

DATA 5

TRAFFIC AND CIRCUIT CALCULATION

Table 5-1 Field Traffic Data of International Ex.

(ZONE : INTS , DATE : 21/09/1992 , TIME : BUSY HOUR)

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.61 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| LSC 1 2W | | OG | 22 | 13.7 | 1639 | 21.1 | 42.9 | 46.3 |
| | | IC | 40 | 29.1 | 1818 | 35.8 | 41.4 | 70.9 |
| LSC 2 4W | | OG | 43 | 31.7 | 1024 | 26.4 | 26.4 | 92.8 |
| | | IC | 21 | 12.8 | 1001 | 17.4 | 20.1 | 62.6 |
| NDA | | OG | 19 | 11.2 | 268 | 6.4 | 6.4 | 86 |
| | | IC | 19 | 11.2 | 280 | 8.4 | 8.4 | 108 |
| KTW | | OG | 21 | 12.8 | 326 | 9.8 | 9.8 | 108.2 |
| | | IC | 29 | 19.5 | 408 | 7.2 | 7.2 | 63.5 |
| RWY | | OG | 10 | 4.4 | 167 | 3.9 | 3.9 | 84.1 |
| | | IC | 8 | 3.1 | 185 | 2.3 | 2.3 | 44.8 |
| CIA | | OG | 4 | 0.9 | 222 | 2 | 2.3 | 32.4 |
| | | IC | 4 | 0.9 | 111 | 1.7 | 1.8 | 55.1 |

Table 5-2 Field Traffic Data of Lusaka Zone

(ZONE : LUSAKA , DATE : 20/02/1992 , TIME : 08:00-09:00)

| Route Name | Route Category | Route No. | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H.T. Sec. |
|------------------|----------------|-----------|---------------|-------------------|-----------------|-----------------|-----------------|----------------|
| MDS | OG | | 130 | 112.5 | 2340 | 71.2 | 71.2 | 110 |
| | IC | | 135 | 117.2 | 4916 | 99.5 | 99.5 | 73 |
| MKN | OG | | 56 | 43.3 | 635 | 13.9 | 13.9 | 79 |
| | IC | | 61 | 47.9 | 934 | 20.6 | 20.6 | 79 |
| ROM | OG | | 118 | 101.1 | 1648 | 50.2 | 50.2 | 119 |
| | IC | | 130 | 112.5 | 2708 | 59.8 | 59.8 | 79 |
| GNK | OG | | 74 | 59.8 | 2817 | 49.7 | 49.7 | 64 |
| | IC | | 114 | 97.3 | 3119 | 59.4 | 59.4 | 69 |
| EHL | OG | | 138 | 120.1 | 4008 | 74.9 | 74.9 | 67 |
| | IC | | 160 | 141.2 | 3628 | 80.3 | 80.3 | 80 |
| LSA | OG | | 20 | 12 | 886 | 9.9 | 20.4 | 40 |
| | IC | | 30 | 28.3 | 881 | 16.2 | 16.4 | 66 |
| CHG | OG | | 18 | 18.4 | 760 | 16.4 | 18.4 | 77 |
| | IC | | 24 | 15.3 | 399 | 10 | 12.7 | 99 |
| KFE | OG | | 45 | 33.4 | 830 | 20.6 | 21.3 | 89 |
| | IC | | 55 | 42.4 | 849 | 15.4 | 22.8 | 65 |
| LSM | OG | | 246 | 226.3 | 3778 | 74.7 | 104.3 | 71 |
| | IC | | 230 | 208.8 | 2356 | 43.4 | 50.7 | 66 |
| IXE 1 INTS | OG | | 40 | 29.1 | 3684 | 37.7 | 58.7 | 38 |
| | IC | | 22 | 13.7 | 793 | 20.9 | 23.5 | 95 |
| IRM | OG | | 8 | 3.1 | 142 | 3.2 | 5.9 | 81 |
| | IC | | 40 | 29 | 377 | 13.7 | 13.7 | 131 |
| RNY | OG | | 165 | 145 | 4188 | 95.9 | 100.8 | 82 |
| | IC | | 108 | 91.6 | 4684 | 85.7 | 86.8 | 67 |
| KTW ZONE | OG | | 150 | 131.6 | 5435 | 86.7 | 86.7 | 57 |
| | IC | | 140 | 122.1 | 3283 | 71.7 | 71.7 | 79 |
| KEL | OG | | 0 | 0 | 0 | 0 | 0 | 0 |
| | IC | | 54 | 41.5 | 455 | 6.4 | 31.6 | 51 |
| NDA ZONE | OG | | 102 | 85.9 | 4925 | 91 | 94.9 | 67 |
| | IC | | 128 | 110.6 | 3932 | 96.5 | 96.5 | 88 |
| LIV ZONE | OG | | 70 | 56.1 | 1396 | 29.9 | 32.2 | 77 |
| | IC | | 70 | 56.1 | 1931 | 36.9 | 36.9 | 69 |
| CTN | OG | | 65 | 51.5 | 1306 | 35.7 | 37.8 | 98 |
| | IC | | 68 | 54.3 | 923 | 27.3 | 27.4 | 106 |
| KBE ZONE | OG | | 74 | 59.8 | 4566 | 46.8 | 54.3 | 37 |
| | IC | | 76 | 61.6 | 1791 | 30.4 | 37.1 | 61 |
| CHP ZONE | OG | | 42 | 30.7 | 2751 | 34.8 | 36.5 | 46 |
| | IC | | 39 | 28.1 | 1519 | 32.5 | 32.5 | 77 |
| CHT ZONE | OG | | 39 | 28.1 | 2712 | 36.1 | 51.1 | 48 |
| | IC | | 68 | 46.9 | 1671 | 28.3 | 28.4 | 61 |
| MGU ZONE | OG | | 60 | 46.9 | 1517 | 20.4 | 22.8 | 48 |
| | IC | | 60 | 46.9 | 983 | 6.2 | 16.2 | 23 |
| MBK | OG | | 12 | 5.9 | 545 | 14.4 | 14.5 | 95 |
| | IC | | 12 | 5.9 | 255 | 5.6 | 6.5 | 79 |
| MWA | OG | | 12 | 5.9 | 313 | 5.6 | 10.2 | 64 |
| | IC | | 12 | 5.9 | 259 | 8.5 | 9.2 | 118 |
| KSA ZONE | OG | | 33 | 22.9 | 3284 | 24.8 | 56.3 | 27 |
| | IC | | 36 | 25.5 | 1131 | 21.6 | 24.3 | 69 |
| MSA ZONE | OG | | 16 | 8.9 | 530 | 9.1 | 9.2 | 62 |
| | IC | | 19 | 10.4 | 384 | 11.6 | 11.7 | 109 |
| SOL ZONE | OG | | 10 | 4.5 | 254 | 7.8 | 12.3 | 111 |
| | IC | | 15 | 8.8 | 332 | 7.2 | 8.6 | 78 |
| IXE 2 INTS | OG | | 21 | 12.9 | 1592 | 16.3 | 18 | 37 |
| | IC | | 23 | 14.5 | 1008 | 15.8 | 10.9 | 56 |
| MGE | OG | | 5 | 1.4 | 50 | 1.7 | 2 | 122 |
| | IC | | 6 | 1.9 | 112 | 1.1 | 2.2 | 35 |
| LGW | OG | | 5 | 1.4 | 53 | 4.4 | 0.4 | 299 |
| | IC | | 6 | 1.9 | 143 | 2.4 | 1.8 | 60 |
| SIA | OG | | 16 | 8.9 | 151 | 7.9 | 6.3 | 100 |
| | IC | | 17 | 9.7 | 381 | 6.1 | 10.6 | 58 |
| CRU | OG | | 5 | 1.4 | 0 | 5 | 0 | 0 |
| | IC | | 6 | 1.9 | 0 | 0 | 0 | 0 |
| CSA | OG | | 9 | 3.8 | 103 | 1.7 | 2.4 | 59 |
| | IC | | 12 | 5.9 | 168 | 2.5 | 3.8 | 64 |
| NPW | OG | | 6 | 1.9 | 16 | 4.6 | 1.3 | 1035 |
| | IC | | 6 | 1.9 | 99 | 1.3 | 2.7 | 47 |
| TOTAL OF OG | | | 1812 | 1466.5 | 57135 | 1003 | 1138.9 | |
| TOTAL OF IC | | | 1974 | 1595.5 | 46404 | 945.8 | 1016.8 | |
| GRAND TOTAL | | | 3786 | 3066 | 103539 | 1948.8 | 2155.7 | |
| TOTAL OF ZONE OG | | | 596 | 475.4 | 27370 | 387.4 | 456.3 | |
| TOTAL OF ZONE IC | | | 643 | 517 | 16957 | 342.9 | 363.9 | |

Table 5-3 Field Traffic Data of Kitwe Zone

(ZONE : KITWE, DATE : 06/10/1992, TIME : Unknown)

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| IXE | INTS | OG | 29 | 19.5 | 537 | 9.3 | 9.3 | 62 |
| | | IC | 21 | 12.8 | 508 | 9.1 | 9.1 | 64.7 |
| IRM | | OG | 10 | 4.5 | 18 | 2.2 | 2.2 | 432 |
| | | IC | 16 | 8.9 | 101 | 4.1 | 4.1 | 144.4 |
| KLU | | OG | 186 | 166.2 | 0 | 0 | 0 | 0 |
| | | IC | 186 | 166.2 | 0 | 0 | 0 | 0 |
| MDL | | OG | 180 | 160.4 | 0 | 0 | 0 | 0 |
| | | IC | 180 | 160.4 | 0 | 0 | 0 | 0 |
| CBB | | OG | 180 | 160.4 | 0 | 0 | 0 | 0 |
| | | IC | 180 | 160.4 | 0 | 0 | 0 | 0 |
| NDA | ZONE | OG | 120 | 103 | 1976 | 52.7 | 52.7 | 95.9 |
| | | IC | 120 | 103 | 4088 | 73.3 | 73.3 | 64.5 |
| LYA | | OG | 75 | 60.1 | 863 | 35.2 | 35.2 | 146.9 |
| | | IC | 76 | 61.7 | 1216 | 37.2 | 37.2 | 110.1 |
| MUF | | OG | 80 | 65.4 | 1048 | 28.3 | 28.3 | 97.2 |
| | | IC | 80 | 65.4 | 3112 | 41.3 | 41.3 | 47.8 |
| CIA | | OG | 65 | 51.5 | 2097 | 50.4 | 50.4 | 86.5 |
| | | IC | 73 | 58.9 | 1819 | 38.3 | 38.3 | 75.7 |
| LSC | ZONE | OG | 145 | 126.7 | 3573 | 97.3 | 97.3 | 98.1 |
| | | IC | 150 | 131.6 | 3574 | 88.1 | 88.1 | 88.7 |
| MSA | ZONE | OG | 24 | 15.3 | 362 | 14.5 | 14.5 | 144.2 |
| | | IC | 28 | 18.6 | 665 | 14.3 | 14.3 | 77.3 |
| KBE | ZONE | OG | 35 | 24.6 | 1371 | 18.4 | 18.4 | 48.4 |
| | | IC | 35 | 24.6 | 695 | 9.3 | 9.3 | 47.9 |
| SOL | ZONE | OG | 32 | 22.1 | 584 | 16.3 | 16.3 | 100.3 |
| | | IC | 40 | 29.1 | 964 | 17.5 | 17.5 | 65.2 |
| KEL | | OG | 150 | 131.6 | 5844 | 136.1 | 141 | 83.8 |
| | | IC | 150 | 131.6 | 1915 | 40.3 | 40.3 | 75.7 |
| KET | | OG | 50 | 37.9 | 1172 | 18 | 18 | 55.4 |
| | | IC | 45 | 33.4 | 435 | 8 | 8 | 66 |
| CPT | ZONE | OG | 10 | 4.5 | 165 | 4.8 | 4.9 | 104.1 |
| | | IC | 10 | 4.5 | 155 | 2.1 | 2.1 | 49.5 |
| LIV | ZONE | OG | 16 | 8.9 | 147 | 5.1 | 5.1 | 125.1 |
| | | IC | 20 | 12.1 | 217 | 5.8 | 5.8 | 95.7 |
| TOTAL OF OG | | | 1387 | 1162.6 | 19757 | 488.6 | 493.6 | |
| TOTAL OF IC | | | 1410 | 1183.2 | 19464 | 388.7 | 388.7 | |
| GRAND TOTAL | | | 2797 | 2345.8 | 39221 | 877.3 | 882.3 | |
| TOTAL OF ZONE OG | | | 382 | 305.1 | 8178 | 209.1 | 209.2 | |
| TOTAL OF ZONE IC | | | 403 | 323.5 | 10358 | 210.4 | 210.4 | |

Table 5-4 Field Traffic Data of Ndola Zone

(ZONE : NDOLA, DATE : 21/09/1992, TIME : 09:30-10:30)

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| LSC | ZONE | OG | 145 | 126.7 | 4522 | 101.7 | 101.7 | 81 |
| | | IC | 109 | 92.5 | 2640 | 85.9 | 85.9 | 117 |
| KTF | ZONE | OG | 120 | 103.1 | 4292 | 84.34 | 84.34 | 71 |
| | | IC | 120 | 103.1 | 2302 | 57.14 | 57.14 | 89 |
| IXE | | OG | 19 | 11.2 | 302 | 8.8 | 8.8 | 105 |
| | | IC | 19 | 11.2 | 308 | 6.6 | 6.6 | 77 |
| LIV | ZONE | OG | 10 | 4.5 | 167 | 4.92 | 5.01 | 106 |
| | | IC | 10 | 4.5 | 122 | 5.39 | 5.56 | 159 |
| CPT | ZONE | OG | 6 | 1.9 | 125 | 3.24 | 3.54 | 93 |
| | | IC | 6 | 1.9 | 91 | 2.97 | 3.16 | 117 |
| KSA | ZONE | OG | 8 | 3.1 | 143 | 4.05 | 4.21 | 102 |
| | | IC | 8 | 3.1 | 209 | 6.97 | 12.35 | 120 |
| LYA | | OG | 20 | 12 | 594 | 15.59 | 17.09 | 94 |
| | | IC | 20 | 12 | 573 | 15.59 | 17.09 | 98 |
| MUF | | OG | 20 | 12 | 508 | 7.61 | 7.61 | 54 |
| | | IC | 20 | 12 | 491 | 9.86 | 9.86 | 72 |
| CIA | | OG | 14 | 7.4 | 612 | 8.58 | 8.85 | 50 |
| | | IC | 25 | 16.1 | 497 | 12.14 | 12.14 | 88 |
| KBE | ZONE | OG | 16 | 8.9 | 159 | 5.64 | 5.64 | 128 |
| | | IC | 12 | 5.9 | 306 | 7.64 | 8.07 | 90 |
| MSA | ZONE | OG | 11 | 5.2 | 307 | 5.02 | 5.02 | 8 |
| | | IC | 13 | 6.6 | 256 | 6.39 | 6.39 | 8 |
| MAI | | OG | 5 | 1.4 | 72 | 2.33 | 2.51 | 117 |
| | | IC | 6 | 1.9 | 153 | 3.85 | 4.59 | 91 |
| IRM | | OG | 8 | 3.1 | 1 | 0 | 0 | 0 |
| | | IC | 8 | 3.1 | 29 | 0.55 | 0.55 | 68 |
| TOTAL OF OG | | | 402 | 300.5 | 11804 | 251.82 | 254.32 | |
| TOTAL OF IC | | | 376 | 273.9 | 7977 | 220.99 | 229.4 | |
| GRAND TOTAL | | | 778 | 574.4 | 19781 | 472.81 | 483.72 | |
| TOTAL OF ZONE OG | | | 316 | 253.4 | 9715 | 208.91 | 209.46 | |
| TOTAL OF ZONE IC | | | 278 | 217.6 | 5926 | 172.4 | 178.57 | |

Table 5-5 Field Traffic Data of Mansa Zone

(ZONE : MANSA, DATE : 19/03/91, TIME : 10:00-11:00)

| Route Name | Route Category | Route Status | No. of Trunks | Max.Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H.T. Sec. |
|------------------|----------------|--------------|---------------|------------------|-----------------|-----------------|-----------------|----------------|
| KET | ZONE | OG | 28 | 18.7 | 665 | 9.4 | 9.4 | 51 |
| | | IC | 24 | 15.3 | 445 | 10.1 | 10.1 | 82 |
| MSE | | OG | 6 | 1.9 | 91 | 3.8 | 4.5 | 150 |
| | | IC | 7 | 2.5 | 207 | 3 | 3.1 | 52 |
| NCE | | OG | 6 | 1.9 | 202 | 4.9 | 8.1 | 87 |
| | | IC | 7 | 2.5 | 284 | 5.4 | 7.5 | 68 |
| KWA | | OG | 9 | 3.8 | 276 | 6.2 | 7.1 | 81 |
| | | IC | 11 | 5.2 | 569 | 7.4 | 8.1 | 47 |
| SFA | | OG | 9 | 3.8 | 187 | 7.4 | 10.6 | 142 |
| | | IC | 11 | 5.2 | 283 | 5.8 | 6 | 74 |
| KSA | ZONE | OG | 4 | 0.9 | 162 | 1.7 | 1.9 | 38 |
| | | IC | 4 | 0.9 | 76 | 1.3 | 1.4 | 62 |
| LSC | ZONE | OG | 19 | 11.2 | 757 | 9.3 | 9.3 | 44 |
| | | IC | 16 | 8.9 | 249 | 7.5 | 7.5 | 108 |
| NDA | ZONE | OG | 12 | 5.9 | 195 | 4.7 | 4.7 | 87 |
| | | IC | 11 | 5.2 | 162 | 4.2 | 4.2 | 93 |
| TOTAL OF OG | | | 93 | 48.1 | 2535 | 47.4 | 55.6 | |
| TOTAL OF IC | | | 91 | 45.7 | 2275 | 44.7 | 47.9 | |
| GRAND TOTAL | | | 184 | 93.8 | 4810 | 92.1 | 103.5 | |
| TOTAL OF ZONE OG | | | 63 | 36.7 | 1779 | 25.1 | 25.3 | |
| TOTAL OF ZONE IC | | | 55 | 30.3 | 932 | 23.1 | 23.2 | |

Table 5-6 Field Traffic Data of L/Stone Zone

ZONE : L/STONE, DATE : 14/09/92, TIME : 10:30-11:30

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| LSC | ZONE | OG | 70 | 56.1 | 1741 | 41.63 | 41.63 | 86 |
| | | IC | 70 | 56.1 | 1121 | 30.56 | 30.56 | 98 |
| CHT | ZONE | OG | 17 | 8.9 | 520 | 8.66 | 8.66 | 60 |
| | | IC | 16 | 8.9 | 318 | 9.34 | 7.4 | 106 |
| KET | ZONE | OG | 20 | 12.1 | 374 | 8.78 | 8.78 | 85 |
| | | IC | 16 | 8.8 | 105 | 4.42 | 4.42 | 152 |
| NDA | ZONE | OG | 10 | 4.5 | 141 | 5.2 | 4.1 | 133 |
| | | IC | 10 | 4.5 | 117 | 4.68 | 4.1 | 144 |
| V/FALLS | | OG | 5 | 1.4 | 22 | 0.22 | 0.22 | 78 |
| | | IC | 5 | 1.4 | 4 | 0.03 | 0.03 | 134 |
| MGU | ZONE | OG | 6 | 1.9 | 90 | 1.95 | 1.3 | 78 |
| | | IC | 6 | 1.9 | 42 | 1.56 | 1.56 | 134 |
| TOTAL OF OG | | | 128 | 84.9 | 2888 | 66.44 | 64.69 | |
| TOTAL OF IC | | | 123 | 81.6 | 1707 | 50.59 | 48.07 | |
| GRAND TOTAL | | | 251 | 166.5 | 4595 | 117.03 | 112.76 | |
| TOTAL OF ZONE OG | | | 123 | 83.5 | 2866 | 66.22 | 64.47 | |
| TOTAL OF ZONE IC | | | 118 | 80.2 | 1703 | 50.56 | 48.04 | |

Table 5-7 Field Traffic Data of Choma

ZONE : CHOMA, DATE : , TIME :

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|---------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| NOT AVAILABLE | | | | | | | | |

Table 5-8 Field Traffic Data of Kasama Zone

ZONE : KASAMA, DATE : 30/05/1990, TIME : 10:00-11:00

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| LSC | ZONE | OG | 36 | 25.5 | 1327 | 21.9 | 21.9 | 59 |
| | | IC | 33 | 22.9 | 1317 | 22 | 22 | 60 |
| CSI | | OG | 7 | 2.5 | 72 | 1.5 | 1.5 | 75 |
| | | IC | 8 | 3 | 155 | 2.8 | 2.8 | 65 |
| ISO | | OG | 8 | 3.1 | 145 | 1.7 | 1.7 | 42 |
| | | IC | 10 | 4.5 | 207 | 4.7 | 4.7 | 82 |
| LWG | | OG | 8 | 3.1 | 70 | 3.5 | 3.6 | 180 |
| | | IC | 9 | 3.8 | 309 | 4.3 | 4.4 | 50 |
| MLA | | OG | 10 | 4.5 | 149 | 4.5 | 4.5 | 109 |
| | | IC | 12 | 5.9 | 511 | 7.3 | 7.6 | 51 |
| MPK | | OG | 17 | 9.6 | 243 | 11.4 | 11.9 | 169 |
| | | IC | 18 | 10.4 | 761 | 8.5 | 8.5 | 40 |
| MPO | | OG | 8 | 3.1 | 77 | 3.1 | 3.1 | 145 |
| | | IC | 10 | 4.5 | 270 | 4.3 | 4.3 | 57 |
| MPU | | OG | 4 | 0.9 | 109 | 3.4 | 7.9 | 112 |
| | | IC | 5 | 1.4 | 182 | 2.9 | 3.4 | 57 |
| MGI | | OG | 5 | 1.4 | 31 | 2.8 | 3.3 | 325 |
| | | IC | 5 | 1.4 | 17 | 1.9 | 2 | 402 |
| NAK | | OG | 5 | 1.4 | 75 | 4.3 | 9.3 | 206 |
| | | IC | 6 | 1.9 | 149 | 2.1 | 2.2 | 51 |
| MSA | ZONE | OG | 4 | 0.9 | 47 | 1.3 | 1.4 | 100 |
| | | IC | 4 | 0.9 | 66 | 0.7 | 0.7 | 38 |
| KET | ZONE | OG | 14 | 7.4 | 592 | 5.5 | 5.5 | 33 |
| | | IC | 18 | 10.4 | 78 | 2.7 | 2.7 | 125 |
| NDA | ZONE | OG | 8 | 3.1 | 147 | 3.3 | 3.4 | 81 |
| | | IC | 8 | 3.1 | 246 | 4.4 | 4.7 | 64 |
| TOTAL OF OG | | | 134 | 66.5 | 3084 | 68.2 | 79 | |
| TOTAL OF IC | | | 146 | 74.1 | 4268 | 68.6 | 70 | |
| GRAND TOTAL | | | 280 | 140.6 | 7352 | 136.8 | 149 | |
| TOTAL OF ZONE OG | | | 62 | 36.9 | 2113 | 32 | 32.2 | |
| TOTAL OF ZONE IC | | | 63 | 37.3 | 1707 | 29.8 | 30.1 | |

Table 5-9 Field Traffic Data of Kabwe Zone

ZONE : KABWE, DATE : 13/06/1990, 10:00-11:00

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| LSC | ZONE | OG | 76 | 61.6 | 2454 | 32.1 | 32.1 | 47 |
| | | IC | 74 | 59.8 | 1533 | 36.2 | 36.2 | 85 |
| KET | ZONE | OG | 27 | 17.8 | 884 | 9.7 | 9.7 | 40 |
| | | IC | 35 | 24.6 | 483 | 3.4 | 3.4 | 25 |
| KWP | | OG | 19 | 11.2 | 227 | 2.4 | 2.4 | 38 |
| | | IC | 24 | 15.3 | 809 | 4.3 | 4.3 | 19 |
| CBO | | OG | 5 | 1.4 | 55 | 2.2 | 2.4 | 144 |
| | | IC | 8 | 3.1 | 56 | 1.8 | 1.8 | 116 |
| SER | | OG | 11 | 5.2 | 152 | 4.1 | 4.1 | 97 |
| | | IC | 12 | 5.9 | 259 | 3.2 | 3.2 | 44 |
| MKU | | OG | 17 | 9.6 | 177 | 4.9 | 4.9 | 100 |
| | | IC | 19 | 11.2 | 402 | 4.1 | 4.1 | 37 |
| NDA | ZONE | OG | 12 | 5.9 | 353 | 4.5 | 4.5 | 46 |
| | | IC | 16 | 8.9 | 683 | 4.4 | 4.4 | 23 |
| MINES | | OG | 5 | 1.4 | 131 | 2.7 | 3.1 | 74 |
| | | IC | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL OF OG | | | 172 | 114.1 | 4433 | 62.6 | 63.2 | |
| TOTAL OF IC | | | 188 | 128.8 | 4225 | 57.4 | 57.4 | |
| GRAND TOTAL | | | 360 | 242.9 | 8658 | 120 | 120.6 | |
| TOTAL OF ZONE OG | | | 115 | 85.3 | 3691 | 46.3 | 46.3 | |
| TOTAL OF ZONE IC | | | 125 | 93.3 | 2699 | 44 | 44 | |

Table 5-10 Field Traffic Data of Chipata Zone

ZONE : CHIPATA, DATE : 00/00/00, TIME : 00:00-00:00

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| LSC | ZONE | OG | 49 | | | | | |
| | | IC | 42 | | | | | |
| KET | ZONE | OG | 10 | | | | | |
| | | IC | 10 | | | | | |
| NDA | ZONE | OG | 6 | | | | | |
| | | IC | 6 | | | | | |
| TOTAL OF OG | | | 65 | 0 | 0 | 0 | 0 | |
| TOTAL OF IC | | | 58 | 0 | 0 | 0 | 0 | |
| GRAND TOTAL | | | 123 | 0 | 0 | 0 | 0 | |
| TOTAL OF ZONE OG | | | 65 | 0 | 0 | 0 | 0 | |
| TOTAL OF ZONE IC | | | 58 | 0 | 0 | 0 | 0 | |

Table 5-11 Field Traffic Data of Mongu Zone

ZONE : MONGU, DATE : 11/02/1991, TIME 11:00-12:00

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| LSC ZONE | OG | | 60 | 46.9 | 1521 | 17.5 | 17.5 | 41 |
| | IC | | 60 | 46.9 | 709 | 17.6 | 17.6 | 89 |
| SEN | OG | | 9 | 3.8 | 130 | 6.5 | 7.8 | 180 |
| | IC | | 10 | 4.5 | 242 | 5.2 | 5.7 | 77 |
| KLB | OG | | 6 | 1.9 | 41 | 3.9 | 4.7 | 342 |
| | IC | | 7 | 2.5 | 105 | 4.2 | 4.4 | 144 |
| KAD | OG | | 6 | 1.9 | 173 | 4.9 | 8.1 | 102 |
| | IC | | 9 | 3.8 | 237 | 4.7 | 4.9 | 71 |
| LKV | OG | | 5 | 1.4 | 5 | 0 | 0 | ERROR |
| | IC | | 6 | 1.9 | 0 | 0 | 0 | 0 |
| LIV ZONE | OG | | 6 | 1.9 | 145 | 1.1 | 22 | 27 |
| | IC | | 6 | 1.9 | 75 | 1.1 | 0.1 | 53 |
| TOTAL OF OG | | | 92 | 57.8 | 2015 | 33.9 | 60.1 | |
| TOTAL OF IC | | | 98 | 61.5 | 1368 | 32.8 | 32.7 | |
| GRAND TOTAL | | | 190 | 119.3 | 3383 | 66.7 | 92.8 | |
| TOTAL OF ZONE OG | | | 66 | 48.8 | 1666 | 18.6 | 39.5 | |
| TOTAL OF ZONE IC | | | 66 | 48.8 | 784 | 18.7 | 17.7 | |

Table 5-12 Field Traffic Data of Solwezi Zone

ZONE : SOLWEZI, DATE : 26/10/1992, TIME : 00:00-00:00

| Route Name | Route Category | Route Status | No. of Trunks | Max. Trf GOS=0.01 | No. of Attempts | Carried Traffic | Offered Traffic | Mean H. T. Sec. |
|------------------|----------------|--------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| KET ZONE | OG | | 40 | 29 | 1530 | 24.6 | 24.6 | 57.8 |
| | IC | | 32 | 22.1 | 306 | 8.5 | 8.5 | 99.6 |
| KBO | OG | | 6 | 1.9 | 191 | 2.9 | 7.1 | 54.8 |
| | IC | | 7 | 2.5 | 236 | 5.1 | 1.9 | 77 |
| ZBI | OG | | 6 | 1.9 | 302 | 4.8 | 7.4 | 56.9 |
| | IC | | 7 | 2.5 | 151 | 4.7 | 5.6 | 111.8 |
| MWN | OG | | 6 | 1.9 | 255 | 3.3 | 3.7 | 47 |
| | IC | | 7 | 2.5 | 240 | 5.4 | 7.5 | 81.2 |
| KPA | OG | | 6 | 1.9 | 150 | 3.8 | 4.6 | 91.9 |
| | IC | | 7 | 2.5 | 148 | 4.9 | 6.1 | 120.2 |
| CZA | OG | | 5 | 1.4 | 64 | 1.9 | 2 | 107.4 |
| | IC | | 6 | 1.9 | 180 | 4.7 | 7 | 93.8 |
| LSC ZONE | OG | | 15 | 8.1 | 1330 | 12.4 | 15.3 | 33.5 |
| | IC | | 10 | 4.5 | 223 | 7.4 | 8.7 | 118.8 |
| TOTAL OF OG | | | 84 | 46.1 | 3822 | 53.7 | 64.7 | |
| TOTAL OF IC | | | 76 | 38.5 | 1484 | 40.7 | 45.3 | |
| GRAND TOTAL | | | 160 | 84.6 | 5306 | 94.4 | 110 | |
| TOTAL OF ZONE OG | | | 55 | 37.1 | 2860 | 37 | 39.9 | |
| TOTAL OF ZONE IC | | | 42 | 26.6 | 529 | 15.9 | 17.2 | |

Table 5-13 Field Data of Service Quality (1/2)

ZONE : LUSAKA, DATE : 20/02/92, TIME : 08:00-09:00

| | ATTEMPTED CALLS | ANSWERED CALLS | COMPL. RATIO |
|----------------------|--------------------|-------------------|-----------------|
| INTRA-OFFICE CALLS | 10590 | 3740 | 35.3 |
| INCOMING CALLS | 46473 | 9300 | 20 |
| ORIGINATING STD CALL | 14958 | 4002 | 26.8 |
| TRANSIT CALLS | 25589 | 6074 | 23.7 |
| IC TERMINATING CALLS | 14204 | 5058 | 35.6 |
| OUTGOING CALLS | 40547 | 6074 | 15 |

ZONE : KITWE, DATE : 06/10/92, TIME :

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| INTRA-OFFICE CALLS | 4930 | 4558 | 2109 | 92.5 | 42.8 |
| INCOMING CALLS | 19979 | 5513 | 3574 | 27.6 | 17.9 |
| ORIGINATING STD CALL | 8604 | 6374 | 1783 | 74.1 | 20.7 |
| TRANSIT CALLS | 9012 | 2817 | 1758 | 31.3 | 19.5 |
| IC TERMINATING CALLS | 4205 | 2563 | 1683 | 61 | 40 |
| OUTGOING CALLS | 17616 | 9191 | 3541 | 52.2 | 20.1 |

ZONE : NDOLA, DATE : 21/09/92, TIME : 09:30-10:30

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| INTRA-OFFICE CALLS | 23568 | 12155 | 5879 | 51.6 | 24.9 |
| INCOMING CALLS | | | | | |
| ORIGINATING STD CALL | 11785 | 6315 | 2894 | 53.6 | 24.6 |
| TRANSIT CALLS | 170 | 72 | 44 | 42.4 | 25.9 |
| IC TERMINATING CALLS | 7772 | 5332 | 2791 | 68.6 | 35.9 |
| OUTGOING CALLS | | | | | |

ZONE : MANSA, DATE : 19/03/91, TIME : 10:00-11:00

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| INTRA-OFFICE CALLS | 752 | 714 | 272 | 94.9 | 36.2 |
| INCOMING CALLS | 2284 | 529 | 315 | 23.2 | 13.8 |
| ORIGINATING STD CALL | 1023 | 409 | 198 | 40 | 19.4 |
| TRANSIT CALLS | 570 | 170 | 103 | 29.8 | 18.1 |
| IC TERMINATING CALLS | 615 | 492 | 211 | 80 | 34.3 |
| OUTGOING CALLS | 1593 | 810 | 301 | 50.8 | 18.9 |

ZONE : L/STONE, DATE : 14/09/92, TIME : 10:30-11:30

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| INTRA-OFFICE CALLS | 752 | 714 | 272 | 94.9 | 36.2 |
| INCOMING CALLS | 2284 | 529 | 315 | 23.2 | 13.8 |
| ORIGINATING STD CALL | 1023 | 409 | 198 | 40 | 19.4 |
| TRANSIT CALLS | 570 | 170 | 103 | 29.8 | 18.1 |
| IC TERMINATING CALLS | 615 | 492 | 211 | 80 | 34.3 |
| OUTGOING CALLS | 1593 | 810 | 301 | 50.8 | 18.9 |

Table 5-13 Field Data of Service Quality (2/2)

ZONE CHOMA DATA NOT AVAILABLE

ZONE : KASAMA, DATE : 30/05/90, TIME : 10:00-11:00

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| IO+IC | 3212 | 1612 | 556 | 50.2 | 17.3 |
| OG+TRANSIT | 1277 | 671 | 384 | 52.5 | 30.1 |
| INTRA-OFFICE CALLS | | | | | |
| INCOMING CALLS | | | | | |
| ORIGINATING STD CALL | | | | | |
| TRANSIT CALLS | | | | | |
| IC TERMINATING CALLS | | | | | |
| OUTGOING CALLS | | | | | |

ZONE : KABWE, DATE : 13/06/90, TIME : 10:00-11:00

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| IO+IC | 4693 | 1927 | 674 | 41.1 | 14.4 |
| OG+TRANSIT | 3431 | 1868 | 1288 | 54.4 | 37.5 |
| INTRA-OFFICE CALLS | | | | | |
| INCOMING CALLS | | | | | |
| ORIGINATING STD CALL | | NOT AVAILABLE | | | |
| TRANSIT CALLS | | | | | |
| IC TERMINATING CALLS | | | | | |
| OUTGOING CALLS | | | | | |

ZONE : CHIPATA, DATA NOT AVAILABLE

ZONE : MONGU, DATE : 11/02/91, TIME : 11:00-12:00

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| IO+IC | | | | | |
| OG+TRANSIT | | | | | |
| INTRA-OFFICE CALLS | 618 | 609 | 183 | 98.5 | 29.6 |
| INCOMING CALLS | 1370 | 734 | 323 | 53.6 | 23.6 |
| ORIGINATING STD CALL | 828 | 486 | 155 | 58.7 | 18.7 |
| TRANSIT CALLS | 527 | 185 | 93 | 35.1 | 17.6 |
| IC TERMINATING CALLS | 677 | 549 | 230 | 81.1 | 34 |
| OUTGOING CALLS | 1355 | 690 | 248 | 50.9 | 18.3 |

ZONE : SOLWEZI, DATE : 26/10/92, TIME : 00:00-00:00

| | ATTEMPTED CALLS | COMPLETED CALLS | ANSWERED CALLS | COPM. CALL RATIO | ANS CALL RATIO |
|----------------------|--------------------|--------------------|-------------------|---------------------|-------------------|
| IO+IC | | | | | |
| OG+TRANSIT | | | | | |
| INTRA-OFFICE CALLS | 905 | 886 | 345 | 97.9 | 38.1 |
| INCOMING CALLS | 1486 | 583 | 406 | 39.2 | 27.3 |
| ORIGINATING STD CALL | 1417 | 601 | 262 | 42.4 | 18.5 |
| TRANSIT CALLS | 785 | 372 | 196 | 47.4 | 25 |
| IC TERMINATING CALLS | 465 | 210 | 209 | 45.2 | 44.9 |
| OUTGOING CALLS | 2202 | 973 | 458 | 44.2 | 20.8 |

Table 5-14 Field Distribution

(Source: Specification SW83)

| | | | Erlang |
|-----------|---------|-------|--------|
| LUSAKA | NO. SUB | 10000 | |
| | ORG/L | 0.08 | 800 |
| | TER/L | 0.08 | 800 |
| | Local | 0.5 | 400 |
| | Area | 0.2 | 160 |
| | Trunk | 0.3 | 240 |
| Emmasdale | NO. SUB | 4000 | |
| | ORG/L | 0.05 | 200 |
| | TER/L | 0.045 | 180 |
| | Local | 0.1 | 20 |
| | Area | 0.5 | 100 |
| | Trunk | 0.4 | 80 |
| Roma | NO. SUB | 2500 | |
| | ORG/L | 0.05 | 125 |
| | TER/L | 0.045 | 112.5 |
| | Local | 0.1 | 12.5 |
| | Area | 0.5 | 62.5 |
| | Trunk | 0.4 | 50 |
| Chinika | NO. SUB | 1500 | |
| | ORG/L | 0.08 | 120 |
| | TER/L | 0.08 | 120 |
| | Local | 0.2 | 24 |
| | Area | 0.45 | 54 |
| | Trunk | 0.35 | 42 |
| Makeni | NO. SUB | 1000 | |
| | ORG/L | 0.05 | 50 |
| | TER/L | 0.045 | 45 |
| | Local | 0.05 | 2.5 |
| | Area | 0.5 | 25 |
| | Trunk | 0.45 | 22.5 |
| Mongu | NO. SUB | 1000 | |
| | ORG/L | 0.08 | 80 |
| | TER/L | 0.075 | 75 |
| | Local | 0.45 | 36 |
| | Area | 0.24 | 19.2 |
| | Trunk | 0.31 | 24.8 |
| Solwezi | NO. SUB | 1000 | |
| | ORG/L | 0.08 | 80 |
| | TER/L | 0.078 | 78 |
| | Local | 0.5 | 40 |
| | Area | 0.24 | 19.2 |
| | Trunk | 0.26 | 20.8 |
| Mansa | NO. SUB | 1000 | |
| | ORG/L | 0.08 | 80 |
| | TER/L | 0.075 | 75 |
| | Local | 0.5 | 40 |
| | Area | 0.24 | 19.2 |
| | Trunk | 0.26 | 20.8 |

Table 5-15 Calling Rate Case 1 (1/4)
(Urban Subscriber Type 1)

| CALLING RATE FOR 1992 | | | | | | | |
|-----------------------|----------|----------|-------------|----------|----------|-------------|----------|
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 47,715 | 0.147 | 1 | | 0.147 | 1 | |
| RESIDENT | 78,607 | 0.04 | 1 | | 0.04 | 1 | |
| TOTAL | 126,322 | | | 0.080 | | | 0.080 |
| CALLING RATE FOR 2002 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 67,722 | 0.147 | 1.05 | | 0.147 | 1.05 | |
| RESIDENT | 153,428 | 0.04 | 1.05 | | 0.04 | 1.05 | |
| TOTAL | 221,150 | | | 0.076 | | | 0.076 |
| CALLING RATE FOR 2012 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 95,659 | 0.147 | 1.1 | | 0.147 | 1.1 | |
| RESIDENT | 323,194 | 0.04 | 1.1 | | 0.04 | 1.1 | |
| TOTAL | 418,853 | | | 0.071 | | | 0.071 |

Table 5-15 Calling Rate Case 1 (2/4)
(Urban Subscriber Type 2)

| CALLING RATE FOR 1992 | | | | | | | |
|-----------------------|----------|----------|-------------|----------|----------|-------------|----------|
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 47,715 | 0.147 | 1 | | 0.1415 | 1 | |
| RESIDENT | 78,607 | 0.04 | 1 | | 0.04 | 1 | |
| TOTAL | 126,322 | | | 0.080 | | | 0.078 |
| CALLING RATE FOR 2002 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 67,722 | 0.147 | 1.05 | | 0.1415 | 1.05 | |
| RESIDENT | 153,428 | 0.04 | 1.05 | | 0.04 | 1.05 | |
| TOTAL | 221,150 | | | 0.076 | | | 0.075 |
| CALLING RATE FOR 2012 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 95,659 | 0.147 | 1.1 | | 0.1415 | 1.1 | |
| RESIDENT | 323,194 | 0.04 | 1.1 | | 0.04 | 1.1 | |
| TOTAL | 418,853 | | | 0.071 | | | 0.069 |

Table 5-15 Calling Rate Case 1 (3/4)
 (Urban Subscriber Type 3)

| CALLING RATE FOR 1992 | | | | | | | |
|-----------------------|----------|----------|-------------|----------|----------|-------------|----------|
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 47,715 | 0.147 | 1 | | 0.133 | 1 | |
| RESIDENT | 78,607 | 0.04 | 1 | | 0.04 | 1 | |
| TOTAL | 126,322 | | | 0.080 | | | 0.075 |
| CALLING RATE FOR 2002 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 67,722 | 0.147 | 1.05 | | 0.133 | 1.05 | |
| RESIDENT | 153,428 | 0.04 | 1.05 | | 0.04 | 1.05 | |
| TOTAL | 221,150 | | | 0.076 | | | 0.072 |
| CALLING RATE FOR 2012 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 95,659 | 0.147 | 1.1 | | 0.133 | 1.1 | |
| RESIDENT | 323,194 | 0.04 | 1.1 | | 0.04 | 1.1 | |
| TOTAL | 418,853 | | | 0.071 | | | 0.067 |

Table 5-15 Calling Rate Case 1 (4/4)
(Final Subscriber)

| CALLING RATE FOR 1992 | | | | | | | |
|-----------------------|----------|----------|-------------|----------|----------|-------------|----------|
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 47,715 | 0.0989 | 1 | | 0.085 | 1 | |
| RESIDENT | 78,607 | 0.02 | 1 | | 0.02 | 1 | |
| TOTAL | 126,322 | | | 0.050 | | | 0.045 |
| CALLING RATE FOR 2002 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 67,722 | 0.0989 | 1.075 | | 0.085 | 1.075 | |
| RESIDENT | 153,428 | 0.02 | 1.075 | | 0.02 | 1.075 | |
| TOTAL | 221,150 | | | 0.047 | | | 0.043 |
| CALLING RATE FOR 2012 | | | | | | | |
| ITEM | NO. SUB. | ORG. CR. | GROWTH RATE | AVR. CR. | TER. CR. | GROWTH RATE | AVR. CR. |
| BUSINESS | 95,659 | 0.0989 | 1.15 | | 0.085 | 1.15 | |
| RESIDENT | 323,194 | 0.02 | 1.15 | | 0.02 | 1.15 | |
| TOTAL | 418,853 | | | 0.044 | | | 0.040 |

Table 5-16 Traffic Forecast of Case 1 for the Year 2002 (1/3)

| EXCHANGE NAME A.MOORE# NO | NO. SUB OF Y2002 | ORG TRF/LINE | | | TER TRF/LINE | | | ORG TRF (ERL) | | | TER TRF (ERL) | | | | | |
|------------------------------|---------------------|--------------|---------|---------|--------------|---------|---------|---------------|---------|---------|---------------|---------|---------|---------|---------|---------|
| | | TOTAL | OWN | % AREA | TOTAL | OWN | % AREA | OWN | AREA | TOTAL | OWN | AREA | TOTAL | | | |
| 81 LSCUB1 LUSAKA | 23359 | 8,876 | 58 | 38 | 28 | 8,876 | 58 | 38 | 887.66 | 532.68 | 355.86 | 1775.32 | 887.66 | 532.68 | 355.86 | 1775.32 |
| 82 CHELSTON | 6384 | 8,876 | 20 | 58 | 38 | 8,876 | 58 | 38 | 235.56 | 235.74 | 143.74 | 479.33 | 235.56 | 143.74 | 95.83 | 479.33 |
| 83 CHIRIKA | 2688 | 8,876 | 20 | 58 | 38 | 8,876 | 20 | 58 | 48.85 | 182.13 | 61.28 | 284.27 | 48.85 | 182.13 | 61.28 | 284.27 |
| 84 EHMSDALE | 4886 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 28.71 | 185.55 | 82.84 | 287.38 | 18.95 | 94.74 | 75.79 | 185.48 |
| 85 INT. AIRPORT | 543 | 8,876 | 18 | 58 | 48 | 8,876 | 18 | 58 | 4.13 | 28.64 | 16.51 | 41.27 | 4.13 | 28.64 | 16.51 | 41.27 |
| 86 MAKENI | 2819 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 9.49 | 47.44 | 37.95 | 94.87 | 8.68 | 43.48 | 34.72 | 88.89 |
| 87 RIDGEWAY | 6789 | 8,876 | 58 | 38 | 28 | 8,876 | 58 | 38 | 257.97 | 154.78 | 183.19 | 515.35 | 257.97 | 154.78 | 183.19 | 515.35 |
| 88 ROHA | 5247 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 24.86 | 123.32 | 98.65 | 246.63 | 22.56 | 112.82 | 98.26 | 225.64 |
| 89 WOODLANDS | 11678 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 54.89 | 274.43 | 219.54 | 548.86 | 58.22 | 251.88 | 288.86 | 582.15 |
| 82 LSC 81 CHILANGA | 1121 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 5.27 | 26.34 | 21.87 | 52.68 | 4.82 | 24.18 | 19.28 | 48.19 |
| 82 CHIRUNDU | 295 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 1.39 | 6.94 | 5.55 | 13.88 | 1.27 | 6.35 | 5.88 | 12.76 |
| 83 CHISAMBA | 354 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 1.67 | 8.33 | 6.66 | 16.55 | 1.52 | 7.62 | 6.93 | 15.23 |
| 84 CHONGWE | 223 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 1.85 | 5.24 | 4.19 | 18.48 | 0.98 | 4.88 | 3.84 | 9.59 |
| 85 KAFUE | 4646 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 21.84 | 183.18 | 87.34 | 213.38 | 19.98 | 99.89 | 79.91 | 199.78 |
| 86 LDANGWA | 229 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 1.87 | 5.37 | 4.38 | 18.74 | 0.98 | 4.91 | 3.93 | 9.82 |
| 87 MUNSWA | 680 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 2.82 | 14.09 | 11.27 | 28.18 | 2.53 | 12.89 | 10.31 | 25.78 |
| 88 NAMALUNDU G | 282 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 1.32 | 6.62 | 5.29 | 13.23 | 1.21 | 6.95 | 4.84 | 12.11 |
| 89 MAPUNDWE | 138 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 0.65 | 3.24 | 2.59 | 6.48 | 0.59 | 2.97 | 2.37 | 5.93 |
| 10 SIAYONGA | 697 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 3.28 | 16.39 | 13.11 | 32.78 | 3.08 | 15.88 | 12.88 | 29.99 |
| TOTAL | 71618 | 1836.53 | 1888.18 | 1288.15 | 4516.37 | 1836.53 | 1888.18 | 1288.15 | 1567.58 | 1648.48 | 1181.15 | 4389.12 | 1567.58 | 1648.48 | 1181.15 | 4389.12 |
| 83 KTV 81 KITWE | 21953 | 8,876 | 48 | 48 | 28 | 8,876 | 48 | 48 | 667.37 | 667.37 | 333.69 | 1688.43 | 667.37 | 667.37 | 333.69 | 1688.43 |
| 82 CHAMBERSHI | 716 | 8,847 | 28 | 68 | 28 | 8,843 | 28 | 68 | 6.73 | 28.28 | 5.73 | 33.56 | 6.16 | 18.48 | 6.16 | 38.88 |
| 83 CHILILABOMBWE | 2987 | 8,847 | 28 | 68 | 28 | 8,843 | 28 | 68 | 28.88 | 84.24 | 28.88 | 148.41 | 25.69 | 77.07 | 25.69 | 128.46 |
| 84 CHINGOLA | 9545 | 8,847 | 48 | 48 | 28 | 8,843 | 48 | 48 | 179.44 | 178.44 | 89.72 | 483.88 | 164.17 | 164.17 | 82.98 | 418.42 |
| 85 ITIMPI | 589 | 8,847 | 28 | 68 | 28 | 8,843 | 28 | 68 | 4.79 | 14.36 | 4.79 | 23.94 | 4.38 | 13.14 | 4.38 | 21.59 |
| 86 KALULUSHI | 1672 | 8,847 | 28 | 68 | 28 | 8,843 | 28 | 68 | 15.71 | 47.14 | 15.71 | 78.57 | 14.38 | 43.13 | 14.38 | 71.88 |
| 87 LUANSWA | 4825 | 8,847 | 48 | 48 | 28 | 8,843 | 48 | 48 | 98.71 | 98.71 | 45.36 | 226.78 | 82.59 | 82.59 | 41.58 | 287.48 |
| 88 MUFULIRA | 7548 | 8,847 | 28 | 68 | 28 | 8,843 | 28 | 68 | 78.87 | 212.61 | 78.87 | 354.36 | 64.84 | 194.52 | 64.84 | 324.28 |
| 89 MINDOLO | 4583 | 8,847 | 28 | 68 | 28 | 8,843 | 28 | 68 | 42.33 | 126.98 | 42.33 | 211.64 | 38.72 | 116.17 | 38.72 | 193.62 |
| TOTAL | 54258 | 1186.84 | 1443.87 | 637.23 | 3185.33 | 1186.84 | 1443.87 | 637.23 | 1868.78 | 1877.85 | 611.44 | 3857.19 | 1868.78 | 1877.85 | 611.44 | 3857.19 |
| 84 NDA 81 MAIN | 11274 | 8,876 | 58 | 28 | 38 | 8,876 | 58 | 28 | 428.42 | 171.37 | 257.85 | 855.83 | 428.42 | 171.37 | 257.85 | 855.83 |
| 82 IND. NORTH | 1946 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 9.12 | 45.68 | 36.48 | 91.28 | 8.34 | 41.72 | 33.38 | 83.44 |
| 83 IND. SOUTH | 867 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 4.87 | 28.37 | 16.38 | 48.74 | 3.73 | 18.64 | 14.91 | 37.27 |
| 84 KANUSHI | 4617 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 21.78 | 188.58 | 86.88 | 216.99 | 19.85 | 99.26 | 79.11 | 198.53 |
| 85 KANSENSHI | 3267 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 15.36 | 76.78 | 61.43 | 153.57 | 14.85 | 78.25 | 56.28 | 148.58 |
| 86 NORTBRISE | 2263 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 18.63 | 53.17 | 42.54 | 186.35 | 9.73 | 48.65 | 38.92 | 97.30 |
| 87 PANODZI | 2381 | 8,847 | 18 | 58 | 48 | 8,843 | 18 | 58 | 18.81 | 54.87 | 43.25 | 188.13 | 9.89 | 49.46 | 39.57 | 98.93 |
| 88 HASNAYI | 182 | 8,847 | 28 | 68 | 28 | 8,843 | 28 | 68 | 1.71 | 5.12 | 1.71 | 8.53 | 1.56 | 4.68 | 1.56 | 7.81 |
| TOTAL | 26711 | 581.82 | 534.98 | 545.55 | 1582.34 | 581.82 | 534.98 | 545.55 | 455.57 | 504.83 | 521.88 | 1528.69 | 455.57 | 504.83 | 521.88 | 1528.69 |

Table 5-16 Traffic Forecast of Case 1 for the Year 2002 (2/3)

| A.NO/AREA NO | EXCHANGE NAME | NO. SUB OF V2802 | ORG TRF/LINE | | TER TRF/LINE | | OWN | | ORG TRF (EEL) | | TER TRF (EEL) | | TOTAL | |
|--------------|---------------|------------------|--------------|----------------------|--------------|----------------------|--------|--------|---------------|--------|---------------|--------|--------|--------|
| | | | TOTAL | OWN % AREA % TRUNK % | TOTAL | OWN % AREA % TRUNK % | OWN | TRUNK | AREA | TRUNK | AREA | TRUNK | | |
| 85 | MSA 01 | 3982 | 0.876 | 58 | 20 | 38 | 151.32 | 68.53 | 98.79 | 382.63 | 143.35 | 57.34 | 86.01 | 286.71 |
| | 02 | 594 | 0.847 | 20 | 55 | 25 | 5.58 | 15.34 | 6.97 | 27.89 | 5.10 | 14.84 | 6.38 | 25.52 |
| | 03 | 269 | 0.847 | 20 | 55 | 25 | 2.53 | 6.95 | 3.16 | 12.64 | 2.31 | 6.36 | 2.89 | 11.57 |
| | 04 | 912 | 0.847 | 20 | 55 | 25 | 8.57 | 23.57 | 10.71 | 42.86 | 7.84 | 21.58 | 9.86 | 39.21 |
| | 05 | 852 | 0.847 | 20 | 55 | 25 | 8.01 | 22.03 | 10.01 | 48.86 | 7.33 | 20.16 | 9.16 | 36.65 |
| | TOTAL | 6605 | | | | | 176.81 | 128.43 | 121.65 | 426.89 | 165.94 | 119.46 | 114.25 | 399.55 |
| 86 | CHT 01 | 4561 | 0.876 | 58 | 20 | 38 | 173.34 | 69.33 | 104.89 | 346.67 | 164.21 | 65.69 | 98.53 | 328.43 |
| | 02 | 263 | 0.847 | 20 | 55 | 25 | 2.47 | 6.88 | 3.89 | 12.37 | 2.26 | 6.22 | 2.83 | 11.32 |
| | 03 | 1115 | 0.847 | 20 | 55 | 25 | 2.49 | 6.86 | 3.12 | 12.47 | 2.23 | 6.27 | 2.85 | 11.41 |
| | 04 | 952 | 0.847 | 20 | 55 | 25 | 38.48 | 28.81 | 13.18 | 52.39 | 9.59 | 26.36 | 11.98 | 47.93 |
| | 05 | 2923 | 0.847 | 20 | 55 | 25 | 8.95 | 24.61 | 11.19 | 44.75 | 8.19 | 22.52 | 10.23 | 40.94 |
| | 06 | 2552 | 0.847 | 20 | 55 | 25 | 27.47 | 75.55 | 34.34 | 137.36 | 25.13 | 69.12 | 31.42 | 125.67 |
| | 07 | 334 | 0.847 | 20 | 55 | 25 | 23.99 | 65.98 | 29.99 | 119.97 | 21.95 | 68.37 | 27.44 | 109.75 |
| | 08 | 447 | 0.847 | 20 | 55 | 25 | 3.14 | 8.63 | 3.92 | 15.69 | 2.87 | 7.89 | 3.59 | 14.35 |
| | 09 | 8977 | 0.876 | 65 | 5 | 38 | 443.49 | 34.11 | 284.59 | 682.29 | 428.14 | 32.32 | 193.91 | 646.38 |
| | 10 | 156 | 0.847 | 20 | 55 | 25 | 1.47 | 4.84 | 1.84 | 7.34 | 1.34 | 3.69 | 1.68 | 6.72 |
| | TOTAL | 22546 | | | | | 256.54 | 298.14 | 289.88 | 762.68 | 248.33 | 275.82 | 193.68 | 789.83 |
| | | | | | | | 444.95 | 38.15 | 286.52 | 689.63 | 421.43 | 36.81 | 195.59 | 653.89 |
| 87 | KSA 01 | 3785 | 0.876 | 58 | 38 | 28 | 148.78 | 84.47 | 56.31 | 281.55 | 133.37 | 38.82 | 53.35 | 295.73 |
| | 02 | 553 | 0.847 | 20 | 55 | 25 | 5.28 | 14.29 | 6.58 | 25.98 | 4.75 | 13.87 | 5.94 | 23.77 |
| | 03 | 729 | 0.847 | 20 | 55 | 25 | 6.85 | 18.85 | 8.57 | 34.27 | 6.27 | 17.24 | 7.84 | 32.35 |
| | 04 | 338 | 0.847 | 20 | 55 | 25 | 3.17 | 8.73 | 3.97 | 15.87 | 2.98 | 7.98 | 3.63 | 14.52 |
| | 05 | 1441 | 0.847 | 20 | 55 | 25 | 13.55 | 37.26 | 16.94 | 67.75 | 12.48 | 34.89 | 15.58 | 61.98 |
| | 06 | 1788 | 0.847 | 20 | 55 | 25 | 16.81 | 46.23 | 21.81 | 84.85 | 15.38 | 42.29 | 19.22 | 76.98 |
| | 07 | 419 | 0.847 | 20 | 55 | 25 | 3.94 | 10.84 | 4.93 | 19.78 | 3.61 | 9.92 | 4.51 | 18.83 |
| | 08 | 436 | 0.847 | 20 | 55 | 25 | 4.18 | 11.27 | 5.12 | 28.49 | 3.75 | 10.31 | 4.69 | 18.75 |
| | 09 | 236 | 0.847 | 20 | 55 | 25 | 2.21 | 6.09 | 2.77 | 11.87 | 2.83 | 5.57 | 2.53 | 10.33 |
| | 10 | 657 | 0.847 | 20 | 55 | 25 | 6.17 | 16.98 | 7.72 | 30.87 | 5.65 | 15.53 | 7.86 | 28.54 |
| | 11 | 371 | 0.847 | 20 | 55 | 25 | 3.49 | 9.59 | 4.36 | 17.44 | 3.19 | 8.77 | 3.99 | 15.95 |
| | TOTAL | 18672 | | | | | 286.27 | 264.58 | 138.13 | 689.84 | 393.29 | 294.81 | 128.25 | 586.35 |
| 88 | KBE 01 | 8218 | 0.876 | 58 | 38 | 28 | 312.29 | 187.37 | 124.92 | 624.58 | 295.85 | 177.51 | 118.34 | 591.71 |
| | 02 | 158 | 0.847 | 20 | 55 | 25 | 1.41 | 3.87 | 1.76 | 7.84 | 1.29 | 3.54 | 1.61 | 6.45 |
| | 03 | 622 | 0.847 | 20 | 55 | 25 | 5.84 | 16.07 | 7.38 | 29.22 | 5.35 | 14.78 | 6.68 | 26.73 |
| | 04 | 655 | 0.847 | 20 | 55 | 25 | 6.53 | 17.96 | 8.17 | 32.65 | 5.98 | 16.43 | 7.47 | 29.88 |
| | 05 | 92 | 0.847 | 20 | 55 | 25 | 0.86 | 2.38 | 1.88 | 4.32 | 0.79 | 2.18 | 0.99 | 3.95 |
| | 06 | 649 | 0.847 | 20 | 55 | 25 | 6.10 | 16.78 | 7.63 | 30.58 | 5.52 | 15.35 | 6.98 | 27.98 |
| | 07 | 37 | 0.847 | 20 | 55 | 25 | 0.35 | 0.97 | 0.64 | 1.76 | 0.32 | 0.89 | 0.48 | 1.81 |
| | 08 | 32 | 0.847 | 20 | 55 | 25 | 0.38 | 0.84 | 0.38 | 1.52 | 0.28 | 0.77 | 0.35 | 1.39 |
| | TOTAL | 18495 | | | | | 333.78 | 246.24 | 151.57 | 731.61 | 315.44 | 231.37 | 142.82 | 689.63 |

Table 5-16 Traffic Forecast of Case 1 for the Year 2002 (3/3)

| A. NO. AREA | EXCHANGE NAME | NO. SUB OF Y2882 | ORG TRF/LINE | | | TER TRF/LINE | | | ORG TRF (ERL) | | | TER TRF (ERL) | | | | | | |
|-------------|---------------|------------------|--------------|-----|--------------|--------------|-------|--------------|---------------|-----|---------|---------------|---------|----------|---------|---------|---------|----------|
| | | | TOTAL | OWN | AREA & TRUNK | TOTAL | OWN | AREA & TRUNK | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TRUNK | TOTAL | | |
| 09 | CHP 01 | 6862 | 0.076 | 50 | 30 | 20 | 0.072 | 50 | 30 | 20 | 260.76 | 156.45 | 184.30 | 521.51 | 247.03 | 148.22 | 98.81 | 494.06 |
| | 02 | 656 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 6.17 | 16.97 | 7.71 | 38.85 | 5.65 | 15.53 | 7.88 | 28.23 |
| | 03 | 434 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 4.88 | 11.23 | 5.10 | 28.42 | 3.74 | 10.27 | 4.67 | 18.68 |
| | 04 | 859 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 0.07 | 22.20 | 10.09 | 40.37 | 7.39 | 20.31 | 9.23 | 36.94 |
| | 05 | 849 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 7.98 | 21.95 | 9.98 | 39.91 | 7.30 | 20.88 | 9.13 | 36.51 |
| | 06 | 221 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.08 | 5.71 | 2.59 | 10.38 | 1.98 | 5.22 | 2.37 | 9.49 |
| | 07 | 392 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 3.68 | 10.13 | 4.61 | 18.42 | 3.37 | 9.27 | 4.21 | 16.85 |
| | 08 | 1888 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 18.22 | 28.11 | 12.78 | 51.12 | 9.35 | 25.72 | 11.69 | 46.77 |
| | 09 | 274 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.58 | 7.09 | 3.22 | 12.89 | 2.36 | 6.43 | 2.95 | 11.00 |
| | TOTAL | 11636 | | | | | | | | | 305.63 | 279.85 | 186.39 | 745.87 | 288.69 | 261.12 | 159.13 | 699.33 |
| 10 | MGU 01 | 1403 | 0.076 | 45 | 24 | 31 | 0.072 | 45 | 24 | 31 | 47.98 | 25.59 | 33.85 | 106.63 | 45.46 | 24.24 | 31.32 | 101.82 |
| | 02 | 245 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.38 | 6.34 | 2.88 | 11.52 | 2.11 | 5.80 | 2.64 | 10.54 |
| | 03 | 306 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.88 | 7.92 | 3.68 | 14.48 | 2.64 | 7.25 | 3.29 | 13.18 |
| | 04 | 161 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.52 | 4.17 | 1.89 | 7.58 | 1.39 | 3.81 | 1.73 | 6.93 |
| | 05 | 185 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.74 | 4.78 | 2.17 | 8.78 | 1.59 | 4.38 | 1.99 | 7.96 |
| | 06 | 49 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 0.46 | 1.26 | 0.57 | 2.29 | 0.42 | 1.15 | 0.52 | 2.18 |
| | 07 | 93 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 0.87 | 2.41 | 1.09 | 4.37 | 0.88 | 2.20 | 1.08 | 4.89 |
| | TOTAL | 2443 | | | | | | | | | 57.76 | 52.47 | 45.27 | 155.58 | 54.48 | 48.83 | 42.49 | 145.13 |
| 11 | SOL 01 | 2092 | 0.076 | 40 | 20 | 40 | 0.075 | 40 | 20 | 40 | 62.60 | 31.80 | 63.60 | 159.00 | 62.76 | 31.38 | 62.76 | 156.51 |
| | 02 | 428 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 3.95 | 10.87 | 4.94 | 19.76 | 3.61 | 9.94 | 4.52 | 18.07 |
| | 03 | 473 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 4.45 | 12.23 | 5.56 | 22.24 | 4.07 | 11.19 | 5.89 | 26.34 |
| | 04 | 168 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.50 | 4.13 | 1.88 | 7.51 | 1.37 | 3.78 | 1.72 | 6.87 |
| | 05 | 540 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 5.08 | 13.96 | 6.35 | 25.39 | 4.65 | 12.78 | 5.81 | 23.23 |
| | 06 | 434 | 0.047 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 4.55 | 12.52 | 5.69 | 22.76 | 4.16 | 11.45 | 5.21 | 20.82 |
| | TOTAL | 4170 | | | | | | | | | 83.13 | 85.51 | 88.01 | 256.66 | 98.63 | 88.52 | 85.18 | 248.35 |
| | GRAND TOTAL | 22158 | | | | | | | | | 4908.38 | 5171.59 | 3582.69 | 13662.66 | 4891.38 | 4818.70 | 3365.89 | 13875.30 |

Table 5-17 Traffic Forecast of Case 1 for the Year 2012 (1/3)

| A. NO | EXCHANGE NAME | NO. SUB DE Y2012 | ORG TRF/LINE | | TER TRF/LINE | | ORG TRF (ERL) | | TER TRF (ERL) | | | | | | |
|-------|-----------------|------------------|--------------|--------------------|--------------|--------------------|---------------|---------|---------------|---------|---------|---------|---------|---------|---------|
| | | | TOTAL | OWN & AREA & TRUNK | TOTAL | OWN & AREA & TRUNK | OWN | AREA | OWN | AREA | | | | | |
| 81 | LSC081 LUSAKA | 38885 | 0.871 | 50 | 50 | 0.071 | 30 | 1349.19 | 889.51 | 539.68 | 2598.38 | 1349.19 | 889.51 | 539.68 | 2598.38 |
| 92 | CHLSTON | 18257 | 0.871 | 28 | 50 | 0.071 | 30 | 145.65 | 364.12 | 218.47 | 728.24 | 364.12 | 218.47 | 145.65 | 728.24 |
| 93 | CHINRA | 4373 | 0.871 | 28 | 50 | 0.071 | 30 | 62.89 | 155.24 | 93.14 | 318.47 | 62.89 | 155.24 | 93.14 | 318.47 |
| 84 | EMHASDALE | 7169 | 0.844 | 18 | 50 | 0.844 | 48 | 31.54 | 137.72 | 126.18 | 315.44 | 28.68 | 143.38 | 124.71 | 286.77 |
| 85 | INT AIRPORT | 383 | 0.871 | 10 | 50 | 0.071 | 10 | 6.27 | 31.36 | 25.09 | 62.73 | 6.27 | 31.36 | 25.09 | 62.73 |
| 86 | MAKENI | 3284 | 0.844 | 10 | 50 | 0.048 | 40 | 14.45 | 72.25 | 57.88 | 144.58 | 13.14 | 65.58 | 52.55 | 131.36 |
| 87 | RIDGEWAY | 11845 | 0.871 | 50 | 30 | 0.071 | 50 | 392.11 | 235.26 | 156.84 | 784.21 | 392.11 | 235.26 | 156.84 | 784.21 |
| 88 | ROMA | 8538 | 0.844 | 10 | 50 | 0.848 | 48 | 37.57 | 187.83 | 158.26 | 375.65 | 34.15 | 178.75 | 136.58 | 361.58 |
| 89 | WOODLANDS | 19888 | 0.844 | 10 | 50 | 0.848 | 40 | 83.68 | 417.99 | 334.39 | 835.99 | 76.88 | 379.99 | 384.08 | 759.99 |
| 92 | LSC 01 CHILANGA | 1824 | 0.844 | 10 | 50 | 0.048 | 40 | 8.82 | 48.12 | 32.89 | 88.23 | 7.29 | 36.47 | 29.18 | 72.94 |
| 93 | CHIRUNDU | 783 | 0.844 | 10 | 50 | 0.048 | 40 | 3.89 | 15.47 | 12.38 | 38.94 | 2.81 | 14.96 | 11.25 | 28.13 |
| 94 | CHISAMBA | 649 | 0.844 | 10 | 50 | 0.048 | 40 | 2.85 | 14.27 | 11.42 | 28.55 | 2.58 | 12.98 | 10.38 | 25.95 |
| 84 | CHONGWE | 363 | 0.844 | 10 | 50 | 0.048 | 40 | 1.68 | 7.98 | 6.39 | 15.97 | 1.45 | 7.26 | 5.81 | 14.52 |
| 95 | KAFUE | 7559 | 0.844 | 18 | 50 | 0.048 | 40 | 33.26 | 166.29 | 133.84 | 332.59 | 38.24 | 151.18 | 128.94 | 382.35 |
| 86 | LUANGWA | 372 | 0.844 | 18 | 50 | 0.048 | 40 | 1.64 | 8.18 | 6.54 | 16.36 | 1.49 | 7.44 | 5.95 | 14.87 |
| 87 | MUNBA | 1898 | 0.844 | 10 | 50 | 0.048 | 40 | 4.83 | 24.15 | 19.32 | 48.31 | 4.39 | 21.96 | 17.57 | 43.92 |
| 88 | NAHALUNDU 6 | 458 | 0.844 | 10 | 50 | 0.048 | 40 | 2.82 | 18.88 | 8.86 | 29.16 | 1.83 | 9.16 | 7.33 | 18.32 |
| 89 | NAMPUNDWE | 253 | 0.844 | 10 | 50 | 0.048 | 40 | 1.11 | 5.56 | 4.45 | 11.12 | 1.81 | 5.85 | 4.04 | 10.11 |
| 18 | SIYVONGA | 1661 | 0.844 | 10 | 50 | 0.048 | 40 | 7.31 | 36.95 | 28.24 | 73.89 | 6.64 | 32.22 | 26.58 | 66.45 |
| | TOTAL | 117493 | | | | | | 2188.28 | 2759.95 | 1964.78 | 6912.93 | 2385.58 | 2588.44 | 1887.27 | 6781.21 |
| 93 | KTW 01 KITWE | 38942 | 0.871 | 40 | 40 | 0.071 | 40 | 1185.94 | 1185.94 | 552.97 | 2784.86 | 1185.94 | 1185.94 | 552.97 | 2784.86 |
| 92 | CHAMBESHI | 1271 | 0.844 | 20 | 60 | 0.048 | 20 | 11.18 | 33.54 | 11.18 | 55.90 | 18.16 | 38.49 | 18.16 | 58.82 |
| 84 | CHINGOLA | 5299 | 0.844 | 20 | 60 | 0.048 | 20 | 46.63 | 139.98 | 46.63 | 233.17 | 42.39 | 127.18 | 42.39 | 211.97 |
| 85 | ITIMPI | 16931 | 0.844 | 40 | 40 | 0.048 | 40 | 297.99 | 237.99 | 148.99 | 744.97 | 278.98 | 278.98 | 135.45 | 677.24 |
| 86 | KALULUSHI | 984 | 0.844 | 20 | 60 | 0.048 | 20 | 7.95 | 23.85 | 7.95 | 39.76 | 7.23 | 21.69 | 7.23 | 36.14 |
| 87 | LUANSHA | 2565 | 0.844 | 20 | 60 | 0.048 | 20 | 26.18 | 78.29 | 26.18 | 138.48 | 23.72 | 71.17 | 23.72 | 118.61 |
| 88 | MUFULIRA | 8559 | 0.844 | 40 | 40 | 0.048 | 40 | 158.64 | 158.64 | 75.32 | 376.58 | 136.95 | 136.95 | 68.47 | 332.37 |
| 89 | MWALUWA | 13374 | 0.844 | 20 | 60 | 0.048 | 20 | 117.69 | 353.08 | 117.69 | 588.46 | 186.99 | 328.98 | 186.99 | 534.96 |
| 99 | MWALUWA | 7988 | 0.844 | 20 | 60 | 0.048 | 20 | 78.29 | 218.87 | 78.29 | 351.45 | 53.98 | 191.78 | 53.98 | 319.58 |
| | TOTAL | 98232 | | | | | | 1934.41 | 2334.18 | 1857.13 | 5285.64 | 1768.19 | 2276.99 | 1811.38 | 5336.48 |
| 94 | NDA 01 NAIN | 19999 | 0.871 | 50 | 28 | 0.071 | 50 | 789.96 | 283.98 | 425.97 | 1419.91 | 789.96 | 283.98 | 425.97 | 1419.91 |
| 82 | IND. NORTH | 3442 | 0.844 | 18 | 50 | 0.048 | 18 | 15.15 | 75.73 | 68.58 | 151.45 | 13.77 | 68.24 | 55.87 | 137.68 |
| 83 | IND. SOUTH | 1538 | 0.844 | 18 | 50 | 0.048 | 18 | 6.77 | 33.83 | 27.86 | 67.65 | 6.15 | 38.75 | 24.68 | 61.58 |
| 84 | KABUSHI | 8198 | 0.844 | 10 | 50 | 0.048 | 10 | 36.83 | 188.17 | 144.14 | 368.35 | 32.76 | 163.79 | 131.84 | 327.59 |
| 85 | KANSENSHI | 5796 | 0.844 | 18 | 50 | 0.048 | 18 | 25.58 | 127.51 | 102.01 | 255.82 | 23.18 | 115.92 | 92.74 | 231.84 |
| 86 | MORTHRIZE | 4814 | 0.844 | 18 | 50 | 0.048 | 18 | 17.66 | 88.38 | 78.54 | 176.68 | 16.85 | 88.27 | 64.22 | 189.55 |
| 87 | PANODZI | 4881 | 0.844 | 18 | 50 | 0.048 | 18 | 17.96 | 89.78 | 71.83 | 179.57 | 16.32 | 81.62 | 65.38 | 163.24 |
| 88 | MASAITI | 322 | 0.844 | 20 | 60 | 0.048 | 20 | 2.83 | 8.58 | 2.83 | 14.17 | 2.58 | 7.73 | 2.58 | 12.82 |
| | TOTAL | 47381 | | | | | | 831.85 | 837.81 | 985.87 | 2624.73 | 828.77 | 832.91 | 861.51 | 2535.28 |

Table 5-17 Traffic Forecast of Case 1 for the Year 2012 (2/3)

| EXCHANGE NAME A. ROAD/AREA NO | NO. SUB OF 2012 | ORG TRF/LINE | | | TER TRF/LINE | | | ORG TRF (EPL) | | | TER TRF (EPL) | | | | | | |
|----------------------------------|--------------------|--------------|-----|------------------|--------------|--------|------------------|---------------|---------|--------|---------------|--------|---------|--------|--------|--------|---------|
| | | TOTAL | OWN | % AREA & TRUNK * | TOTAL | OWN | % AREA & TRUNK * | OWN | AREA | TRUNK | OWN | AREA | TRUNK | | | | |
| 85 MSA 01 KANSA | 10122 | 0.071 | 50 | 20 | 30 | 0.067 | 50 | 20 | 30 | 359.32 | 143.73 | 215.59 | 718.64 | 339.88 | 135.63 | 293.45 | 678.15 |
| 82 KAWAREBE | 1509 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 13.28 | 36.51 | 16.59 | 66.38 | 12.87 | 33.19 | 15.89 | 52.34 |
| 83 HWENSE | 684 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 6.82 | 16.55 | 7.52 | 30.89 | 5.95 | 15.84 | 6.84 | 27.95 |
| 84 NCHENGE | 2318 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 20.48 | 56.09 | 25.49 | 101.98 | 18.54 | 59.99 | 23.18 | 92.71 |
| 85 SANFYA | 2166 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 19.86 | 52.93 | 23.03 | 95.32 | 17.33 | 47.66 | 21.66 | 86.95 |
| TOTAL | 18798 | | | | | 438.87 | 385.38 | 233.03 | 1912.40 | 392.49 | 282.51 | 270.21 | 945.21 | | | | |
| 86 CHT 01 CHONA | 18064 | 0.071 | 50 | 20 | 30 | 0.067 | 50 | 20 | 30 | 385.87 | 154.27 | 231.40 | 771.33 | 383.94 | 145.58 | 218.36 | 727.88 |
| 82 GWEHBE | 627 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 5.32 | 15.17 | 6.89 | 27.58 | 5.91 | 13.79 | 6.27 | 25.87 |
| 83 ITEZHITZHI | 632 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 5.56 | 15.29 | 6.95 | 27.80 | 5.95 | 13.98 | 6.32 | 25.27 |
| 84 KALOMO | 2655 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 23.38 | 64.25 | 29.28 | 116.81 | 21.24 | 58.41 | 25.55 | 189.19 |
| 85 MAHWA | 2268 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 19.95 | 54.87 | 24.94 | 99.77 | 18.74 | 49.89 | 22.68 | 98.78 |
| 86 MAZABUKU | 6961 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 61.25 | 168.05 | 76.57 | 306.27 | 55.88 | 153.13 | 69.61 | 278.82 |
| 87 NONZE | 5879 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 53.58 | 147.11 | 66.87 | 267.43 | 48.63 | 133.74 | 68.79 | 243.38 |
| 88 MAHWALA | 795 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 7.88 | 19.24 | 8.74 | 34.98 | 6.36 | 17.49 | 7.95 | 31.88 |
| 89 PEMBA | 1865 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 9.37 | 25.77 | 11.71 | 46.86 | 8.52 | 23.43 | 18.65 | 42.88 |
| 10 LIVINGSTONE | 21381 | 0.071 | 65 | 5 | 30 | 0.067 | 65 | 5 | 30 | 986.74 | 75.98 | 455.42 | 1518.86 | 931.15 | 71.83 | 429.76 | 1432.54 |
| 11 ZIMBA(M) | 372 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 3.27 | 9.82 | 4.89 | 16.37 | 2.98 | 8.18 | 3.72 | 14.88 |
| TOTAL | 58698 | | | | | 571.18 | 654.92 | 483.29 | 1692.82 | 522.58 | 683.35 | 429.17 | 1571.38 | | | | |
| 87 KSA 01 KASAMA | 8529 | 0.071 | 50 | 30 | 20 | 0.067 | 50 | 30 | 20 | 302.77 | 151.66 | 121.11 | 605.53 | 285.71 | 171.42 | 114.28 | 571.82 |
| 82 CHINSALI | 1273 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 11.28 | 38.98 | 14.88 | 56.88 | 10.18 | 28.80 | 12.73 | 50.91 |
| 83 ISOKA | 1678 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 14.77 | 48.62 | 18.46 | 73.85 | 13.43 | 36.92 | 16.78 | 67.14 |
| 84 LUWINGU | 777 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 6.84 | 18.81 | 8.55 | 34.28 | 6.22 | 17.19 | 7.77 | 31.89 |
| 85 MPALA | 3318 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 29.20 | 88.38 | 36.58 | 146.81 | 26.55 | 73.89 | 33.18 | 132.73 |
| 86 MPIKA | 4117 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 36.23 | 99.63 | 45.29 | 181.15 | 32.94 | 58.57 | 41.17 | 164.88 |
| 87 MPOROKOSO | 965 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 8.49 | 23.86 | 18.62 | 42.47 | 7.72 | 21.23 | 9.65 | 38.61 |
| 88 MPULUNGU | 1884 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 8.83 | 24.99 | 11.84 | 44.18 | 8.83 | 22.88 | 18.84 | 48.14 |
| 89 MUNGWI | 542 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 4.77 | 13.13 | 5.97 | 23.86 | 4.34 | 11.93 | 5.42 | 21.79 |
| 10 NAKONDE | 1512 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 13.30 | 36.99 | 16.63 | 68.52 | 12.89 | 33.26 | 15.12 | 58.47 |
| 11 KAPUTA | 854 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 7.52 | 28.87 | 9.49 | 37.58 | 6.83 | 18.79 | 8.54 | 34.17 |
| TOTAL | 24569 | | | | | 443.92 | 559.85 | 297.55 | 1311.32 | 414.93 | 524.32 | 274.69 | 1213.95 | | | | |
| 88 KBE 01 KABWE | 15950 | 0.071 | 50 | 30 | 20 | 0.067 | 50 | 30 | 20 | 534.26 | 320.56 | 213.71 | 1068.53 | 584.18 | 362.50 | 201.67 | 1088.33 |
| 82 CHIBOMBO | 274 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 2.42 | 6.94 | 3.82 | 12.88 | 2.28 | 6.94 | 2.74 | 10.98 |
| 83 KAPIRI MPOSHI | 1138 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 19.82 | 27.55 | 14.52 | 58.89 | 9.11 | 25.85 | 11.38 | 45.54 |
| 84 MUSHI | 1273 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 11.20 | 38.88 | 14.80 | 55.95 | 18.18 | 28.80 | 12.73 | 58.98 |
| 85 HUFETWE | 168 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 1.48 | 4.88 | 1.85 | 7.41 | 1.35 | 3.71 | 1.68 | 6.74 |
| 86 SERENJE | 1188 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 19.46 | 28.78 | 13.97 | 52.29 | 9.51 | 26.14 | 11.88 | 47.54 |
| 87 CHALATA(M) | 69 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 0.80 | 1.86 | 0.75 | 3.82 | 0.55 | 1.51 | 0.89 | 2.74 |
| 88 KANORA(H) | 59 | 0.044 | 20 | 55 | 25 | 0.040 | 20 | 55 | 25 | 0.52 | 1.93 | 0.85 | 2.61 | 0.47 | 1.38 | 0.59 | 2.37 |
| TOTAL | 19228 | | | | | 570.96 | 421.48 | 259.58 | 1252.82 | 537.53 | 394.24 | 243.37 | 1175.14 | | | | |

Table 5-17 Traffic Forecast of Case 1 for the Year 2012 (3/5)

| A. ROAD NO. | EXCHANGE NAME | NO. SUB OF Y2812 | ORG TRF/LINE | | | TER TRF/LINE | | | ORG TRF (EHL) | | | TER TRF (EHL) | | | | |
|-------------|---------------|------------------|--------------|---------|--------------|--------------|---------|--------------|---------------|----------|--------|---------------|---------|--------|--------|---------|
| | | | TOTAL | OWN | AREA & TRUNK | TOTAL | OWN | AREA & TRUNK | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TRUNK | TOTAL |
| 09 | CHP | 91 | 0.871 | 58 | 30 | 0.867 | 58 | 30 | 688.61 | 413.17 | 275.45 | 1377.23 | 649.82 | 389.89 | 259.93 | 1299.64 |
| | | 02 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 16.33 | 44.94 | 29.41 | 81.65 | 14.85 | 48.33 | 18.56 | 74.23 |
| | | 03 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 18.81 | 29.72 | 12.51 | 54.83 | 8.82 | 27.81 | 12.28 | 49.12 |
| | | 04 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 21.37 | 58.76 | 26.71 | 186.84 | 19.43 | 53.42 | 24.28 | 97.13 |
| | | 05 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 21.12 | 58.89 | 26.41 | 185.62 | 19.28 | 52.81 | 24.08 | 96.02 |
| | | 06 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 4.47 | 12.38 | 5.59 | 22.36 | 4.87 | 11.18 | 5.88 | 20.33 |
| | | 07 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 9.75 | 26.81 | 12.19 | 48.75 | 8.86 | 24.37 | 11.88 | 44.32 |
| | | 08 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 27.86 | 74.48 | 33.82 | 135.28 | 24.68 | 67.54 | 38.74 | 122.98 |
| | | 09 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 6.82 | 18.77 | 8.53 | 34.12 | 6.28 | 17.86 | 7.76 | 31.92 |
| | | TOTAL | 32776 | | | 886.34 | 736.93 | 422.61 | 1965.83 | 756.85 | 684.22 | 393.71 | 1834.77 | | | |
| 10 | MGU | 81 | 0.871 | 45 | 24 | 0.867 | 45 | 24 | 57.58 | 38.67 | 39.61 | 127.79 | 54.26 | 28.94 | 37.38 | 128.59 |
| | | 02 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 2.77 | 7.61 | 3.46 | 13.84 | 2.52 | 6.92 | 3.15 | 12.58 |
| | | 03 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 3.46 | 9.51 | 4.32 | 17.38 | 3.15 | 8.65 | 3.53 | 15.72 |
| | | 04 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 1.82 | 5.88 | 2.27 | 9.18 | 1.65 | 4.55 | 2.87 | 8.27 |
| | | 05 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 2.89 | 5.74 | 2.61 | 16.44 | 1.98 | 5.22 | 2.37 | 9.49 |
| | | 06 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 0.55 | 1.52 | 0.69 | 2.76 | 0.58 | 1.38 | 0.63 | 2.58 |
| | | 07 | 0.844 | 20 | 55 | 0.848 | 20 | 55 | 1.85 | 2.89 | 1.31 | 5.25 | 0.96 | 2.63 | 1.19 | 4.78 |
| | | TOTAL | 3134 | | | 69.24 | 62.95 | 54.29 | 186.48 | 64.94 | 58.29 | 56.72 | 173.94 | | | |
| 11 | SOL | 91 | 0.871 | 48 | 28 | 0.869 | 48 | 28 | 187.61 | 53.81 | 187.61 | 269.83 | 184.58 | 52.29 | 184.58 | 261.45 |
| | | 02 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 6.79 | 18.42 | 8.37 | 32.58 | 6.89 | 16.75 | 7.51 | 38.45 |
| | | 03 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 7.54 | 28.73 | 9.42 | 37.78 | 6.85 | 18.85 | 8.57 | 34.27 |
| | | 04 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 2.55 | 7.81 | 3.18 | 12.74 | 2.32 | 6.37 | 2.89 | 11.98 |
| | | 05 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 8.61 | 23.68 | 10.76 | 43.85 | 7.83 | 21.52 | 9.78 | 39.14 |
| | | 06 | 0.844 | 28 | 55 | 0.848 | 28 | 55 | 7.72 | 21.23 | 9.55 | 38.59 | 7.82 | 19.38 | 8.77 | 35.88 |
| | | TOTAL | 7552 | | | 149.72 | 144.87 | 149.88 | 434.68 | 134.68 | 135.88 | 142.21 | 411.97 | | | |
| | GRAND TOTAL | 418853 | 8864.93 | 9832.54 | 6321.84 | 24219.31 | 8741.69 | 8386.16 | 5917.84 | 23845.49 | | | | | | |

Table 5-18 International Traffic Forecast of Case 1 (1/2)

| (DOMESTIC SIDE) | | 1992 | | No. of | | 1997 | | No. of | | 2002 | | No. of | |
|---------------------------|----|------------|---------|--------|------------|---------|-----|------------|---------|------|--------|--------|--|
| | | No. of SUB | OFFERED | CCT | No. of SUB | TRAFFIC | CCT | No. of SUB | TRAFFIC | CCT | No. of | CCT | |
| | | TRAFFIC | | | | | | TRAFFIC | | | | | |
| | | 47715 | | | 55970 | | | 67722 | | | | | |
| LUSAKA 1 | OG | 37775 | 21.1 | 22 | 86035 | 60.64 | 75 | 118738 | 77.78 | | | 94 | |
| | IC | | 35.8 | 40 | | | 75 | | | | | 94 | |
| LUSAKA 2 | OG | | 26.4 | 43 | | | | | | | | | |
| | IC | | 20.1 | 21 | | | | | | | | | |
| KITWE | OG | 32697 | 9.8 | 21 | 75418 | 18.65 | 29 | 102412 | 22.57 | | | 33 | |
| | IC | | 7.2 | 29 | | | 29 | | | | | 33 | |
| NDA | OG | 9814 | 6.4 | 19 | 20029 | 8.68 | 16 | 26711 | 10.50 | | | 19 | |
| | IC | | 8.4 | 19 | | | 16 | | | | | 19 | |
| RWY | OG | 2448 | 3.9 | 10 | 5157 | 3.64 | 10 | 6789 | 4.40 | | | 0 | |
| | IC | | 2.3 | 8 | | | 8 | | | | | 0 | |
| CIA | OG | 14 | 2.3 | 4 | | | 4 | | | | | 4 | |
| | IC | | 1.8 | 4 | | | 4 | | | | | 4 | |
| TOTAL | | | 145.5 | 240 | | 91.61 | | | 115.25 | | | | |
| FROM IRM | | | | | | | | | | | | | |
| LSC | OG | | 29 | 40 | | 34.02 | 46 | | 41.16 | | | 54 | |
| | IC | | 3.1 | 8 | | 3.64 | 9 | | 4.40 | | | 10 | |
| KTW | OG | | 16.1 | 25 | | 18.89 | 29 | | 22.85 | | | 33 | |
| | IC | | 4.4 | 10 | | 5.16 | 12 | | 6.24 | | | 13 | |
| NDA | OG | | 3.1 | 8 | | 3.63 | 9 | | 4.40 | | | 10 | |
| | IC | | 3.1 | 8 | | 3.63 | 9 | | 4.40 | | | 10 | |
| (INTERNATIONAL SIDE) | | | | | | | | | | | | | |
| A : INDIAN OCEAN REGION | | | | | | | | | | | | | |
| GERMANY | BW | | 8.1 | 15 | | 9.50 | 17 | | 11.50 | | | 20 | |
| FRANCE | BW | | 5.1 | 11 | | 5.98 | 13 | | 7.24 | | | 14 | |
| NETHERLAND | BW | | 0.45 | 3 | | 0.53 | 4 | | 0.64 | | | 4 | |
| INDIA | BW | | 0.86 | 4 | | 1.01 | 5 | | 1.22 | | | 5 | |
| JAPAN | BW | | 0.45 | 3 | | 0.53 | 4 | | 0.64 | | | 4 | |
| ITALY | BW | | 8.1 | 15 | | 9.50 | 17 | | 11.50 | | | 20 | |
| BELGIUM | BW | | 0.86 | 4 | | 1.01 | 5 | | 1.22 | | | 5 | |
| SWEDEN | BW | | 0.45 | 3 | | 0.53 | 4 | | 0.64 | | | 4 | |
| TOTAL | | | 24.37 | 58 | | 28.59 | 69 | | 34.59 | | | 76 | |
| B : ATLANTIC OCEAN REGION | | | | | | | | | | | | | |
| UK | BW | | 49.6 | 63 | | 58.18 | 73 | | 70.39 | | | 86 | |
| SOUTH AFRICA | BW | | 29.8 | 41 | | 34.96 | 47 | | 42.29 | | | 55 | |
| CANADA | BW | | 1.9 | 6 | | 2.23 | 7 | | 2.70 | | | 8 | |
| USA | BW | | 18.6 | 28 | | 21.82 | 32 | | 26.40 | | | 38 | |
| LESOTHO | BW | | 0.15 | 2 | | 0.18 | 3 | | 0.21 | | | 3 | |
| ANGOLA | BW | | 0.15 | 2 | | 0.18 | 3 | | 0.21 | | | 3 | |
| SWAZILAND | BW | | 0.15 | 2 | | 0.18 | 3 | | 0.21 | | | 3 | |
| TOTAL | | | 100.35 | 144 | | 117.71 | 168 | | 142.42 | | | 196 | |
| C : TERRESTRIAL ROUTE | | | | | | | | | | | | | |
| TANZANIA | BW | | 3.1 | 8 | | 3.64 | 9 | | 4.40 | | | 10 | |
| UGANDA | BW | | 0.15 | 2 | | 0.18 | 3 | | 0.21 | | | 3 | |
| KENYA | BW | | 4.4 | 10 | | 5.16 | 12 | | 6.24 | | | 13 | |
| ETHIOPIA | BW | | 0.86 | 4 | | 1.01 | 5 | | 1.22 | | | 5 | |
| ZIMBABWE | BW | | 36.1 | 48 | | 42.35 | 55 | | 51.23 | | | 65 | |
| MALAWI | BW | | 7.3 | 14 | | 8.56 | 16 | | 10.36 | | | 18 | |
| BOTSWANA | BW | | 7.3 | 14 | | 8.56 | 16 | | 10.36 | | | 18 | |
| ZAIRE | BW | | 7.3 | 14 | | 8.56 | 16 | | 10.36 | | | 18 | |
| TOTAL | | | 66.51 | 114 | | 78.02 | 132 | | 94.39 | | | 150 | |
| G. TOTAL | | | 191.23 | 316 | | 224.31 | 369 | | 271.39 | | | 422 | |

Table 5-18 International Traffic Forecast of Case 1 (2/2)

| (DOMESTIC SIDE) | | 2007 | | 2012 | | No. of | |
|---------------------------|-------|--------------------|--------|------------------------|--------|--------|------|
| | | No. of SUB TRAFFIC | | CCT No. of SUB TRAFFIC | | CCT | |
| | | 80845 | | | 95659 | | |
| LUSAKA 1 | OG | 164014 | 92.85 | 112 | 226321 | 109.86 | 133 |
| | IC | | | 112 | | | 133 |
| LUSAKA 2 | OG | | | | | | |
| | IC | | | | | | |
| KITWE | OG | 140033 | 26.94 | 38 | 192532 | 31.88 | 44 |
| | IC | | | 38 | | | 44 |
| NDA | OG | 35618 | 12.54 | 21 | 47381 | 14.84 | 24 |
| | IC | | | 21 | | | 24 |
| RWY | OG | 8769 | 5.25 | 0 | 11045 | 6.21 | 0 |
| | IC | | | 0 | | | 0 |
| CIA | OG | | | 4 | | | 4 |
| | IC | | | 4 | | | 4 |
| | TOTAL | | 137.58 | | | 162.78 | |
| FROM IRM | | | | | | | |
| LSC | OG | | 57.64 | 72 | | 82.52 | 100 |
| | IC | | 6.16 | 13 | | 8.82 | 16 |
| KTW | OG | | 32.00 | 44 | | 45.81 | 59 |
| | IC | | 8.74 | 16 | | 12.52 | 21 |
| NDA | OG | | 6.15 | 13 | | 8.82 | 16 |
| | IC | | 6.15 | 13 | | 8.82 | 16 |
| | | | | | | | 2.00 |
| (INTERNATIONAL SIDE) | | | | | | | |
| A : INDIAN OCEAN REGION | | | 1.69 | | | | |
| GERMANY | BW | | 13.72 | 23 | | 16.24 | 26 |
| FRANCE | BW | | 8.64 | 16 | | 10.22 | 18 |
| NETHERLAND | BW | | 0.76 | 4 | | 0.90 | 5 |
| INDIA | BW | | 1.46 | 6 | | 1.72 | 6 |
| JAPAN | BW | | 0.76 | 4 | | 0.90 | 5 |
| ITALY | BW | | 13.72 | 23 | | 16.24 | 26 |
| BELGIUM | BW | | 1.46 | 6 | | 1.72 | 6 |
| SWEEDEN | BW | | 0.76 | 4 | | 0.90 | 5 |
| | TOTAL | | 41.28 | 86 | | 48.86 | 97 |
| B : ATLANTIC OCEAN REGION | | | | | | | |
| UK | BW | | 84.02 | 102 | | 99.44 | 120 |
| SOUTH AFRICA | BW | | 50.48 | 64 | | 59.74 | 74 |
| CANADA | BW | | 3.22 | 9 | | 3.81 | 10 |
| USA | BW | | 31.51 | 43 | | 37.29 | 50 |
| LESOTHO | BW | | 0.25 | 3 | | 0.30 | 3 |
| ANGOLA | BW | | 0.25 | 3 | | 0.30 | 3 |
| SWAZILAND | BW | | 0.25 | 3 | | 0.30 | 3 |
| | TOTAL | | 169.99 | 227 | | 201.18 | 263 |
| C : TERRESTRIAL ROUTE | | | | | | | |
| TANZANIA | BW | | 5.25 | 12 | | 6.21 | 13 |
| UGANDA | BW | | 0.25 | 3 | | 0.30 | 3 |
| KENYA | BW | | 7.45 | 15 | | 8.82 | 16 |
| ETHIOPIA | BW | | 1.46 | 6 | | 1.72 | 6 |
| ZIMBABWE | BW | | 61.15 | 76 | | 72.37 | 88 |
| MALAWI | BW | | 12.37 | 21 | | 14.64 | 24 |
| BOTSWANA | BW | | 12.37 | 21 | | 14.64 | 24 |
| ZAIRE | BW | | 12.37 | 21 | | 14.64 | 24 |
| | TOTAL | | 112.67 | 175 | | 133.34 | 198 |
| G. TOTAL | | | 323.94 | 488 | | 383.38 | 558 |

Table 5-19 Inter-Province Circuit Matrix of Case 1 for the Year 2002

| FROM | TO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | TOTAL |
|------|---------|--------|-------|-------|-------|---------|-------|--------|-------|---------|-------|---------|-------|
| | | LUSAKA | KITWE | NDOLA | MANSA | L/STONE | CHOMA | KASAMA | KABWE | CHIPATA | MONGU | SOLWEZI | |
| 1 | LUSAKA | 0 | 370 | 321 | 84 | 201 | 205 | 93 | 159 | 161 | 61 | 64 | 1719 |
| 2 | KITWE | 291 | 0 | 196 | 84 | 58 | 59 | 92 | 46 | 47 | 18 | 65 | 956 |
| 3 | NDOLA | 276 | 151 | 0 | 22 | 35 | 36 | 24 | 28 | 28 | 0 | 16 | 616 |
| 4 | MANSA | 86 | 47 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 153 |
| 5 | L/STONE | 131 | 82 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 245 |
| 6 | CHOMA | 133 | 81 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 247 |
| 7 | KASAMA | 97 | 52 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 171 |
| 8 | KABWE | 100 | 61 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 186 |
| 9 | CHIPATA | 104 | 66 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |
| 10 | MONGU | 37 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| 11 | SOLWEZI | 65 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 |
| | TOTAL | 1320 | 990 | 675 | 190 | 294 | 300 | 209 | 233 | 236 | 79 | 145 | 4671 |

Table 5-20 Inter-Province Circuit Matrix of Case 1 for the Year 2012

| FROM | TO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | TOTAL |
|------|---------|--------|-------|-------|-------|---------|-------|--------|-------|---------|-------|---------|-------|
| | | LUSAKA | KITWE | NDOLA | MANSA | L/STONE | CHOMA | KASAMA | KABWE | CHIPATA | MONGU | SOLWEZI | |
| 1 | LUSAKA | 0 | 489 | 424 | 150 | 300 | 308 | 153 | 215 | 276 | 69 | 84 | 2468 |
| 2 | KITWE | 406 | 0 | 268 | 138 | 108 | 110 | 139 | 69 | 102 | 19 | 111 | 1470 |
| 3 | NDOLA | 383 | 223 | 0 | 50 | 73 | 77 | 49 | 45 | 70 | 0 | 25 | 995 |
| 4 | MANSA | 139 | 96 | 46 | 0 | 20 | 20 | 0 | 0 | 20 | 0 | 0 | 341 |
| 5 | L/STONE | 193 | 131 | 70 | 21 | 0 | 39 | 21 | 20 | 31 | 0 | 0 | 526 |
| 6 | CHOMA | 197 | 131 | 72 | 21 | 38 | 0 | 21 | 20 | 31 | 0 | 0 | 531 |
| 7 | KASAMA | 143 | 97 | 46 | 0 | 21 | 21 | 0 | 0 | 21 | 0 | 0 | 349 |
| 8 | KABWE | 163 | 99 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 302 |
| 9 | CHIPATA | 193 | 121 | 66 | 20 | 32 | 32 | 21 | 0 | 0 | 0 | 0 | 485 |
| 10 | MONGU | 43 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| 11 | SOLWEZI | 103 | 58 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| | TOTAL | 1963 | 1479 | 1055 | 400 | 592 | 607 | 404 | 369 | 551 | 88 | 220 | 7728 |

Table 5-21 Circuit Forecast of Case 1 for the Year 2002 (1/2)

MAX. 93% : TRF > 75 ERLANG
GOS : B=9.61

| A. NO | EXCHANGE NAME | NO. SUB OF Y2002 | ORG TRF (ERL) | | | | No. of CCT | TER TRF (ERL) | | | | No. of CCT | | |
|-------|---------------|------------------|---------------|--------|--------|----------|------------|---------------|--------|--------|----------|------------|--------|-----|
| | | | OWN | AREA | TRUNK | OG TOTAL | | OWN | AREA | TRUNK | OG TOTAL | | | |
| 81 | LSCU01 | LUSAKA | 23359 | 887.66 | 532.68 | 0.00 | 532.68 | 642 | 887.66 | 532.68 | 0.00 | 532.68 | 642 | |
| | 02 | CHELSTON | 6384 | 95.83 | 239.56 | 143.74 | 383.38 | 462 | 239.56 | 143.74 | 95.83 | 239.56 | 289 | |
| | 03 | CHINIKI | 2688 | 49.85 | 102.13 | 61.28 | 163.41 | 197 | 49.85 | 102.13 | 61.28 | 163.41 | 197 | |
| | 04 | ENNASDALE | 4486 | 22.71 | 103.55 | 82.84 | 186.39 | 225 | 18.95 | 94.74 | 75.79 | 179.53 | 206 | |
| | 05 | INT. AIRPORT | 543 | 4.13 | 20.64 | 16.51 | 37.14 | 58 | 4.13 | 20.64 | 16.51 | 37.14 | 58 | |
| | 06 | NAKEMI | 2019 | 9.49 | 47.44 | 37.95 | 85.38 | 103 | 8.68 | 43.49 | 34.72 | 78.12 | 94 | |
| | 07 | RIDGEWAY | 6789 | 257.97 | 154.78 | 103.19 | 257.97 | 311 | 257.97 | 154.78 | 103.19 | 257.97 | 311 | |
| | 08 | ROHA | 5247 | 24.66 | 123.32 | 98.65 | 221.97 | 268 | 22.56 | 112.82 | 98.28 | 203.98 | 245 | |
| | 09 | WOODLANDS | 11070 | 54.89 | 274.43 | 219.54 | 493.98 | 596 | 50.22 | 251.88 | 208.86 | 451.94 | 545 | |
| 82 | LSC | 01 | CHILANGA | 1121 | 5.27 | 26.34 | 21.07 | 47.41 | 61 | 4.82 | 24.10 | 19.28 | 43.38 | 57 |
| | 02 | CHRUNDU | 295 | 1.39 | 6.94 | 5.55 | 12.49 | 21 | 1.27 | 6.35 | 5.08 | 11.43 | 20 | |
| | 03 | CHISAMBA | 354 | 1.67 | 8.33 | 6.66 | 14.99 | 24 | 1.52 | 7.62 | 6.09 | 13.71 | 23 | |
| | 04 | CHONGWE | 223 | 1.05 | 5.24 | 4.19 | 9.44 | 17 | 0.96 | 4.88 | 3.84 | 8.63 | 16 | |
| | 05 | KAFUE | 4646 | 21.84 | 109.18 | 87.34 | 196.52 | 237 | 19.98 | 99.89 | 79.91 | 179.89 | 217 | |
| | 06 | LUANGWA | 229 | 1.07 | 5.37 | 4.38 | 9.67 | 18 | 0.98 | 4.91 | 3.93 | 8.84 | 16 | |
| | 07 | MUNBYA | 688 | 2.82 | 14.09 | 11.27 | 25.36 | 36 | 2.56 | 12.89 | 10.31 | 23.20 | 34 | |
| | 08 | NAHALUNDU | 282 | 1.32 | 6.62 | 5.29 | 11.91 | 20 | 1.21 | 6.05 | 4.84 | 10.90 | 19 | |
| | 09 | NAMPUNDWE | 138 | 0.65 | 3.24 | 2.59 | 5.84 | 12 | 0.59 | 2.97 | 2.37 | 5.34 | 12 | |
| | 10 | STAVONGA | 697 | 3.28 | 16.39 | 13.11 | 29.50 | 41 | 3.00 | 15.00 | 12.00 | 26.99 | 38 | |
| | | TOTAL | 71618 | | | | | | | | | | | |
| 83 | KTW | 01 | KITWE | 21953 | 667.37 | 667.37 | 0.00 | 667.37 | 805 | 667.37 | 667.37 | 0.00 | 667.37 | 805 |
| | 02 | CHAMBESHI | 716 | 6.73 | 28.29 | 6.73 | 26.93 | 38 | 6.16 | 18.48 | 6.16 | 24.64 | 36 | |
| | 03 | CHILILABOMBWE | 2987 | 28.08 | 84.24 | 28.08 | 112.33 | 136 | 25.69 | 77.07 | 25.69 | 102.77 | 124 | |
| | 04 | CHINGOLA | 9545 | 179.44 | 179.44 | 89.72 | 269.16 | 325 | 164.17 | 164.17 | 82.08 | 246.25 | 297 | |
| | 05 | ITINPI | 589 | 4.79 | 14.36 | 4.79 | 19.15 | 29 | 4.38 | 13.14 | 4.38 | 17.52 | 27 | |
| | 06 | KALULUSHI | 1672 | 15.71 | 47.14 | 15.71 | 62.86 | 78 | 14.38 | 43.13 | 14.38 | 57.51 | 72 | |
| | 07 | LUANSHA | 4825 | 90.71 | 90.71 | 45.36 | 136.87 | 164 | 82.99 | 82.99 | 41.50 | 124.49 | 150 | |
| | 08 | MUFULIRA | 7548 | 70.87 | 212.61 | 70.87 | 283.49 | 342 | 64.84 | 194.52 | 64.84 | 259.36 | 313 | |
| | 09 | HINDOLO | 4583 | 42.33 | 126.98 | 42.33 | 169.31 | 204 | 38.72 | 116.17 | 38.72 | 154.90 | 187 | |
| | | TOTAL | 54258 | | | | | | | | | | | |
| 84 | MDA | 01 | HAIN | 11274 | 428.42 | 171.37 | 0.00 | 171.37 | 207 | 428.42 | 171.37 | 0.00 | 171.37 | 207 |
| | 02 | IND. NORTH | 1940 | 9.12 | 45.68 | 36.48 | 82.98 | 99 | 8.34 | 41.72 | 33.38 | 75.10 | 91 | |
| | 03 | IND. SOUTH | 867 | 4.07 | 20.37 | 16.38 | 36.67 | 49 | 3.73 | 18.64 | 14.91 | 33.55 | 46 | |
| | 04 | KABUSHI | 4617 | 21.70 | 108.50 | 86.80 | 195.29 | 236 | 19.85 | 99.26 | 79.41 | 178.67 | 216 | |
| | 05 | KANSENSHI | 3267 | 16.36 | 76.78 | 61.43 | 138.21 | 167 | 14.05 | 70.25 | 56.20 | 126.45 | 153 | |
| | 06 | NORTHRISE | 2263 | 10.63 | 53.17 | 42.54 | 95.71 | 116 | 9.73 | 48.65 | 38.92 | 87.57 | 106 | |
| | 07 | PANODZI | 2381 | 10.81 | 54.07 | 43.25 | 97.32 | 118 | 9.89 | 49.46 | 39.57 | 89.04 | 108 | |
| | 08 | NASAITI | 182 | 1.71 | 5.12 | 1.71 | 6.83 | 14 | 1.56 | 4.68 | 1.56 | 6.24 | 13 | |
| | | TOTAL | 26713 | | | | | | | | | | | |
| 85 | MSA | 01 | MANSI | 3982 | 151.32 | 60.53 | 0.00 | 60.53 | 75 | 143.35 | 57.34 | 0.00 | 57.34 | 72 |
| | 02 | KAWAMBWE | 594 | 5.58 | 15.34 | 6.97 | 22.32 | 33 | 5.10 | 14.04 | 6.38 | 20.42 | 31 | |
| | 03 | MWENSE | 269 | 2.53 | 6.95 | 3.16 | 10.12 | 18 | 2.31 | 6.36 | 2.89 | 9.25 | 17 | |
| | 04 | MCELENGE | 912 | 8.57 | 23.57 | 16.71 | 34.28 | 46 | 7.84 | 21.56 | 9.80 | 31.37 | 43 | |
| | 05 | SANFYA | 852 | 8.01 | 22.03 | 10.01 | 32.05 | 44 | 7.33 | 20.16 | 9.16 | 29.32 | 41 | |
| | | TOTAL | 6689 | | | | | | | | | | | |
| 86 | CHT | 01 | CHONA | 4561 | 173.34 | 69.33 | 0.00 | 69.33 | 85 | 164.21 | 65.69 | 0.00 | 65.69 | 81 |
| | 02 | GWENBE | 263 | 2.47 | 6.80 | 3.89 | 9.89 | 18 | 2.26 | 6.22 | 2.83 | 9.05 | 17 | |
| | 03 | ITEZHITZHI | 265 | 2.49 | 6.86 | 3.12 | 9.98 | 18 | 2.28 | 6.27 | 2.85 | 9.13 | 17 | |
| | 04 | KALOMO | 1115 | 10.48 | 28.81 | 13.18 | 41.91 | 55 | 9.59 | 26.36 | 11.98 | 38.35 | 51 | |
| | 05 | MAAMBA | 952 | 8.95 | 24.61 | 11.19 | 35.80 | 48 | 8.19 | 22.52 | 10.23 | 32.75 | 45 | |
| | 06 | MAZABUKU | 2923 | 27.47 | 75.55 | 34.34 | 109.89 | 133 | 25.13 | 69.12 | 31.42 | 100.54 | 122 | |
| | 07 | MONZE | 2552 | 23.99 | 65.98 | 29.99 | 95.97 | 116 | 21.95 | 60.37 | 27.44 | 87.80 | 106 | |
| | 08 | MHWALA | 334 | 3.14 | 8.63 | 3.92 | 12.55 | 21 | 2.87 | 7.89 | 3.59 | 11.48 | 20 | |
| | 09 | PEMBA | 447 | 4.20 | 11.56 | 5.25 | 16.81 | 26 | 3.85 | 10.58 | 4.81 | 15.38 | 25 | |
| | 10 | LIVINGSTONE | 8977 | 443.49 | 34.11 | 0.00 | 34.11 | 46 | 420.14 | 32.32 | 0.00 | 32.32 | 44 | |
| | 11 | ZIMBA(M) | 156 | 1.47 | 4.04 | 1.84 | 5.87 | 12 | 1.34 | 3.69 | 1.68 | 5.37 | 12 | |
| | | TOTAL | 22546 | | | | | | | | | | | |

Table 5-21 Circuit Forecast of Case 1 for the Year 2002 (2/2)

MAX.034 : TRF > 75 ERLANG
 BOS : B=0.01

| A. NO | AREA | EXCHANGE NAME | NO. SUB OF V2 | ORG TRF (ERL) | | | | No. of CCT | TER TRF (ERL) | | | | No. of CCT |
|-------------|------|------------------|------------------|---------------|--------|-------|----------|---------------|---------------|--------|-------|----------|---------------|
| | | | | OWN | AREA | TRUNK | OG TOTAL | | OWN | AREA | TRUNK | OG TOTAL | |
| 07 | KSA | 01 KASAMA | 3785 | 140.78 | 84.47 | 0.00 | 84.47 | 102 | 133.37 | 88.02 | 0.00 | 88.02 | 97 |
| | | 02 CHINSALI | 553 | 5.20 | 14.29 | 6.50 | 20.79 | 31 | 4.75 | 13.07 | 5.94 | 19.02 | 29 |
| | | 03 ISOKA | 729 | 6.85 | 18.85 | 8.57 | 27.41 | 39 | 6.27 | 17.24 | 7.84 | 25.08 | 36 |
| | | 04 LUMINGU | 338 | 3.17 | 8.73 | 3.97 | 12.69 | 21 | 2.90 | 7.98 | 3.63 | 11.61 | 20 |
| | | 05 MBALA | 1441 | 13.55 | 37.26 | 16.94 | 54.20 | 68 | 12.40 | 34.09 | 15.50 | 49.58 | 63 |
| | | 06 MPIKA | 1788 | 16.81 | 46.23 | 21.01 | 67.24 | 83 | 15.38 | 42.29 | 19.22 | 61.52 | 76 |
| | | 07 MPOROKOSO | 419 | 3.94 | 10.84 | 4.93 | 15.76 | 25 | 3.61 | 9.92 | 4.51 | 14.42 | 23 |
| | | 08 MPDLUMGU | 436 | 4.18 | 11.27 | 5.12 | 16.39 | 26 | 3.75 | 10.31 | 4.89 | 15.00 | 24 |
| | | 09 MUNGWI | 236 | 2.21 | 6.09 | 2.77 | 8.86 | 16 | 2.03 | 5.57 | 2.53 | 8.10 | 15 |
| | | 10 MAKONDE | 657 | 6.17 | 16.98 | 7.72 | 24.69 | 36 | 5.65 | 15.53 | 7.06 | 22.59 | 33 |
| | | 11 KAPUTA | 371 | 3.49 | 9.59 | 4.36 | 13.95 | 23 | 3.19 | 8.77 | 3.99 | 12.76 | 21 |
| | | TOTAL | 10672 | | | | | | | | | | |
| 08 | KBE | 01 KABWE | 3218 | 312.29 | 187.37 | 0.00 | 187.37 | 226 | 295.85 | 177.51 | 0.00 | 177.51 | 214 |
| | | 02 CHIBOMBO | 150 | 1.41 | 3.87 | 1.76 | 5.64 | 12 | 1.29 | 3.54 | 1.61 | 5.16 | 12 |
| | | 03 KAPIRI MPOSHI | 622 | 5.84 | 16.07 | 7.30 | 23.38 | 34 | 5.35 | 14.70 | 6.68 | 21.39 | 32 |
| | | 04 MKUSHI | 695 | 6.53 | 17.96 | 8.17 | 26.13 | 37 | 5.98 | 16.43 | 7.47 | 23.91 | 35 |
| | | 05 MUPEPETWE | 92 | 0.86 | 2.38 | 1.08 | 3.46 | 9 | 0.79 | 2.18 | 0.99 | 3.16 | 9 |
| | | 06 SERENJE | 649 | 6.19 | 16.78 | 7.63 | 24.40 | 35 | 5.58 | 15.95 | 6.98 | 22.32 | 33 |
| | | 07 CHALATA(M) | 37 | 0.35 | 0.97 | 0.44 | 1.41 | 6 | 0.32 | 0.89 | 0.48 | 1.29 | 5 |
| | | 08 KANONA(M) | 32 | 0.30 | 0.84 | 0.38 | 1.22 | 5 | 0.28 | 0.77 | 0.35 | 1.11 | 5 |
| | | TOTAL | 10495 | | | | | | | | | | |
| 09 | CHP | 01 CHIPATA | 6862 | 260.76 | 156.45 | 0.00 | 156.45 | 189 | 247.03 | 148.22 | 0.00 | 148.22 | 179 |
| | | 02 CHADIZA | 656 | 6.17 | 16.97 | 7.71 | 24.68 | 36 | 5.65 | 15.53 | 7.06 | 22.58 | 33 |
| | | 03 CHAMA | 434 | 4.08 | 11.23 | 5.10 | 16.33 | 26 | 3.74 | 10.27 | 4.67 | 14.94 | 24 |
| | | 04 KATETE | 859 | 8.07 | 22.20 | 10.09 | 32.30 | 44 | 7.39 | 20.31 | 9.23 | 29.55 | 41 |
| | | 05 LUNDAZI | 849 | 7.98 | 21.95 | 9.98 | 31.93 | 44 | 7.30 | 20.88 | 9.13 | 29.21 | 41 |
| | | 06 MFUWE | 221 | 2.08 | 5.71 | 2.59 | 8.30 | 16 | 1.90 | 5.22 | 2.37 | 7.59 | 15 |
| | | 07 NYIMBA | 392 | 3.68 | 10.13 | 4.61 | 14.74 | 24 | 3.37 | 9.27 | 4.21 | 13.48 | 22 |
| | | 08 PETAUKE | 1080 | 10.22 | 28.11 | 12.78 | 40.89 | 54 | 9.35 | 25.72 | 11.69 | 37.41 | 50 |
| | | 09 SIMDA | 274 | 2.58 | 7.09 | 3.22 | 10.32 | 18 | 2.36 | 6.49 | 2.95 | 9.44 | 17 |
| | | TOTAL | 11636 | | | | | | | | | | |
| 10 | HGU | 01 MONGU | 1403 | 47.98 | 25.59 | 0.00 | 25.59 | 37 | 45.46 | 24.24 | 0.00 | 24.24 | 35 |
| | | 02 KALABO | 245 | 2.30 | 6.34 | 2.88 | 9.22 | 17 | 2.11 | 5.80 | 2.64 | 8.43 | 16 |
| | | 03 KAONA | 396 | 2.88 | 7.92 | 3.60 | 11.52 | 20 | 2.64 | 7.25 | 3.29 | 10.54 | 19 |
| | | 04 LUKULU | 161 | 1.52 | 4.17 | 1.89 | 6.06 | 13 | 1.39 | 3.81 | 1.73 | 5.54 | 12 |
| | | 05 SENANGA | 185 | 1.74 | 4.78 | 2.17 | 6.96 | 14 | 1.59 | 4.38 | 1.99 | 6.36 | 13 |
| | | 06 LIMULUNGA(M) | 49 | 0.46 | 1.26 | 0.57 | 1.84 | 6 | 0.42 | 1.15 | 0.52 | 1.68 | 6 |
| | | 07 SESHEKE(M) | 93 | 0.87 | 2.41 | 1.09 | 3.50 | 9 | 0.88 | 2.20 | 1.00 | 3.20 | 9 |
| | | TOTAL | 2443 | | | | | | | | | | |
| 11 | SOL | 01 SOLWEZI | 2092 | 63.60 | 31.80 | 0.00 | 31.80 | 44 | 62.76 | 31.38 | 0.00 | 31.38 | 43 |
| | | 02 KABOMPO | 420 | 3.95 | 10.87 | 4.84 | 15.80 | 25 | 3.61 | 9.94 | 4.52 | 14.46 | 23 |
| | | 03 KASEMFA | 473 | 4.45 | 12.23 | 5.56 | 17.79 | 27 | 4.07 | 11.19 | 5.89 | 16.27 | 26 |
| | | 04 MUFUMBWE | 160 | 1.50 | 4.13 | 1.88 | 6.01 | 13 | 1.37 | 3.78 | 1.72 | 5.50 | 12 |
| | | 05 MUIWILDNGA | 540 | 5.08 | 13.96 | 6.35 | 20.31 | 30 | 4.65 | 12.78 | 5.81 | 18.58 | 28 |
| | | 06 ZAMBEZI | 404 | 4.55 | 12.52 | 5.69 | 18.21 | 28 | 4.16 | 11.45 | 5.21 | 16.66 | 26 |
| | | TOTAL | 4170 | | | | | | | | | | |
| GRAND TOTAL | | | 221150 | | | | | | | | | | |

Table 5-22 Circuit Forecast of Case 1 for the Year 2012 (1/2)

MAX. B34 : TRF > 75 ERLANG
GOS : B=0.01

| EXCHANGE NAME | NO. SUB | ORG TRF (ERL) | | | | No. of | YER TRF (ERL) | | | | No. of |
|--------------------|---------|---------------|---------|--------|----------|--------|---------------|---------|--------|----------|--------|
| | | OWN | AREA | TRUNK | OG TOTAL | | OWN | AREA | TRUNK | IC TOTAL | |
| 01 LSCU21 LUSAKA | 38885 | 1349.19 | 889.51 | 8.88 | 889.51 | 976 | 1349.19 | 889.51 | 8.88 | 889.51 | 976 |
| 02 CHELSTON | 18257 | 145.65 | 364.12 | 218.47 | 582.59 | 782 | 364.12 | 218.47 | 145.65 | 364.12 | 439 |
| 03 CHINIKA | 4373 | 62.89 | 155.24 | 93.14 | 248.38 | 388 | 62.89 | 155.24 | 93.14 | 248.38 | 388 |
| 04 ENNASDALE | 7169 | 31.54 | 157.72 | 126.18 | 283.98 | 343 | 28.68 | 143.38 | 114.71 | 258.89 | 311 |
| 05 INT. AIRPORT | 883 | 6.27 | 31.36 | 25.89 | 56.46 | 71 | 6.27 | 31.36 | 25.89 | 56.46 | 71 |
| 06 MAKENI | 3284 | 14.45 | 72.25 | 57.88 | 138.85 | 157 | 13.14 | 65.68 | 52.55 | 118.23 | 143 |
| 07 RIDGEWAY | 11945 | 392.11 | 235.26 | 156.84 | 392.11 | 473 | 392.11 | 235.26 | 156.84 | 392.11 | 473 |
| 08 ROMA | 8538 | 37.57 | 187.83 | 158.26 | 338.89 | 488 | 34.15 | 178.75 | 136.68 | 387.35 | 371 |
| 09 WOODLANDS | 19888 | 83.68 | 417.99 | 334.39 | 752.39 | 987 | 76.88 | 379.99 | 384.88 | 683.99 | 825 |
| 22 LSC 01 CHILANGA | 1824 | 8.82 | 48.12 | 32.89 | 72.21 | 88 | 7.29 | 36.47 | 29.18 | 65.65 | 81 |
| 02 CHIRUNDU | 783 | 3.89 | 15.47 | 12.38 | 27.85 | 39 | 2.81 | 14.86 | 11.25 | 25.32 | 36 |
| 03 CHISAMBA | 649 | 2.85 | 14.27 | 11.42 | 25.69 | 37 | 2.68 | 12.98 | 10.38 | 23.36 | 34 |
| 04 CHONGWE | 363 | 1.68 | 7.98 | 6.39 | 14.37 | 23 | 1.45 | 7.26 | 5.81 | 13.07 | 22 |
| 05 KAFUE | 7559 | 33.26 | 166.29 | 133.94 | 299.33 | 361 | 30.24 | 151.18 | 129.94 | 272.12 | 328 |
| 06 LUANGWA | 372 | 1.64 | 8.18 | 6.54 | 14.72 | 24 | 1.49 | 7.44 | 5.95 | 13.39 | 22 |
| 07 MUXBWA | 1898 | 4.83 | 24.15 | 19.32 | 43.48 | 57 | 4.39 | 21.96 | 17.57 | 39.53 | 52 |
| 08 NAMALUNDU G | 458 | 2.82 | 18.88 | 8.86 | 18.14 | 28 | 1.83 | 9.16 | 7.33 | 16.49 | 26 |
| 09 NAMPUKWE | 253 | 1.11 | 5.56 | 4.45 | 10.88 | 18 | 1.01 | 5.85 | 4.84 | 9.18 | 17 |
| 10 SIAYONGA | 1661 | 7.31 | 36.55 | 29.24 | 65.78 | 81 | 6.64 | 33.22 | 26.68 | 59.89 | 74 |
| TOTAL | 117493 | | | | | | | | | | |
| 03 KTV 01 KITWE | 38942 | 1185.94 | 1185.94 | 8.88 | 1185.94 | 1333 | 1185.94 | 1185.94 | 8.88 | 1185.94 | 1333 |
| 02 CHAMBESHI | 1271 | 11.18 | 33.54 | 11.18 | 44.72 | 58 | 10.16 | 38.49 | 18.16 | 48.66 | 54 |
| 03 CHILILABOMBWE | 5299 | 46.63 | 139.98 | 46.63 | 186.53 | 225 | 42.39 | 127.18 | 42.39 | 169.58 | 205 |
| 04 CHINGOLA | 16931 | 297.99 | 297.99 | 148.99 | 446.98 | 539 | 278.98 | 278.98 | 135.45 | 486.35 | 498 |
| 05 ITIMPI | 984 | 7.95 | 23.85 | 7.95 | 31.81 | 44 | 7.23 | 21.69 | 7.23 | 28.91 | 48 |
| 06 KALULUSHI | 2965 | 26.18 | 78.29 | 26.18 | 184.38 | 126 | 23.72 | 71.17 | 23.72 | 94.89 | 115 |
| 07 LUANSHA | 8559 | 158.64 | 158.64 | 75.32 | 225.96 | 273 | 136.95 | 136.95 | 68.47 | 205.42 | 248 |
| 08 MUFULIRA | 13374 | 117.69 | 353.88 | 117.69 | 478.77 | 568 | 106.99 | 328.98 | 106.99 | 427.97 | 516 |
| 09 MINDOLO | 7988 | 78.29 | 218.87 | 78.29 | 281.16 | 339 | 63.98 | 191.78 | 63.98 | 255.68 | 388 |
| TOTAL | 96232 | | | | | | | | | | |
| 04 NDA 01 MAIN | 19999 | 789.96 | 283.98 | 8.88 | 283.98 | 343 | 789.96 | 283.98 | 8.88 | 283.98 | 343 |
| 02 IND. NORTH | 3442 | 15.15 | 75.73 | 68.58 | 136.31 | 165 | 13.77 | 68.84 | 55.87 | 123.92 | 158 |
| 03 IND. SOUTH | 1538 | 6.77 | 33.83 | 27.86 | 68.89 | 76 | 6.15 | 38.75 | 24.68 | 55.35 | 78 |
| 04 KABUSHI | 8198 | 36.83 | 188.17 | 144.14 | 324.31 | 391 | 32.76 | 163.79 | 131.84 | 294.83 | 356 |
| 05 KANSENSHI | 5796 | 25.58 | 127.51 | 102.81 | 229.52 | 277 | 23.18 | 115.92 | 92.74 | 288.65 | 252 |
| 06 NORTHRISE | 4814 | 17.66 | 88.38 | 78.64 | 158.94 | 192 | 16.85 | 88.27 | 64.22 | 144.49 | 175 |
| 07 PANODZI | 4881 | 17.96 | 89.78 | 71.83 | 161.61 | 195 | 16.32 | 81.62 | 65.38 | 146.92 | 178 |
| 08 MASAITI | 322 | 2.83 | 8.58 | 2.83 | 11.33 | 28 | 2.58 | 7.73 | 2.58 | 18.38 | 18 |
| TOTAL | 47381 | | | | | | | | | | |
| 05 MSA 01 MANSIA | 18122 | 359.32 | 143.73 | 8.88 | 143.73 | 174 | 339.88 | 135.63 | 8.88 | 135.63 | 164 |
| 02 KAVAMBWE | 1589 | 13.28 | 36.51 | 16.59 | 53.18 | 67 | 12.87 | 33.19 | 15.89 | 48.28 | 62 |
| 03 MWHSE | 684 | 6.82 | 16.55 | 7.52 | 24.87 | 35 | 5.47 | 15.84 | 6.84 | 21.88 | 32 |
| 04 MCHLENGE | 2318 | 28.48 | 56.89 | 25.49 | 81.58 | 99 | 18.54 | 58.99 | 23.18 | 74.17 | 98 |
| 05 SANFYA | 2166 | 19.86 | 52.43 | 23.83 | 76.25 | 92 | 17.33 | 47.66 | 21.66 | 69.32 | 85 |
| TOTAL | 16798 | | | | | | | | | | |
| 06 CHT 01 CHOMA | 18864 | 385.67 | 154.27 | 8.88 | 154.27 | 186 | 363.94 | 145.58 | 8.88 | 145.58 | 176 |
| 02 GWEMBE | 627 | 5.52 | 15.17 | 6.89 | 22.86 | 33 | 5.81 | 13.79 | 6.27 | 28.86 | 38 |
| 03 ITEZHITZHI | 632 | 5.56 | 15.29 | 6.95 | 22.24 | 33 | 5.85 | 13.98 | 6.32 | 28.22 | 38 |
| 04 KALONO | 2655 | 23.36 | 64.25 | 29.28 | 93.45 | 113 | 21.24 | 58.41 | 26.55 | 84.95 | 103 |
| 05 MAAMBA | 2268 | 19.95 | 54.87 | 24.94 | 79.82 | 97 | 18.14 | 49.89 | 22.68 | 72.56 | 88 |
| 06 MAZABUKU | 8961 | 61.25 | 168.45 | 76.57 | 245.81 | 296 | 55.68 | 153.13 | 69.61 | 222.74 | 269 |
| 07 MONZE | 6879 | 53.58 | 147.11 | 66.87 | 213.98 | 258 | 48.63 | 133.74 | 68.79 | 194.53 | 235 |
| 08 NAMWALA | 795 | 7.88 | 19.24 | 8.74 | 27.98 | 39 | 6.36 | 17.49 | 7.95 | 25.44 | 36 |
| 09 PEMBA | 1865 | 9.37 | 25.77 | 11.71 | 37.49 | 58 | 8.52 | 23.43 | 10.65 | 34.88 | 46 |
| 10 LIVINGSTONE | 21381 | 986.74 | 75.98 | 8.88 | 75.98 | 92 | 931.15 | 71.63 | 8.88 | 71.63 | 87 |
| 11 ZIMBA(H) | 372 | 3.27 | 9.88 | 4.89 | 13.89 | 22 | 2.98 | 8.18 | 3.72 | 11.98 | 28 |
| TOTAL | 53698 | | | | | | | | | | |

Table 5-22 Circuit Forecast of Case 1 for the Year 2012 (2/2)

MAX. B3% : TRF > 75 ERLANG
GOS : B=8.01

| A. NO | EXCHANGE NAME | NO. SUB OF Y2012 | ORG TRF (ERL) | | | | No. of CCT | TER TRF (ERL) | | | | No. of CCT | |
|-------------|---------------|------------------|---------------|--------|--------|-------|------------|---------------|--------|--------|-------|------------|-----|
| | | | OWN | AREA | TRUNK | TOTAL | | OWN | AREA | TRUNK | TOTAL | | |
| 07 | KSA | 81 | 8529 | 382.77 | 181.66 | 0.88 | 181.66 | 219 | 285.71 | 171.42 | 0.88 | 171.42 | 207 |
| | | 82 | 1273 | 11.28 | 38.88 | 14.88 | 44.88 | 58 | 18.18 | 28.88 | 12.73 | 48.73 | 54 |
| | | 83 | 1678 | 14.77 | 48.62 | 18.46 | 59.88 | 74 | 13.43 | 36.92 | 16.78 | 53.71 | 68 |
| | | 84 | 777 | 6.84 | 18.61 | 8.55 | 27.36 | 39 | 6.22 | 17.18 | 7.77 | 24.87 | 36 |
| | | 85 | 3318 | 29.28 | 88.38 | 36.58 | 116.81 | 141 | 26.55 | 73.88 | 33.18 | 106.19 | 128 |
| | | 86 | 4117 | 36.23 | 99.63 | 45.29 | 144.92 | 175 | 32.94 | 98.57 | 41.17 | 131.74 | 159 |
| | | 87 | 965 | 8.49 | 23.36 | 18.62 | 33.97 | 46 | 7.72 | 21.23 | 8.65 | 30.89 | 43 |
| | | 88 | 1884 | 8.83 | 24.29 | 11.84 | 35.33 | 48 | 8.83 | 22.88 | 10.84 | 32.12 | 44 |
| | | 89 | 542 | 4.77 | 13.13 | 5.97 | 19.89 | 29 | 4.34 | 11.93 | 5.42 | 17.36 | 27 |
| | | 90 | 1512 | 13.38 | 36.59 | 16.63 | 53.22 | 67 | 12.89 | 33.26 | 15.12 | 48.38 | 62 |
| | | 91 | 854 | 7.52 | 20.67 | 9.48 | 30.87 | 42 | 6.83 | 18.79 | 8.54 | 27.33 | 39 |
| | | TOTAL | 24569 | | | | | | | | | | |
| 08 | KBE | 01 | 15858 | 534.26 | 328.56 | 0.88 | 328.56 | 387 | 584.16 | 382.58 | 0.88 | 382.58 | 365 |
| | | 02 | 274 | 2.42 | 6.64 | 3.82 | 9.66 | 18 | 2.28 | 6.84 | 2.74 | 8.78 | 16 |
| | | 03 | 1138 | 18.82 | 27.55 | 12.52 | 40.87 | 53 | 9.11 | 25.85 | 11.38 | 36.43 | 49 |
| | | 04 | 1273 | 11.28 | 38.88 | 14.88 | 44.88 | 58 | 18.18 | 28.88 | 12.73 | 48.72 | 54 |
| | | 05 | 168 | 1.48 | 4.88 | 1.85 | 5.93 | 13 | 1.35 | 3.71 | 1.68 | 5.39 | 12 |
| | | 06 | 1188 | 18.46 | 28.76 | 13.87 | 41.83 | 55 | 9.51 | 26.14 | 11.88 | 38.83 | 51 |
| | | 07 | 69 | 0.68 | 1.66 | 0.75 | 2.42 | 7 | 0.55 | 1.51 | 0.69 | 2.28 | 7 |
| | | 08 | 59 | 0.62 | 1.43 | 0.65 | 2.89 | 7 | 0.47 | 1.38 | 0.59 | 1.98 | 6 |
| | | TOTAL | 19228 | | | | | | | | | | |
| 09 | CHP | 01 | 19398 | 688.61 | 413.17 | 0.88 | 413.17 | 498 | 649.82 | 389.89 | 0.88 | 389.89 | 478 |
| | | 02 | 1856 | 16.33 | 44.91 | 20.41 | 65.32 | 88 | 14.85 | 40.83 | 18.56 | 59.38 | 74 |
| | | 03 | 1228 | 18.81 | 29.72 | 13.51 | 43.22 | 56 | 9.82 | 27.81 | 12.28 | 39.29 | 52 |
| | | 04 | 2428 | 21.37 | 58.76 | 26.71 | 85.47 | 103 | 19.43 | 53.42 | 24.28 | 77.78 | 94 |
| | | 05 | 2488 | 21.12 | 58.89 | 26.41 | 84.58 | 102 | 19.28 | 52.81 | 24.88 | 76.81 | 93 |
| | | 06 | 588 | 4.47 | 12.38 | 5.59 | 17.89 | 28 | 4.87 | 11.18 | 5.88 | 16.26 | 26 |
| | | 07 | 1188 | 8.75 | 26.81 | 12.19 | 39.88 | 52 | 8.86 | 24.37 | 11.88 | 35.45 | 48 |
| | | 08 | 3874 | 27.86 | 74.48 | 33.82 | 108.22 | 131 | 24.68 | 67.64 | 38.74 | 98.38 | 119 |
| | | 09 | 776 | 6.82 | 18.77 | 8.53 | 27.38 | 39 | 6.28 | 17.86 | 7.76 | 24.82 | 36 |
| | | TOTAL | 32776 | | | | | | | | | | |
| 10 | MGU | 01 | 1888 | 57.58 | 38.67 | 0.88 | 38.67 | 42 | 54.26 | 28.94 | 0.88 | 28.94 | 48 |
| | | 02 | 315 | 2.77 | 7.61 | 3.46 | 11.87 | 19 | 2.52 | 6.92 | 3.15 | 10.87 | 18 |
| | | 03 | 393 | 3.46 | 9.51 | 4.32 | 13.84 | 23 | 3.15 | 8.65 | 3.93 | 12.58 | 21 |
| | | 04 | 287 | 1.82 | 5.88 | 2.27 | 7.28 | 14 | 1.65 | 4.55 | 2.87 | 6.62 | 14 |
| | | 05 | 237 | 2.89 | 5.74 | 2.61 | 8.35 | 16 | 1.98 | 5.22 | 2.37 | 7.68 | 15 |
| | | 06 | 63 | 0.55 | 1.52 | 0.69 | 2.28 | 7 | 0.58 | 1.38 | 0.63 | 2.88 | 7 |
| | | 07 | 119 | 1.85 | 2.89 | 1.31 | 4.28 | 18 | 0.96 | 2.63 | 1.19 | 3.82 | 18 |
| | | TOTAL | 3134 | | | | | | | | | | |
| 11 | SOL | 01 | 3789 | 187.61 | 53.81 | 0.88 | 53.81 | 68 | 184.58 | 52.29 | 0.88 | 52.29 | 66 |
| | | 02 | 761 | 6.78 | 18.42 | 8.37 | 26.88 | 38 | 6.89 | 16.75 | 7.61 | 24.36 | 35 |
| | | 03 | 857 | 7.54 | 20.73 | 9.42 | 30.16 | 42 | 6.85 | 18.85 | 8.57 | 27.42 | 39 |
| | | 04 | 289 | 2.55 | 7.81 | 3.18 | 10.19 | 18 | 2.32 | 6.37 | 2.89 | 9.26 | 17 |
| | | 05 | 978 | 8.61 | 23.68 | 10.76 | 34.44 | 47 | 7.83 | 21.52 | 9.78 | 31.31 | 43 |
| | | 06 | 877 | 7.72 | 21.23 | 9.65 | 38.87 | 43 | 7.82 | 19.38 | 8.77 | 28.87 | 39 |
| | | TOTAL | 7552 | | | | | | | | | | |
| GRAND TOTAL | | | 418853 | | | | | | | | | | |

Table 5-23 Traffic Forecast of Case 2 for the Year 2002 (1/3)

| EXCHANGE NAME S. NO. AREA. NO. | NO. SUBS OF Y2002 | ORG TRF/LINE | | | TER TRF/LINE | | | ORG TRF (EERL) | | | TER TRF (EERL) | | | | |
|-----------------------------------|----------------------|--------------|-----|------|--------------|-----|------|----------------|---------|---------|----------------|---------|---------|--------|---------|
| | | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TOTAL | OWN | AREA | | |
| 81 LSC081 LUSARA | 19407 | 8.876 | 50 | 30 | 0.876 | 50 | 30 | 737.48 | 442.49 | 294.99 | 1474.97 | 737.48 | 442.49 | 294.99 | 1474.97 |
| 82 CHELSTON | 5284 | 0.876 | 20 | 50 | 0.876 | 50 | 30 | 88.31 | 288.78 | 128.47 | 481.56 | 288.78 | 128.47 | 481.56 | |
| 83 CHINIK | 2253 | 0.876 | 20 | 50 | 0.876 | 20 | 50 | 34.24 | 85.88 | 51.96 | 171.28 | 34.24 | 85.88 | 51.96 | 171.28 |
| 84 EMASDALE | 3818 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 17.91 | 89.54 | 71.83 | 175.88 | 16.38 | 81.92 | 65.54 | 163.84 |
| 85 INT AIRPORT | 455 | 0.876 | 10 | 50 | 0.876 | 10 | 50 | 3.46 | 17.29 | 13.84 | 34.59 | 3.46 | 17.29 | 13.84 | 34.59 |
| 86 JAKENI | 1692 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 7.95 | 39.76 | 31.88 | 75.51 | 7.27 | 36.37 | 29.18 | 72.74 |
| 87 RIDGEWAY | 5970 | 0.876 | 50 | 30 | 0.876 | 50 | 30 | 223.87 | 133.84 | 89.23 | 446.14 | 223.87 | 133.84 | 89.23 | 446.14 |
| 88 ROMA | 4338 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 28.67 | 103.35 | 82.68 | 206.78 | 18.91 | 94.56 | 75.64 | 189.11 |
| 89 WOODLANDS | 9737 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 46.80 | 238.80 | 184.88 | 468.88 | 42.18 | 218.43 | 168.34 | 428.85 |
| 82 LSC 81 CHILANGA | 939 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 4.41 | 22.87 | 17.66 | 44.15 | 4.84 | 28.28 | 16.16 | 48.39 |
| 82 CHIRUNDU | 142 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 0.87 | 3.33 | 2.66 | 6.66 | 0.81 | 3.95 | 2.44 | 6.89 |
| 82 CHISAMBA | 185 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 0.87 | 4.36 | 3.49 | 8.72 | 0.80 | 3.99 | 3.19 | 7.98 |
| 84 CHONGWE | 187 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 0.88 | 4.39 | 3.51 | 8.79 | 0.88 | 4.02 | 3.22 | 8.04 |
| 85 KAFUE | 3894 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 18.38 | 91.50 | 73.28 | 183.81 | 16.74 | 83.72 | 68.97 | 167.43 |
| 86 LDANGWA | 192 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 0.98 | 4.58 | 3.68 | 9.48 | 0.82 | 4.12 | 3.29 | 8.24 |
| 87 MUNEPA | 314 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 1.48 | 7.38 | 5.98 | 14.76 | 1.35 | 6.75 | 5.48 | 13.58 |
| 88 NAMALUNDU G | 236 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 1.11 | 5.55 | 4.44 | 11.09 | 1.01 | 5.07 | 4.06 | 10.15 |
| 88 NAMPUNDE | 56 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 0.45 | 2.25 | 1.88 | 4.58 | 0.41 | 2.06 | 1.65 | 4.11 |
| 89 SIAVONGA | 335 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 1.57 | 7.87 | 6.29 | 15.73 | 1.44 | 7.20 | 5.76 | 14.44 |
| TOTAL | 59476 | 8.847 | 10 | 50 | 0.843 | 10 | 50 | 1201.74 | 1495.86 | 1062.57 | 3768.16 | 1311.72 | 1363.13 | 988.48 | 3655.34 |
| 83 KTW 81 KITWE | 18687 | 0.876 | 48 | 40 | 0.876 | 40 | 40 | 568.89 | 568.89 | 234.85 | 1428.23 | 568.89 | 568.89 | 234.85 | 1428.23 |
| 82 CHAMPESHI | 568 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 5.34 | 16.82 | 5.34 | 26.78 | 4.89 | 14.66 | 4.89 | 24.43 |
| 83 CHILILASHOMBE | 2378 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 22.28 | 66.83 | 22.28 | 111.38 | 20.28 | 61.14 | 20.28 | 101.98 |
| 84 CHINGOLA | 7571 | 0.847 | 48 | 40 | 0.843 | 40 | 40 | 142.34 | 142.34 | 71.17 | 355.85 | 138.23 | 138.23 | 65.11 | 325.57 |
| 85 ITIMPI | 484 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 3.88 | 11.39 | 3.88 | 18.99 | 3.48 | 10.43 | 3.48 | 17.32 |
| 86 KALULUSHI | 1326 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 12.47 | 37.48 | 12.47 | 62.33 | 11.48 | 34.21 | 11.48 | 57.82 |
| 87 MUEGLIRA | 5981 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 22.88 | 168.66 | 56.22 | 281.89 | 51.43 | 154.38 | 51.43 | 257.17 |
| 88 MINDOLO | 2434 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 22.88 | 68.63 | 22.88 | 114.38 | 28.93 | 62.79 | 28.93 | 104.64 |
| TOTAL | 33341 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 333.41 | 1879.35 | 478.13 | 2398.55 | 318.33 | 1325.64 | 461.67 | 2389.33 |
| 84 NDA 81 MAIN | 9749 | 0.876 | 58 | 20 | 0.876 | 58 | 20 | 378.45 | 148.18 | 222.27 | 748.91 | 378.45 | 148.18 | 222.27 | 748.91 |
| 82 IND NORTH | 1539 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 7.23 | 36.17 | 28.94 | 72.35 | 8.62 | 33.99 | 26.48 | 66.19 |
| 83 IND SOUTH | 688 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 3.23 | 16.16 | 12.93 | 32.32 | 2.96 | 14.78 | 11.83 | 29.57 |
| 84 KAEUSHI | 3992 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 18.76 | 93.82 | 75.05 | 187.63 | 17.17 | 85.83 | 68.67 | 171.67 |
| 85 KANSENSHI | 2825 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 13.28 | 65.48 | 53.12 | 132.79 | 12.15 | 68.74 | 48.68 | 121.49 |
| 86 NORTHRISE | 1957 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 9.20 | 45.98 | 36.78 | 91.96 | 8.41 | 42.87 | 33.65 | 84.13 |
| 87 PAMODZI | 1989 | 0.847 | 10 | 50 | 0.843 | 10 | 50 | 5.35 | 46.75 | 37.48 | 93.50 | 5.55 | 42.77 | 34.22 | 85.55 |
| 88 HASAYTI | 144 | 0.847 | 20 | 60 | 0.843 | 20 | 60 | 1.35 | 6.86 | 1.35 | 6.77 | 1.24 | 3.72 | 1.24 | 6.19 |
| 89 LUANSARA | 3828 | 0.847 | 48 | 40 | 0.843 | 40 | 40 | 71.96 | 71.96 | 35.98 | 179.89 | 65.83 | 65.83 | 32.92 | 164.58 |
| TOTAL | 26711 | 0.847 | 48 | 40 | 0.843 | 40 | 40 | 584.82 | 529.47 | 583.82 | 1588.12 | 493.38 | 437.82 | 479.88 | 1478.27 |

Table 5-23 Traffic Forecast of Case 2 for the Year 2002 (2/3)

| EXCHANGE NAME | NO. SUB OF Y2002 | ORG TRF/LINE | | | TER TRF/LINE | | | ORG TRF (EPL) | | | TER TRF (EPL) | | | | | | |
|------------------|------------------|--------------|-----|------|--------------|-------|------|---------------|-----|--------|---------------|--------|--------|--------|--------|-------|--------|
| | | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TOTAL | OWN | AREA | | | | |
| 85 MSA 01 MANSA | 1861 | 0.876 | 50 | 20 | 30 | 0.072 | 50 | 20 | 30 | 78.72 | 28.29 | 42.43 | 141.43 | 56.95 | 26.88 | 48.26 | 133.99 |
| 02 KAWABWE | 277 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.61 | 7.17 | 3.26 | 13.84 | 2.39 | 6.96 | 2.98 | 11.93 |
| 03 KWENSE | 161 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.51 | 4.16 | 1.89 | 7.55 | 1.38 | 3.81 | 1.73 | 6.92 |
| 04 NCHELENGE | 426 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 4.01 | 11.82 | 5.91 | 20.83 | 3.66 | 10.03 | 4.58 | 18.32 |
| 05 SANIYA | 398 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 3.74 | 10.30 | 4.68 | 18.72 | 3.43 | 9.42 | 4.28 | 17.13 |
| TOTAL | 3124 | | | | | | | | | 32.53 | 88.93 | 57.87 | 200.78 | 77.85 | 56.66 | 53.77 | 188.29 |
| 86 CHT 01 CHOMA | 2189 | 0.876 | 50 | 20 | 30 | 0.072 | 50 | 20 | 30 | 83.19 | 33.28 | 49.92 | 186.39 | 72.82 | 31.53 | 47.29 | 157.63 |
| 02 GWENZE | 126 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.13 | 3.27 | 1.48 | 5.94 | 1.89 | 2.99 | 1.35 | 5.43 |
| 03 IZEHITZHI | 127 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.28 | 3.29 | 1.58 | 5.98 | 1.18 | 3.91 | 1.37 | 5.48 |
| 04 KALOMO | 535 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 5.83 | 13.83 | 6.29 | 25.15 | 4.68 | 12.65 | 5.75 | 23.81 |
| 05 MAABA | 457 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 4.38 | 11.81 | 5.37 | 21.48 | 3.93 | 10.81 | 4.91 | 19.65 |
| 06 HAZURUKU | 1483 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 13.19 | 36.26 | 16.48 | 65.93 | 12.86 | 33.17 | 15.88 | 68.32 |
| 07 MONZE | 1225 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 11.52 | 31.67 | 14.39 | 57.58 | 10.54 | 28.97 | 13.17 | 52.68 |
| 08 NAMALA | 160 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.51 | 4.14 | 1.88 | 7.53 | 1.38 | 3.79 | 1.72 | 6.89 |
| 09 PEMPA | 288 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.63 | 7.24 | 3.29 | 13.17 | 2.41 | 6.63 | 3.61 | 12.85 |
| 10 LIVINGSTONE | 4389 | 0.876 | 65 | 5 | 30 | 0.072 | 65 | 5 | 30 | 212.86 | 16.37 | 98.24 | 327.47 | 291.65 | 15.51 | 93.87 | 318.24 |
| 11 ZIMBA(M) | 75 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 0.78 | 1.94 | 0.88 | 3.52 | 0.54 | 1.77 | 0.81 | 3.22 |
| 12 SESIBE(M) | 44 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 0.41 | 1.13 | 0.51 | 2.05 | 0.38 | 1.03 | 0.47 | 1.88 |
| TOTAL | 10931 | | | | | | | | | 123.74 | 144.79 | 188.88 | 683.14 | 115.92 | 133.55 | 93.66 | 343.13 |
| 87 KSA 01 KASAMA | 1992 | 0.876 | 50 | 30 | 20 | 0.072 | 50 | 30 | 20 | 213.97 | 19.44 | 99.64 | 333.85 | 282.67 | 18.32 | 94.35 | 315.34 |
| 02 CHINSALI | 297 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 75.69 | 45.42 | 38.28 | 151.38 | 71.71 | 43.82 | 28.68 | 143.42 |
| 03 ISOKA | 392 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.79 | 7.69 | 3.49 | 13.97 | 2.56 | 7.63 | 3.28 | 12.78 |
| 04 LUWINGU | 182 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 3.68 | 10.13 | 4.61 | 18.42 | 3.37 | 9.27 | 4.21 | 16.85 |
| 05 MBALA | 775 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.71 | 4.78 | 2.14 | 8.54 | 1.56 | 4.38 | 1.95 | 7.81 |
| 06 MFIKA | 961 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 7.28 | 20.83 | 9.18 | 36.41 | 6.66 | 18.32 | 8.33 | 33.31 |
| 07 MPOROKOSO | 225 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 9.84 | 24.35 | 11.29 | 45.18 | 8.27 | 22.73 | 18.32 | 41.33 |
| 08 MPULUNGU | 234 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.12 | 5.82 | 2.65 | 10.59 | 1.94 | 5.33 | 2.42 | 9.69 |
| 09 MUNGWI | 155 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 2.28 | 6.86 | 2.75 | 11.82 | 2.82 | 5.54 | 2.52 | 10.88 |
| 10 NAKONDE | 353 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 1.45 | 4.88 | 1.82 | 7.27 | 1.33 | 3.66 | 1.66 | 6.65 |
| 11 KAPUTA | 199 | 0.847 | 20 | 55 | 25 | 0.043 | 20 | 55 | 25 | 3.32 | 9.13 | 4.15 | 16.68 | 3.84 | 8.35 | 3.88 | 15.19 |
| TOTAL | 5788 | | | | | | | | | 113.17 | 142.97 | 74.62 | 328.76 | 108.16 | 132.63 | 69.25 | 385.69 |

Table 5-23 Traffic Forecast of Case 2 for the Year 2002 (3/3)

| EXCHANGE NAME & NOAREAE NO | NO. SUB OF Y2002 | ORG. TRF/LINE | | TRF/LINE | | ORG. TRF (ERL) | | TRF (ERL) | | TOTAL | | | | | |
|-------------------------------|---------------------|---------------|-------------|----------|-------------|----------------|---------|-----------|---------|-------|--------|--------|-------|-------|--------|
| | | TOTAL | OWN & TRUNK | TOTAL | OWN & TRUNK | OWN | AREA | OWN | AREA | | | | | | |
| 88 KBE 01 KABWE | 4305 | 0.876 | 58 | 30 | 0.872 | 50 | 30 | 183.58 | 98.15 | 65.43 | 327.16 | 154.97 | 92.98 | 61.99 | 389.94 |
| 89 02 CHIRONGO | 89 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 0.84 | 2.31 | 1.05 | 4.28 | 0.77 | 2.11 | 0.96 | 3.84 |
| 93 KAPIRI MPOSHI | 326 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 3.86 | 8.42 | 3.83 | 15.31 | 2.80 | 7.78 | 3.50 | 14.88 |
| 94 MKUSERI | 354 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 3.42 | 9.41 | 4.28 | 17.11 | 3.13 | 8.61 | 3.91 | 15.85 |
| 85 MUPPETWE | 48 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 0.45 | 1.25 | 0.57 | 2.26 | 0.41 | 1.14 | 0.52 | 2.07 |
| 86 SERENJE | 340 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 3.20 | 8.79 | 3.99 | 15.98 | 2.92 | 8.04 | 3.65 | 14.52 |
| 87 CHALATA(M) | 26 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 0.18 | 0.51 | 0.23 | 0.92 | 0.17 | 0.46 | 0.21 | 0.84 |
| 88 KANONAK(M) | 17 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 0.16 | 0.44 | 0.20 | 0.89 | 0.15 | 0.48 | 0.18 | 0.73 |
| TOTAL | 5508 | 174.89 | 129.26 | 79.37 | 388.73 | 165.32 | 121.45 | 74.93 | 381.78 | | | | | | |
| 89 CHP 01 CHIPATA | 3397 | 0.876 | 50 | 30 | 0.872 | 50 | 30 | 185.87 | 75.40 | 50.27 | 251.35 | 119.06 | 71.44 | 47.62 | 238.12 |
| 92 CHADIZA | 316 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 2.97 | 8.17 | 3.71 | 14.85 | 2.72 | 7.47 | 3.48 | 13.59 |
| 93 CHAMA | 209 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 1.96 | 5.48 | 2.46 | 9.82 | 1.88 | 4.94 | 2.25 | 8.99 |
| 84 KATETE | 414 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 3.89 | 10.71 | 4.87 | 19.47 | 3.56 | 8.88 | 4.45 | 17.82 |
| 95 LUNDAZI | 409 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 3.85 | 10.58 | 4.81 | 19.23 | 3.52 | 9.68 | 4.49 | 17.59 |
| 85 MUDWE | 119 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 1.12 | 3.87 | 1.48 | 5.58 | 1.02 | 2.81 | 1.23 | 5.11 |
| 87 NYINBA | 189 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 1.77 | 4.88 | 2.22 | 8.87 | 1.62 | 4.46 | 2.03 | 8.11 |
| 88 PETAUKE | 524 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 4.92 | 13.54 | 6.15 | 24.62 | 4.58 | 12.39 | 5.63 | 22.52 |
| 89 SINDA | 132 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 1.24 | 3.41 | 1.55 | 6.20 | 1.13 | 3.12 | 1.42 | 5.67 |
| TOTAL | 5613 | 137.48 | 135.16 | 77.33 | 359.93 | 138.54 | 126.18 | 72.47 | 337.51 | | | | | | |
| 10 MGP 01 MONGU | 657 | 0.876 | 45 | 24 | 0.872 | 45 | 24 | 22.48 | 11.99 | 15.49 | 49.97 | 21.38 | 11.36 | 14.57 | 47.34 |
| 92 KALABO | 115 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 1.02 | 2.97 | 1.35 | 5.48 | 0.99 | 2.72 | 1.24 | 4.94 |
| 93 KAOKA | 144 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 1.35 | 3.71 | 1.69 | 6.75 | 1.24 | 3.48 | 1.54 | 6.18 |
| 84 LUKULU | 76 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 0.71 | 1.95 | 0.89 | 3.55 | 0.65 | 1.79 | 0.81 | 3.25 |
| 95 SENANGA | 163 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 1.53 | 4.22 | 1.92 | 7.67 | 1.48 | 3.86 | 1.75 | 7.82 |
| 96 LIMULUNGA(N) | 23 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 0.22 | 0.59 | 0.27 | 1.88 | 0.20 | 0.54 | 0.25 | 0.98 |
| TOTAL | 1178 | 27.37 | 25.44 | 21.68 | 74.41 | 25.77 | 23.66 | 20.27 | 59.78 | | | | | | |
| 11 SOL 01 SOLWEZI | 1337 | 0.876 | 48 | 20 | 0.875 | 48 | 20 | 48.64 | 20.32 | 48.64 | 181.61 | 48.11 | 20.85 | 49.11 | 189.27 |
| 92 KABOMPO | 269 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 2.53 | 6.94 | 3.16 | 12.62 | 2.31 | 6.35 | 2.83 | 11.55 |
| 93 KASEMPA | 302 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 2.84 | 7.82 | 3.55 | 14.21 | 2.68 | 7.15 | 3.25 | 13.88 |
| 94 MUFUBWE | 102 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 0.95 | 2.64 | 1.28 | 4.86 | 0.83 | 2.42 | 1.18 | 4.39 |
| 95 MUIWILUNGA | 345 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 3.25 | 8.92 | 4.86 | 16.23 | 2.97 | 8.16 | 3.71 | 14.84 |
| 96 ZAMBEZI | 303 | 0.847 | 20 | 55 | 0.843 | 20 | 55 | 2.91 | 8.80 | 3.64 | 14.55 | 2.65 | 7.32 | 3.33 | 13.31 |
| TOTAL | 2665 | 53.13 | 54.65 | 56.25 | 164.03 | 51.53 | 51.46 | 54.38 | 157.37 | | | | | | |
| GRAND TOTAL | 188317 | 3474.23 | 3817.31 | 2611.56 | 9983.18 | 3498.18 | 3559.47 | 2485.89 | 9512.60 | | | | | | |

Remarks : No. of Subscribers = Supply Volume / 0.85

Table 5-24 Traffic Forecast of Case 2 for the Year 2012 (1/3)

| EXCHANGE NAME NO. NO. AREA | NO. SUB OF Y2012 | ORG. TRF./LINE | | | TER. TRF./LINE | | | ORG. TRF. (EEL) | | | TER. TRF. (EEL) | | | | | |
|-------------------------------|---------------------|----------------|---------|---------|----------------|---------|---------|-----------------|---------|---------|-----------------|---------|---------|---------|---------|---------|
| | | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TOTAL | OWN | AREA | TOTAL | OWN | AREA | | | |
| 01 LSC01 LURAKA | 32849 | 0.071 | 50 | 30 | 0.071 | 50 | 30 | 1166.15 | 699.69 | 466.46 | 2332.38 | 1166.15 | 699.69 | 466.46 | 2332.38 | |
| 02 CHELSTON | 8993 | 0.071 | 20 | 50 | 0.071 | 50 | 30 | 126.43 | 316.87 | 189.64 | 632.14 | 316.87 | 189.64 | 126.43 | 632.14 | |
| 03 CHINIK | 3756 | 0.071 | 20 | 50 | 0.071 | 20 | 50 | 53.99 | 134.75 | 89.85 | 289.50 | 53.99 | 134.75 | 89.85 | 289.50 | |
| 04 EHWASDALE | 6418 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 28.24 | 142.21 | 112.97 | 282.41 | 25.67 | 122.37 | 102.70 | 256.74 | |
| 05 INT. AIRPORT | 767 | 0.071 | 10 | 50 | 0.071 | 10 | 50 | 5.45 | 27.23 | 21.78 | 54.95 | 5.45 | 27.23 | 21.78 | 54.95 | |
| 06 HAKENI | 2851 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 12.54 | 62.72 | 59.17 | 125.43 | 11.48 | 57.81 | 45.61 | 114.03 | |
| 07 RIDGERAY | 9889 | 0.071 | 50 | 30 | 0.071 | 50 | 30 | 351.05 | 218.63 | 140.42 | 782.10 | 351.05 | 218.63 | 140.42 | 782.10 | |
| 08 RONA | 7411 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 32.81 | 163.84 | 130.43 | 326.88 | 29.64 | 148.22 | 118.57 | 296.44 | |
| 09 WOODLANDS | 16432 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 72.57 | 362.83 | 290.27 | 725.87 | 65.97 | 329.85 | 263.88 | 659.78 | |
| 02 LSC 01 CHILANGA | 1583 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 6.96 | 34.82 | 27.86 | 69.55 | 6.33 | 31.66 | 25.33 | 63.32 | |
| 02 CHIRUNDU | 347 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 1.53 | 7.63 | 6.11 | 15.27 | 1.39 | 6.94 | 5.55 | 13.88 | |
| 03 CHISAMBA | 345 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 1.52 | 7.59 | 6.07 | 15.17 | 1.38 | 6.90 | 5.52 | 13.79 | |
| 04 CHONGWE | 315 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 1.39 | 6.93 | 5.54 | 13.56 | 1.26 | 6.38 | 5.04 | 12.59 | |
| 05 KAFUE | 6581 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 28.87 | 144.35 | 115.48 | 288.78 | 26.25 | 131.23 | 104.98 | 262.45 | |
| 06 LUANGWA | 323 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 1.42 | 7.10 | 5.68 | 14.20 | 1.29 | 6.46 | 5.16 | 12.51 | |
| 07 MUEBA | 584 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 2.57 | 12.34 | 10.27 | 25.58 | 2.33 | 11.67 | 9.34 | 23.34 | |
| 08 KAMALUNDU G | 398 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 1.75 | 8.75 | 7.00 | 17.58 | 1.59 | 7.95 | 6.36 | 15.91 | |
| 09 KAMPUNWE | 156 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 0.69 | 3.44 | 2.75 | 6.88 | 0.63 | 3.13 | 2.50 | 6.25 | |
| 10 SIYONGA | 820 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 3.81 | 18.83 | 14.43 | 36.86 | 3.28 | 16.39 | 13.11 | 32.79 | |
| TOTAL | 108878 | 1839.33 | 2359.64 | 1884.13 | 5953.95 | 1839.33 | 2359.64 | 1884.13 | 5953.95 | 2071.93 | 2154.91 | 1549.58 | 5774.63 | 2071.93 | 2154.91 | 1549.58 |
| 03 KTW 01 KITWE | 34183 | 0.071 | 40 | 40 | 0.071 | 40 | 40 | 971.09 | 971.09 | 485.55 | 2427.73 | 971.09 | 971.09 | 485.55 | 2427.73 | |
| 02 CRAMEESHI | 1038 | 0.044 | 20 | 60 | 0.044 | 20 | 60 | 9.14 | 27.41 | 9.14 | 45.59 | 8.31 | 24.92 | 8.31 | 41.54 | |
| 03 CHILILABOMBE | 4331 | 0.044 | 20 | 60 | 0.044 | 20 | 60 | 38.11 | 114.34 | 38.11 | 138.37 | 34.65 | 102.95 | 34.65 | 172.25 | |
| 04 CHINGOLA | 13838 | 0.044 | 40 | 40 | 0.044 | 40 | 40 | 243.56 | 243.56 | 121.78 | 688.89 | 221.41 | 221.41 | 110.71 | 558.53 | |
| 05 ITINPI | 739 | 0.044 | 20 | 60 | 0.044 | 20 | 60 | 6.50 | 19.50 | 6.50 | 32.50 | 5.91 | 17.72 | 5.91 | 29.54 | |
| 06 KALULUSHI | 2424 | 0.044 | 20 | 60 | 0.044 | 20 | 60 | 21.33 | 63.99 | 21.33 | 106.64 | 19.39 | 58.17 | 19.39 | 96.95 | |
| 07 MUFULIRA | 10931 | 0.044 | 20 | 60 | 0.044 | 20 | 60 | 96.19 | 289.58 | 96.19 | 489.37 | 87.45 | 262.35 | 87.45 | 437.25 | |
| 08 MINDOLO | 4469 | 0.044 | 20 | 60 | 0.044 | 20 | 60 | 39.33 | 117.99 | 39.33 | 196.66 | 35.76 | 107.27 | 35.76 | 178.78 | |
| TOTAL | 71984 | 1423.33 | 1846.47 | 1817.93 | 4889.55 | 1423.33 | 1846.47 | 1817.93 | 4889.55 | 1383.97 | 1786.83 | 787.71 | 3938.57 | 1383.97 | 1786.83 | 787.71 |
| 04 NDA 01 MAIN | 17995 | 0.071 | 50 | 20 | 0.071 | 50 | 20 | 635.62 | 254.25 | 381.37 | 1271.24 | 635.62 | 254.25 | 381.37 | 1271.24 | |
| 02 IND. NORTH | 2813 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 12.38 | 61.89 | 49.52 | 123.79 | 11.25 | 56.27 | 45.81 | 112.53 | |
| 03 IND. SOUTH | 1257 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 5.53 | 27.65 | 22.12 | 55.30 | 5.03 | 25.13 | 20.11 | 50.27 | |
| 04 KABUSHI | 7332 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 32.26 | 161.31 | 129.85 | 322.82 | 28.33 | 146.64 | 117.32 | 293.29 | |
| 05 KANSENSHI | 5189 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 22.33 | 114.16 | 91.33 | 228.32 | 20.76 | 103.78 | 83.83 | 207.56 | |
| 06 NORTHRISE | 3593 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 15.81 | 79.86 | 63.25 | 158.11 | 14.37 | 71.87 | 57.58 | 143.74 | |
| 07 PANODZI | 3654 | 0.044 | 10 | 50 | 0.044 | 10 | 50 | 16.88 | 80.38 | 64.31 | 168.77 | 14.62 | 73.08 | 58.46 | 146.15 | |
| 08 MASAITI | 263 | 0.044 | 20 | 60 | 0.044 | 20 | 60 | 2.32 | 6.95 | 2.32 | 11.58 | 2.11 | 6.32 | 2.11 | 10.53 | |
| 09 LUANSHA | 6996 | 0.044 | 40 | 40 | 0.044 | 40 | 40 | 123.12 | 123.12 | 61.56 | 307.81 | 111.92 | 111.92 | 55.97 | 279.83 | |
| TOTAL | 49882 | 805.95 | 988.77 | 854.81 | 2639.83 | 805.95 | 988.77 | 854.81 | 2639.83 | 345.81 | 349.27 | 838.88 | 345.81 | 349.27 | 838.88 | 2515.14 |

Table 5-24 Traffic Forecast of Case 2 for the Year 2012 (2/3)

| EXCHANGE NAME A. NOABERE NO. | NO. SUB DF. Y2012 | ORG TRF/LINE | | | TER TRF/LINE | | | ORG TRF (ERL) | | | TER TRF (ERL) | | | | |
|---------------------------------|----------------------|--------------|-----|--------|--------------|-----|--------|---------------|--------|--------|---------------|--------|--------|--------|--------|
| | | TOTAL | OWN | AREA % | TOTAL | OWN | AREA % | TOTAL | OWN | AREA | TOTAL | OWN | TRUNK | | |
| 05 MSA 01 MANSIA | 4698 | 0.071 | 50 | 20 | 0.067 | 50 | 20 | 166.77 | 66.71 | 108.06 | 333.54 | 157.38 | 62.95 | 94.43 | 314.75 |
| 02 KAWABWE | 700 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 6.16 | 16.94 | 7.78 | 30.81 | 5.68 | 15.48 | 7.20 | 28.81 |
| 03 NCHENSE | 364 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 9.47 | 26.03 | 14.88 | 16.81 | 2.91 | 8.08 | 3.64 | 14.55 |
| 04 NCHENSE | 1076 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 8.85 | 24.82 | 11.86 | 47.33 | 8.61 | 23.67 | 10.76 | 43.83 |
| 05 SAMFYA | 1005 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 194.45 | 142.82 | 134.66 | 44.24 | 8.84 | 22.12 | 10.85 | 48.22 |
| TOTAL | 7843 | | | | | | | 194.45 | 142.82 | 134.66 | 471.93 | 182.54 | 132.14 | 125.88 | 448.56 |
| 06 CHT 01 CHOMA | 5360 | 0.071 | 50 | 20 | 0.067 | 50 | 20 | 198.29 | 76.12 | 114.17 | 388.58 | 179.57 | 71.88 | 107.74 | 339.14 |
| 02 GEMBE | 389 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 2.72 | 7.48 | 3.40 | 13.61 | 2.47 | 6.20 | 3.09 | 12.37 |
| 03 IEZHITZHI | 312 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 2.74 | 7.54 | 3.43 | 13.72 | 2.49 | 6.86 | 3.12 | 12.47 |
| 04 KALOMO | 1318 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 11.53 | 31.78 | 14.41 | 57.64 | 18.38 | 28.82 | 13.18 | 52.48 |
| 05 MAAMBIA | 1119 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 9.85 | 27.08 | 12.81 | 49.23 | 8.95 | 24.61 | 11.19 | 44.75 |
| 06 HAZABUKU | 3434 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 38.22 | 83.11 | 37.78 | 151.11 | 27.48 | 75.56 | 34.34 | 137.38 |
| 07 MORZE | 2999 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 26.48 | 72.59 | 32.99 | 131.98 | 24.08 | 65.99 | 29.99 | 119.98 |
| 08 NAMWALA | 392 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 3.45 | 9.49 | 4.31 | 17.26 | 3.14 | 8.63 | 3.92 | 15.69 |
| 09 PEMBA | 560 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 4.93 | 13.55 | 6.16 | 24.63 | 4.38 | 12.32 | 5.68 | 22.39 |
| 10 LIVINGSTONE | 10550 | 0.071 | 65 | 5 | 0.067 | 65 | 5 | 486.86 | 37.45 | 224.71 | 749.92 | 439.44 | 35.34 | 212.85 | 736.82 |
| 11 ZIMBA(W) | 184 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 1.62 | 4.44 | 2.02 | 8.88 | 1.47 | 4.84 | 1.84 | 7.34 |
| 12 SESHERE(W) | 58 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 0.51 | 1.40 | 0.63 | 2.54 | 0.46 | 1.27 | 0.58 | 2.31 |
| TOTAL | 26587 | | | | | | | 282.12 | 328.66 | 228.97 | 839.75 | 263.35 | 38.41 | 212.18 | 716.56 |
| 07 KSA 01 KASABA | 4671 | 0.071 | 50 | 20 | 0.067 | 50 | 20 | 165.81 | 99.48 | 66.32 | 331.62 | 156.47 | 93.88 | 62.59 | 312.93 |
| 02 CHINSALI | 697 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 6.13 | 16.87 | 7.67 | 30.67 | 5.58 | 15.34 | 5.97 | 27.88 |
| 03 ISOKA | 919 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 8.09 | 22.24 | 10.11 | 40.42 | 7.35 | 20.22 | 9.19 | 36.76 |
| 04 LUNGU | 426 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 3.74 | 10.38 | 4.68 | 18.72 | 3.40 | 9.36 | 4.26 | 17.82 |
| 05 MBALA | 1917 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 15.99 | 43.37 | 19.99 | 79.95 | 14.54 | 39.97 | 18.17 | 72.08 |
| 06 MPIKA | 2255 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 19.84 | 54.56 | 24.80 | 99.20 | 18.04 | 49.60 | 22.55 | 98.18 |
| 07 MPOROKOSO | 528 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 4.65 | 12.79 | 5.81 | 23.25 | 4.33 | 11.63 | 5.28 | 21.34 |
| 08 MPULUNGU | 558 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 4.84 | 13.31 | 5.85 | 24.19 | 4.40 | 12.10 | 5.58 | 21.99 |
| 09 MUNGWI | 311 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 2.74 | 7.54 | 3.43 | 13.70 | 2.49 | 6.85 | 3.11 | 12.46 |
| 10 NAKONDE | 828 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 7.29 | 20.94 | 9.11 | 36.43 | 6.62 | 18.22 | 8.28 | 33.12 |
| 11 KAPUTA | 468 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 4.12 | 11.32 | 5.14 | 28.58 | 3.74 | 10.29 | 4.68 | 18.71 |
| TOTAL | 12469 | | | | | | | 243.23 | 312.41 | 193.11 | 718.75 | 260.93 | 287.45 | 150.57 | 604.87 |

Table 5-24 Traffic Forecast of Case 2 for the Year 2012 (3/3)

| EXCHANGE NAME & MOABASE NO | NO. SUB OF 12812 | ORG TRF/LINE | | | TRF TRF/LINE | | | ORG TRF (EFL) | | | TRF TRF (EFL) | | | | |
|-------------------------------|---------------------|--------------|-----|--------------|--------------|-----|--------------|---------------|---------|---------|---------------|---------|---------|---------|----------|
| | | TOTAL | OWN | AREA & TRUNK | TOTAL | OWN | AREA & TRUNK | TOTAL | OWN | AREA | TOTAL | OWN | TRUNK | | |
| 08 KBE 01 KABWE | 7999 | 0.071 | 50 | 30 | 0.067 | 58 | 30 | 283.96 | 170.88 | 153.58 | 567.92 | 267.96 | 168.78 | 197.19 | 535.93 |
| 02 CHIBOMBO | 160 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 1.48 | 3.85 | 1.75 | 7.02 | 1.28 | 3.51 | 1.68 | 6.38 |
| 03 KAPIRI MPOSHI | 585 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 5.32 | 14.94 | 6.66 | 26.62 | 4.84 | 13.31 | 6.05 | 24.20 |
| 04 MUKUSHI | 676 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 5.95 | 16.37 | 7.44 | 29.76 | 5.41 | 14.88 | 6.78 | 27.96 |
| 05 MUPETIWE | 90 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 0.79 | 2.17 | 0.93 | 3.94 | 0.72 | 1.97 | 0.98 | 3.58 |
| 06 SERERJE | 632 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 5.56 | 15.29 | 6.95 | 27.75 | 5.05 | 13.90 | 6.32 | 25.26 |
| 07 CHALATA(H) | 36 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 0.32 | 0.88 | 0.40 | 1.60 | 0.29 | 0.80 | 0.36 | 1.45 |
| 08 KANONA(H) | 31 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 0.28 | 0.76 | 0.35 | 1.39 | 0.25 | 0.69 | 0.31 | 1.26 |
| TOTAL | 10229 | | | | | | | 383.59 | 224.35 | 188.12 | 866.05 | 285.38 | 208.84 | 229.49 | 655.33 |
| 09 CHP 01 CHIPATA | 9475 | 0.071 | 50 | 30 | 0.067 | 50 | 30 | 336.35 | 201.81 | 184.54 | 672.70 | 317.40 | 192.44 | 226.96 | 534.81 |
| 02 CHADIZA | 906 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 7.98 | 21.93 | 9.97 | 39.83 | 7.25 | 19.94 | 9.85 | 36.26 |
| 03 CHAMA | 680 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 5.28 | 14.52 | 6.68 | 26.40 | 4.88 | 13.28 | 6.88 | 24.98 |
| 04 KATEPE | 1186 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 10.44 | 28.71 | 13.05 | 52.19 | 9.49 | 26.18 | 11.86 | 47.45 |
| 05 LUNDALI | 1172 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 10.32 | 28.37 | 12.89 | 51.58 | 9.38 | 25.79 | 11.72 | 46.39 |
| 06 MEUWE | 278 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 2.45 | 6.73 | 3.66 | 12.24 | 2.23 | 6.12 | 2.78 | 11.13 |
| 07 NIMBA | 541 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 4.77 | 13.10 | 5.56 | 23.83 | 4.33 | 11.91 | 5.41 | 21.66 |
| 08 PETAUKE | 1581 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 13.21 | 36.33 | 16.51 | 66.95 | 12.91 | 33.83 | 15.81 | 60.85 |
| 09 SINDA | 379 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 3.83 | 9.17 | 4.17 | 16.67 | 3.82 | 8.34 | 3.79 | 15.16 |
| TOTAL | 16840 | | | | | | | 394.12 | 368.88 | 288.75 | 961.56 | 369.92 | 334.87 | 332.61 | 837.18 |
| 10 MGU 01 MONGU | 878 | 0.071 | 45 | 24 | 0.067 | 45 | 31 | 27.79 | 14.82 | 19.14 | 61.75 | 26.22 | 13.98 | 12.86 | 58.37 |
| 02 KALABO | 152 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 1.34 | 3.68 | 1.67 | 6.69 | 1.22 | 3.34 | 1.52 | 6.88 |
| 03 KROMA | 190 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 1.67 | 4.98 | 2.89 | 8.36 | 1.52 | 4.18 | 1.98 | 7.98 |
| 04 LUKULU | 100 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 0.88 | 2.42 | 1.18 | 4.40 | 0.88 | 2.28 | 1.88 | 4.88 |
| 05 SENANGA | 287 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 1.82 | 5.01 | 2.28 | 9.11 | 1.66 | 4.55 | 2.87 | 8.28 |
| 06 LIMULUNGA(M) | 30 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 0.27 | 0.73 | 0.33 | 1.33 | 0.24 | 0.67 | 0.30 | 1.11 |
| TOTAL | 1549 | | | | | | | 33.76 | 31.35 | 28.61 | 91.62 | 31.65 | 28.92 | 24.85 | 85.43 |
| 11 SOL 01 SOLWEZI | 2581 | 0.071 | 40 | 20 | 0.069 | 40 | 20 | 71.03 | 35.52 | 71.83 | 177.58 | 69.03 | 34.52 | 69.83 | 172.58 |
| 02 KAROMPO | 503 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 4.42 | 12.16 | 5.53 | 22.11 | 4.02 | 11.06 | 5.03 | 20.10 |
| 03 KASEMFA | 566 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 4.98 | 13.99 | 6.22 | 24.89 | 4.52 | 12.44 | 5.66 | 22.82 |
| 04 MUFUHEWE | 191 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 1.68 | 4.62 | 2.18 | 8.41 | 1.53 | 4.20 | 1.91 | 7.94 |
| 05 MWINILUNGA | 646 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 5.68 | 15.63 | 7.18 | 28.42 | 5.17 | 14.21 | 6.46 | 25.83 |
| 06 ZAMBEZI | 579 | 0.044 | 20 | 55 | 0.040 | 20 | 55 | 5.89 | 14.91 | 6.97 | 25.47 | 4.68 | 12.74 | 5.75 | 23.65 |
| TOTAL | 4885 | | | | | | | 92.89 | 95.83 | 88.36 | 286.88 | 88.98 | 83.16 | 93.87 | 271.94 |
| GRAND TOTAL | 382475 | | | | | | | 6223.59 | 6663.96 | 4590.84 | 17478.39 | 6210.10 | 5184.61 | 4382.80 | 16706.70 |

Remarks : No. of Subscribers = Supply Volume / 0.85

Table 5-25 International Traffic Forecast of Case 2 (1/2)

Max. 83% > 75 erl.

| (DOMESTIC SIDE) | | 2007 | | 2012 | | | |
|---------------------------|-------|------------------------------------|---------|---------------|------------------------------------|---------|---------------|
| | | No. of Bus- iness Sub. 72761 | TRAFFIC | No. of CCT | No. of Bus- iness Sub. 86093 | TRAFFIC | No. of CCT |
| LUSAKA 1 | OG | | 83.57 | 101 | | 98.87 | 120 |
| | IC | | 83.57 | 101 | | 98.87 | 120 |
| LUSAKA 2 | OG | | | | | | |
| | IC | | | | | | |
| KITWE | OG | | 24.25 | 35 | | 28.69 | 40 |
| | IC | | 24.25 | 35 | | 28.69 | 40 |
| NDA | OG | | 11.28 | 20 | | 13.35 | 22 |
| | IC | | 11.28 | 20 | | 13.35 | 22 |
| RWY | OG | | 0.00 | 0 | | 0.00 | 0 |
| | IC | | 0.00 | 0 | | 0.00 | 0 |
| GIA | OG | | 2.30 | 4 | | 2.30 | 4 |
| | IC | | 1.80 | 4 | | 1.80 | 4 |
| | TOTAL | | 242.30 | 320 | | 285.92 | 372 |
| FROM IRM | | | | | | | |
| LSC | OG | | 44.22 | 57 | | 52.33 | 66 |
| | IC | | 4.73 | 11 | | 5.59 | 12 |
| KTW | OG | | 24.55 | 35 | | 29.05 | 41 |
| | IC | | 6.71 | 14 | | 7.94 | 15 |
| NDA | OG | | 4.73 | 11 | | 5.59 | 12 |
| | IC | | 4.73 | 11 | | 5.59 | 12 |
| (INTERNATIONAL SIDE) | | | | | | | |
| A : INDIAN OCEAN REGION | | | | | | | |
| GERMANY | BW | | 12.35 | 21 | | 14.61 | 24 |
| FRANCE | BW | | 7.78 | 15 | | 9.20 | 17 |
| NETHERLAND | BW | | 0.69 | 4 | | 0.81 | 4 |
| INDIA | BW | | 1.31 | 5 | | 1.55 | 6 |
| JAPAN | BW | | 0.69 | 4 | | 0.81 | 4 |
| ITALY | BW | | 12.35 | 21 | | 14.61 | 24 |
| BELGIUM | BW | | 1.31 | 5 | | 1.55 | 6 |
| SWEEDEN | BW | | 0.69 | 4 | | 0.81 | 4 |
| | TOTAL | | 37.16 | 79 | | 43.97 | 89 |
| B : ATLANTIC OCEAN REGION | | | | | | | |
| UK | BW | | 75.63 | 92 | | 89.49 | 106 |
| SOUTH AFRICA | BW | | 45.44 | 59 | | 53.77 | 68 |
| CANADA | BW | | 2.90 | 8 | | 3.43 | 9 |
| USA | BW | | 28.36 | 40 | | 33.56 | 46 |
| LESOTHO | BW | | 0.23 | 3 | | 0.27 | 3 |
| ANGOLA | BW | | 0.23 | 3 | | 0.27 | 3 |
| SWAZILAND | BW | | 0.23 | 3 | | 0.27 | 3 |
| | TOTAL | | 153.02 | 208 | | 181.06 | 238 |
| C : TERRESTRIAL ROUTE | | | | | | | |
| TANZANIA | BW | | 4.73 | 11 | | 5.59 | 12 |
| UGANDA | BW | | 0.23 | 3 | | 0.27 | 3 |
| KENYA | BW | | 6.71 | 14 | | 7.94 | 15 |
| ETHIOPIA | BW | | 1.31 | 5 | | 1.55 | 6 |
| ZIMBABWE | BW | | 55.05 | 69 | | 65.14 | 80 |
| MALAWI | BW | | 11.13 | 19 | | 13.17 | 22 |
| BOTSWANA | BW | | 11.13 | 19 | | 13.17 | 22 |
| ZAIRE | BW | | 11.13 | 19 | | 13.17 | 22 |
| | TOTAL | | 101.42 | 159 | | 120.01 | 182 |
| G. TOTAL | | | 291.61 | 446 | | 345.04 | 509 |

Table 5-25 International Traffic Forecast of Case 2 (2/2)

C = 0.9

| (DOMESTIC SIDE) | | 1992 | No. of | 1997 | No. of | 2002 | No. of |
|---------------------------|-------|--------------------|--------|-------------|---------|------|-------------|
| | | No. of SUB OFFERED | CCT | No. of Bus- | TRAFFIC | CCT | No. of Bus- |
| | | TRAFFIC | | iness Sub. | | | iness Sub. |
| | | 47715 | | 50373 | | | 60950 |
| LUSAKA 1 | OG | 21.1 | 22 | | 54.58 | 69 | |
| | IC | 35.8 | 40 | | 54.58 | 69 | |
| LUSAKA 2 | OG | 26.4 | 43 | | | | |
| | IC | 20.1 | 21 | | | | |
| KITWE | OG | 9.8 | 21 | | 16.79 | 26 | 20.31 |
| | IC | 7.2 | 29 | | 16.79 | 26 | 20.31 |
| NDA | OG | 6.4 | 19 | | 7.81 | 15 | 9.45 |
| | IC | 8.4 | 19 | | 7.81 | 15 | 9.45 |
| RWY | OG | 3.9 | 10 | | 3.27 | 9 | 0.00 |
| | IC | 2.3 | 8 | | 3.27 | 9 | 0.00 |
| CIA | OG | 2.3 | 4 | | 2.30 | 4 | 2.30 |
| | IC | 1.8 | 4 | | 1.80 | 4 | 1.80 |
| | TOTAL | 145.5 | 240 | | 169.00 | 246 | 203.62 |
| FROM IRM | | | | | | | |
| LSC | OG | 29 | 40 | | 30.62 | 42 | 37.04 |
| | IC | 3.1 | 8 | | 3.27 | 9 | 3.96 |
| KTW | OG | 16.1 | 25 | | 17.00 | 27 | 20.57 |
| | IC | 4.4 | 10 | | 4.65 | 11 | 5.62 |
| NDA | OG | 3.1 | 8 | | 3.63 | 9 | 3.96 |
| | IC | 3.1 | 8 | | 3.63 | 9 | 3.96 |
| (INTERNATIONAL SIDE) | | | | | | | |
| A : INDIAN OCEAN REGION | | | | | | | |
| GERMANY | BW | 8.1 | 15 | | 8.55 | 16 | 10.35 |
| FRANCE | BW | 5.1 | 11 | | 5.38 | 12 | 6.51 |
| NETHERLAND | BW | 0.45 | 3 | | 0.48 | 4 | 0.57 |
| INDIA | BW | 0.86 | 4 | | 0.91 | 5 | 1.10 |
| JAPAN | BW | 0.45 | 3 | | 0.48 | 4 | 0.57 |
| ITALY | BW | 8.1 | 15 | | 8.55 | 16 | 10.35 |
| BELGIUM | BW | 0.86 | 4 | | 0.91 | 5 | 1.10 |
| SWEEDEN | BW | 0.45 | 3 | | 0.48 | 4 | 0.57 |
| | TOTAL | 24.37 | 58 | | 25.73 | 66 | 31.13 |
| B : ATLANTIC OCEAN REGION | | | | | | | |
| UK | BW | 49.6 | 63 | | 52.36 | 66 | 63.36 |
| SOUTH AFRICA | BW | 29.8 | 41 | | 31.46 | 43 | 38.07 |
| CANADA | BW | 1.9 | 6 | | 2.01 | 7 | 2.43 |
| USA | BW | 18.6 | 28 | | 19.64 | 30 | 23.76 |
| LESOTHO | BW | 0.15 | 2 | | 0.16 | 3 | 0.19 |
| ANGOLA | BW | 0.15 | 2 | | 0.16 | 3 | 0.19 |
| SWAZILAND | BW | 0.15 | 2 | | 0.16 | 3 | 0.19 |
| | TOTAL | 100.35 | 144 | | 105.94 | 155 | 128.18 |
| C : TERRESTRIAL ROUTE | | | | | | | |
| TANZANIA | BW | 3.1 | 8 | | 3.27 | 9 | 3.96 |
| UGANDA | BW | 0.15 | 2 | | 0.16 | 3 | 0.19 |
| KENYA | BW | 4.4 | 10 | | 4.65 | 11 | 5.62 |
| ETHIOPIA | BW | 0.86 | 4 | | 0.91 | 5 | 1.10 |
| ZIMBABWE | BW | 36.1 | 48 | | 38.11 | 51 | 46.11 |
| MALAWI | BW | 7.3 | 14 | | 7.71 | 15 | 9.32 |
| BOTSWANA | BW | 7.3 | 14 | | 7.71 | 15 | 9.32 |
| ZAIRE | BW | 7.3 | 14 | | 7.71 | 15 | 9.32 |
| | TOTAL | 66.51 | 114 | | 70.21 | 124 | 84.96 |
| G. TOTAL | | 191.23 | 316 | | 201.88 | 345 | 244.27 |

Table 5-26 Circuit Forecast of Case 2 for the Year 2002 (1/2)

MAX.93% : TRF > 75 ERLANG
GOS : B=0.01

| EXCHANGE NAME A. NO. AREA. NO. NAME | NO. SUB DF Y2002 | ORG TRF (ERL) | | | | | No. of CCT | TER TRF (ERL) | | | | | No. of CCT |
|--|---------------------|---------------|--------|--------|--------|-------|---------------|---------------|--------|--------|-------|-------|---------------|
| | | OWN | AREA | TRUNK | OG | TOTAL | | OWN | AREA | TRUNK | OG | TOTAL | |
| 01 LSC01 LUSAKA | 19487 | 737.48 | 442.49 | - | 442.49 | * | 737.48 | 442.49 | - | 442.49 | - | | |
| 02 CHELSTON | 5284 | 88.31 | 289.78 | 128.47 | 321.24 | L+146 | 288.78 | 128.47 | 88.31 | 288.78 | L+ 97 | | |
| 03 CHIRIKA | 2253 | 34.24 | 85.68 | 51.36 | 138.96 | L+ 85 | 34.24 | 85.68 | 51.36 | 138.96 | L+ 65 | | |
| 04 EMMASDALE | 3810 | 17.91 | 89.54 | 71.63 | 161.17 | L+ 87 | 16.38 | 81.92 | 65.54 | 147.46 | L+ 81 | | |
| 05 INT. AIRPORT | 455 | 3.46 | 17.29 | 13.84 | 31.13 | L+ 23 | 3.46 | 17.29 | 13.84 | 31.13 | L+ 23 | | |
| 06 MAKENI | 1692 | 7.95 | 39.76 | 31.88 | 71.56 | L+ 44 | 7.27 | 36.37 | 23.10 | 65.47 | L+ 41 | | |
| 07 RIDGEWAY | 5878 | 223.87 | 133.84 | 89.23 | 223.87 | L+188 | 223.87 | 133.84 | 89.23 | 223.87 | L+188 | | |
| 08 ROMA | 4398 | 28.67 | 193.35 | 82.68 | 186.83 | L+188 | 18.91 | 94.56 | 75.64 | 178.28 | L+ 92 | | |
| 09 WOODLANDS | 9787 | 46.88 | 238.88 | 184.88 | 414.88 | L+222 | 42.89 | 218.43 | 168.34 | 378.77 | L+202 | | |
| TOTAL | 59476 | | | | | | | | | | | | |
| 02 LSC 01 CHILANGA | 939 | 4.41 | 22.07 | 17.66 | 39.73 | 53 | 4.94 | 28.28 | 16.16 | 36.35 | 49 | | |
| 02 CHIRUNDU | 142 | 8.67 | 3.33 | 2.66 | 5.99 | 13 | 8.61 | 3.85 | 2.44 | 5.48 | 12 | | |
| 03 CHISAMBA | 186 | 8.87 | 4.26 | 3.49 | 7.85 | 15 | 8.88 | 3.99 | 3.19 | 7.18 | 14 | | |
| 04 CHONGWE | 187 | 8.88 | 4.39 | 3.51 | 7.91 | 15 | 8.88 | 4.82 | 3.22 | 7.23 | 14 | | |
| 05 KAFUE | 3894 | 18.38 | 91.58 | 73.28 | 164.71 | 199 | 16.74 | 83.72 | 66.97 | 158.69 | 182 | | |
| 06 LUANGWA | 192 | 8.98 | 4.58 | 3.68 | 8.18 | 15 | 8.82 | 4.12 | 3.29 | 7.41 | 15 | | |
| 07 NUNWA | 314 | 1.48 | 7.38 | 5.98 | 13.28 | 22 | 1.35 | 6.75 | 5.48 | 12.15 | 21 | | |
| 08 NAMALUNDU G | 236 | 1.11 | 5.55 | 4.44 | 9.98 | 18 | 1.81 | 5.87 | 4.86 | 9.13 | 17 | | |
| 09 NAMPUNDWE | 96 | 8.45 | 2.25 | 1.88 | 4.95 | 19 | 8.41 | 2.86 | 1.65 | 3.78 | 9 | | |
| 18 SIAPONGA | 335 | 1.57 | 7.87 | 6.29 | 14.16 | 23 | 1.44 | 7.28 | 5.76 | 12.96 | 22 | | |
| TOTAL | 59476 | | | | | | | | | | | | |
| 03 KTW 01 KITWE | 18687 | 568.89 | 568.89 | - | 568.89 | * | 568.89 | 568.89 | - | 568.89 | * | | |
| 02 CHAMBESHI | 568 | 5.34 | 16.82 | 5.34 | 21.36 | 32 | 4.89 | 14.66 | 4.89 | 19.54 | 30 | | |
| 03 CHILILABOMBWE | 2379 | 22.28 | 66.83 | 22.28 | 89.16 | 188 | 20.38 | 61.14 | 20.38 | 81.52 | 99 | | |
| 04 CHINGOLA | 7571 | 142.34 | 142.34 | 71.17 | 213.51 | 258 | 138.23 | 138.23 | 65.11 | 195.34 | 236 | | |
| 05 ITIHPI | 484 | 3.88 | 11.39 | 3.88 | 15.19 | 24 | 3.48 | 10.43 | 3.48 | 13.98 | 23 | | |
| 06 KALULUSHI | 1326 | 12.47 | 37.48 | 12.47 | 49.86 | 64 | 11.48 | 34.21 | 11.48 | 45.62 | 59 | | |
| 07 MUFULIRA | 5981 | 56.22 | 168.66 | 56.22 | 224.88 | 271 | 51.43 | 154.38 | 51.43 | 205.74 | 248 | | |
| 08 HINDOLO | 2434 | 22.88 | 68.63 | 22.88 | 91.58 | 111 | 28.93 | 62.79 | 28.93 | 83.71 | 181 | | |
| TOTAL | 39341 | | | | | | | | | | | | |
| 04 NDA 01 MAIN | 9789 | 378.45 | 148.18 | - | 148.18 | * | 378.45 | 148.18 | - | 148.18 | * | | |
| 02 IND. NORTH | 1539 | 7.23 | 36.17 | 28.94 | 65.11 | 88 | 6.62 | 33.88 | 26.48 | 59.57 | 74 | | |
| 03 IND. SOUTH | 688 | 3.23 | 16.16 | 12.93 | 29.89 | 41 | 2.96 | 14.78 | 11.83 | 26.61 | 38 | | |
| 04 KABUSHI | 3992 | 18.76 | 93.82 | 75.05 | 168.87 | 204 | 17.17 | 85.83 | 68.67 | 154.58 | 187 | | |
| 05 KANSENSHI | 2825 | 13.28 | 66.48 | 53.12 | 119.51 | 144 | 12.15 | 68.74 | 48.68 | 109.34 | 132 | | |
| 06 NORTHRISE | 1957 | 9.28 | 45.98 | 36.78 | 82.76 | 108 | 8.41 | 42.87 | 33.65 | 75.72 | 92 | | |
| 07 PAMODZI | 1989 | 9.35 | 46.75 | 37.48 | 84.15 | 102 | 8.55 | 42.77 | 34.22 | 76.99 | 93 | | |
| 08 MASAITI | 144 | 1.35 | 4.86 | 1.35 | 5.41 | 12 | 1.24 | 3.72 | 1.24 | 4.95 | 11 | | |
| 09 LUANSHA | 3828 | 71.96 | 71.96 | 35.98 | 187.94 | 131 | 65.83 | 65.83 | 32.92 | 98.75 | 119 | | |
| TOTAL | 26711 | | | | | | | | | | | | |
| 05 MSA 01 MANSA | 1861 | 78.72 | 28.29 | - | 28.29 | * | 66.99 | 26.88 | - | 26.88 | * | | |
| 02 KAVAMBWE | 277 | 2.61 | 7.17 | 3.26 | 18.43 | 18 | 2.39 | 6.56 | 2.98 | 9.54 | 17 | | |
| 03 MWENSE | 161 | 1.51 | 4.16 | 1.89 | 6.85 | 13 | 1.38 | 3.81 | 1.73 | 5.54 | 12 | | |
| 04 NCHENGE | 426 | 4.81 | 11.82 | 5.81 | 16.82 | 25 | 3.66 | 18.38 | 4.58 | 18.66 | 24 | | |
| 05 SANFYA | 398 | 3.74 | 18.38 | 4.68 | 14.98 | 24 | 3.43 | 9.42 | 4.28 | 13.78 | 23 | | |
| TOTAL | 3124 | | | | | | | | | | | | |
| 06 CHT 01 CHONA | 2189 | 83.19 | 33.28 | - | 33.28 | * | 78.82 | 31.53 | - | 31.53 | * | | |
| 02 GWEMBE | 126 | 1.19 | 3.27 | 1.48 | 4.75 | 11 | 1.89 | 2.99 | 1.36 | 4.34 | 18 | | |
| 03 ITEZHITZHI | 127 | 1.28 | 3.29 | 1.58 | 4.79 | 11 | 1.18 | 3.81 | 1.37 | 4.38 | 18 | | |
| 04 KALOMO | 535 | 5.83 | 13.83 | 6.29 | 28.12 | 38 | 4.68 | 12.65 | 5.75 | 18.48 | 28 | | |
| 05 NAAMBA | 457 | 4.38 | 11.81 | 5.37 | 17.18 | 27 | 2.93 | 18.81 | 4.91 | 15.72 | 25 | | |
| 06 HAZARUKU | 1483 | 13.19 | 36.26 | 16.48 | 52.74 | 67 | 12.86 | 33.17 | 15.88 | 48.25 | 62 | | |
| 07 MONZE | 1225 | 11.92 | 31.67 | 14.39 | 46.86 | 68 | 18.54 | 28.97 | 13.17 | 42.14 | 55 | | |
| 08 NAMWALA | 168 | 1.51 | 4.14 | 1.88 | 6.82 | 13 | 1.38 | 3.79 | 1.72 | 5.51 | 12 | | |
| 09 PENBA | 288 | 2.63 | 7.24 | 3.29 | 18.53 | 19 | 2.41 | 6.63 | 3.81 | 9.64 | 17 | | |
| 10 LIVINGSTONE | 4389 | 212.86 | 16.37 | - | 16.37 | * | 281.65 | 15.51 | - | 15.51 | * | | |
| 11 ZIMBA(M) | 75 | 8.78 | 1.94 | 8.88 | 2.82 | 8 | 8.64 | 1.77 | 8.81 | 2.58 | 8 | | |
| 12 SESHEKE(M) | 44 | 8.41 | 1.13 | 8.51 | 1.64 | 6 | 8.38 | 1.83 | 8.27 | 1.58 | 6 | | |
| TOTAL | 18931 | | | | | | | | | | | | |

Table 5-26 Circuit Forecast of Case 2 for the Year 2002 (2/2)

MAX.834 : TRF > 75 ERLANG
GOS : B=0.01

| A. NO | EXCHANGE NAME | NO. SUB DF Y2002 | ORG TRF (ERL) | | | | No. of CCT | TER TRF (ERL) | | | | No. of CCT | | |
|-------|---------------|------------------|------------------|--------|--------|----------|------------|---------------|------|--------|----------|------------|-------|----|
| | | | OWN | AREA | TRUNK | OG TOTAL | | OWN | AREA | TRUNK | OG TOTAL | | | |
| 07 | KSA | 01 | KASAMA | 1992 | 75.69 | 45.42 | - | 45.42 | - | 71.71 | 43.02 | - | 43.02 | - |
| | | | 02 CHINSALI | 297 | 2.79 | 7.69 | 3.49 | 11.18 | 19 | 2.56 | 7.33 | 3.29 | 10.23 | 18 |
| | | | 03 TSONA | 392 | 3.68 | 10.13 | 4.61 | 14.74 | 24 | 3.37 | 9.27 | 4.21 | 13.48 | 22 |
| | | | 04 LUWINGU | 182 | 1.71 | 4.79 | 2.14 | 6.83 | 14 | 1.56 | 4.39 | 1.95 | 6.25 | 13 |
| | | | 05 MBALA | 775 | 7.28 | 20.93 | 9.10 | 29.13 | 41 | 6.66 | 18.32 | 8.33 | 26.65 | 38 |
| | | | 06 MPIRA | 961 | 9.94 | 24.85 | 11.29 | 36.14 | 49 | 8.27 | 22.73 | 10.33 | 33.07 | 45 |
| | | | 07 NPOKOKOSO | 225 | 2.12 | 5.82 | 2.65 | 8.47 | 16 | 1.94 | 5.33 | 2.42 | 7.75 | 15 |
| | | | 08 MPULUMGU | 234 | 2.29 | 6.86 | 2.75 | 8.81 | 16 | 2.02 | 5.54 | 2.52 | 8.96 | 15 |
| | | | 09 HUNGWI | 155 | 1.45 | 4.08 | 1.82 | 5.82 | 12 | 1.33 | 3.66 | 1.66 | 5.32 | 12 |
| | | | 10 NAKONDE | 353 | 3.32 | 9.13 | 4.15 | 13.28 | 22 | 3.04 | 8.35 | 3.89 | 12.15 | 21 |
| | | | 11 KAPUTA | 199 | 1.87 | 5.16 | 2.34 | 7.59 | 15 | 1.72 | 4.72 | 2.14 | 6.86 | 14 |
| | | | TOTAL | 5766 | | | | | | | | | | |
| 08 | KBE | 01 | KABWE | 4385 | 163.58 | 98.15 | - | 98.15 | - | 154.97 | 92.98 | - | 92.98 | - |
| | | | 02 CHIBOMBO | 89 | 0.84 | 2.31 | 1.05 | 3.36 | 9 | 0.77 | 2.11 | 0.96 | 3.07 | 8 |
| | | | 03 KAPIRI MPOSHI | 326 | 3.06 | 8.42 | 3.83 | 12.24 | 21 | 2.80 | 7.70 | 3.50 | 11.20 | 19 |
| | | | 04 MKUSHI | 364 | 3.42 | 9.41 | 4.28 | 13.69 | 23 | 3.13 | 8.61 | 3.91 | 12.52 | 21 |
| | | | 05 MUPPETWE | 49 | 0.45 | 1.25 | 0.57 | 1.81 | 6 | 0.41 | 1.14 | 0.52 | 1.66 | 6 |
| | | | 06 SERENJE | 344 | 3.20 | 8.79 | 3.99 | 12.78 | 21 | 2.92 | 8.94 | 3.65 | 11.69 | 20 |
| | | | 07 CHALATA(M) | 24 | 0.18 | 0.51 | 0.23 | 0.74 | 4 | 0.17 | 0.46 | 0.21 | 0.68 | 4 |
| | | | 08 KANONA(M) | 17 | 0.16 | 0.44 | 0.20 | 0.64 | 4 | 0.15 | 0.40 | 0.18 | 0.58 | 4 |
| | | | TOTAL | 5500 | | | | | | | | | | |
| 09 | CHP | 01 | CHIPATA | 3307 | 125.67 | 75.40 | - | 75.40 | - | 119.86 | 71.44 | - | 71.44 | - |
| | | | 02 CHADIZA | 316 | 2.97 | 8.17 | 3.71 | 11.88 | 20 | 2.72 | 7.47 | 3.40 | 10.87 | 19 |
| | | | 03 CHAMA | 209 | 1.96 | 5.40 | 2.46 | 7.86 | 15 | 1.80 | 4.94 | 2.25 | 7.19 | 14 |
| | | | 04 KATETE | 414 | 3.89 | 10.71 | 4.87 | 15.58 | 25 | 3.56 | 9.88 | 4.45 | 14.25 | 23 |
| | | | 05 LUNDAZI | 409 | 3.85 | 10.58 | 4.81 | 15.38 | 25 | 3.52 | 9.68 | 4.40 | 14.07 | 23 |
| | | | 06 MFWNE | 119 | 1.12 | 3.07 | 1.40 | 4.47 | 11 | 1.02 | 2.81 | 1.28 | 4.09 | 10 |
| | | | 07 NYINBA | 189 | 1.77 | 4.88 | 2.22 | 7.09 | 14 | 1.62 | 4.46 | 2.03 | 6.49 | 13 |
| | | | 08 PETAUKE | 524 | 4.92 | 13.54 | 6.15 | 19.69 | 30 | 4.50 | 12.39 | 5.63 | 18.02 | 28 |
| | | | 09 SINDA | 132 | 1.24 | 3.41 | 1.55 | 4.96 | 11 | 1.13 | 3.12 | 1.42 | 4.54 | 11 |
| | | | TOTAL | 5619 | | | | | | | | | | |
| 10 | MGU | 01 | MONGU | 657 | 22.48 | 11.99 | - | 11.99 | - | 21.30 | 11.36 | - | 11.36 | - |
| | | | 02 KALABO | 115 | 1.08 | 2.97 | 1.35 | 4.32 | 10 | 0.99 | 2.72 | 1.24 | 3.95 | 10 |
| | | | 03 KAOMA | 144 | 1.35 | 3.71 | 1.69 | 5.40 | 12 | 1.24 | 3.40 | 1.54 | 4.94 | 11 |
| | | | 04 LUKULU | 76 | 0.71 | 1.95 | 0.89 | 2.84 | 8 | 0.65 | 1.79 | 0.81 | 2.60 | 8 |
| | | | 05 SENANGA | 163 | 1.53 | 4.22 | 1.92 | 6.14 | 13 | 1.40 | 3.86 | 1.75 | 5.61 | 12 |
| | | | 06 LIMULUNGA(M) | 23 | 0.22 | 0.59 | 0.27 | 0.86 | 4 | 0.20 | 0.54 | 0.25 | 0.79 | 4 |
| | | | TOTAL | 1178 | | | | | | | | | | |
| 11 | SOL | 01 | SOLWEZI | 1337 | 40.64 | 20.32 | - | 20.32 | - | 40.11 | 20.05 | - | 20.05 | - |
| | | | 02 KABOMPO | 269 | 2.53 | 6.94 | 3.16 | 10.10 | 18 | 2.31 | 6.35 | 2.89 | 9.24 | 17 |
| | | | 03 KASEMPA | 302 | 2.94 | 7.82 | 3.55 | 11.37 | 20 | 2.60 | 7.15 | 3.25 | 10.40 | 18 |
| | | | 04 MUFUMBWE | 102 | 0.96 | 2.64 | 1.20 | 3.84 | 10 | 0.88 | 2.42 | 1.10 | 3.51 | 9 |
| | | | 05 MWINILUNGA | 345 | 3.25 | 8.32 | 4.06 | 12.98 | 22 | 2.97 | 8.16 | 3.71 | 11.88 | 20 |
| | | | 06 ZAMBEZI | 309 | 2.91 | 8.00 | 3.64 | 11.64 | 20 | 2.66 | 7.32 | 3.33 | 10.65 | 19 |
| | | | TOTAL | 2665 | | | | | | | | | | |
| | | | GRAND TOTAL | 100317 | | | | | | | | | | |

Remarks (1) No. of circuits with "L-" mark is separately calculated based on Multi-exchange routing.
(2) No. of circuits with * mark is subject to the total No. of circuits from/to local exchanges.

Table 5-27 Circuit Forecast of Case 2 for the Year 2012 (2/2)

MAX.83% : TRF > 75 ERLANG
GOS : B=0.01

| EXCHANGE NAME A. NOAREAE NO NAME | NO. SUB OF Y2012 | ORG TRF (ERL) | | | | No. of CCT | TER TRF (ERL) | | | | No. of CCT |
|-------------------------------------|---------------------|---------------|--------|-------|----------|---------------|---------------|--------|-------|----------|---------------|
| | | OWN | AREA | TRUNK | IG TOTAL | | OWN | AREA | TRUNK | IG TOTAL | |
| 27 KSA 01 KASAMA | 4671 | 165.81 | 99.48 | - | 99.48 | * | 156.47 | 93.88 | - | 93.88 | * |
| 02 CHINSALI | 697 | 6.13 | 16.87 | 7.67 | 24.54 | 35 | 5.58 | 15.34 | 6.97 | 22.31 | 33 |
| 03 ISOKA | 919 | 8.09 | 22.24 | 18.11 | 32.35 | 44 | 7.35 | 28.22 | 9.19 | 29.48 | 41 |
| 04 LUWINGU | 426 | 3.74 | 18.30 | 4.68 | 14.98 | 24 | 3.40 | 9.36 | 4.26 | 13.62 | 22 |
| 05 MBALA | 1817 | 15.99 | 43.97 | 19.99 | 63.96 | 79 | 14.54 | 39.97 | 18.17 | 58.14 | 73 |
| 06 MPIKA | 2255 | 19.84 | 54.56 | 24.80 | 79.36 | 96 | 18.04 | 49.68 | 22.55 | 72.15 | 88 |
| 07 MPOROKOSO | 528 | 4.65 | 12.79 | 5.81 | 18.60 | 28 | 4.23 | 11.63 | 5.28 | 16.91 | 26 |
| 08 MPULUNGU | 550 | 4.84 | 13.31 | 6.05 | 19.35 | 29 | 4.40 | 12.10 | 5.50 | 17.59 | 27 |
| 09 NUNGUI | 311 | 2.74 | 7.54 | 3.43 | 10.96 | 19 | 2.49 | 6.85 | 3.11 | 9.97 | 18 |
| 10 NAKONDE | 828 | 7.29 | 28.84 | 9.11 | 29.15 | 41 | 6.62 | 18.22 | 8.28 | 26.50 | 38 |
| 11 KAPUTA | 468 | 4.12 | 11.32 | 5.14 | 16.46 | 26 | 3.74 | 10.29 | 4.68 | 14.97 | 24 |
| TOTAL | 13469 | | | | | | | | | | |
| 28 KBE 01 KABWE | 7999 | 283.96 | 170.38 | - | 170.38 | * | 267.96 | 168.78 | - | 168.78 | * |
| 02 CHIBOMBO | 160 | 1.40 | 3.86 | 1.75 | 5.61 | 12 | 1.28 | 3.51 | 1.60 | 5.10 | 11 |
| 03 KAPIRI MPOSHI | 605 | 5.32 | 14.64 | 6.66 | 21.38 | 32 | 4.84 | 13.31 | 6.05 | 19.36 | 29 |
| 04 NKUSHI | 676 | 5.95 | 16.37 | 7.44 | 23.81 | 35 | 5.41 | 14.88 | 6.76 | 21.64 | 32 |
| 05 HUPEPETWE | 90 | 0.79 | 2.17 | 0.98 | 3.15 | 9 | 0.72 | 1.97 | 0.90 | 2.86 | 8 |
| 06 SERENJE | 632 | 5.56 | 15.29 | 6.96 | 22.23 | 33 | 5.05 | 13.98 | 6.32 | 28.21 | 30 |
| 07 CHALATA(M) | 36 | 0.32 | 0.88 | 0.48 | 1.28 | 5 | 0.29 | 0.80 | 0.36 | 1.17 | 5 |
| 08 KANONA(M) | 31 | 0.28 | 0.76 | 0.35 | 1.11 | 5 | 0.25 | 0.69 | 0.31 | 1.01 | 5 |
| TOTAL | 10229 | | | | | | | | | | |
| 29 CHP 01 CHIPATA | 9475 | 336.35 | 281.81 | - | 281.81 | * | 317.40 | 198.44 | - | 198.44 | * |
| 02 CHADIZA | 986 | 7.98 | 21.93 | 9.97 | 31.91 | 44 | 7.25 | 19.94 | 9.86 | 29.88 | 48 |
| 03 CHAMA | 600 | 5.28 | 14.52 | 6.68 | 21.12 | 31 | 4.88 | 13.28 | 6.00 | 19.20 | 29 |
| 04 KATETE | 1186 | 10.44 | 28.71 | 13.05 | 41.76 | 56 | 9.49 | 26.18 | 11.86 | 37.98 | 51 |
| 05 LUNDAZI | 1172 | 18.32 | 28.37 | 12.89 | 41.26 | 54 | 9.38 | 25.79 | 11.72 | 37.51 | 50 |
| 06 MFUWE | 278 | 2.45 | 6.73 | 3.86 | 9.79 | 18 | 2.23 | 6.12 | 2.78 | 8.90 | 17 |
| 07 NYINBA | 541 | 4.77 | 13.18 | 5.96 | 19.96 | 29 | 4.33 | 11.91 | 5.41 | 17.33 | 27 |
| 08 PETAUKE | 1501 | 13.21 | 36.33 | 16.51 | 52.84 | 67 | 12.01 | 32.83 | 15.01 | 48.04 | 62 |
| 09 SINDA | 379 | 3.33 | 9.17 | 4.17 | 13.34 | 22 | 3.03 | 8.34 | 3.79 | 12.12 | 21 |
| TOTAL | 16040 | | | | | | | | | | |
| 30 MGU 01 MONGU | 870 | 27.79 | 14.82 | - | 14.82 | * | 26.22 | 13.98 | - | 13.98 | * |
| 02 KALABO | 152 | 1.34 | 3.68 | 1.67 | 5.35 | 12 | 1.22 | 3.34 | 1.52 | 4.86 | 11 |
| 03 KAOMA | 190 | 1.67 | 4.60 | 2.09 | 6.69 | 14 | 1.52 | 4.18 | 1.90 | 6.08 | 13 |
| 04 LUKULU | 180 | 0.88 | 2.42 | 1.18 | 3.52 | 9 | 0.80 | 2.20 | 1.00 | 3.20 | 9 |
| 05 SENANGA | 207 | 1.82 | 5.01 | 2.28 | 7.28 | 14 | 1.66 | 4.55 | 2.07 | 6.62 | 14 |
| 06 LIMULUNGA(M) | 30 | 0.27 | 0.73 | 0.33 | 1.06 | 5 | 0.24 | 0.67 | 0.30 | 0.97 | 5 |
| TOTAL | 1549 | | | | | | | | | | |
| 31 SOL 01 SOLWEZI | 2501 | 71.03 | 35.52 | - | 35.52 | * | 69.03 | 34.52 | - | 34.52 | * |
| 02 KABOMPO | 503 | 4.42 | 12.16 | 5.53 | 17.69 | 27 | 4.02 | 11.06 | 5.03 | 16.98 | 25 |
| 03 KASENPA | 566 | 4.98 | 13.69 | 6.22 | 19.91 | 30 | 4.52 | 12.44 | 5.66 | 18.19 | 28 |
| 04 MUFUMBWE | 191 | 1.68 | 4.62 | 2.10 | 6.73 | 14 | 1.53 | 4.29 | 1.91 | 6.11 | 13 |
| 05 MUIRILUNGA | 646 | 5.68 | 15.63 | 7.10 | 22.73 | 33 | 5.17 | 14.21 | 6.46 | 20.67 | 31 |
| 06 ZAMBEZI | 579 | 5.99 | 14.01 | 6.37 | 20.38 | 31 | 4.63 | 12.74 | 5.79 | 18.53 | 28 |
| TOTAL | 4985 | | | | | | | | | | |
| GRAND TOTAL | 302475 | | | | | | | | | | |

Remarks (1) No. of circuits with "L" mark is separately calculated based on Multi-exchange routing.
(2) No. of circuits with * mark is subject to the total No. of circuits from/to local exchanges.

DATA 6

INTERVIEW

Table 6-1 Result of Interview Data (1/2)

| Number | Area | Occupation | Income p.a. (1000ZK) | Premium | | | Call charge | Comment | Communication | Cost p.a. (ZK) |
|--------|------------|------------|-------------------------|---------|--------|---|-------------|---------|---------------|-------------------|
| | | | | Instal. | Rental | | | | | |
| 1 | Chingols | Bussiness | 36000 | 0 | 0 | 0 | 0 | | | |
| 2 | | | | 0 | 0 | 0 | 13 | high | | |
| 3 | | | 1000 | 0 | 0 | 0 | 13 | fair | | |
| 4 | Farm | | 2000 | 0 | 0 | 0 | 13 | | Walking | |
| 5 | Bussiness | | 25000 | 0 | 0 | 0 | 13 | | Vehicle | |
| 6 | Bussiness | | 37000 | 0 | 0 | 0 | 13 | high | Trip | |
| 1 | Mongu | Bussiness | 500 | 300 | 300 | 0 | 0 | | Drive | |
| 2 | Residentia | | 500 | 0 | 0 | 0 | 0 | | Trip | |
| 3 | Residentia | | 50 | 0 | 0 | 0 | 0 | | Letter | |
| 4 | Residentia | | | 0 | 0 | 0 | 0 | | | |
| 5 | Police | | 180 | 0 | 0 | 0 | 13 | | | |
| 6 | Bussiness | | 120 | 0 | 0 | 0 | 0 | | Drive | |
| 7 | Residence | | 36 | 0 | 0 | 0 | 0 | | Letter | |
| 8 | Teacher | | 80 | 300 | 200 | 0 | 0 | | Trip | |
| 1 | Residentia | | 108 | 0 | 0 | 0 | 0 | fair | Walking | |
| 1 | Livingston | Bussiness | 90000 | 3000 | 500 | 0 | 1.3 | | | |
| 2 | Farm | | 30 | 720 | 200 | 0 | 5 | | Drive | |
| 3 | Farm | | | 0 | 0 | 0 | 0 | fair | Drive | |
| 4 | Bussiness | | 228 | 0 | 0 | 0 | 0 | fair | | |
| 5 | Residence | | 256 | 0 | 0 | 0 | 2.5 | fair | Letter | |
| 6 | Bussiness | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | Farm | | 100000 | 0 | 0 | 0 | 0 | high | | |
| 9 | Residence | | 118 | 0 | 0 | 0 | 0 | high | PCO | |
| 1 | NDOLA | Bussiness | 4500 | 0 | 0 | 0 | 0 | | Travel | |
| 2 | Bussiness | | 19600 | 0 | 0 | 0 | 0 | | Travel | |
| 3 | Farm | | 55 | 1000 | 0 | 0 | 0 | high | Mail | |
| 4 | Butchery | | 18000 | 0 | 0 | 0 | 0 | high | | |
| 5 | Residence | | 150 | 0 | 0 | 0 | 0 | | | |
| 6 | Bussiness | | 13000 | 0 | 0 | 0 | 0 | | | |
| 7 | Residence | | 12000 | 120 | 800 | 0 | 13 | | Drive | |
| 8 | Residence | | 35 | 0 | 0 | 0 | 13 | | Mail | |
| 9 | Bussiness | | | 0 | 0 | 0 | 13 | | | |

Table 6-1 Result of Interview Data (2/2)

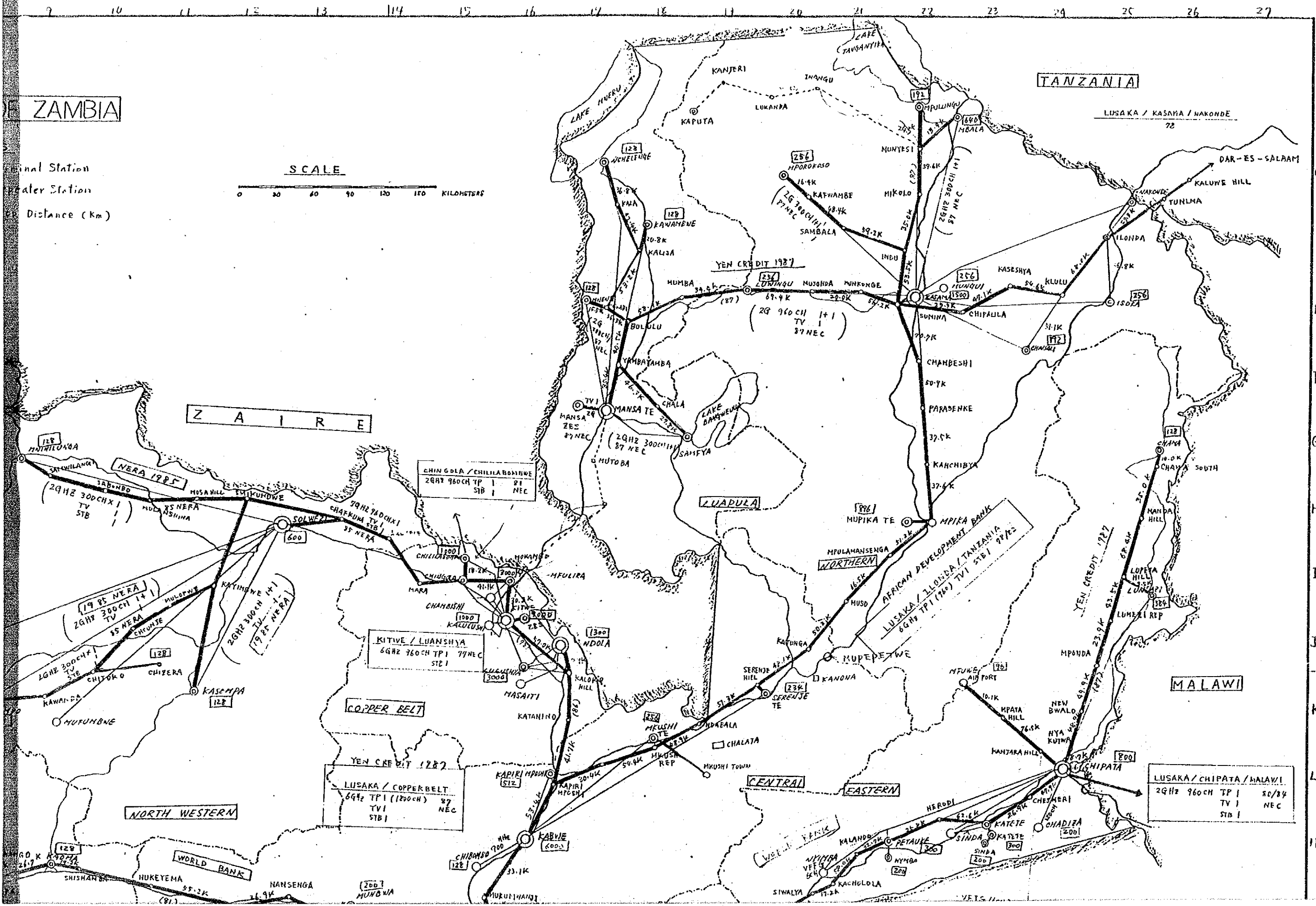
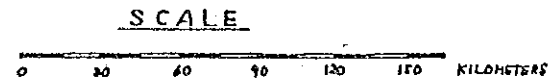
| Number | Area | Occupation | Income p. a. (1000ZK) | Premium | | | Comment | Communication | Cost p. a. (ZK) |
|--------|---------|------------|--------------------------|---------|--------|-------------|---------|---------------|--------------------|
| | | | | Instal. | Rental | Call charge | | | |
| 1 | MANSA | Bussiness | | 0 | 0 | 0 | | | |
| 2 | | Bussiness | | 2 | 0 | 0 | | Walking | |
| 3 | | Residence | 204 | 0 | 0 | 0 | | Letters | 10000 |
| 4 | | Bussiness | 80 | 500 | 1000 | 5 | | | |
| 5 | | Bussiness | 1800 | 120 | 1000 | 1.5 | high | Driving | 500000 |
| 6 | | Bussiness | 80 | 120 | 200 | 0 | | Letters | 2000 |
| 7 | | Bussiness | 25000 | 0 | 0 | 0 | | | |
| 8 | | Bussiness | 3000 | 0 | 0 | 0 | | | 400000 |
| 9 | | Residence | 339 | 1000 | 500 | 2 | | | |
| 10 | | Bussiness | 5000 | 0 | 0 | 0 | | Drive | 120000 |
| 1 | KABWE | Bussiness | 10000 | 120 | 1000 | 0 | | | 30000 |
| 2 | | Residence | 300 | 120 | 800 | 0 | | | 30000 |
| 3 | | Bussiness | | 0 | 0 | 0 | high | | |
| 4 | | Residence | 39 | 120 | 800 | 0 | | | 28000 |
| 5 | | Residence | 400 | 120 | 800 | 0 | | | |
| 6 | | Farmer | 5000 | 0 | 0 | 0 | high | | |
| 7 | | Bussiness | | 0 | 0 | 0 | | | |
| 8 | | Bussiness | | 1200 | 10000 | 0 | | | |
| 9 | | Bussiness | 80000 | 360 | 3000 | 0 | | | |
| 10 | | Bussiness | 10000 | 0 | 8000 | 0 | | | |
| 1 | SOLWEZI | Bussiness | 720 | 0 | 0 | 0 | | | |
| 2 | | Bussiness | | 0 | 0 | 0 | | | 7200 |
| 3 | | Bussiness | 13000 | 0 | 0 | 0 | | | 57600 |
| 4 | | Bussiness | 3800 | 0 | 0 | 0 | | | 57600 |
| 5 | | Bussiness | 10000 | 0 | 0 | 0 | | | |
| 6 | | Residence | 60 | 0 | 0 | 0 | | | |
| 7 | | Residence | | 0 | 0 | 0 | | | |
| 1 | KITWE | Residence | | 2500 | 1000 | 0 | | | |
| 2 | | Farmer | | 1000 | 1000 | 5 | | | |
| 3 | | Farmer | | 3000 | 1000 | 30 | | | |
| 4 | | Farmer | | 1000 | 10000 | 13 | | | |
| 5 | | Residence | | 2000 | 1000 | 5 | | Letter | 300 |
| 6 | | Residence | | 2500 | 1000 | 13 | | | |
| 7 | | Farmer | | 3000 | 1000 | 30 | | | |
| 8 | | Farmer | | 0 | 0 | 0 | | | |
| 9 | | Farmer | | 0 | 0 | 0 | | | |

DATA 7

TERRESTRIAL TRANSMISSION ROUTES

ZAMBIA

Original Station
Weather Station
Distance (km)



TANZANIA

LUSAKA / KASAMA / NAKONDE

DAR-ES-SALAAM

Z A I R E

LUADULA

MALAWI

NORTH WESTERN

COPPER BELT

CENTRAL

EASTERN

LUSAKA / CHIPATA / MALAWI
2GHZ 960CH TP 1 80/84
TV 1
STB 1
NEC

YEN CREDIT 1987
LUSAKA / COPPER BELT
6GHZ 760CH TP 1 77NEC
TV 1
STB 1

KITWE / LUANSHYA
6GHZ 760CH TP 1 77NEC
STB 1

CHIN GOLLA / CHILILA BOMBEWE
2GHZ 960CH TP 1 81
STB 1
NEC

MPULAMSENSA
WORTHERN

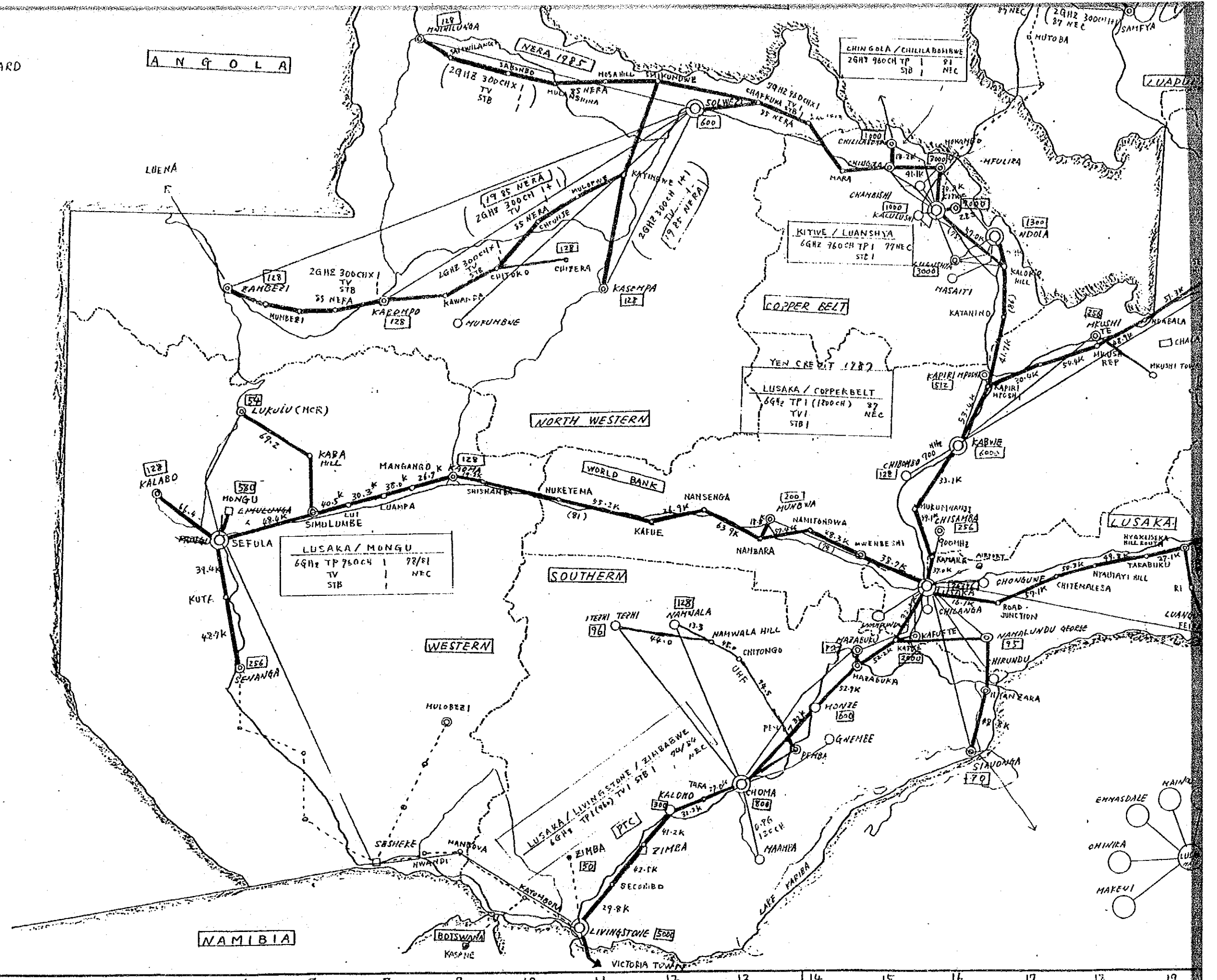
AFRICAN DEVELOPMENT BANK
LUSAKA / ILLOUBA / TANZANIA
6GHZ TP 1 (760) TV 1 STB 1 77/82

YEN CREDIT 1987

WORLD BANK
HUKEYEMA
NANSENGA
MUMBWA

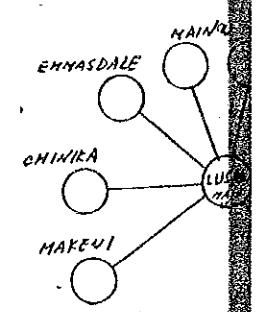
A
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○ INTS
 □ MANUAL BOARD



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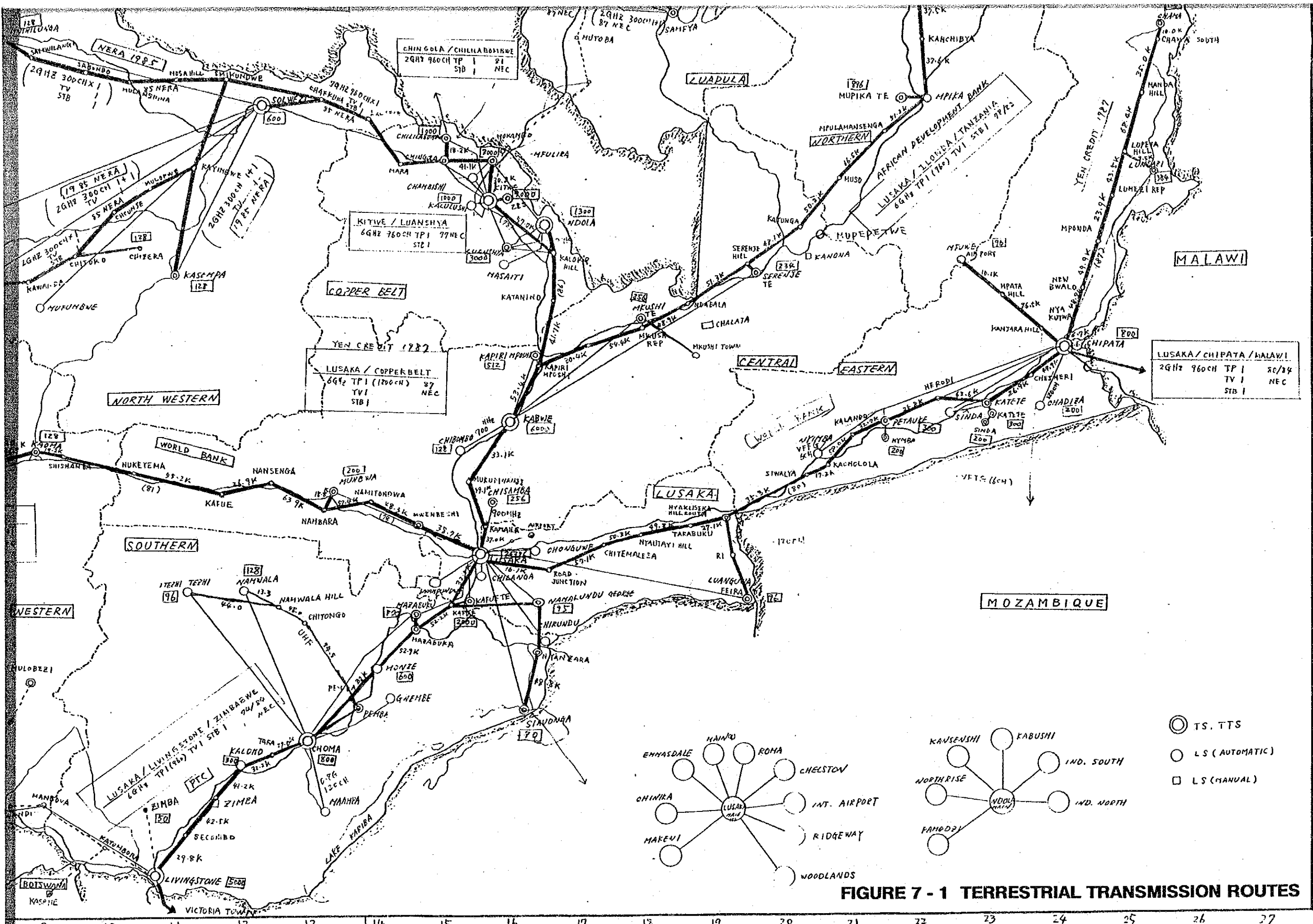


FIGURE 7 - 1 TERRESTRIAL TRANSMISSION ROUTES

JICA