - | - | - | 543 | 8,173 | 12,743 | 8,132 | 2,204 | 7,589 | 3,710 | 5,438 | 48,532 |
| Gajahmungkur | 1993 | - | - | - | 349 | 3,210 | 2,835 | 1,373 | 1,779 | 9,166 | 5,279 | 20,178 | 44,169 |
| | 1994 | - | - | - | 348 | 3,387 | 3,055 | 1,383 | 1,998 | 9,187 | 5,299 | 18,594 | 43,251 |
| | 1995 | - | - | - | 389 | 3,410 | 3,129 | 1,394 | 1,968 | 9,296 | 5,282 | 12,138 | 37,006 |
| | 1996 | - | - | - | 207 | 6,435 | 3,196 | 2,482 | 1,801 | 10,464 | 4,120 | 7,141 | 35,846 |
| Semarang Barat | 1993 | 68 | 502 | 80 | 861 | 16,065 | 4,450 | 4,304 | 2,142 | 8,596 | 3,067 | 53,806 | 93,941 |
| | 1994 | 75 | 590 | 97 | 1,078 | 19,762 | 5,386 | 5,343 | 2,602 | 10,451 | 3,727 | 65,568 | 114,679 |
| | 1995 | 56 | 460 | 76 | 893 | 16,467 | 4,448 | 4,312 | 2,130 | 8,633 | 3,081 | 54,302 | 95,078 |
| | 1996 | 39 | 467 | 69 | 893 | 16,469 | 4,452 | 4,553 | 2,154 | 8,935 | 3,021 | 53,750 | 94,802 |
| Ngaliyan | 1993 | 7,168 | 8,784 | - | 869 | 7,176 | 3,705 | 2,615 | 917 | 2,431 | 979 | 9,633 | 44,277 |
| | 1994 | 3,372 | 3,959 | - | 1,589 | 13,794 | 5,328 | 3,760 | 1,319 | 5,683 | 568 | 17,640 | 57,012 |
| | 1995 | 2,354 | 2,755 | - | 1,115 | 9,707 | 5,776 | 2,685 | 917 | 3,967 | 902 | 14,971 | 45,149 |
| | 1996 | 2,212 | 2,674 | - | 1,483 | 11,867 | 5,179 | 3,441 | 1,409 | 4,051 | 462 | 13,241 | 46,019 |
| Tugu | 1993 | 823 | 2,938 | 239 | 85 | 2,862 | 2,725 | 1,167 | 122 | 559 | 166 | 1,849 | 13,535 |
| | 1994 | 1,019 | 2,654 | 303 | 108 | 3,641 | 2,137 | 1,354 | 160 | 669 | 182 | 5,500 | 17,727 |
| | 1995 | 804 | 2,059 | 153 | 464 | 3,152 | 1,903 | 1,097 | 138 | 552 | 156 | 5,028 | 15,506 |
| | 1996 | 756 | 1,225 | 180 | 29 | 2,902 | 1,703 | 1,305 | 185 | 553 | 172 | 4,822 | 13,832 |
| Total in whole Semarang | 1993 | 32,568 | 37,060 | 2,894 | 9,581 | 133,189 | 84,697 | 47,267 | 20,189 | 86,374 | 29,476 | 221,316 | 704,611 |
| | 1994 | 32,479 | 33,770 | 3,204 | 14,110 | 188,889 | 132,443 | 79,987 | 29,848 | 120,664 | 40,905 | 301,930 | 978,229 |
| | 1995 | 29,966 | 29,980 | 2,861 | 17,763 | 168,912 | 109,328 | 70,465 | 27,137 | 89,560 | 31,759 | 263,172 | 840,903 |
| | 1996 | 28,749 | 32,771 | 2,852 | 15,442 | 175,361 | 105,080 | 73,505 | 26,806 | 90,270 | 27,804 | 243,536 | 822,176 |

Source: Semarang City in Figures (Kotamadya Daerah Tk.II Semarang Dalam Angka) 1992, 1993, 1994, 1995 and 1996, Statistic Office of Semarang City.

Table 2.2.8

GROSS DOMESTIC PRODUCT IN INDONESIA

| Industry of origin | GDP at current price | | | Annual average growth ratio | GDP at 1993 - constant price | | | Annual average growth ratio (%) |
|---|----------------------|--------------------|--------------------|-----------------------------|------------------------------|--------------------|--------------------|---------------------------------|
| | 1994 ¹⁾ | 1995 ²⁾ | 1996 ²⁾ | | 1994 ¹⁾ | 1995 ²⁾ | 1996 ²⁾ | |
| A. Gross Domestic Product (GDP) | | | | | | | | |
| Agriculture, livestock & fisheries | 66,072 | 77,896 | 88,041 | 15.46% | 59,291 | 61,885 | 63,743 | 3.69% |
| Mining & quarrying | 33,507 | 40,195 | 45,916 | 17.10% | 33,262 | 35,502 | 37,569 | 6.28% |
| Crude petroleum and natural gas | 23,070 | 25,410 | 28,120 | 10.40% | 23,720 | 23,720 | 24,063 | 0.72% |
| Others | 10,437 | 14,785 | 17,796 | 31.01% | 9,542 | 11,782 | 13,506 | 19.05% |
| Manufacturing | 89,241 | 109,669 | 135,581 | 23.26% | 82,649 | 91,537 | 102,260 | 11.23% |
| Oil and gas manufacturing | 10,439 | 11,399 | 14,194 | 16.86% | 10,269 | 9,782 | 10,864 | 3.16% |
| Petroleum refinery | 5,855 | 6,599 | 8,340 | 19.54% | 5,548 | 5,392 | 6,292 | 6.94% |
| Liquefied natural gas | 4,584 | 4,800 | 5,854 | 13.34% | 4,721 | 4,390 | 4,572 | -1.43% |
| Others | 78,802 | 98,270 | 121,387 | 24.11% | 72,380 | 81,755 | 91,396 | 12.37% |
| Electricity, gas & water | 4,577 | 5,655 | 6,594 | 20.08% | 3,703 | 4,292 | 4,841 | 14.35% |
| Construction | 28,017 | 34,452 | 52,025 | 36.99% | 25,858 | 29,198 | 32,924 | 12.84% |
| Wholesale & retail trade, restaurant | 63,859 | 75,640 | 88,878 | 17.97% | 59,504 | 64,231 | 69,372 | 7.97% |
| Transport & communication | 27,353 | 30,795 | 34,926 | 13.00% | 25,189 | 27,329 | 29,701 | 8.59% |
| Banking, insurance & real estate | 34,506 | 39,510 | 44,371 | 13.40% | 30,901 | 34,313 | 37,401 | 10.02% |
| Public services | 22,755 | 26,555 | 29,753 | 14.37% | 22,752 | 23,046 | 23,338 | 1.28% |
| Private services | 12,335 | 14,127 | 16,545 | 15.82% | 11,533 | 12,360 | 13,272 | 7.27% |
| GDP in total | 515,409 | 615,757 | 738,321 | 19.69% | 480,822 | 520,514 | 565,114 | 8.41% |
| GDP per capita (Rp.10 ³) | 2,681 | 3,153 | 3,722 | 12.45% | 2,501 | 2,665 | 2,849 | 6.72% |
| Population (10 ³) | 192,217 | 195,283 | 198,343 | 1.58% | 192,217 | 195,283 | 198,343 | 1.58% |
| B. Share Rate of Gross Domestic Product (% of GDP) | | | | | | | | |
| Agriculture, livestock & fisheries | 12.82% | 12.65% | 11.92% | -3.53% | 12.33% | 11.89% | 11.28% | -4.36% |
| Mining & quarrying | 6.50% | 6.53% | 6.22% | -2.16% | 6.92% | 6.82% | 6.65% | -1.97% |
| Crude petroleum and natural gas | 4.48% | 4.13% | 3.81% | -7.76% | 4.93% | 4.56% | 4.26% | -7.09% |
| Others | 2.02% | 2.40% | 2.41% | 9.48% | 1.98% | 2.26% | 2.39% | 9.82% |
| Manufacturing | 17.31% | 17.81% | 18.36% | 2.98% | 17.19% | 17.59% | 18.10% | 2.60% |
| Oil and gas manufacturing | 2.03% | 1.85% | 1.92% | -2.38% | 2.14% | 1.88% | 1.92% | -4.86% |
| Petroleum refinery | 1.14% | 1.07% | 1.13% | -0.13% | 1.15% | 1.04% | 1.11% | -1.37% |
| Liquefied natural gas | 0.89% | 0.78% | 0.79% | -5.32% | 0.98% | 0.84% | 0.81% | -9.09% |
| Others | 15.29% | 15.96% | 16.44% | 3.70% | 15.05% | 15.71% | 16.17% | 3.65% |
| Electricity, gas & water | 0.89% | 0.92% | 0.89% | 0.33% | 0.77% | 0.82% | 0.86% | 5.48% |
| Construction | 5.44% | 5.60% | 7.05% | 14.43% | 5.38% | 5.61% | 5.83% | 4.08% |
| Wholesale & retail trade, restaurant | 12.39% | 12.28% | 12.04% | -1.43% | 12.38% | 12.34% | 12.28% | -0.40% |
| Transport & communication | 5.31% | 5.00% | 4.73% | -5.59% | 5.24% | 5.25% | 5.26% | 0.16% |
| Banking, insurance & real estate | 6.69% | 6.42% | 6.01% | -5.25% | 6.43% | 6.59% | 6.62% | 1.49% |
| Public services | 4.41% | 4.31% | 4.03% | -4.44% | 4.73% | 4.43% | 4.13% | -6.58% |
| Private services | 2.39% | 2.29% | 2.24% | -3.23% | 2.40% | 2.37% | 2.35% | -1.05% |
| Sub-Total | 100.00% | 100.00% | 100.00% | | 100.00% | 100.00% | 100.00% | |

Source: 1) Statistical Year Book of Indonesia 1995, Biro Pusat Statistik Indonesia.

2) Statistical Year Book of Indonesia 1996, Biro Pusat Statistik Indonesia.

Table 2.2.9 GROSS REGIONAL DOMESTIC PRODUCT IN CENTRAL JAVA PROVINCE

| Industry of origin | GDP at current price | | | Annual average growth ratio (%) | GDP at 1993 - constant price | | | Annual average growth ratio (%) |
|---|------------------------|--------------------|--------------------|---------------------------------|------------------------------|--------------------|--------------------|---------------------------------|
| | 1994 ¹⁾ | 1995 ²⁾ | 1996 ²⁾ | | 1994 ¹⁾ | 1995 ²⁾ | 1996 ²⁾ | |
| | (Rp. 10 ⁹) | | | | | | | |
| A. Gross Regional Domestic Product (GRDP) | | | | | | | | |
| Agriculture, livestock & fisheries | 8,779 | 10,635 | - | 21.14% | 7,782 | 8,211 | - | 5.51% |
| Mining & quarrying | 452 | 527 | - | 16.59% | 433 | 472 | - | 9.01% |
| Manufacturing | 12,454 | 14,863 | - | 19.34% | 11,322 | 12,260 | - | 8.28% |
| Electricity, gas & water | 272 | 331 | - | 21.69% | 265 | 304 | - | 14.72% |
| Construction | 1,768 | 1,983 | - | 12.16% | 1,689 | 1,808 | - | 7.05% |
| Wholesale & retail trade, restaurants & hotels | 8,002 | 9,673 | - | 20.88% | 7,581 | 8,364 | - | 10.33% |
| Transport & communication | 1,454 | 1,722 | - | 18.43% | 1,379 | 1,511 | - | 9.57% |
| Banking, insurance & real estate | 1,965 | 2,275 | - | 15.78% | 1,869 | 1,974 | - | 5.62% |
| Public and private services | 4,158 | 4,614 | - | 10.97% | 4,026 | 4,128 | - | 2.53% |
| GRDP in total | 39,304 | 46,623 | n.a | 18.62% | 36,346 | 39,032 | n.a | 7.39% |
| GRDP per capita (Rp. 10 ³) | 1,333 | 1,570 | n.a | 17.81% | 1,233 | 1,315 | n.a | 6.66% |
| Population (10 ³) | 29,485 | 29,688 | 29,881 | 0.69% | 29,485 | 29,688 | 29,881 | 0.67% |
| B. Share Rate of Gross Domestic Product (% of GDP) | | | | | | | | |
| Agriculture, livestock & fisheries | 22.34% | 22.81% | - | 2.12% | 21.41% | 21.04% | - | -1.75% |
| Mining & quarrying | 1.15% | 1.13% | - | -1.71% | 1.19% | 1.21% | - | 1.51% |
| Manufacturing | 31.69% | 31.88% | - | 0.61% | 31.15% | 31.41% | - | 0.83% |
| Electricity, gas & water | 0.69% | 0.71% | - | 2.59% | 0.73% | 0.78% | - | 6.82% |
| Construction | 4.50% | 4.25% | - | -5.45% | 4.65% | 4.63% | - | -0.32% |
| Wholesale & retail trade, restaurants & hotels | 20.36% | 20.75% | - | 1.91% | 20.86% | 21.43% | - | 2.74% |
| Transport & communication | 3.70% | 3.69% | - | -0.16% | 3.79% | 3.87% | - | 2.03% |
| Banking, insurance & real estate | 5.00% | 4.88% | - | -2.40% | 5.14% | 5.06% | - | -1.65% |
| Public and private services | 10.58% | 9.90% | - | -6.45% | 11.08% | 10.58% | - | -4.52% |
| Sub-Total | 100.00% | 100.00% | n.a | | 100.00% | 100.00% | n.a | |

Source:

Central Java in Figures 1996 (Jawa Tengah Dalam Angka 1996), Kantor Statistik Propinsi Jawa Tengah.

(Note:) * Annual average growth ratio between 1994 and 1995.

** Based on population projection reported in the Statistical Year Book of Indonesia 1996.

- Lack of data.

n.a.: Not available.

Table 2.2.10 GROSS REGIONAL DOMESTIC PRODUCT IN SEMARANG CITY

(Rp.10³)

| Industry of origin | GDP at current price | | | Annual average growth ratio (%) | GDP at 1993 - constant price | | | Annual average growth ratio (%) |
|---|----------------------|--------------------|--------------------|---------------------------------|------------------------------|--------------------|--------------------|---------------------------------|
| | 1994 ¹⁾ | 1995 ²⁾ | 1996 ²⁾ | | 1994 ¹⁾ | 1995 ²⁾ | 1996 ²⁾ | |
| A. Gross Regional Domestic Product (GRDP) | | | | | | | | |
| Agriculture, livestock & fisheries | 89 | 96 | - | 7.87% | 76 | 77 | - | 1.32% |
| Mining & quarrying | 10 | 12 | - | 20.00% | 10 | 10 | - | 0.00% |
| Manufacturing | 1,210 | 1,513 | - | 25.04% | 1,150 | 1,348 | - | 17.22% |
| Electricity, gas & water | 86 | 97 | - | 12.79% | 82 | 86 | - | 4.88% |
| Construction | 330 | 374 | - | 13.33% | 317 | 342 | - | 7.89% |
| Wholesale & retail trade, restaurants | 1,474 | 1,768 | - | 19.95% | 1,353 | 1,516 | - | 12.05% |
| Transport & communication | 289 | 333 | - | 15.22% | 277 | 300 | - | 8.30% |
| Banking, insurance & real estate | 366 | 436 | - | 19.13% | 356 | 394 | - | 10.67% |
| Public and private services | 607 | 679 | - | 11.86% | 585 | 608 | - | 3.93% |
| GRDP in total | 4,461 | 5,308 | n.a | 18.99% | 4,206 | 4,681 | n.a | 11.29% |
| GRDP per capita (Rp.10 ³) | 3,699 | 4,305 | n.a | 16.38% | 3,488 | 3,796 | n.a | 8.86% |
| Population (10 ³) | 1,206 | 1,233 | 1,252 | 2.24% | 1,206 | 1,233 | 1,252 | 1.89% |
| B. Share Rate of Gross Domestic Product (% of GDP) | | | | | | | | |
| Agriculture, livestock & fisheries | 2.00% | 1.81% | - | -9.35% | 1.81% | 1.64% | - | -8.97% |
| Mining & quarrying | 0.22% | 0.23% | - | 0.85% | 0.24% | 0.21% | - | -10.15% |
| Manufacturing | 27.12% | 28.50% | - | 5.09% | 27.34% | 28.80% | - | 5.32% |
| Electricity, gas & water | 1.93% | 1.83% | - | -5.21% | 1.95% | 1.84% | - | -5.76% |
| Construction | 7.40% | 7.05% | - | -4.75% | 7.54% | 7.31% | - | -3.06% |
| Wholesale & retail trade, restaurants | 33.04% | 33.31% | - | 0.81% | 32.17% | 32.39% | - | 0.68% |
| Transport & communication | 6.48% | 6.27% | - | -3.16% | 6.59% | 6.41% | - | -2.69% |
| Banking, insurance & real estate | 8.20% | 8.21% | - | 0.12% | 8.46% | 8.42% | - | -0.56% |
| Public and private services | 13.61% | 12.79% | - | -5.99% | 13.91% | 12.99% | - | -6.61% |
| Sub-Total | 100.00% | 100.00% | n.a | | 100.00% | 100.00% | n.a | |

Source: Central Java in Figures 1996 (Jawa Tengah Dalam Angka 1996), Kantor Statistik Propinsi Jawa Tengah.

Note:)* Annual average growth ratio between 1994 and 1995.

** Based on population projection reported in the Statistical Year Book of Indonesia 1996.

- Lack of data.

n.a.: Not available.

Table 2.2.11 GOVERNMENT FINANCE OF INDONESIA IN BUDGET

(Rp.10³)

| Industry of origin | 1993/94 ¹⁾ | | 1994/95 ¹⁾ | | 1995/96 ¹⁾ | | 1996/97 ¹⁾ | | 1997/98 ²⁾ | | 1998/99 ²⁾ | |
|------------------------------------|-----------------------|---------------|----------------------------------|---------------|----------------------------------|---------------|----------------------------------|----------------|----------------------------------|----------------|----------------------------------|--|
| | Amount | Amount | Change against previous year (%) | Amount | Change against previous year (%) | Amount | Change against previous year (%) | Amount | Change against previous year (%) | Amount | Change against previous year (%) | |
| I. REVENUE | | | | | | | | | | | | |
| A. Domestic Revenue | 52,769 | 59,738 | 13.21% | 66,265 | 10.93% | 78,203 | 18.02% | 88,061 | 12.61% | 114,966 | 30.55% | |
| 1. Oil and natural gas | 15,128 | 12,851 | -15.05% | 13,276 | 3.31% | 14,120 | 6.36% | 14,871 | 5.32% | 34,582 | 132.55% | |
| Oil | - | - | n.a. | - | n.a. | - | n.a. | 10,688 | n.a. | 24,061 | n.a. | |
| Natural gas | - | - | n.a. | - | n.a. | - | n.a. | 4,183 | n.a. | 10,521 | n.a. | |
| 2. Non-pil and non-gas | 37,641 | 46,887 | 24.56% | 52,989 | 13.01% | 64,083 | 20.94% | 73,190 | 14.21% | 80,384 | 9.83% | |
| Income tax | 14,848 | 18,843 | 26.91% | 19,239 | 2.10% | 23,708 | 23.23% | 29,118 | 22.82% | 25,618 | -12.02% | |
| Value added tax on goods and serv | 11,682 | 13,239 | 13.33% | 16,655 | 25.80% | 21,788 | 30.82% | 24,601 | 12.91% | 27,872 | 13.30% | |
| Import duties | 3,106 | 3,443 | 10.85% | 3,543 | 2.90% | 3,451 | -2.60% | 3,322 | -3.74% | 3,562 | 7.22% | |
| Excise duties | 2,498 | 2,623 | 5.00% | 3,299 | 25.77% | 4,033 | 22.25% | 4,436 | 9.99% | 4,922 | 10.96% | |
| Export tax | 30 | 16 | -46.67% | 45 | 181.25% | 160 | 255.56% | 100 | -37.50% | 115 | 15.00% | |
| Property tax | 1,320 | 1,629 | 23.41% | 1,923 | 18.05% | 2,277 | 18.41% | 2,505 | 10.01% | 3,411 | 36.17% | |
| Other taxes | 364 | 282 | -22.53% | 319 | 13.12% | 570 | 78.68% | 633 | 11.05% | 540 | -14.69% | |
| Non-tax revenues | 3,583 | 4,293 | 19.82% | 6,491 | 51.20% | 7,268 | 11.97% | 8,226 | 13.18% | 14,344 | 74.37% | |
| Fuel sales profit | 210 | 2,519 | 1099.52% | 1,475 | -41.45% | 828 | -43.86% | 249 | -69.93% | - | -100.00% | |
| B. Development Revenues | 9,553 | 10,012 | 4.80% | 11,759 | 17.45% | 12,413 | 5.56% | 13,026 | 4.94% | 32,255 | 147.62% | |
| 1. Program aid | 427 | - | -100.00% | - | 0.00% | - | 0.00% | - | 0.00% | 8,500 | 0.00% | |
| 2. Projects aid | 9,126 | 10,012 | 9.71% | 11,759 | 17.45% | 12,413 | 5.56% | 13,026 | 4.94% | 23,755 | 82.37% | |
| TOTAL | 62,322 | 69,750 | 11.92% | 78,024 | 11.86% | 90,616 | 16.14% | 101,087 | 11.56% | 147,221 | 45.64% | |
| II. EXPENDITURE | | | | | | | | | | | | |
| A. Routine Expenditures | 37,095 | 42,351 | 14.17% | 47,241 | 11.55% | 56,114 | 18.78% | 62,159 | 10.77% | 97,832 | 57.39% | |
| 1. Civil services | 10,894 | 13,011 | 19.43% | 15,347 | 17.95% | 18,281 | 19.12% | 21,192 | 15.92% | 22,591 | 6.60% | |
| Salaries/pension | - | - | n.a. | - | n.a. | - | n.a. | 17,048 | n.a. | 17,406 | 2.10% | |
| Rice allowance | - | - | n.a. | - | n.a. | - | n.a. | 1,310 | n.a. | 1,588 | 21.22% | |
| Food allowance | - | - | n.a. | - | n.a. | - | n.a. | 1,234 | n.a. | 1,484 | 20.26% | |
| Other benefits | - | - | n.a. | - | n.a. | - | n.a. | 1,010 | n.a. | 1,155 | 14.36% | |
| Diplomat services | - | - | n.a. | - | n.a. | - | n.a. | 590 | n.a. | 958 | 62.37% | |
| 2. Goods procurement | 2,980 | 3,750 | 25.84% | 4,745 | 26.53% | 6,589 | 38.86% | 8,895 | 35.00% | 10,909 | 22.64% | |
| Domestic | - | - | n.a. | - | n.a. | - | n.a. | 8,478 | n.a. | 10,060 | 18.66% | |
| External | - | - | n.a. | - | n.a. | - | n.a. | 417 | n.a. | 849 | 103.60% | |
| 3. Subsidies to autonomous regions | 6,029 | 7,095 | 17.68% | 8,410 | 18.53% | 10,012 | 19.05% | 11,536 | 15.22% | 12,284 | 6.48% | |
| Personnel expenses | - | - | n.a. | - | n.a. | - | n.a. | 10,968 | n.a. | 11,601 | 5.77% | |
| Non-personnel expenses | - | - | n.a. | - | n.a. | - | n.a. | 568 | n.a. | 683 | 20.25% | |
| 4. Debt service payment | 16,712 | 17,970 | 7.53% | 18,215 | 1.36% | 20,227 | 11.05% | 19,571 | -3.24% | 39,740 | 103.06% | |
| Domestic | - | - | n.a. | - | n.a. | - | n.a. | 334 | n.a. | 1,940 | 480.84% | |
| External | - | - | n.a. | - | n.a. | - | n.a. | 19,237 | n.a. | 37,800 | 96.50% | |
| 5. Other expenditures | 480 | 525 | 9.38% | 524 | -0.19% | 1,005 | 91.79% | 965 | -3.98% | 12,308 | 1175.44% | |
| Petroleum subsidies | - | - | n.a. | - | n.a. | - | n.a. | - | n.a. | 7,456 | 100.00% | |
| Others | - | - | n.a. | - | n.a. | - | n.a. | 965 | n.a. | 4,852 | 402.80% | |
| B. Development Expenditures | 25,227 | 27,398 | 8.61% | 30,783 | 12.35% | 34,502 | 12.08% | 38,928 | 12.83% | 49,392 | 26.88% | |
| 1. Rupiah financing | 16,101 | 17,386 | 7.98% | 19,024 | 9.42% | 22,089 | 16.11% | 25,902 | 17.26% | 25,637 | -1.02% | |
| 2. Projects aid | 9,126 | 10,012 | 9.71% | 11,759 | 17.45% | 12,413 | 5.56% | 13,026 | 4.94% | 23,755 | 82.37% | |
| Sub-Total | 62,322 | 69,749 | 11.92% | 78,024 | 11.86% | 90,616 | 16.14% | 101,087 | 11.56% | 147,224 | 45.64% | |

Source 1) Statistical Year Book of Indonesia 1995, Biro Pusat Statistik Indonesia.

2) Statistical Year Book of Indonesia 1996, Biro Pusat Statistik Indonesia.

Table 2.2.12 GOVERNMENT FINANCE OF INDONESIA IN REALIZATION

(Rp.10⁷)

| Industry of origin | 1992/93 ¹⁾ | | 1993/94 ²⁾ | | 1994/95 ²⁾ | | 1995/96 ²⁾ | |
|------------------------------------|-----------------------|---------------|----------------------------------|---------------|----------------------------------|---------------|----------------------------------|--|
| | Amount | Amount | Change against previous year (%) | Amount | Change against previous year (%) | Amount | Change against previous year (%) | |
| I. REVENUE | | | | | | | | |
| A. Domestic Revenue | 48,863 | 56,113 | 14.84% | 61,370 | 9.37% | 71,558 | 16.60% | |
| 1. Oil and natural gas | 15,331 | 12,503 | -18.45% | 13,399 | 7.17% | 14,849 | 10.82% | |
| 2. Non-pil and non-gas | 33,532 | 43,610 | 30.05% | 47,971 | 10.00% | 56,709 | 18.22% | |
| Income tax | 12,516 | 14,759 | 17.92% | 18,350 | 24.33% | 20,520 | 11.83% | |
| Value added tax on goods and serv | 10,742 | 13,944 | 29.81% | 14,087 | 1.03% | 18,350 | 30.26% | |
| Import duties | 3,223 | 3,555 | 10.30% | 3,218 | -9.48% | 3,248 | 0.93% | |
| Excise duties | 2,242 | 2,626 | 17.13% | 3,001 | 14.28% | 3,668 | 22.23% | |
| Export tax | 9 | 14 | 55.56% | 120 | 757.14% | 201 | 67.50% | |
| Property tax | 1,107 | 1,484 | 34.06% | 1,632 | 9.97% | 1,924 | 17.89% | |
| Other taxes | 253 | 283 | 11.86% | 303 | 7.07% | 510 | 68.32% | |
| Non-tax revenues | 3,440 | 5,904 | 71.63% | 5,997 | 1.58% | 7,801 | 30.08% | |
| Fuel sales profit | - | 1,041 | 100.00% | 1,263 | 21.33% | 487 | -61.44% | |
| B. Development Revenues | 11,098 | 10,753 | -3.11% | 10,983 | 2.14% | 11,170 | 1.70% | |
| 1. Program aid | 517 | - | -100.00% | - | 0.00% | - | 0.00% | |
| 2. Projects aid | 10,581 | 10,753 | 1.63% | 10,983 | 2.14% | 11,170 | 1.70% | |
| TOTAL | 59,961 | 66,866 | 11.52% | 72,353 | 8.21% | 82,728 | 14.34% | |
| II. EXPENDITURE | | | | | | | | |
| A. Routine Expenditures | 33,605 | 40,290 | 19.89% | 43,179 | 7.17% | 52,541 | 21.68% | |
| 1. Civil services | 9,554 | 11,145 | 16.65% | 13,069 | 17.26% | 15,372 | 17.62% | |
| Salaries/pension | 7,595 | 9,145 | 20.41% | 10,490 | 14.71% | 12,351 | 17.74% | |
| Rice allowance | 891 | 834 | -6.40% | 1,038 | 24.46% | 1,134 | 9.25% | |
| Food allowance | 479 | 493 | 2.92% | 801 | 62.47% | 866 | 8.11% | |
| Other benefits | 315 | 418 | 32.70% | 396 | -5.26% | 572 | 44.44% | |
| Diplomat services | 274 | 255 | -6.93% | 344 | 34.90% | 449 | 30.52% | |
| 2. Goods procurement | 2,928 | 3,032 | 3.55% | 4,296 | 41.69% | 5,274 | 22.77% | |
| Domestic | 2,681 | 2,848 | 6.23% | 4,071 | 42.94% | 4,969 | 22.06% | |
| External | 247 | 184 | -25.51% | 225 | 22.28% | 305 | 35.56% | |
| 3. Subsidies to autonomous regions | 5,383 | 6,909 | 28.35% | 7,188 | 4.04% | 8,344 | 16.08% | |
| Personnel expenses | 4,996 | 6,575 | 31.61% | 6,756 | 2.75% | 7,863 | 16.39% | |
| Non-personnel expenses | 387 | 334 | -13.70% | 432 | 29.34% | 481 | 11.34% | |
| 4. Debt service payment | 14,524 | 17,163 | 18.17% | 18,422 | 7.34% | 19,906 | 8.06% | |
| Domestic | 275 | 121 | -56.00% | 204 | 68.60% | 251 | 23.04% | |
| External | 14,249 | 17,042 | 19.60% | 18,218 | 6.90% | 19,655 | 7.89% | |
| 5. Other expenditures | 1,216 | 2,041 | 67.85% | 204 | -90.00% | 3,645 | 1686.76% | |
| B. Development Expenditures | 26,906 | 28,428 | 5.66% | 29,163 | 2.59% | 29,812 | 2.23% | |
| 1. Rupiah financing | 16,325 | 17,675 | 8.27% | 18,180 | 2.86% | 18,642 | 2.54% | |
| 2. Projects aid | 10,581 | 10,753 | 1.63% | 10,983 | 2.14% | 11,170 | 1.70% | |
| TOTAL | 60,511 | 68,718 | 13.56% | 72,342 | 5.27% | 82,353 | 13.84% | |

Source: 1) Statistical Year Book of Indonesia 1995, Biro Pusat Statistik Indonesia.

2) Statistical Year Book of Indonesia 1996, Biro Pusat Statistik Indonesia.

(Note) - Not clarified

Table 2.2.13 REALIZED LOCAL GOVERNMENT FINANCE IN CENTRAL JAVA PROVINCE

(Rp. 10⁶)

| Items | 1992/93 | | 1993/94 | | 1994/95 | | 1995/96 | |
|---|----------------|----------------------------------|----------------|----------------------------------|----------------|----------------------------------|----------------|----------------------------------|
| | Amount | Change against previous year (%) | Amount | Change against previous year (%) | Amount | Change against previous year (%) | Amount | Change against previous year (%) |
| REVENUE | | | | | | | | |
| 1. Local Tax | 92,939 | 27.18% | 118,196 | 44.42% | 170,703 | 44.42% | 229,850 | 34.65% |
| Tax on motorized vehicles | 45,499 | 11.90% | 50,913 | 11.90% | 63,056 | 23.85% | 89,843 | 42.48% |
| Motor car transfer duties | 44,986 | 43.70% | 64,645 | 43.70% | 104,632 | 61.86% | 135,504 | 29.51% |
| Unpaid taxes | 942 | 7.32% | 1,011 | 7.32% | 1,037 | 2.57% | 1,538 | 48.31% |
| Fine taxes | 1,512 | 7.61% | 1,627 | 7.61% | 1,978 | 21.57% | 2,965 | 49.90% |
| 2. Retribution Receipt | 20,278 | 12.75% | 22,863 | 12.75% | 29,350 | 28.37% | 36,206 | 23.36% |
| 3. Receipts from local Government corporation | 3,251 | -17.53% | 2,681 | -17.53% | 2,965 | 10.59% | 3,163 | 6.68% |
| 4. Receipt from official services | 1,364 | 8.06% | 1,474 | 8.06% | 1,517 | 2.92% | 1,637 | 7.91% |
| 5. Other receipts | 2,750 | 78.44% | 4,907 | 78.44% | 5,670 | 15.55% | 9,002 | 58.77% |
| 6. Tax shares | 9,912 | 22.29% | 12,121 | 22.29% | 13,745 | 13.40% | 17,414 | 26.69% |
| 7. Non tax shares | 3,536 | 76.19% | 6,230 | 76.19% | 5,336 | -14.35% | 6,202 | 16.23% |
| TOTAL | 134,030 | 25.70% | 168,472 | 25.70% | 229,286 | 36.10% | 303,474 | 32.36% |

Source: Central Java in Figures 1996 (Jawa Tengah Dalam Angka 1996), Kantor Statistik Propinsi Jawa Tengah.

Table 2.2.14 REALIZED LOCAL GOVERNMENT FINANCE IN SEMARANG CITY

(Rp.10⁹)

| Items | 1992/93 ¹⁾ | | Change against previous year (%) | 1994/95 ³⁾ | | 1995/96 ⁴⁾ | |
|---|-----------------------|--------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|
| | Amount | Amount | | Amount | Change against previous year (%) | Amount | Change against previous year (%) |
| REVENUE | | | | | | | |
| A. Local Revenue | 56,403 | 69,076 | 22.47% | 89,621 | 29.74% | 113,896 | 27.09% |
| 1. Remainder from the account in pervious year at the begging of the year | 1,075 | 1,620 | 50.70% | 3,705 | 128.70% | 6,731 | 81.67% |
| 2. Local revenue | 24,861 | 25,722 | 3.46% | 33,460 | 30.08% | 38,275 | 14.39% |
| Local tax | 9,820 | 12,091 | 23.13% | 17,254 | 42.70% | 18,503 | 7.24% |
| Retribution | 7,741 | 10,000 | 29.18% | 13,694 | 36.94% | 14,811 | 8.16% |
| Receipts from local Government corporation | 512 | 472 | -7.81% | 368 | -22.03% | 914 | 148.37% |
| Receipts from official servies | 2,184 | 2,154 | -1.37% | 5 | -99.77% | 2,664 | 53180.00% |
| Other receipts | 4,604 | 1,005 | -78.17% | 2,139 | 112.84% | 1,382 | -35.39% |
| 3. Tax shares | 5,231 | 7,687 | 46.95% | 11,058 | 43.85% | 13,674 | 23.66% |
| Tax shares | 4,585 | 6,925 | 51.04% | 10,182 | 47.03% | 12,261 | 20.42% |
| Non tax shares | 646 | 762 | 17.96% | 876 | 14.96% | 1,413 | 61.30% |
| 4. Contribution and local aid | 22,936 | 26,547 | 15.74% | 31,863 | 20.02% | 34,957 | 9.71% |
| Contribution | 11,189 | 13,745 | 22.84% | 14,912 | 8.49% | 16,944 | 13.63% |
| Local aid | 11,747 | 12,802 | 8.98% | 16,951 | 32.41% | 18,013 | 6.27% |
| 5. Development aid | 2,300 | 7,500 | 226.09% | 9,535 | 27.13% | 20,259 | 112.47% |
| Local Government development loans | 2,300 | 7,500 | 226.09% | 9,535 | 27.13% | 20,259 | 112.47% |
| Other loans for local Government corporation | 0 | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| B. Cash Adjustment and Subsidies | 11,537 | - | n.a. | 17,170 | n.a. | 25,138 | 46.41% |
| TOTAL | 67,940 | 69,076 | * n.a. | 106,791 | n.a. | 139,034 | 30.19% |
| EXPENDITURE | | | | | | | |
| A. Routine Expenditures | 29,556 | 35,717 | 20.85% | 46,487 | 30.15% | 81,403 | 75.11% |
| I. Civil service | 12,137 | 14,106 | 16.22% | 16,492 | 16.91% | 18,102 | 9.76% |
| Salaries / pension | 9,902 | - | n.a. | 14,200 | n.a. | 14,713 | 3.61% |
| Rice allowance | 1,358 | - | n.a. | 1,456 | n.a. | 1,519 | 4.33% |
| Other benefits | 877 | - | n.a. | 836 | n.a. | 1,870 | 123.68% |
| II. Good procerements | 4,369 | 5,718 | 30.88% | 7,213 | 26.15% | 9,117 | 26.40% |
| III. Operation and maintenance cost for facilities of local government | 751 | 1,040 | 38.48% | 1,443 | 38.75% | 1,705 | 18.16% |
| IV. Official transportation cost | 399 | 412 | 3.26% | 419 | 1.70% | 564 | 34.61% |
| V. Other expenditures | 4,338 | 5,036 | 16.09% | 7,680 | 52.50% | 10,234 | 33.26% |
| VI. Payments of principals and interest for loans | 2,638 | 3,183 | 20.66% | 6,157 | 93.43% | 7,936 | 28.89% |
| VII. Reward for subsidies | 179 | 215 | 20.11% | 225 | 4.65% | 162 | -28.00% |
| VIII. Pensionaries | 15 | 15 | 0.00% | 12 | -20.00% | 18 | 50.00% |
| IX. Other expenditures | 1,236 | 1,746 | 41.26% | 1,653 | -5.33% | 1,893 | 14.32% |
| X. Emergent cost | 68 | 68 | 0.00% | 25 | -63.24% | 15 | -40.00% |
| XI. Operation and maintenance cost for facilities of the city area | 3,426 | 4,178 | 21.95% | 5,168 | 23.70% | 31,657 | 512.56% |
| B. Development Expenditures | 25,228 | 28,739 | 13.92% | 36,409 | 26.69% | 53,287 | 46.36% |
| C. Deposit and Repayment for Cash Adjustment and Subsidies | 12,258 | - | n.a. | 17,239 | n.a. | 25,398 | 47.33% |
| TOTAL | 67,042 | 64,456 | n.a. | 100,135 | n.a. | 160,088 | 59.87% |

Sources:

- 1). Semarang City in Figures (Kotamadya Daerah Tingkat II Semarang Dalam Angka) 1992, Statistic Office of Semarang City.
- 2). Original information from the Municipality of Semarang.
- 3). Semarang City in Figures (Kotamadya Daerah Tingkat II Semarang Dalam Angka) 1994, Statistic Office of Semarang City.
- 4). Semarang City in Figures (Kotamadya Daerah Tingkat II Semarang Dalam Angka) 1996, Statistic Office of Semarang City.

(Note)

- * Not completed yet because of lack of data
- Lack of data.

**Table 2.2.16 INDUSTRIAL SITUATION FOR LARGE AND MEDIUM SCALE
MANUFACTURING IN CENTRAL JAVA PROVINCE**

| Kind of products | Year | Number of establishments | Persons engaged (persons) | Salaries & wages (Rp.10 ⁶) | Value of gross output (Rp.10 ⁶) | Input cost (Rp.10 ⁶) | Value added (Rp.10 ⁶) |
|--|--------------------|--------------------------|---------------------------|--|---|----------------------------------|-----------------------------------|
| Food, beverages & tobacco | 1993 ¹⁾ | 929 | 125,343 | 147,245 | 3,224,970 | 1,546,486 | 1,516,284 |
| | 1994 ²⁾ | 967 | 117,785 | 159,705 | 4,317,637 | 1,617,224 | 2,357,459 |
| | 1995 ³⁾ | 959 | 120,577 | 192,801 | 12,537,845 | 9,391,721 | 2,809,512 |
| | 1996 ⁴⁾ | 1,008 | 129,741 | 195,446 | 3,643,538 | 2,463,157 | 891,184 |
| Textile, waering apparel & leather products | 1993 ¹⁾ | 723 | 153,494 | 157,417 | 2,780,287 | 1,975,681 | 697,032 |
| | 1994 ²⁾ | 717 | 160,732 | 187,573 | 3,579,757 | 2,681,946 | 874,769 |
| | 1995 ³⁾ | 722 | 180,930 | 230,004 | 3,589,531 | 2,504,729 | 1,060,059 |
| | 1996 ⁴⁾ | 724 | 194,002 | 297,564 | 6,683,862 | 3,274,982 | 3,344,489 |
| Wood & wooden products | 1993 ¹⁾ | 257 | 30,907 | 33,557 | 444,031 | 303,379 | 139,555 |
| | 1994 ²⁾ | 293 | 38,415 | 51,382 | 556,017 | 386,845 | 166,749 |
| | 1995 ³⁾ | 342 | 41,541 | 60,694 | 770,824 | 572,987 | 196,889 |
| | 1996 ⁴⁾ | 400 | 47,919 | 77,000 | 710,336 | 536,870 | 166,645 |
| Paper & paper products | 1993 ¹⁾ | 104 | 10,393 | 13,731 | 157,221 | 106,677 | 48,237 |
| | 1994 ²⁾ | 106 | 12,450 | 23,303 | 225,683 | 138,966 | 81,068 |
| | 1995 ³⁾ | 115 | 15,657 | 31,656 | 322,423 | 198,099 | 119,180 |
| | 1996 ⁴⁾ | 125 | 16,645 | 28,058 | 354,950 | 224,981 | 123,664 |
| Chemical, petroleum, rubber & plastic products | 1993 ¹⁾ | 211 | 48,230 | 65,585 | 676,262 | 501,523 | 163,113 |
| | 1994 ²⁾ | 221 | 45,911 | 65,500 | 945,405 | 579,837 | 354,678 |
| | 1995 ³⁾ | 228 | 45,703 | 77,635 | 942,472 | 658,207 | 267,206 |
| | 1996 ⁴⁾ | 233 | 48,877 | 88,644 | 1,063,756 | 750,508 | 288,461 |
| Non metallic mineral products | 1993 ¹⁾ | 274 | 17,908 | 20,362 | 261,353 | 145,042 | 105,030 |
| | 1994 ²⁾ | 297 | 18,720 | 43,460 | 273,600 | 135,580 | 133,810 |
| | 1995 ³⁾ | 301 | 18,643 | 44,027 | 300,190 | 135,041 | 157,609 |
| | 1996 ⁴⁾ | 301 | 19,023 | 30,476 | 273,291 | 140,892 | 117,012 |
| Basic metal products | 1993 ¹⁾ | 7 | 1,045 | 3,414 | 94,994 | 72,095 | 22,502 |
| | 1994 ²⁾ | 7 | 1,100 | 3,739 | 144,883 | 110,415 | 18,892 |
| | 1995 ³⁾ | 7 | 1,143 | 4,379 | 187,798 | 150,643 | 28,690 |
| | 1996 ⁴⁾ | 8 | 1,268 | 5,219 | 231,121 | 186,198 | 36,359 |
| Fabricated metal products, machinery & transport equipment | 1993 ¹⁾ | 162 | 16,285 | 30,086 | 315,501 | 217,731 | 91,914 |
| | 1994 ²⁾ | 162 | 16,922 | 30,952 | 360,494 | 245,615 | 106,713 |
| | 1995 ³⁾ | 169 | 19,648 | 43,898 | 548,025 | 367,751 | 161,732 |
| | 1996 ⁴⁾ | 185 | 20,362 | 45,265 | 611,244 | 424,907 | 163,647 |
| Manufactured products not elsewhere specified | 1993 ¹⁾ | 62 | 6,124 | 5,676 | 29,916 | 19,019 | 10,735 |
| | 1994 ²⁾ | 67 | 6,396 | 5,968 | 33,858 | 20,335 | 13,177 |
| | 1995 ³⁾ | 68 | 7,270 | 7,698 | 35,602 | 21,316 | 13,858 |
| | 1996 ⁴⁾ | 77 | 8,681 | 8,941 | 46,478 | 18,516 | 18,516 |
| Total | 1993 ¹⁾ | 2,729 | 409,729 | 483,073 | 7,983,636 | 4,889,632 | 4,889,632 |
| | 1994 ²⁾ | 2,837 | 418,431 | 571,579 | 10,437,334 | 5,916,771 | 4,410,316 |
| | 1995 ³⁾ | 2,911 | 451,112 | 692,792 | 19,234,711 | 14,000,495 | 4,814,735 |
| | 1996 ⁴⁾ | 3,061 | 486,518 | 776,614 | 13,618,577 | 8,029,749 | 5,149,979 |

Source : 1) Central Java in Figures 1993(Jawa Tengah Dalam Angka 1993), Kantor Statistik Jawa Tengah.
2) Central Java in Figures 1994(Jawa Tengah Dalam Angka 1994), Kantor Statistik Jawa Tengah.
3) Central Java in Figures 1995(Jawa Tengah Dalam Angka 1995), Kantor Statistik Jawa Tengah.
4) Central Java in Figures 1996(Jawa Tengah Dalam Angka 1996), Kantor Statistik Jawa Tengah.

Table 2.2.17 INDUSTRIAL SITUATION FOR LARGE AND MEDIUM SCALE MANUFACTURING IN SEMARANG CITY

| Kind of products | Year | Number of establishments | Persons engaged (persons) | Salaries & wages (Rp.10 ⁶) | Value of gross output (Rp.10 ⁶) | Input cost (Rp.10 ⁶) | Value added (Rp.10 ⁶) |
|--|--------------------|--------------------------|---------------------------|--|---|----------------------------------|-----------------------------------|
| Food, beverages & tobacco | 1991 ¹⁾ | 60 | 11,417 | 16,818 | 340,190 | 233,865 | 106,325 |
| | 1992 ¹⁾ | 61 | 11,346 | 17,330 | 424,051 | 300,642 | 123,409 |
| | 1993 ¹⁾ | 70 | 11,972 | 23,005 | 462,763 | 276,280 | 186,483 |
| | 1994 ²⁾ | 73 | 11,035 | 22,425 | 513,545 | 388,440 | 133,803 |
| Textile, waering apparel & leather products | 1991 ¹⁾ | 44 | 15,950 | 12,427 | 217,986 | 163,986 | 54,530 |
| | 1992 ¹⁾ | 47 | 16,300 | 17,456 | 258,754 | 207,854 | 50,900 |
| | 1993 ¹⁾ | 49 | 17,458 | 20,530 | 245,331 | 193,452 | 51,839 |
| | 1994 ²⁾ | 48 | 17,620 | 26,868 | 376,071 | 256,544 | 139,987 |
| Wood & wooden products | 1991 ¹⁾ | 21 | 3,838 | 5,118 | 267,596 | 207,504 | 60,092 |
| | 1992 ¹⁾ | 22 | 5,518 | 8,053 | 50,582 | 39,543 | 11,039 |
| | 1993 ¹⁾ | 24 | 4,124 | 7,056 | 53,209 | 40,532 | 12,677 |
| | 1994 ²⁾ | 22 | 4,201 | 7,621 | 51,638 | 36,315 | 19,159 |
| Paper & paper products | 1991 ¹⁾ | 28 | 2,246 | 3,468 | 77,096 | 29,593 | 47,503 |
| | 1992 ¹⁾ | 30 | 2,772 | 4,437 | 49,294 | 23,246 | 26,048 |
| | 1993 ¹⁾ | 35 | 3,038 | 4,901 | 47,729 | 31,528 | 16,201 |
| | 1994 ²⁾ | 38 | 3,084 | 5,976 | 55,048 | 41,226 | 15,329 |
| Chemical, petroleum, rubber & plastic products | 1991 ¹⁾ | 46 | 11,711 | 22,106 | 261,107 | 212,394 | 48,712 |
| | 1992 ¹⁾ | 49 | 13,240 | 20,550 | 362,375 | 264,586 | 97,790 |
| | 1993 ¹⁾ | 52 | 14,735 | 31,282 | 385,463 | 311,357 | 74,107 |
| | 1994 ²⁾ | 55 | 16,160 | 30,068 | 440,514 | 366,050 | 92,229 |
| Non metallic mineral products | 1991 ¹⁾ | 9 | 5,561 | 5,791 | 45,199 | 37,699 | 7,501 |
| | 1992 ¹⁾ | 9 | 5,726 | 7,135 | 48,261 | 37,146 | 11,116 |
| | 1993 ¹⁾ | 10 | 5,643 | 8,170 | 50,249 | 39,156 | 11,094 |
| | 1994 ²⁾ | 10 | 5,701 | 8,051 | 56,258 | 41,054 | 16,439 |
| Basic metal products | 1991 ¹⁾ | 4 | 986 | 3,024 | 138,997 | 101,975 | 37,022 |
| | 1992 ¹⁾ | 4 | 983 | 3,565 | 127,516 | 115,186 | 12,329 |
| | 1993 ¹⁾ | 4 | 993 | 4,192 | 180,923 | 145,097 | 35,826 |
| | 1994 ²⁾ | 4 | 1,030 | 4,662 | 210,019 | 174,530 | 35,545 |
| Fabricated metal products, machinery & transport equipment | 1991 ¹⁾ | 35 | 4,716 | 8,072 | 179,579 | 132,347 | 47,232 |
| | 1992 ¹⁾ | 34 | 5,011 | 9,043 | 216,173 | 160,304 | 55,869 |
| | 1993 ¹⁾ | 35 | 5,403 | 11,958 | 229,505 | 185,862 | 43,543 |
| | 1994 ²⁾ | 35 | 5,668 | 14,387 | 287,302 | 234,978 | 57,888 |
| Manufactured products not elsewhere specified | 1991 ¹⁾ | 4 | 364 | 516 | 2,967 | 2,306 | 662 |
| | 1992 ¹⁾ | 3 | 269 | 453 | 2,062 | 1,559 | 503 |
| | 1993 ¹⁾ | 6 | 554 | 943 | 7,815 | 6,316 | 1,499 |
| | 1994 ²⁾ | 6 | 599 | 657 | 9,085 | 5,934 | 3,492 |
| Total | 1991 ¹⁾ | 251 | 56,789 | 77,340 | 1,530,717 | 1,121,669 | 409,579 |
| | 1992 ¹⁾ | 259 | 61,165 | 88,022 | 1,539,068 | 1,150,066 | 389,003 |
| | 1993 ¹⁾ | 285 | 63,920 | 112,037 | 1,662,987 | 1,229,580 | 433,269 |
| | 1994 ²⁾ | 291 | 65,098 | 120,715 | 1,999,480 | 1,545,071 | 513,871 |

Source : 1) Statistics of Large and Medium Scale Manufacturing (Statistik Industri Besar - Sedang) for 1992-1993, BAPPEDA Kotamadya Dati II Semarang in cooperation with Kantor Statistik Kotamadya Semarang.
2) Statistics of Large and Medium Scale Manufacturing (Statistik Industri Besar - Sedang) for 1994-1995, BAPPEDA Kotamadya Dati II Semarang in cooperation with Kantor Statistik Kotamadya Semarang.

Table 2.2.18 ACTUAL WORKING POPULATION BY DISTRICTS AND WORKING GROUP IN SEMARANG CITY

As of 1994

| Kind of products | Classification by manufacturing scale | Semarang | | | | | | | | | | | | | | Total | | | |
|---|---------------------------------------|----------|--------|----------|------------|--------------|--------------|--------|------------|-----------|----------------|-------|-----------|----------------|-----------------|--------|----------------|--------|-------|
| | | Mijen | Gumung | Semarang | Banyuwangi | Gajahmungkur | Gajahmungkur | Genduk | Pedurungan | Gayamsari | Semarang Timur | Candi | Tembalang | Semarang Utara | Semarang Tengah | | Semarang Barat | | |
| Food, beverages & tobacco | Large/medium ¹⁾ | 0 | 0 | 0 | 296 | 414 | 0 | 3,515 | 257 | 96 | 491 | 0 | 1,037 | 1,018 | 1,075 | 2,395 | 421 | 11,035 | |
| | Small/HH(formal) ²⁾ | 74 | 15 | 129 | 255 | 70 | 524 | 325 | 160 | 488 | 242 | 4 | 347 | 621 | 625 | 1,10 | 81 | 4,070 | |
| | Small/HH(informal) ²⁾ | 151 | 174 | 72 | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 98 | 0 | 429 | 53 | 869 | 0 | 127 | 2,028 |
| | Total | 225 | 189 | 497 | 669 | 70 | 4,039 | 582 | 311 | 979 | 340 | 4 | 1,833 | 1,692 | 2,569 | 2,505 | 629 | 17,133 | |
| Textile, wearing apparel & leather products | Large/medium ¹⁾ | 0 | 0 | 0 | 105 | 0 | 3,248 | 2,636 | 654 | 399 | 0 | 0 | 2,659 | 441 | 5,354 | 1,132 | 992 | 17,620 | |
| | Small/HH(formal) ²⁾ | 0 | 0 | 16 | 46 | 47 | 88 | 20 | 14 | 133 | 0 | 0 | 176 | 356 | 159 | 0 | 0 | 1,055 | |
| | Small/HH(informal) ²⁾ | 47 | 28 | 0 | 68 | 24 | 0 | 0 | 0 | 34 | 0 | 62 | 0 | 272 | 32 | 0 | 0 | 595 | |
| | Total | 47 | 28 | 16 | 219 | 71 | 3,364 | 2,656 | 668 | 566 | 0 | 62 | 2,835 | 1,069 | 5,545 | 1,132 | 992 | 19,270 | |
| Wood & wooden products | Large/medium ¹⁾ | 0 | 0 | 0 | 0 | 0 | 1,460 | 822 | 0 | 0 | 0 | 0 | 887 | 0 | 0 | 0 | 1,032 | 4,201 | |
| | Small/HH(formal) ²⁾ | 0 | 51 | 127 | 74 | 48 | 285 | 46 | 0 | 184 | 38 | 0 | 149 | 396 | 292 | 10 | 31 | 1,731 | |
| | Small/HH(informal) ²⁾ | 80 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 0 | 0 | 0 | 0 | 309 | |
| | Total | 80 | 152 | 127 | 74 | 48 | 1,745 | 868 | 0 | 184 | 38 | 0 | 1,164 | 396 | 292 | 1,042 | 31 | 6,241 | |
| Paper & paper products | Large/medium ¹⁾ | 0 | 0 | 297 | 0 | 0 | 1,206 | 0 | 0 | 0 | 0 | 0 | 176 | 192 | 624 | 589 | 0 | 3,084 | |
| | Small/HH(formal) ²⁾ | 0 | 14 | 56 | 30 | 35 | 170 | 96 | 11 | 122 | 13 | 0 | 77 | 252 | 142 | 0 | 12 | 1,030 | |
| | Small/HH(informal) ²⁾ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Total | 0 | 14 | 353 | 30 | 35 | 1,376 | 96 | 11 | 122 | 13 | 0 | 253 | 444 | 766 | 589 | 12 | 4,114 | |
| Chemical, petroleum, rubber & plastic products | Large/medium ¹⁾ | 0 | 0 | 0 | 3,847 | 0 | 1,568 | 517 | 510 | 1,660 | 0 | 0 | 492 | 1,020 | 4,391 | 1,507 | 648 | 16,160 | |
| | Small/HH(formal) ²⁾ | 8 | 0 | 89 | 12 | 14 | 723 | 118 | 42 | 165 | 61 | 0 | 234 | 148 | 272 | 7 | 61 | 1,954 | |
| | Small/HH(informal) ²⁾ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Total | 8 | 0 | 89 | 3,859 | 14 | 2,291 | 635 | 552 | 1,825 | 61 | 0 | 726 | 1,168 | 4,663 | 1,514 | 709 | 18,114 | |
| Non metallic mineral products | Large/medium ¹⁾ | 0 | 0 | 0 | 1,544 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 166 | 3,991 | 0 | 5,701 | |
| | Small/HH(formal) ²⁾ | 0 | 0 | 5 | 0 | 0 | 0 | 7 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | |
| | Small/HH(informal) ²⁾ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Total | 0 | 0 | 5 | 1,544 | 0 | 0 | 7 | 0 | 17 | 0 | 0 | 0 | 0 | 166 | 3,991 | 0 | 5,730 | |
| Basic metal products | Large/medium ¹⁾ | 0 | 0 | 0 | 0 | 0 | 1,030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,030 | |
| | Small/HH(formal) ²⁾ | 0 | 0 | 0 | 0 | 0 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | |
| | Small/HH(informal) ²⁾ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 350 | 0 | 84 | 0 | 239 | 106 | 0 | 0 | 779 | |
| | Total | 0 | 0 | 0 | 0 | 0 | 1,043 | 10 | 0 | 350 | 0 | 84 | 0 | 239 | 106 | 0 | 0 | 1,832 | |
| Fabricated metal products, machinery & transportation equipment | Large/medium ¹⁾ | 0 | 0 | 0 | 1,466 | 0 | 1,904 | 315 | 0 | 312 | 0 | 0 | 828 | 0 | 366 | 477 | 0 | 5,668 | |
| | Small/HH(formal) ²⁾ | 8 | 14 | 21 | 45 | 2 | 395 | 23 | 24 | 203 | 40 | 0 | 163 | 191 | 53 | 48 | 0 | 1,230 | |
| | Small/HH(informal) ²⁾ | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270 | 0 | 179 | 0 | 0 | 519 | |
| | Total | 78 | 14 | 21 | 1,511 | 2 | 2,299 | 338 | 24 | 515 | 40 | 0 | 1,261 | 191 | 598 | 525 | 0 | 7,417 | |
| Manufactured products not elsewhere specified | Large/medium ¹⁾ | 0 | 0 | 0 | 0 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 516 | 599 |
| | Small/HH(formal) ²⁾ | 59 | 79 | 314 | 209 | 146 | 1,729 | 351 | 97 | 943 | 176 | 45 | 799 | 1,674 | 1,104 | 65 | 113 | 7,903 | |
| | Small/HH(informal) ²⁾ | 157 | 130 | 48 | 0 | 0 | 275 | 80 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 191 | 941 |
| | Total | 216 | 209 | 362 | 209 | 146 | 2,087 | 431 | 97 | 943 | 176 | 105 | 799 | 1,674 | 1,104 | 65 | 820 | 9,443 | |
| Total | Large/medium ¹⁾ | 0 | 0 | 593 | 7,376 | 0 | 14,014 | 4,547 | 1,260 | 2,862 | 0 | 0 | 6,099 | 2,671 | 11,976 | 11,123 | 2,577 | 65,098 | |
| | Small/HH(formal) ²⁾ | 149 | 173 | 757 | 671 | 362 | 3,927 | 996 | 348 | 2,255 | 570 | 49 | 1,945 | 3,638 | 2,647 | 240 | 298 | 19,025 | |
| | Small/HH(informal) ²⁾ | 503 | 433 | 120 | 68 | 24 | 303 | 80 | 55 | 384 | 98 | 206 | 827 | 564 | 1,186 | 0 | 318 | 5,171 | |
| | Total | 654 | 606 | 1,470 | 8,115 | 386 | 18,244 | 5,623 | 1,663 | 5,501 | 668 | 255 | 8,871 | 6,873 | 15,809 | 11,363 | 3,193 | 89,294 | |

Source: 1) Statistik Industri Besar - Sedang Tahun 1994-1995, BAPPEDA Kotamadya Dahi II Semarang in cooperation with Kantor

2) Information from Kantor Statistik Kotamadya Semarang.

(Note) - Large/medium scale manufacturings are more than Rp.50,000,000 in capital, those of small scale (formal) are more than Rp.5,000,000, and those of small scale (informal) are less than Rp.5,000,000 both in their capital.

Table 2.2.19 INFRASTRUCTURE IN INDONESIA

| Kind of infrastructure | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | Annual increasing ratio (%) |
|---|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------------|
| Road Length (km) | | | | | | | |
| By level of Government | 319,370 | 325,441 | 344,892 | 356,878 | 372,414 | 385,836 | 3.85% |
| State level road | 22,239 | 22,119 | 23,483 | 26,351 | 28,006 | 28,006 | 4.72% |
| Provincial level road | 43,245 | 43,730 | 46,231 | 49,693 | 51,257 | 54,025 | 4.55% |
| Regency level road | 253,886 | 259,592 | 275,178 | 280,834 | 293,151 | 303,805 | 3.66% |
| By type of surface | 319,370 | 325,441 | 344,892 | 356,878 | 372,414 | 385,836 | 3.85% |
| Asphalted | 142,053 | 150,930 | 159,329 | 164,866 | 175,358 | 181,745 | 5.05% |
| Non asphalted | 146,157 | 146,239 | 155,119 | 159,220 | 166,040 | 173,465 | 3.49% |
| Others | 31,160 | 28,272 | 30,444 | 32,792 | 31,016 | 30,626 | -0.35% |
| Railway Transportation | | | | | | | |
| Passenger traffic | | | | | | | |
| Java and Madura | | | | | | | |
| Passenger embarked (10 ⁶ persons) | 60 | 71 | 96 | 114 | 138 | 149 | 19.95% |
| Pax km (10 ⁶ km) | 9,281 | 9,994 | 11,847 | 13,166 | 14,125 | 15,218 | 10.40% |
| North Sumatra | | | | | | | |
| Passenger embarked (10 ³ persons) | 1,311 | 1,215 | 1,209 | 1,038 | 1,405 | 1,442 | 1.92% |
| Pax km (10 ⁶ km) | 199 | 208 | 195 | 193 | 169 | 221 | 2.12% |
| West Sumatra | | | | | | | |
| Passenger embarked (10 ³ persons) | 8 | 9 | 21 | 21 | 28 | 30 | 30.26% |
| Pax km (10 ⁶ km) | 0.3 | 0.5 | 1.1 | 1.1 | 1.4 | 1.5 | 37.97% |
| South Sumatra | | | | | | | |
| Passenger embarked (10 ³ persons) | 909 | 833 | 970 | 807 | 1,092 | 1,126 | 4.37% |
| Pax km (10 ⁶ km) | 278 | 269 | 336 | 274 | 358 | 372 | 6.00% |
| Whole Indonesia | | | | | | | |
| Passenger embarked (10 ⁶ persons) | 62 | 73 | 98 | 116 | 141 | 152 | 19.49% |
| Pax km (10 ⁶ km) | 9,758 | 10,472 | 12,379 | 13,634 | 14,653 | 15,813 | 10.13% |
| Freight transportation | | | | | | | |
| Java and Madura | | | | | | | |
| Volume of cargo loaded (10 ³ tons) | 4,900 | 5,450 | 6,069 | 6,415 | 6,100 | 6,734 | 6.57% |
| Gross kilometer tonnage (10 ⁶ tons.km) | 1,095 | 1,162 | 1,302 | 1,379 | 1,373 | 1,435 | 5.56% |
| Sumatra | | | | | | | |
| Volume of cargo loaded (10 ³ tons) | 8,826 | 9,538 | 9,621 | 9,953 | 10,768 | 11,324 | 5.11% |
| Gross kilometer tonnage (10 ⁶ tons.km) | 2,375 | 2,616 | 2,653 | 2,475 | 2,799 | 2,926 | 4.26% |
| Whole Indonesia | | | | | | | |
| Volume of cargo loaded (10 ³ tons) | 13,726 | 14,988 | 15,690 | 16,368 | 16,868 | 18,058 | 5.64% |
| Gross kilometer tonnage (10 ⁶ tons.km) | 3,470 | 3,778 | 3,955 | 3,854 | 4,172 | 4,361 | 4.68% |
| Sea Transport | | | | | | | |
| Volume of Loaded and Unloaded of Inter and International Sea Borne Cargo (10³ tons) | | | | | | | |
| Loaded | - | - | - | - | 310,246 | - | - |
| Unloaded | - | - | - | - | 208,871 | - | - |
| Total handling volume | - | - | - | - | 519,117 | - | - |
| Air Transport | | | | | | | |
| Number of aircraft | | | | | | | |
| By ownership | | | | | | | |
| Government | 835 | 867 | 874 | 895 | 910 | - | 2.17% |
| Fixed wing | 320 | 327 | 326 | 326 | 330 | - | 0.77% |
| Rotary wing | 276 | 283 | 289 | 289 | 298 | - | 1.94% |
| Private | 44 | 44 | 37 | 37 | 32 | - | -7.65% |
| Fixed wing | 515 | 540 | 548 | 569 | 580 | - | 3.02% |
| Rotary wing | 348 | 369 | 381 | 400 | 418 | - | 4.69% |
| Rotary wing | 167 | 171 | 167 | 169 | 162 | - | -0.76% |
| By classification of operation | | | | | | | |
| Scheduled operation | 835 | 867 | 875 | 895 | 910 | - | 2.17% |
| Non scheduled operation | 223 | 257 | 274 | 281 | 286 | - | 6.42% |
| Supplementary airline operation (air taxi) | 146 | 126 | 120 | 123 | 125 | - | -3.81% |
| Aerial work | 57 | 60 | 61 | 61 | 62 | - | 2.12% |
| General aviation | 6 | 6 | 18 | 18 | 18 | - | 31.61% |
| General aviation | 403 | 418 | 402 | 412 | 419 | - | 0.98% |
| Postal Facilities | | | | | | | |
| General post office | 322 | 315 | 317 | 317 | 315 | 315 | -0.44% |
| Supplementary post office | 694 | 712 | 755 | 803 | 826 | 834 | 3.74% |
| Auxiliary post office | 2,422 | 2,992 | 3,377 | 3,385 | 3,384 | 3,393 | 6.97% |
| Mailing house | 1,404 | 1,713 | 1,411 | 1,560 | 1,709 | 1,838 | 5.53% |
| Total | 4,842 | 5,732 | 5,860 | 6,065 | 6,234 | 6,380 | 5.67% |

Source : Statistical Year Book of Indonesia 1996, Biro Pusat Statistik Indonesia.

Table 2.2.20 INFRASTRUCTURE IN CENTRAL JAVA PROVINCE

| Kind of infrastructure | 1991 | 1992 | 1993 | 1994 | 1995 | Annual increasing ratio (%) |
|---|---------|---------|---------|---------|---------|-----------------------------|
| <u>Road Length (km)</u> | | | | | | |
| By level of Government | 21,674 | 22,350 | 22,325 | 21,702 | 24,265 | 2.86% |
| State level road | 1,010 | 1,010 | 1,010 | 1,010 | 1,206 | 4.53% |
| Provincial level road | 1,848 | 1,818 | 1,848 | 1,848 | 2,580 | 8.70% |
| Regency level road | 16,729 | 17,396 | 17,380 | 18,648 | 18,311 | 2.28% |
| Municipality level road | 2,087 | 2,126 | 2,087 | 196 | 2,168 | 0.96% |
| By type of surface | 21,674 | 22,350 | 23,325 | 23,702 | 24,265 | 2.86% |
| Asphalted | 15,466 | 16,480 | 17,199 | 17,729 | 10,879 | -8.42% |
| Gravel | 3,155 | 2,964 | 3,049 | 2,883 | 7,909 | 25.83% |
| Earth | 2,386 | 2,150 | 2,418 | 2,456 | 3,990 | 13.72% |
| Others | 667 | 756 | 659 | 634 | 1,487 | 22.19% |
| <u>Bridges</u> | | | | | | |
| State level bridges | 635 | 933 | 751 | 1,137 | 1,007 | 12.22% |
| Provincial level bridges | 1,498 | 1,340 | 1,123 | 1,888 | 2,074 | 8.47% |
| <u>Railway Transportation</u> | | | | | | |
| Passenger traffic (10 ³ persons) | 6,993 | 7,203 | 7,777 | 8,497 | 9,182 | 7.05% |
| Freight transportation (10 ³ tons) | 1,083 | 1,351 | 1,351 | 1,753 | 1,665 | 11.35% |
| <u>Sea Transport</u> | | | | | | |
| Number of ships arrived | 5,831 | 6,207 | 8,045 | 7,080 | 8,018 | 8.29% |
| Loaded (10 ³ ton) | 10,440 | 11,024 | 10,917 | 9,987 | 10,165 | -0.66% |
| Unloaded (10 ³ ton) | 18,280 | 19,001 | 19,682 | 18,444 | 19,760 | 1.96% |
| <u>Air Transport</u> | | | | | | |
| Number of aircraft | | | | | | |
| Arrival | 7,753 | 10,939 | 9,489 | 10,602 | 11,623 | 10.65% |
| Departure | 7,757 | 10,926 | 10,643 | 10,635 | 11,648 | 10.70% |
| Number of passenger | | | | | | |
| Arrival | 250,888 | 361,391 | 376,962 | 471,036 | 537,905 | 21.01% |
| Departure | 349,369 | 363,348 | 367,902 | 455,979 | 520,265 | 10.47% |

Source : Statistical Year Book of Central Java 1992, 1993, 1994, 1995 and 1996, Kantor Statistik Jawa Tengah.

Table 2.2.21 INFRASTRUCTURE IN SEMARANG CITY

| Kind of infrastructure | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | Annual increasing ratio (%) |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------------|
| Road Length (km) | | | | | | | |
| By type of surface | 1,012 | 954 | 989 | 1,196 | 1,013 | 1,013 | 0.02% |
| Asphalted | 684 | 887 | 867 | 962 | 964 | 967 | 8.95% |
| Gravel | 229 | 48 | 44 | 11 | 11 | 10 | -53.51% |
| Earth | 99 | 19 | 79 | 224 | 15 | 13 | -38.06% |
| Others | 0 | 0 | 0 | 0 | 24 | 22 | 100.00% |
| Railway Transportation | | | | | | | |
| Passenger traffic (10 ³ persons) | 411 | 401 | 534 | 794 | 571 | 492 | 3.68% |
| Freight transportation (10 ³ tons) | 325 | 227 | 522 | 681 | 612 | 613 | 13.54% |
| Sea Transport (At Tanjung Mas Sea Port) | | | | | | | |
| Number of ships arrived | 3,399 | 3,661 | 4,033 | 3,146 | 3,531 | 3,321 | -0.46% |
| Loaded (ton) | 944,643 | 1,059,512 | 1,081,657 | 1,046,054 | 1,067,070 | 1,328,017 | 7.05% |
| Unloaded (ton) | 3,955,246 | 4,227,372 | 4,533,459 | 4,255,622 | 4,816,357 | 2,193,078 | -11.13% |
| Air Transport (At Achmad Yani Airport in Semarang) | | | | | | | |
| Number of aircraft | | | | | | | |
| Arrival | 5,618 | 7,996 | 7,183 | 8,396 | 8,740 | 9,902 | 12.00% |
| Departure | 5,621 | 7,997 | 7,239 | 8,418 | 8,725 | 9,894 | 11.97% |
| Number of passenger | | | | | | | |
| Arrival | 156,884 | 254,886 | 273,248 | 350,823 | 396,804 | 430,379 | 22.36% |
| Departure | 254,550 | 248,647 | 259,009 | 333,331 | 380,063 | 414,391 | 10.24% |
| Facilities for Telex and Telegraph | | | | | | | |
| Telegraph office | - | 1 | 1 | 1 | 1 | 1 | 0.00% |
| General Telex office | - | 98 | 104 | 128 | 148 | 183 | 16.90% |
| Capacity of telex connection (line) | - | 800 | 800 | 1,000 | 1,000 | 1,000 | 5.74% |
| Actual number of connection | - | 650 | 670 | 668 | 671 | 665 | 0.57% |
| Telephone Facilities | | | | | | | |
| Automatic connection office | - | 8 | 8 | 10 | 18 | 22 | 28.78% |
| Capacity (line) | - | 67,343 | 74,187 | 85,349 | 115,841 | 154,801 | 23.13% |
| Actual connection (line) | - | 46,716 | 53,766 | 73,601 | 100,294 | 109,540 | 23.74% |
| Manual operation office | - | 2 | 2 | 2 | 0 | 0 | -100.00% |
| Capacity (line) | - | 800 | 800 | 980 | 0 | 0 | -100.00% |
| Actual connection (line) | - | 478 | 763 | 993 | 0 | 0 | -100.00% |
| Public telephone facilities (booth) | - | - | - | 1,481 | 1,957 | 1,924 | 13.98% |

Source : Semarang City in Figure (Kotamadya Daerah Tingkat II Semarang Dalam Angka) 1992, 1993, 1994, 1995 and 1996, Kantor Statistik Kotamadya Semarang.

Table 2.2.22 FAMILY ECONOMY IN SEMARANG CITY

| | | | | (Amount/HH in Rp.) |
|---|---|---|--|----------------------------------|
| Item | | | | Whole Semarang (Rp./Month) |
| Back Ground Data (Based on Table 2.2.3 in this Report) | | | | |
| Population in Semarang as of 1996 | | | | 1,251,845 |
| Economic active population in Semarang as of 1996 | | | | 822,176 |
| Share rate of economic active population in Semarang as of 1996 | | | | 65.68% |
| Number of Households in Semarang as of 1996 | | | | 278,372 |
| Number of economic active persons per HH in Semarang | | | | 1.94 |
| Item | Whole ¹⁾ Semarang as of 1996 | Whole ²⁾ Semarang as of 1997 | Study area ³⁾ in Semarang as of Jan. 1998 | |
| Average income | | | | 810,897 |
| Average expenditure (case A) | | | | 1,263,724 |
| Average expenditure (case B) | 637,470 | 687,588 | | 1,284,578 |
| Food | 232,196 | 254,162 | | 308,974 |
| Expenditure for non-food | | | | 337,852 |
| Housing : Average floor area (m ²) | | | | 98 |
| Average land area for housing (m ²) | | | | 150 |
| Capital investment | | | | 33,230,769 |
| Monthly repayment amount | | | | |
| 1) Repayment period of (case A): | 25 | | | 506,544 |
| 2) Repayment period of (case B): | 20 | 202,825 * | 216,495 * | 527,399 |
| Clothing | 38,052 | 39,871 | | 41,923 |
| Fuel & light | | | | 77,885 |
| Electricity | | | | 34,038 |
| Water | | | | 16,474 |
| Transport & communication | 67,708 | 72,820 | | 134,615 |
| Education and recreation | 61,894 | 66,567 | | 127,692 |
| Education | | | | 111,026 |
| Recreation | | | | 16,667 |
| Expenses for medical care and welfare | 34,795 | 37,673 | | 49,615 |
| Laundry & cleaning | | | | 29,231 |
| Miscellaneous | | | | 20,385 |
| Amount of losses caused by inundation | | | | 139,744 |

Source :

1) Survey on Living Expenditure in Central Java Province (Survei Biaya Hidup 1996 di Jawa Tengah), Kanor Statistik Propinsi Jawa Tengah.

2) Modified the above data by using price indexes shown in Table 2.6.1.

3) Made by JICA Study Team in February 1998.

(Note)

*: Including the cost for fuel, light and water.

Table 2.2.23 CONSUMER'S PRICE INDEX IN INDONESIA AND SEMARANG CITY

(Fiscal year 1988/89 = 100)

| Group/Sub group | Composite consumer price indexes of 27 municipalities in whole Indonesia at the end of each calendar year | | | | | Consumer price indexes of Semarang Municipality at the end of each calendar year | | | | | Average annual increasing ratio(%)** | |
|-------------------------------------|---|--------------------|--------------------|--------------------|--------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------------------------|--------------------|
| | 1993 ¹⁾ | 1994 ²⁾ | 1995 ³⁾ | 1996 ³⁾ | 1997 ³⁾ | 1992 ⁴⁾ | 1993 ⁴⁾ | 1994 ⁴⁾ | 1995 ⁴⁾ | 1996 ⁴⁾ | | 1997 ⁴⁾ |
| | Average annual increasing ratio(%)* | | | | | Average annual increasing ratio(%)* | | | | | | |
| General | 145.07 | 157.42 | 172.27 | 185.92 | 185.92 | 134.46 | 147.52 | 157.38 | 171.21 | 178.82 | 194.12 | 7.62% |
| Food | 136.27 | 151.08 | 171.06 | 187.38 | 187.38 | 139.08 | 147.40 | 164.52 | 183.93 | 188.42 | 218.58 | 9.46% |
| Cereals, cassava and their products | 120.56 | 139.97 | 167.89 | 179.67 | 179.67 | 14.22% | 125.73 | 132.28 | 132.28 | 132.28 | 214.13 | 11.24% |
| Meat and its products | 161.56 | 180.34 | 205.96 | 225.92 | 225.92 | 11.83% | 169.60 | 174.07 | 174.07 | 174.07 | 250.21 | 8.09% |
| Fresh fish | 142.35 | 159.99 | 173.97 | 202.09 | 202.09 | 12.39% | 140.74 | 158.71 | 158.71 | 158.71 | 280.41 | 14.78% |
| Preserved fish | 134.12 | 148.80 | 162.10 | 188.63 | 188.63 | 12.04% | 129.14 | 141.63 | 141.63 | 141.63 | 177.17 | 6.53% |
| Eggs, milk and their products | 148.56 | 154.01 | 161.12 | 178.56 | 178.56 | 6.32% | 148.40 | 151.20 | 151.20 | 151.20 | 196.16 | 5.74% |
| Vegetables | 137.20 | 165.16 | 179.34 | 204.91 | 204.91 | 14.31% | 122.26 | 151.53 | 151.53 | 151.53 | 302.99 | 19.90% |
| Beans and nuts | 135.26 | 147.51 | 155.27 | 173.20 | 173.20 | 8.59% | 157.02 | 177.38 | 177.38 | 177.38 | 197.76 | 4.72% |
| Fruits | 146.14 | 160.47 | 192.67 | 211.17 | 211.17 | 13.05% | 154.25 | 186.26 | 186.26 | 186.26 | 308.16 | 14.84% |
| Spices | 141.97 | 150.05 | 158.25 | 191.41 | 191.41 | 10.47% | 125.53 | 125.22 | 125.22 | 125.22 | 214.11 | 11.27% |
| Fats and oils | 126.61 | 140.41 | 179.49 | 187.04 | 187.04 | 13.89% | 116.49 | 120.72 | 120.72 | 120.72 | 166.16 | 7.36% |
| Soft drinks | 144.12 | 154.64 | 176.53 | 182.01 | 182.01 | 8.09% | 150.21 | 157.55 | 157.55 | 157.55 | 229.90 | 8.88% |
| Prepared food and other food items | 131.93 | 141.17 | 157.03 | 167.49 | 167.49 | 8.28% | 140.08 | 142.68 | 142.68 | 142.68 | 188.06 | 6.07% |
| Housing | 154.88 | 170.09 | 185.12 | 194.81 | 194.81 | 7.95% | 133.19 | 147.91 | 162.98 | 171.04 | 181.40 | 6.37% |
| Costs for housing | 165.58 | 188.30 | 208.59 | 220.75 | 220.75 | 10.06% | 131.91 | 151.03 | 151.03 | 151.03 | 182.79 | 6.74% |
| Fuel, electricity and water | 152.80 | 160.14 | 169.21 | 175.01 | 175.01 | 4.63% | 134.17 | 153.24 | 153.24 | 153.24 | 174.29 | 5.37% |
| Household equipment | 131.33 | 136.41 | 143.29 | 148.17 | 148.17 | 4.10% | 122.48 | 124.49 | 124.49 | 124.49 | 170.39 | 6.83% |
| Household operation | 131.04 | 136.64 | 145.96 | 154.86 | 154.86 | 5.73% | 137.52 | 143.47 | 143.47 | 143.47 | 190.12 | 6.69% |
| Clothing | 135.74 | 144.53 | 153.81 | 164.04 | 164.04 | 6.52% | 124.41 | 139.57 | 139.57 | 139.57 | 157.13 | 4.78% |
| Clothing for men | 139.24 | 147.89 | 156.05 | 167.09 | 167.09 | 6.27% | 138.09 | 145.33 | 145.33 | 145.33 | 167.72 | 3.96% |
| Clothing for women | 136.46 | 143.41 | 151.51 | 159.12 | 159.12 | 5.25% | 122.40 | 131.09 | 131.09 | 131.09 | 149.19 | 4.04% |
| Clothing for children | 151.52 | 163.31 | 179.21 | 193.95 | 193.95 | 8.58% | 122.80 | 134.62 | 134.62 | 134.62 | 157.63 | 5.12% |
| Personal effects | 111.61 | 120.45 | 126.38 | 134.52 | 134.52 | 6.42% | 107.59 | 116.87 | 116.87 | 116.87 | 152.60 | 7.24% |
| Miscellaneous | 150.71 | 158.31 | 168.40 | 184.60 | 184.60 | 6.99% | 133.81 | 152.19 | 157.45 | 183.99 | 190.20 | 7.29% |
| Medical care | 137.59 | 157.28 | 173.67 | 191.02 | 191.02 | 11.56% | 127.43 | 142.64 | 142.64 | 142.64 | 189.60 | 8.27% |
| Personal care and cosmetics | 136.60 | 145.86 | 156.43 | 165.43 | 165.43 | 6.59% | 133.96 | 138.20 | 138.20 | 138.20 | 164.78 | 4.23% |
| Education | 144.95 | 159.65 | 177.49 | 196.25 | 196.25 | 10.63% | 125.76 | 143.74 | 143.74 | 143.74 | 180.93 | 7.55% |
| Recreation and sports | 137.27 | 142.88 | 158.29 | 169.72 | 169.72 | 7.33% | 129.96 | 147.61 | 147.61 | 147.61 | 185.11 | 7.33% |
| Transportation | 160.20 | 162.02 | 165.66 | 182.64 | 182.64 | 4.47% | 139.13 | 163.58 | 163.58 | 163.58 | 200.18 | 7.55% |
| Tobacco and alcoholic drinks | 171.74 | 174.91 | 184.00 | 202.70 | 202.70 | 5.68% | 149.78 | 157.99 | 157.99 | 157.99 | 203.59 | 6.33% |

Source:

- 1) Statistical Year Book of Indonesia 1995, Biro Pusat Statistik Indonesia.
- 2) Statistical Year Book of Indonesia 1996, Biro Pusat Statistik Indonesia.
- 3) Economic Indicator of Semarang City (Indikator Ekonomi Kotamadya Semarang) 1992, Kantor Statistik Kotamadya Semarang.
- 4) Economic Indicator (Indikator Ekonomi) November 1993, Kantor Statistik Kotamadya Semarang.
- 4) Economic Indicator (Indikator Ekonomi) November 1997, Kantor Statistik Kotamadya Semarang.

(Note)

* : Annual average increasing ratio from 1993 to 1996.

** : Annual average increasing ratio from the end of 1992 to November 1997.

Table 2.2.24 EXCHANGE RATE

(Unit : Rp.)

| Year/month | US Dollar (Per US\$100) | | | Japanese Yen (¥100) | | |
|----------------------------|-------------------------|---------|--------|---------------------|---------|--------|
| | Buying | Salling | Mid. | Buying | Salling | Mid. |
| 1992 | | | 2,062 | | | 1,658 |
| 1993 | | | 2,110 | | | 1,891 |
| 1994 | | | 2,200 | | | 2,206 |
| 1995 | | | 2,308 | | | 2,246 |
| 1996 | | | 2,383 | | | 2,058 |
| 1997 | | | 2,971 | | | 2,437 |
| January | | | 2,396 | | | 1,966 |
| February | | | 2,406 | | | 2,001 |
| March | | | 2,419 | | | 1,956 |
| April | | | 2,433 | | | 1,921 |
| May | | | 2,440 | | | 2,095 |
| June | | | 2,450 | | | 2,148 |
| July | | | 2,599 | | | 2,211 |
| August | | | 3,035 | | | 2,546 |
| September | | | 3,275 | | | 2,716 |
| October | | | 3,670 | | | 3,061 |
| November | | | 3,648 | | | 2,867 |
| December | | | 4,876 | | | 3,758 |
| Dec. 5 | 3,910 | 4,010 | 3,960 | 3,013 | 3,092 | 3,053 |
| Dec.12 | 4,712 | 4,828 | 4,770 | 3,626 | 3,717 | 3,672 |
| Dec.19 | 5,212 | 5,338 | 5,275 | 4,036 | 4,137 | 4,087 |
| Dec.26 | 5,434 | 5,566 | 5,500 | 4,169 | 4,274 | 4,222 |
| Annual average fluctuation | | | -7.57% | | | -8.02% |

Source : Bank Indonesia.

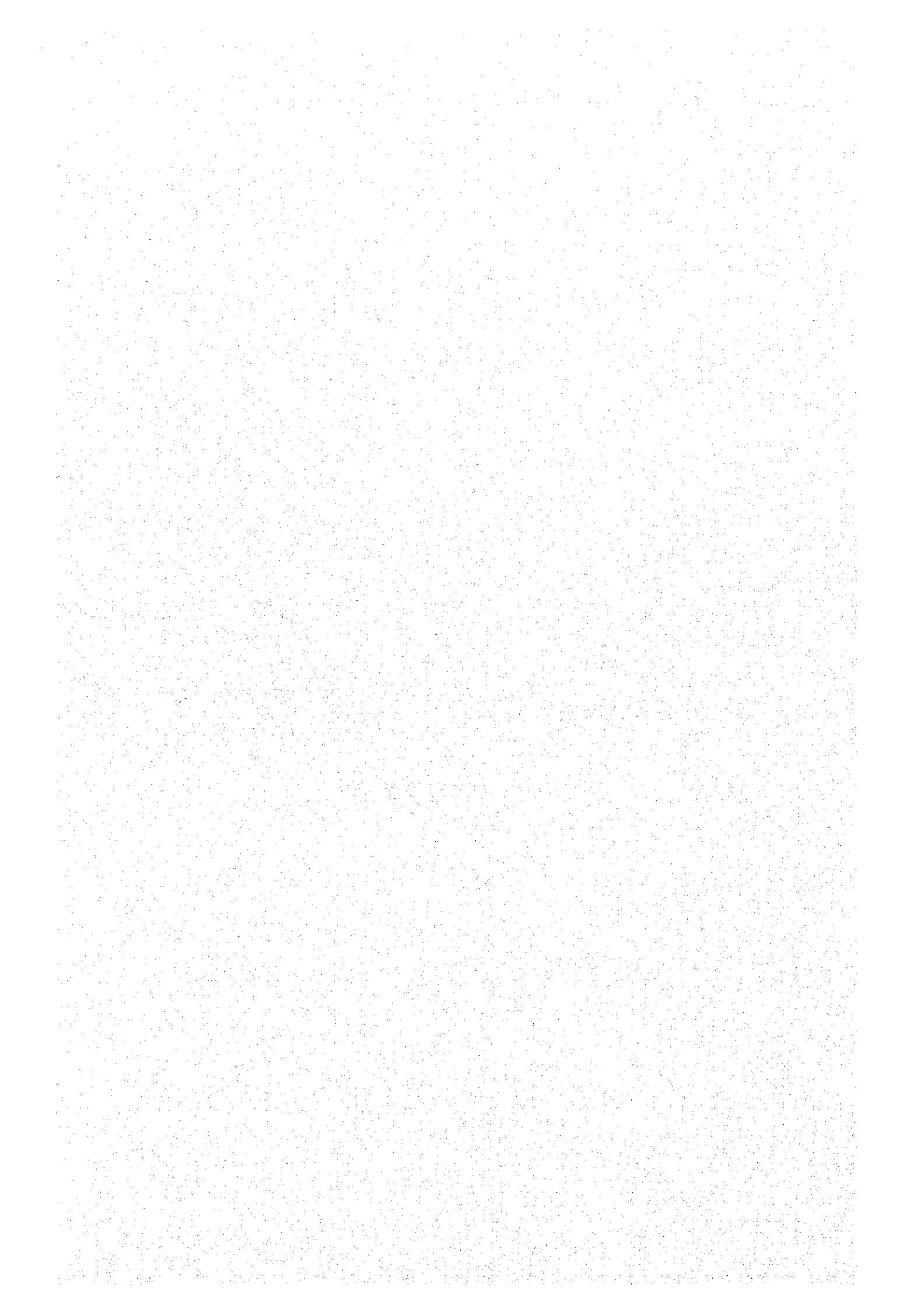
Table 2.3.1 RECORD OF IMPROVEMENT WORKS FOR GARANG RIVER/WEST FLOODWAY

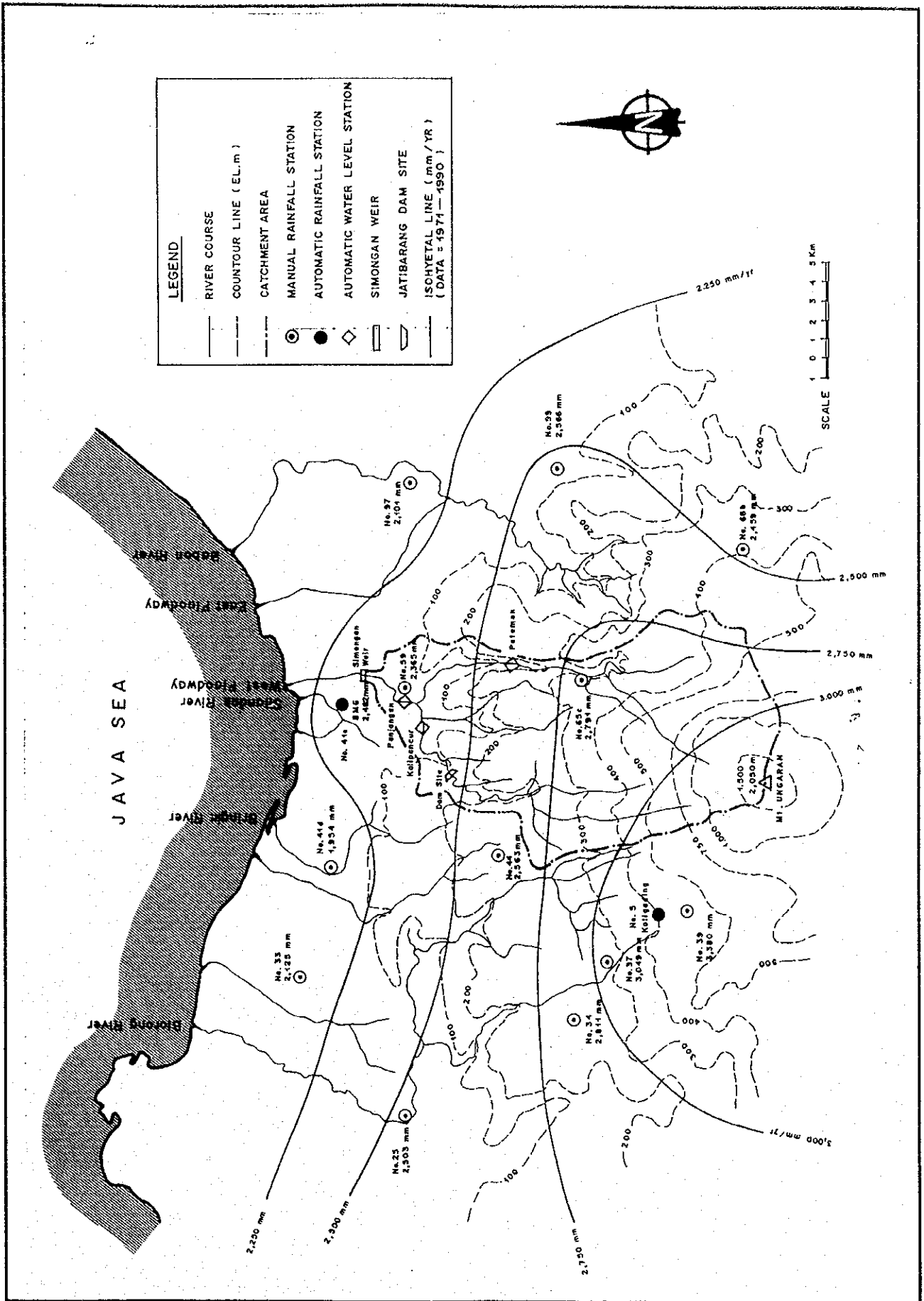
| No. | Item | Year 1989 / 1990 | Year 1990 / 1991 | Year 1991 / 1992 | Year 1992 / 1993 | Year 1993 / 1994 | Year 1996 / 1997 | Year 1997 / 1998 |
|-----|--|--------------------------------------|---|--|--|--|--|--------------------------------------|
| 1. | Land Acquisition/Compensation (1) Land Acquisition (m ²) (2) Compensation (houses) | | | | 36 | | | |
| 2. | Excavation/Dredging (1) Location (2) Volume (m ³) | | Middle reaches of Garang River 1,000 m | | | | | River Mouth 42,236 m ³ |
| 3. | Embankment for Dike (1) Location (2) Length (m) | Upstream of Garang River 950 m | Upstream of Garang River 250 m | | | | | |
| 4. | Flood Retaining Wall (1) Location (2) Length (m) | | | Simongan Weir to Toll Road Br. 502 m | Simongan Weir to Toll Road Br. 475 m | Simongan Weir to Toll Road Br. 480 m | | |
| 5. | River Bank Protection (1) Location (2) Length (m) (3) Structural Type | | Downstream of Garang River 259 m Gabion Mattress | Upstream of Garang River 841 m Concrete Block | | | | |
| 6. | Other Works/Structures (1) Rehabilitation of Dike (2) Maintenance of Floodplain (3) Side Spillway | | 120 m | Upstream of Garang River 840 m | | | North Ring Road Bridge to Railway Bridge Clearing and Excavation | |

FIGURES

CHAPTER 2

**PRESENT CONDITION OF
THE STDY AREA**

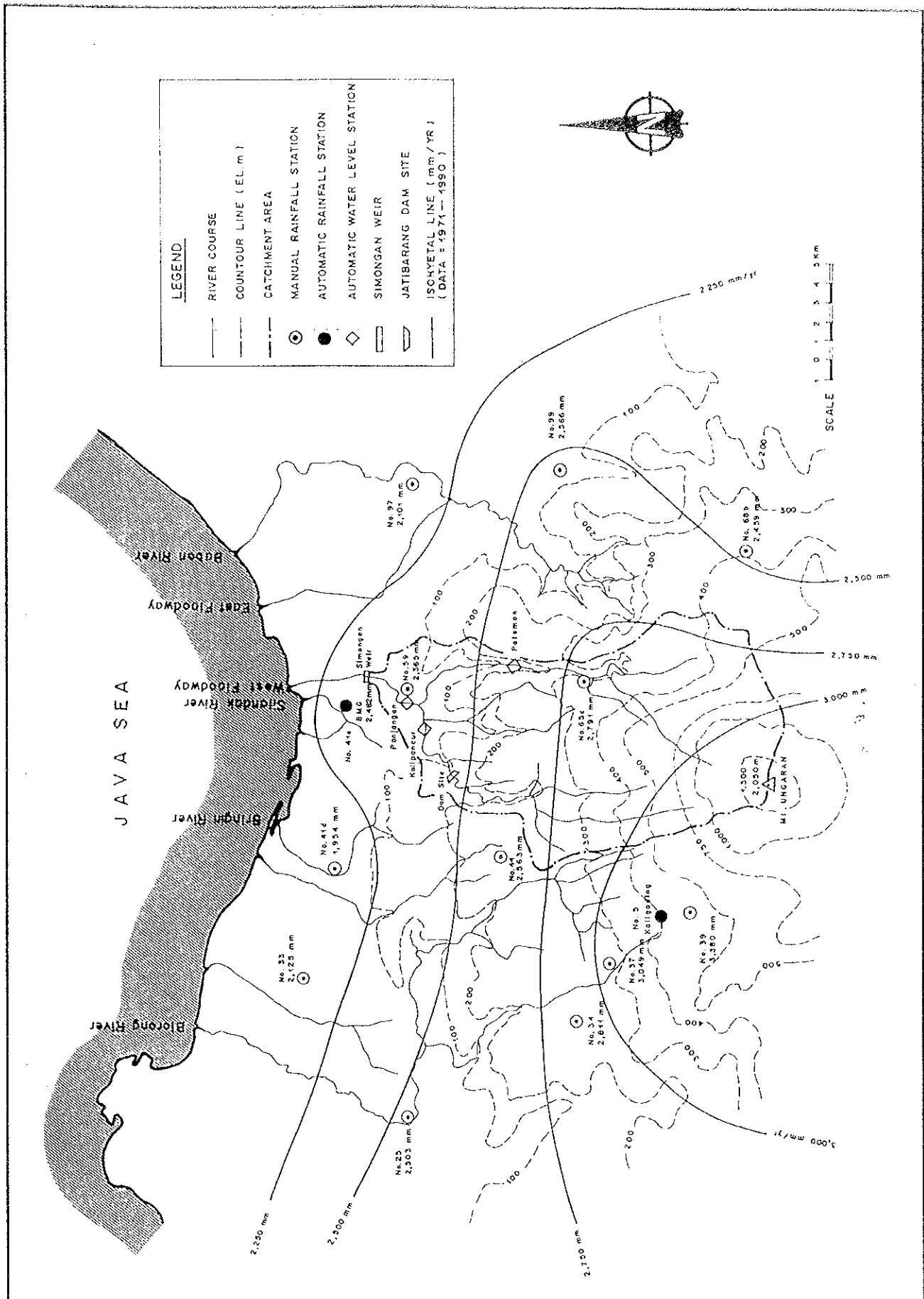




THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.1.1
LOCATION OF OBSERVATORIES AND ISOHYETAL LINE

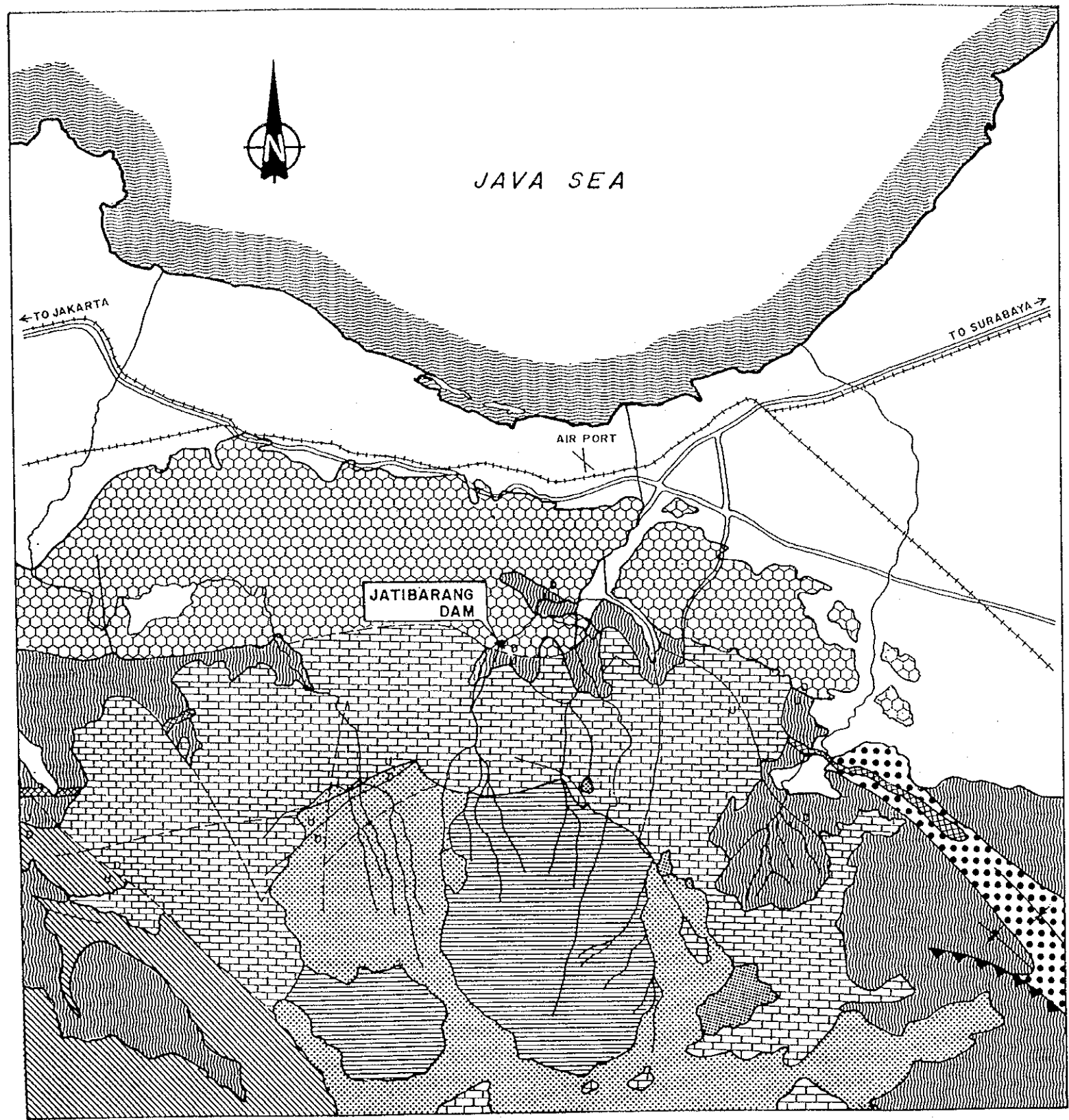
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Fig. 2.1.1
LOCATION OF OBSERVATORIES AND ISOHYETAL LINE



0 2 4 6 8 10 17.5 20 Km

SCALE 1: 200,000

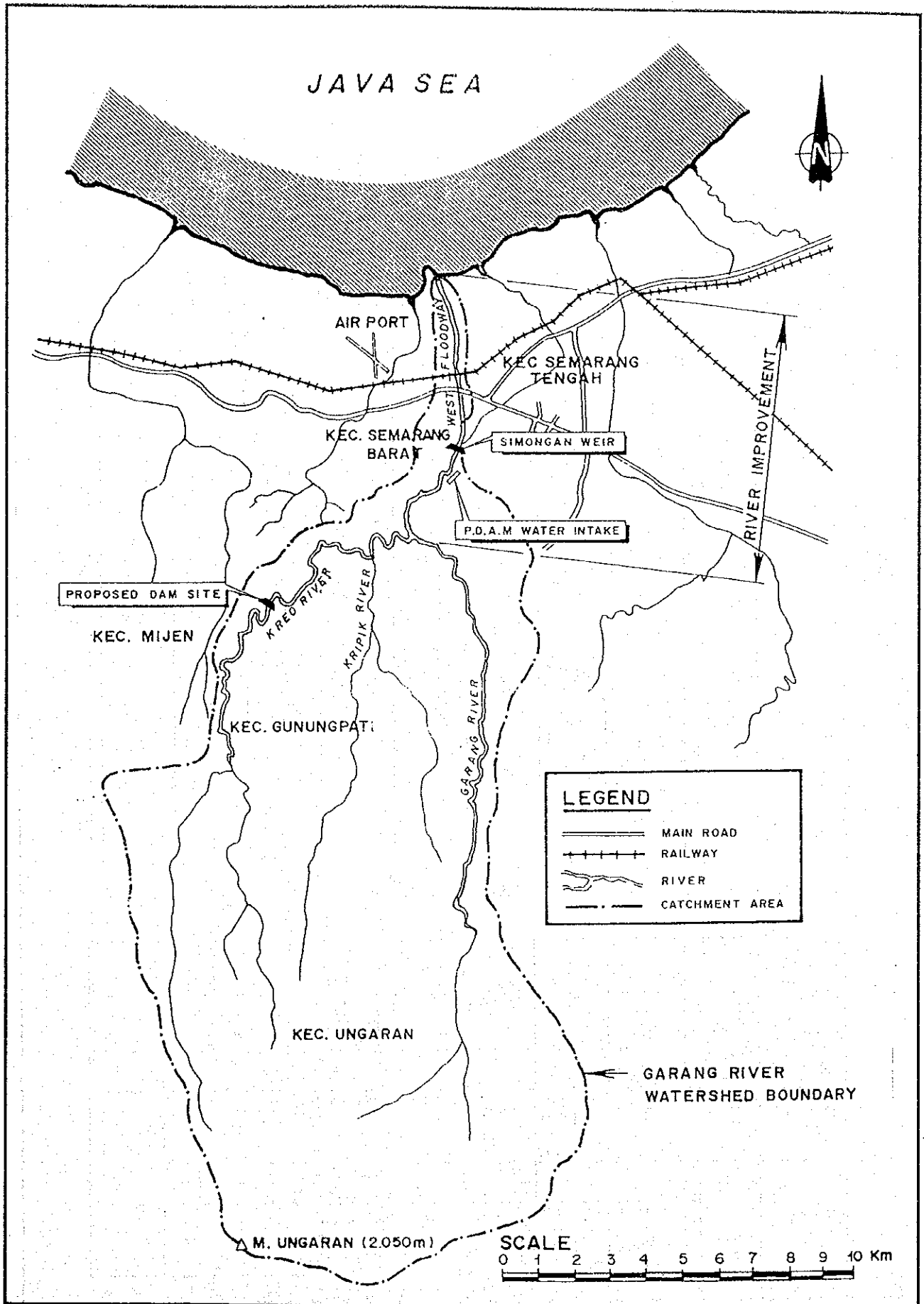
LEGEND :

- ALLUVIUM : COASTAL PLAIN; CLAY AND SAND, STREAM DEPOSITS; SAND, SILT, GRAVEL AND BOULDER
- MIDDLE G. UNGARAN LAHAR AND VOLCANIC ROCK : AUGITE - OLIVINE BASALT FLOWS
- LAVA FLOW OF G. UNGARAN : AUGITE - HORNBLLENDE ANDESITE
- NOTOPURO FORMATION : VOLCANIC BRECCIA, LAVA FLOWS, TUFF, TUFFACEOUS SANDSTONE AND CLAYSTONE
- DAMAR FORMATION : TUFFACEOUS SANDSTONE, CONGLOMERATE, VOLCANIC BRECCIA AND TUFF
- KALIBIUK FORMATION : CLAYSTONE, MARL, SANDSTONE, CONGLOMERATE, VOLCANIC BRECCIA AND TUFF
- BANYAK MEMBER : ALTERNATION OF TUFFACEOUS, SANDSTONE, CALCAREOUS SILTSTONE, SANDSTONE AND PEBBLY SANDSTONE
- PENYATAN FORMATION : SANDSTONE, BRECCIA, TUFF, CLAYSTONE AND LAVA FLOW
- LIMESTONE
- INTRUSIVE ROCKS : AUGITE - HORNBLLENDE ANDESITE AND AUGITE - OLIVINE ANDESITE
- NORMAL FAULT : U = UP
D = DOWN
- REVERSE FAULT
- FOLD AXIS
- INFERRED FAULT

| SURFICIAL DEPOSITS | VOLCANIC ROCKS | SEDIMENTARY ROCKS | GEOLOGICAL AGE | |
|--------------------|----------------|-------------------|----------------|------------|
| | | | HOLOCENE | QUATERNARY |
| | | | PLEISTOCENE | TERTIARY |
| | | | PLIOCENE | |
| | | | MIOCENE | |

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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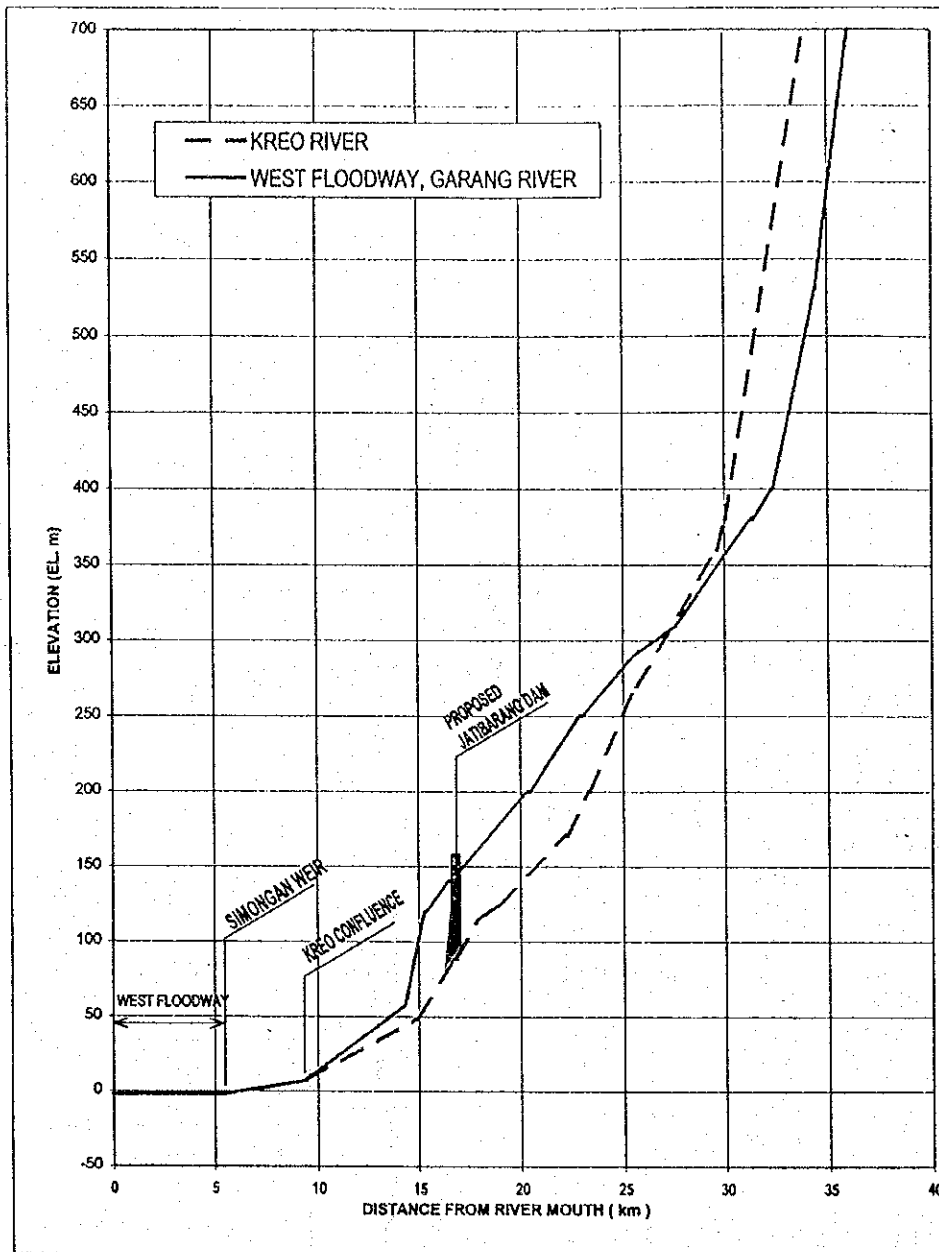
Fig. 2.1.2 REGIONAL GEOLOGICAL MAP AROUND THE STUDY AREA



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.1.3
EXISTING GARANG RIVER SYSTEM

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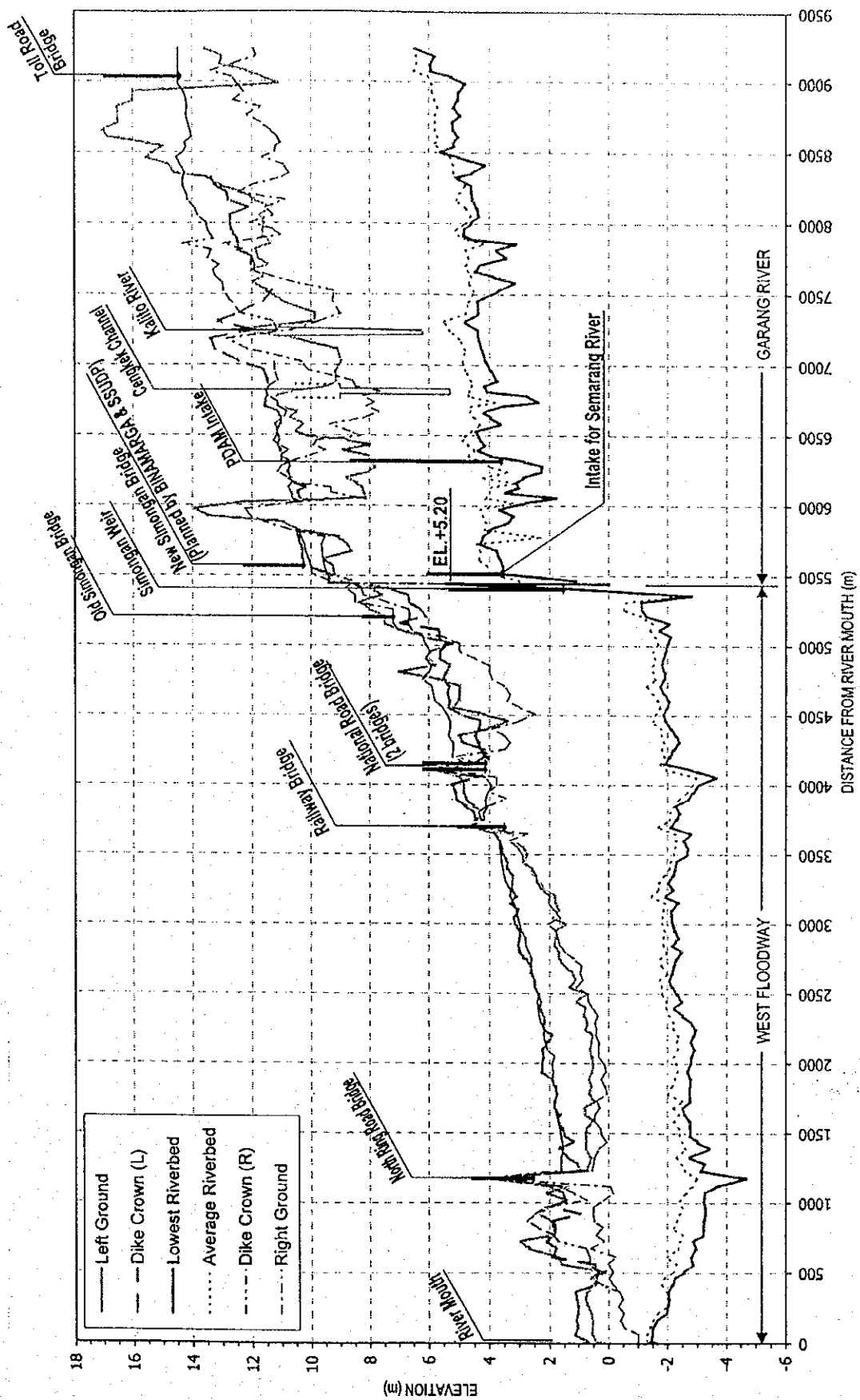


| | | | | | | | | |
|----------------------------|--------|--------------|------------------|--------------------------|--------------------------|-------------------|---------|-----|
| AVERAGE RIVERBED GRADIENT | KREO | | | 1/175 | 1/50 | 1/40 | 1/10 | |
| | GARANG | Flat ~1/5000 | 1/2000 | 1/100 | 1/50 | | 1/15 | 1/5 |
| WIDTH OF RIVER CHANNEL (m) | KREO | | | 30 - 100 | 10 - 30 | | | |
| | GARANG | 90 - 200 | 80 - 150 | 30 - 60 | 60 - 100 | 20 - 40 | 10 - 20 | |
| MEANDERING | KREO | | | Much | | | | |
| | GARANG | Straight | Little | Little | Much | | | |
| RIVERBED MATERIAL | KREO | | | Sand, Gravel and Boulder | | | | |
| | GARANG | Silt | Silt to Sand | Sand to Gravel | Sand, Gravel and Boulder | | | |
| LAND USE | KREO | L | | RA | Agricultural Area | | | |
| | | R | | R.A. | Agricultural Area | | | |
| | GARANG | L | Residential Area | Residential Area | Agricultural Area | | | |
| | | R | Residential Area | Ind. Area | Resident. Area | Agricultural Area | | |

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.1.4 RIVER CHARACTERISTICS OF GARANG

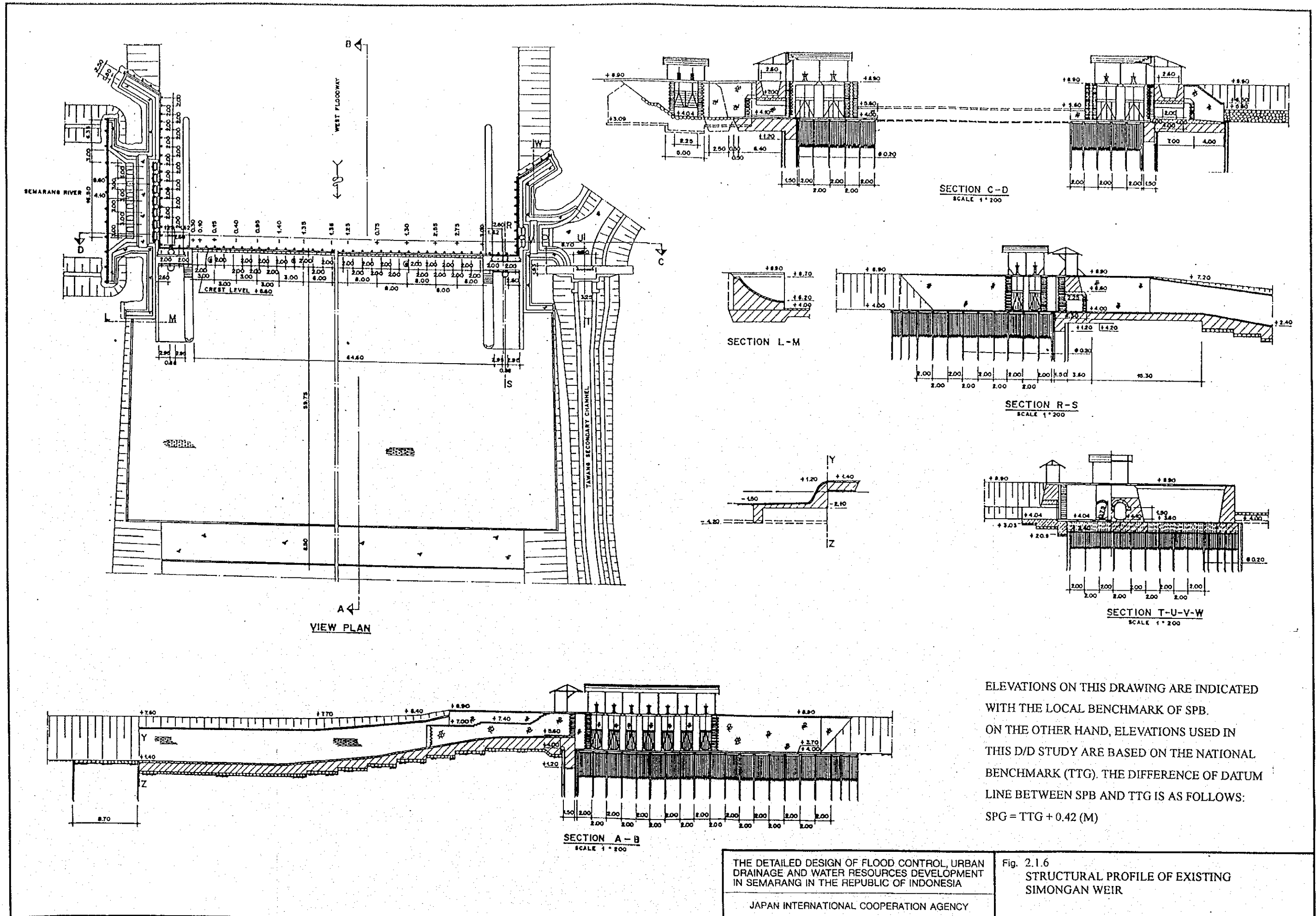
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THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

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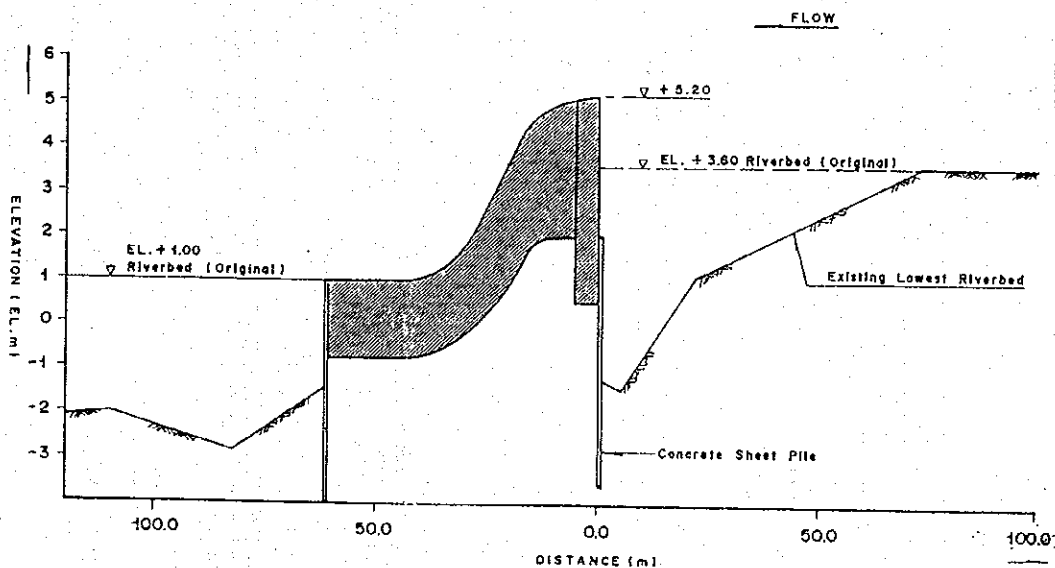
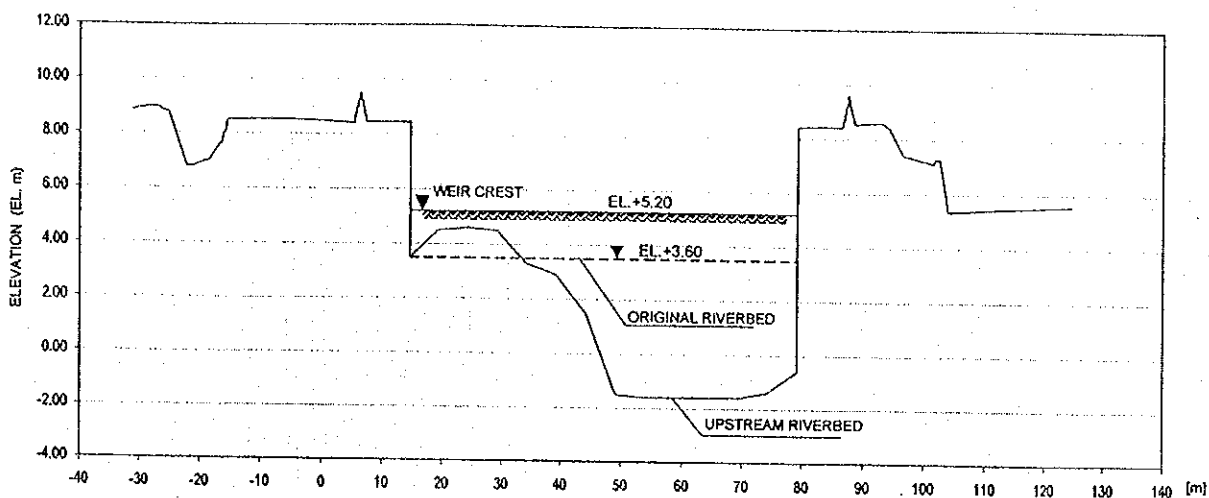
Fig. 2.1.5
EXISTING LONGITUDINAL PROFILE OF WEST FLOODWAY AND GARANG RIVER CHANNELS



ELEVATIONS ON THIS DRAWING ARE INDICATED WITH THE LOCAL BENCHMARK OF SPB. ON THE OTHER HAND, ELEVATIONS USED IN THIS D/D STUDY ARE BASED ON THE NATIONAL BENCHMARK (TTG). THE DIFFERENCE OF DATUM LINE BETWEEN SPB AND TTG IS AS FOLLOWS:
 $SPG = TTG + 0.42 (M)$

Fig. 2.16
STRUCTURAL PROFILE OF EXISTING SIMONGAN WEIR

SIMONGAN WEIR

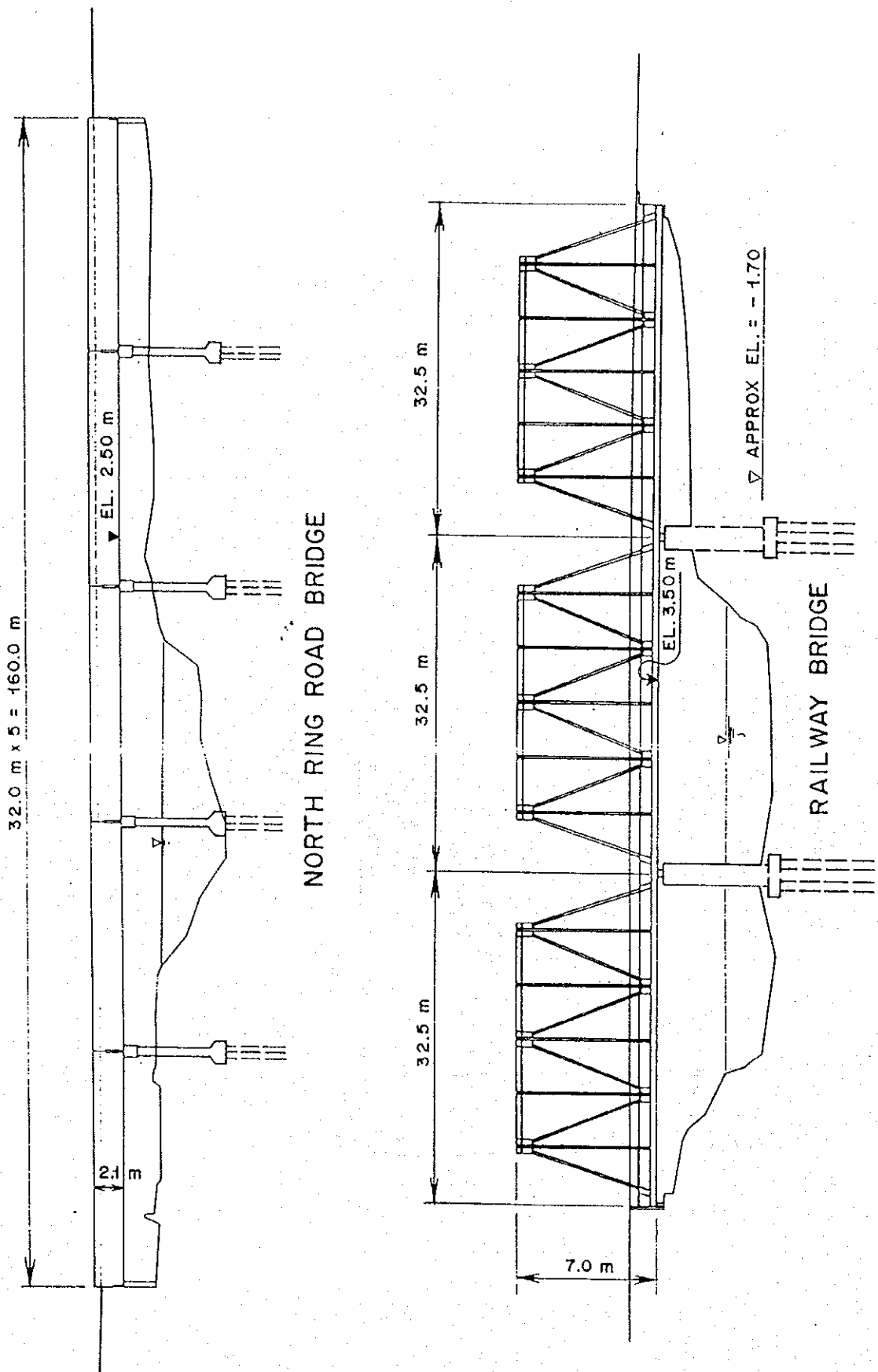


Note : Elevation is Shown With TTD (National Bench Datum)

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

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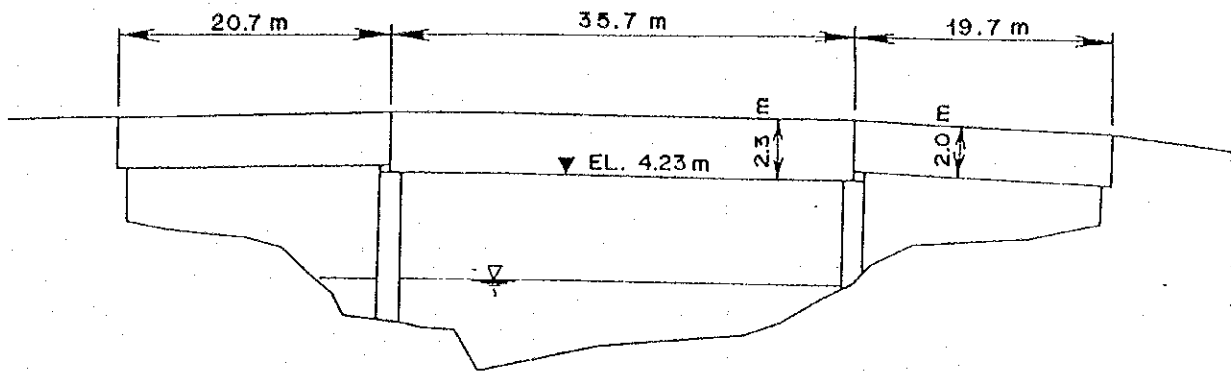
Fig. 2.1.7 RIVERBED LOWERING AROUND SIMONGAN WEIR



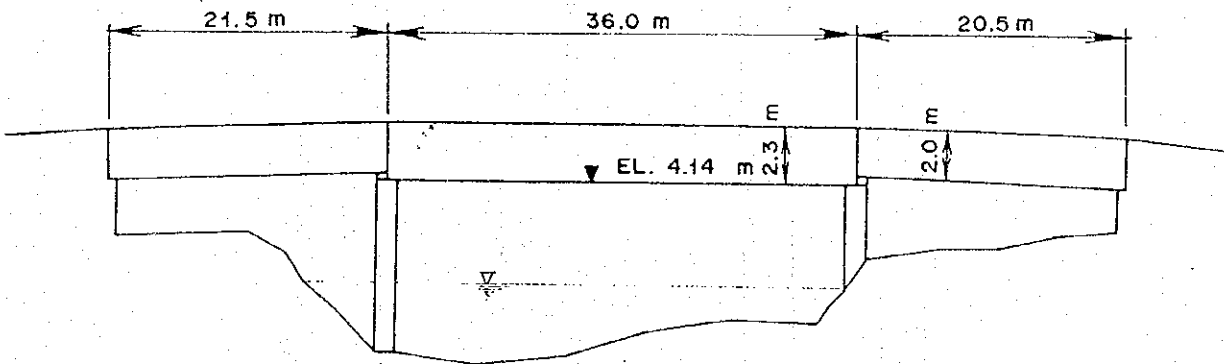
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.1.8 (1/3) EXISTING BRIDGES AND RIVER CROSS SECTIONS

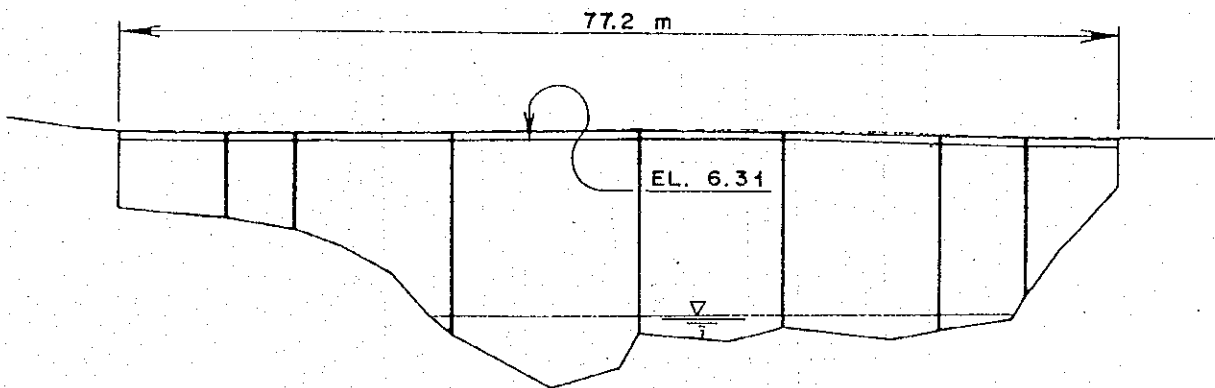
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NATIONAL ROAD BRIDGE (DOWNSTREAM)



NATIONAL ROAD BRIDGE (UPSTREAM)

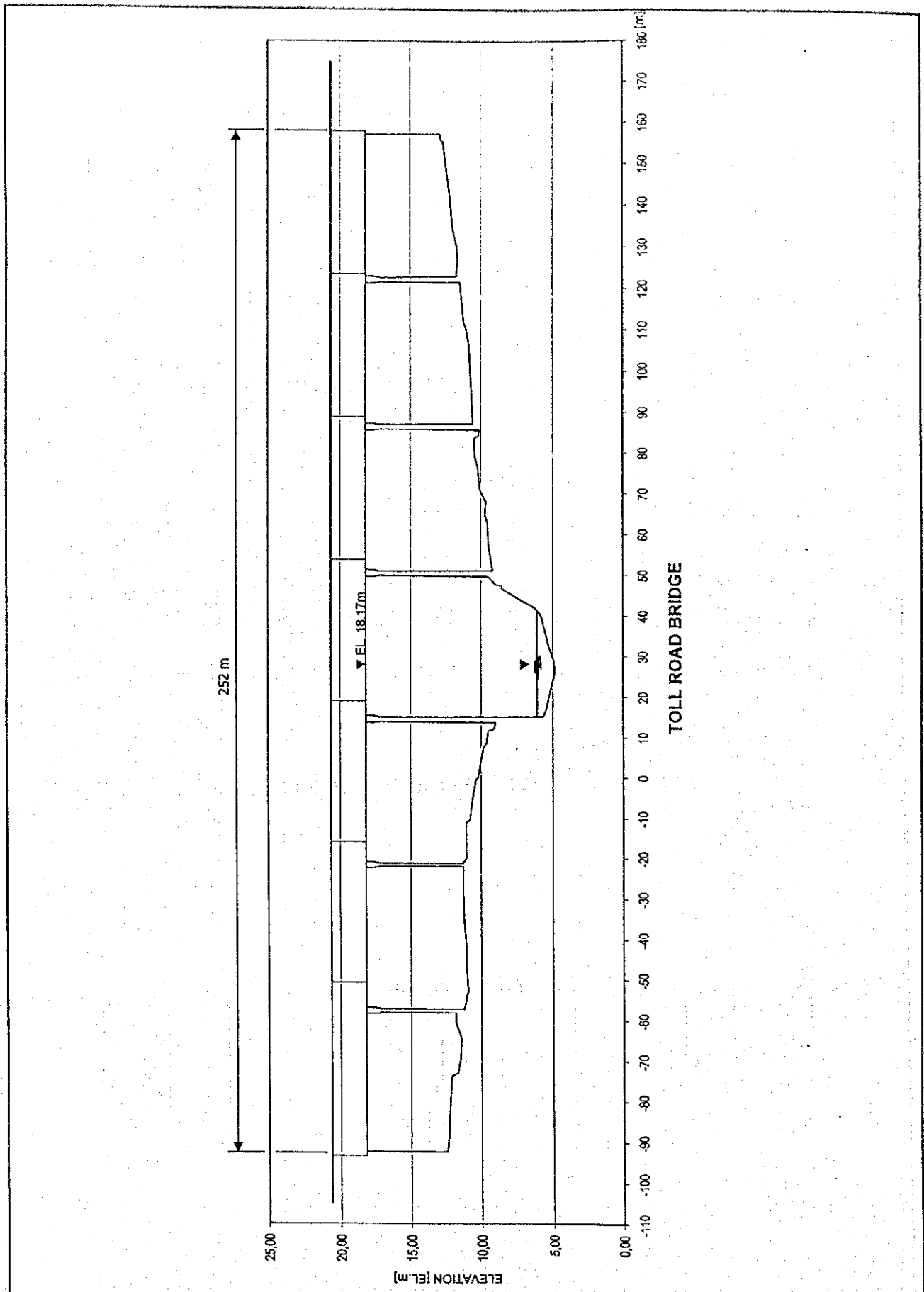


OLD SIMONGAN BRIDGE

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

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Fig. 2.1.8 (2/3)
EXISTING BRIDGES AND RIVER CROSS SECTIONS



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.1.8 (3/3)
EXISTING BRIDGES AND RIVER CROSS SECTIONS

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