SOCIO-ECONOMIC ANNEX

Table F, A.1: WATER PRODUCTION AND CONSUMPTION PROJECTIONS (Arica)

<Pre><Proyecciones de Produccion y Consumo de Agua (Arica)>

| 2 | 7, |
|---|----|
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| i | 2 |
| ξ | |
| ξ | |
| | ì |
| , | |
| | |

YEAR

AVERAGE PRODUCTION

| AR. | POPULATION | CONSUMPTION | SUB-TOTAL | FAL | CONSUMPTION ALLOWANCE TOTAL | NCE TOTAL | - | WATER LOSS | TOTAL PRODUCTION | ADUCTION |
|------|------------|-------------|------------|----------|-----------------------------|-----------|-----------|------------|------------------|----------|
| | | (1/c/d) | (m3/day) | (Naec) | (//eac) | (Jyeec) | 5 | € | (I/sec) | (m3/day) |
| | | | | | | | | | | |
| 1992 | 169212 | 220.00 | 37,226.64 | 430.90 | | 7.00 | 437.90 | 3 | 729.8 | 63057.6 |
| 193 | 07,271 | 220.66 | 37,991.03 | 439.70 | | 8.00 | 447.70 | 4 | 746.2 | 64468.8 |
| ğ | 175,129 | | 38,759.55 | 448.60 | | 9.00 | 457.60 | 3 | 7.62.7 | 65894.4 |
| 1995 | 178,067 | | 39,531.75 | 457.50 | | 10.00 | 467.50 | 4 | 779.2 | 67320.0 |
| 38 | 181,046 | | 40,309.89 | 466.50 | | 11.00 | 477.50 | 39 | 782.8 | 67632.8 |
| 1997 | 184,004 | | 41,091.77 | 475.60 | | 12.00 | 487.60 | 38 | 786.5 | 67949.4 |
| 1938 | 186,962 | | 41,877.62 | 484.70 | | 13.00 | 497.70 | 37 | 790.0 | 68256.0 |
| 86 | 189,921 | | 42,667.65 | 493.80 | | 14.00 | 507.80 | 36 | 793.4 | 68553.0 |
| 800 | | | 43,461.43 | 503.00 | | 15.00 | 518.00 | 35 | 796.9 | 68854.2 |
| 2001 | | | 44,529.85 | 515.40 | | 16:00 | 531.40 | × | 805.2 | 69565.1 |
| 2002 | | | 45,624.08 | 528.10 | | 17.00 | 545.10 | 33 | 813.6 | 70293.5 |
| 2003 | 205,589 | | 46,744.77 | 8.130 | | 18.00 | 559.00 | 32 | 827.1 | 71025.9 |
| 200 | • | | 47,892.55 | 554.30 | | 19.00 | 573.30 | 3 | 830.9 | 71787.1 |
| 2005 | • | 228.73 | 49,068.30 | 567.90 | | 20:00 | 587.90 | 8 | 839.9 | 72563.7 |
| 2006 | • | | 50,274.41 | 581.90 | | 22.00 | 603.90 | 8 | 862.7 | 74538.5 |
| 2002 | • | | 51,509.66 | 596.20 | | 24.00 | 620.20 | ጽ | 886.0 | 76550.4 |
| 2008 | • | | 52,774.96 | 610.80 | | 26.00 | 636.80 | 8 | 509.7 | 78599.3 |
| 2009 | | | \$4,070,74 | 625.80 | | 28.00 | 653.80 | 8 | 934.0 | 80697.6 |
| 2010 | | | 55,397.92 | 64120 | | | 671.20 | 8 | 938.9 | 82845.3 |
| 2011 | - ' | | 19:652'95 | 656.90 | | | 688.90 | ጸ | 984.1 | 85029.9 |
| 2012 | | | 58,154,18 | 673.10 | | | 707.10 | 8 | 10101 | 87276.3 |
| 2013 | • | | 59,582,56 | 09:689 | | | 725.60 | 8 | 1036.6 | 89559.8 |
| 2014 | • | | 61,045.45 | 706.50 | | | 744.50 | 8 | 1063.6 | 91892.6 |
| 2015 | • | 235.68 | 62,543.82 | 723.90 | | 40.00 | 763.90 | 8 | 1091.3 | 94287.1 |
| 2016 | • | | 64,080,84 | 741.70 | | | 783.70 | ନ | 1119.6 | 96731.0 |
| 2017 | | | 65,655.12 | 759.90 | | 44.00 | 803.90 | 8 | 1148.4 | 99224.2 |
| 2018 | ., | | 67,267.65 | 778.60 | | | 824.60 | 8 | 1178.0 | 101779.2 |
| 2019 | | | 68,919.16 | 07.797 | | | 845.70 | 8 | 1206.1 | 104383.5 |
| 202 | 295,157 | | 70,613.36 | 817.30 | | | 867.30 | 8 | 1239.0 | 107049.6 |
| 2021 | 301,503 | | 72,348.66 | 837.40 | | | 889.40 | ଛ | 1270.6 | 109777.4 |
| 202 | 307,985 | | 74,125.83 | 857.90 | | \$5.00 | 911.90 | 8 | 1302.7 | 112554.5 |
| 2023 | 314,607 | | 75,946.13 | 879.00 | | \$6.00 | 935.00 | 8 | 1335.7 | 115405.7 |
| 2024 | 321,371 | | 77,810.35 | 900.60 | | | 958.60 | 8 | 1369.4 | 118318.6 |
| 202 | 328,280 | | 79,722.80 | 922.70 | | | 982.70 | 8 | 1403.9 | 121293.3 |
| 2026 | 335,338 | | 81,681.63 | 945.40 | | _ | 067.40 | 8 | 1439.1 | 124341.9 |
| 202 | 37.78 | | 83,687.90 | 968.60 | | 64.00 | 032.60 | 8 | 1475.1 | 127452.3 |
| 2028 | 349,913 | | 85,742,68 | 992.40 | | | 08'90' | 8 | 1512.0 | 130636.8 |
| 2029 | 357,436 | 245.78 | 87,850.62 | 1,016.80 | | _ | 08780 | 8 | 1549.7 | 133895.3 |
| 3030 | 365,121 | 246.52 | 69:600*06 | 1,041.80 | | 70.00 | 08'''(1'' | 30 | 1586.3 | 137227.9 |

| | 71787.1 | 72563.7 | 74538.5 | 76550.4 | 78599.3 | 80697.6 | 82845.3 | 85029.9 | 87276.3 | 89559.8 | 91892.6 | 94287.1 | 96731.0 | 99224.2 | 101779.2 | 104383.5 | 107049.6 | 109777.4 | 112554.5 | 115405.7 | 118318.6 | 121293.3 | 124341.9 | 127452.3 | 130636.8 | 133895.3 | 137227.9 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|---------------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 830.9 | 839.9 | 862.7 | 0.988 | 7:606 | 934.0 | 9.88.9 | 28 | 10101 | 1036.6 | 1063.6 | 1091.3 | 1119.6 | 1148,4 | 1178.0 | 1206.1 | 1239.0 | 1270.6 | 1302.7 | 1335.7 | 1369.4 | 1403.9 | 1439.1 | 1475.1 | 1512.0 | 1549.7 | 1588.3 |
| | 31 | ଚ | ନ | ጽ | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | ଛ | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 8 | 8 |
| | 573.30 | 287.90 | 603.90 | 620.20 | 636.80 | 653.80 | 671.20 | 06.889 | 707.10 | 725.60 | 744.50 | 763.90 | 783.70 | 803.90 | 824.60 | 845.70 | 867.30 | 889.40 | 911.90 | 935.00 | 958.60 | 982.70 | 1,007.40 | 1,032.60 | 1,058.40 | 1,084.30 | 1,111,80 |
| | 00:61 | 89.88 | 27.00 | 8.8 | 26.00 | 28.00 | 30.00 | 32.00 | 97.00 | 36.00 | 38.00 | 40.00 | 42.00 | 4 .00 | 46.00 | 48 .00 | 20:00 | 25.00 | % | 3 8.00 | 38.00 | 00.09 | 62.00 | 64.00 | 99.00 | 98.00 | 00:02 |
| | 334.30 | 567.90 | 581.90 | 596.20 | 610.90 | 625.80 | 641.20 | 656.90 | 673.10 | 089.60 | 706.50 | 723.90 | 741.70 | 759.90 | 778.60 | 07.767 | 817.30 | 837.40 | 857.90 | 879.00 | 900:60 | 922.70 | 945.40 | 968.60 | 992.40 | 1,016.80 | 1,041.80 |
| 1 | 47,892.33 | 49,068.30 | 50,274.41 | 51,509.66 | 52,774.96 | 54,070,74 | \$5,397.92 | \$6,759.61 | 58,154.18 | 59,582,56 | 61,045.45 | 62,543.82 | 64,080,84 | 65,655.12 | 67,267.65 | 68,919.16 | 70,613.36 | 72,348.66 | 74,125.83 | 75,946.13 | 77,810.35 | 79,722.80 | 81,681.63 | 83,687.90 | 85,742.68 | 87,850.62 | 59.600,06 |
| | 228.05 | 228.73 | 229.42 | 230.11 | 230.80 | 231.49 | 232.18 | 232.88 | 233.58 | 234.28 | 234.98 | 235.68 | 236.39 | 237.10 | 237.81 | 238.52 | 239.24 | 239.96 | 240.68 | 241.40 | 242.12 | 242.85 | 243.58 | 244.31 | 245.04 | 245.78 | 246.52 |
| | 210,009 | 214,525 | 219,137 | 223,848 | 228,661 | 233,577 | 238,599 | 243,729 | 248,969 | 254,322 | 259,790 | 265,376 | 271,061 | 276,909 | 282,863 | 288,945 | 295,157 | 301,503 | 307,985 | 314,607 | 321,371 | 328,280 | 335,338 | 342,548 | 349,913 | 357,436 | 365,121 |

Table F, A.1 : WATER PRODUCTION AND CONSUMPTION PROJECTIONS (Arica)

<Pre><Proyecciones de Produccion y Consumo de Agua (Arica)>

Table A-1: WATER PRODUCTION AND CONSUMPTION PROJECTIONS (ARICA) <Pro>Proyecciones de Produccion y Consumo de Agua> <Arica>

| TY ADDITIONAL
H WATER CAPACITY | |
|---|--|
| WATER CAPACITY WATER CAPACITY ADDITIONA SITUATION WITH WATER CAI PROJECT PROJECT | |
| WATER CAPACITY WATER CAPACITY ADDITIONAL WATER CAPACITY WATER CAPACITY SITUATION WITHOUT SITUATION WITH PROJECT PROJECT PROJECT PROJECT | |
| ADDITIONAL
WATER CAPACITY | |
| Y WATER CAPACITY ADDITIONA
OUT SITUATION WITH WATER CAP
PROJECT | |
| WATER CAPACITY SITUATION WITHOUT: | |

| (m3/year) | | | 8.6 | | 000 | 000 | 000 | 000 | 6438.39 | 6638.99 | 6639.59 | 6740.19 | 6840.79 | 6841.39 | 20,130 | 2041.98 | 7041.99 | 7041.99 | 7041.98 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 2041.90 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 7041.99 | 2041.90 | 7041.90 | 7041 90 | 7041.99 |
|----------------|---|----------|--------------------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| (m3/year) | | 8 | 9500.22
9500.22 | 29.650 | 9279.06 | 9618.48 | 9776.16 | 9933.84 | 16259.91 | 16788.19 | 17046.47 | 17304.75 | 17563.03 | 17821.31 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 | 18079.59 |
| (m3/year) | | 56 (5)80 | 9500.22 | 9539.64 | 9579.06 | 9618.48 | 9776.16 | 9933.84 | 10091.52 | 10249.20 | 10406.88 | 10564.56 | 10722.24 | 10879.92 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 | 11037.60 |
| (3 98C) | | 200 | 89 | 0000 | 000 | 000 | 000 | 0.00 | 204.16 | 207.35 | 210.54 | 213.73 | 216.92 | 220.11 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 | 223.30 |
| (/sec) | • | 30000 | 301.25 | 302.50 | 303.75 | 305.00 | 310.00 | 315.00 | 524.16 | 532.35 | \$40.54 | 548.73 | 556,92 | 565.11 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | \$73.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 |
| (J/koc) | | 300.00 | 301.25 | 302.50 | 303.75 | 305.00 | 310.00 | 315.00 | 320.00 | 325.00 | 330.00 | 335.00 | 340.00 | 345.00 | 320.00 | 320.00 | 320:00 | 320:00 | 320:00 | 350.00 | 320:00 | 320.00 | 320.00 | 350.00 | 350.00 | 350.00 | 320.00 | 320.00 | 320.00 | 320'00 | 330.00 | 320.00 | 320,00 | 320.00 | 320.00 | 350.00 | 320:00 | 350.00 | 350.00 | 350.00 |
| | | 1992 | 1993 | 198 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 1 | 2002 | 90 | 2002 | 9008 | SE : | 0102 | 110 | 012 | 013 | 014 | 015 | 910 | 017 | 2018 | 610 | 600 | 17. | 77.00 | | 1 | 9 3 | S | LZI. | 873 | 620 | 030 |

Table F, A.2: Calculation of Periodic Cost Arica)

<Calculo de Costo Periodico (Arica)

(Unit: Thousand Pesos)

| Year | Personnel | | Maintenance | Total Periodic Cost |
|------|-----------|--------|-------------|---------------------|
| . 1 | 1999 | 56,000 | | 469,413 |
| | 2000 | 56,000 | 413,413 | 469,413 |
| | 2001 | 56,000 | 413,413 | 469,413 |
| | 2002 | 56,000 | 413,413 | 469,413 |
| | 2003 | 56,000 | 413,413 | 469,413 |
| | 2004 | 56,000 | 413,413 | 469,413 |
| | 2005 | 56,000 | 413,413 | 469,413 |
| | 2006 | 56,000 | 413,413 | 469,413 |
| | 2007 | 56,000 | 413,413 | 469,413 |
| | 2008 | 56,000 | 413,413 | 469,413 |
| | 2009 | 56,000 | 413,413 | 469,413 |
| | 2010 | 56,000 | 413,413 | 469,413 |
| | 2011 | 56,000 | 413,413 | 469,413 |
| | 2012 | 56,000 | 413,413 | 469,413 |
| | 2013 | 56,000 | 413,413 | 469,413 |
| | 2014 | 56,000 | 413,413 | 469,413 |
| | 2015 | 56,000 | 413,413 | 469,413 |
| | 2016 | 56,000 | 413,413 | 469,413 |
| | 2017 | 56,000 | 413,413 | 469,413 |
| | 2018 | 56,000 | 413,413 | 469,413 |
| | 2019 | 56,000 | 413,413 | 469,413 |
| | 2020 | 56,000 | 413,413 | 469,413 |
| | 2021 | 56,000 | 413,413 | 469,413 |
| • | 2022 | 56,000 | 413,413 | 469,413 |
| | 2023 | 56,000 | 413,413 | 469,413 |
| | 2024 | 56,000 | 413,413 | 469,413 |
| | 2025 | 56,000 | 413,413 | 469,413 |
| | 2026 | 56,000 | 413,413 | 469,413 |
| | 2027 | 56,000 | 413,413 | 469,413 |
| | 2028 | 56,000 | 413,413 | 469,413 |

Table F. A.3 : Cakulation of Social Incremental Investment (Arica)
< Cakulo de la Invertion Social Incremental (Arica)
(Unit: Thousand Pesos)

| | 107.00 | With Designs Connection | | With my | 1 | ٠ | | | | | | |
|--------------------|----------------|-------------------------|--------------|---------------|--------------|-------------|---------------|------------|-----------|--------------------|------------------|-------------|
| | | Investment | | investment | Tress | | Investment | | | | ٠ | |
| Year | 9661 | 1997 | 1,99 | 1661 | 8%6 | 966 | 1997 | 1988 | | | | |
| Design | 750,813 | | ٥ | 0 | 0 | 750,813 | | | | | | |
| Latake Works | 0 | 2,405,864 | 2,405,864 | 75.202 | 346,060 | 0 | 2,330,663 | 2,059,803 | | | | |
| Transmission | • | 378,851 | 378.851 | 14,242 | 0 | œ. | 364,609 | 378,251 | | | | |
| Treatment | 0 | 1,369,383 | 15,617,831 | ٥ | 0 | ٥ | 1,369,383 | 15,617,831 | ٠ | | | |
| Distribution | | 1,156,232 | 1,156,232 | 152,519 | 0 | | 1,003,713 | 1,156,232 | | | | |
| Electric Works | 0 . | ٥ | 158,000 | | 0 | 0 | | 158,000 | | | | |
| | | | | 4 | | | | | | | | |
| | | Component | heni | Tabour | 9 | Import | | | | | - | |
| Year | Net Investment | Domestic | Foreign | Non-skilled | Semi-skilled | Day | | | | | | |
| 1.996 Design | 750.813 | 675,732 | 75.081 | 37.541 | 112,622 | 8.259 | ٠ | ** | | | | |
| - | | | | | | | | | | | ٠., | |
| 1000 t | 120,641 | . 70 , 03 , | | 973 99 | 100 | | | | | | | |
| 1,997 ARRICE PURIL | | C8,49C,1 | 719.617 | 0000 | /AC 700 | 67079 | | | | | | |
| ICARSTOR | 304,000 | 20,990 | 77,613 | 0 87 % | 30,316 | 14,037 | | | | | - | |
| Treatment | 1.369,383 | \$47,753 | 821,630 | 867'6+ | 34,235 | 90.379 | | | | | | |
| Distribution | 1,003,713 | 652,413 | 351,299 | 26,097 | 138,512 | 38,643 | | | | | | |
| Electric Works | | 0 | 0 | 0 | 0 | o | - | | | | | |
| | | | | | | | | | | | ٠ | |
| | | | | | : | | | | | | | |
| 1,998 Istake Works | 2,059,803 | 1,400,666 | 659,137 | 78,273 | 53.555 | 72,505 | | | | | | |
| Терметиканов | 378,851 | 246,253 | 132,598 | 9.850 | 52,281 | 14,586 | | | | | | |
| Treatment | 15.617.831 | 6,247,132 | 9,370,699 | 562.242 | 390,446 | 1,030,777 | | | | | | |
| Distribution | 1.156,232 | 751.551 | 104,681 | 30,062 | 159,560 | 44,515 | | | | | | |
| Electric Works | 158.000 | 63,200 | 24,800 | 2'800 | 23.700 | 10,428 | | | | | | |
| | | ٠. | | | | | | | | | | |
| : | | | | | | | | | | | | |
| Investment | nent Domestic | Non-skilled | Semi-skilled | Import | Others | Foreign | Foreign | Labour | Import | Social Incremental | Administration. | Physical |
| | Component | Labor | Labor | Doty | | Component | Exchange Adj. | Adjustment | Dury | Investment | Engineering Cost | Contingency |
| 1,996 750,813 | 813 675,732 | 37,541 | 112,622 | 8,259 | 517,310 | 75,081 | 4,505 | 106,991 | 8,259 | 840,068 | 16.002 | 32.003 |
| 1,997 5,068,368 | | 173,439 | 283,660 | 225,099 | 2,339,814 | 2,046,355 | 122.781 | 321,542 | 225.099 | 4.644.508 | 116.113 | 232 225 |
| 11,076,91 899,1 | | 688.327 | 679,542 | 1,172,813 | 6,168,123 | \$16,199,01 | 639,715 | 950,361 | 1.172.811 | 17,887.260 | 447,181 | 894,363 |

Compensation Total Social Incr Works Investment 0 688,073 232,225 5.225,071 894,363 20,123,167

Table F, A.4: Calculation of Variable Cost (Arica) < Calculo de Costo Variable (Arica)>

| Year | | Electric Cost | Chemical Cost | Total Cost | Incremental Consumptio | Incremental Consumption Incremental Consumption |
|------|------|------------------|------------------|------------------|------------------------|---|
| | | (Thousand Pesos) | (Thousand Pesos) | (Thousand Pesos) | (I/sec) | (Thousand M3) |
| | 198 | 535,173 | 183,609 | 718,782 | 204 | 6.433 |
| | 2000 | 541,601 | 185,424 | 727,025 | 207 | 6.528 |
| | 2001 | 556,912 | 190,993 | 747,905 | 211 | 6,654 |
| | 2002 | 572,398 | 196,250 | 768,648 | 214 | 6,749 |
| | 2003 | 587,884 | 199,629 | 787,513 | 217 | 6.843 |
| | 2004 | 587,884 | 199,629 | 787,513 | | 6.938 |
| | 2005 | 587,884 | 199,629 | 787,513 | | 7,033 |
| | 2006 | 587,884 | 199,629 | 787,513 | 223 | 7.033 |
| | 2007 | 587,884 | 199,629 | 787,513 | 223 | 7.033 |
| | 2008 | 587,884 | 199,629 | 787,513 | 223 | 7.033 |
| | 2009 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2010 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2011 | 587,884 | 199,629 | 787,513 | 223 | 7.033 |
| | 2012 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2013 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2014 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2015 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| - | 2016 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2017 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2018 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2019 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2020 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2021 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2022 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2023 | 587,884 | 199,629 | 787,513 | 223 | 7.033 |
| | 2024 | 587,884 | 199,629 | 787,513 | 223 | 7.033 |
| | 2025 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| - | 2026 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | 2027 | 587,884 | 199,629 | 787,513 | 223 | 7.033 |
| | 802 | 587,884 | 199,629 | 787,513 | 223 | 7,033 |
| | | | VPV | 6,193,793 | | 55,106 |

Unitary Marginal Cost of Electric Energy and Chemical: \$112

Table F, A.5 SIMOP Results (Arica)
<Resultados del SIMOP (Arica)>

| | NORMA DE DISTR.NO. | SIN NVOS CON NVOS | *********************** | |
|--------------------------------------|--------------------|-------------------|--|--|
| | | NOO NOO | 16531.
16790.
17045.
17304.
17564.
17723.
18070.
18070.
18070.
18070.
18070.
18070.
18070.
18070.
18070.
18070. | 18070.
18070.
18070.
18070.
18070.
18070. |
| | OFERTA TOTAL | SIN | 10092.
10249.
10249.
10565.
10722.
11038.
11038.
11038.
11038.
11038.
11038.
11038. | 11038.
11038.
11038.
11038.
11038.
11038. |
| OFERTA Y DEMANDA DE AGUA PROYECTADAS | | TOTAL | 12607.
13337.
14117.
14816.
16790.
17804.
1888.
20045.
226045.
226045.
226045.
226045.
226045.
226045.
226045.
226046.
236046.
33666.
34770. | 41995.
44644.
47685.
50829.
54193.
61640.
61577.
74876. |
| DEMANDA DE AG | | ın j | | 0000000000 |
| OFERTA Y | s | 4 | 2817.
3021.
3021.
3724.
3724.
3724.
3923.
4282.
4591.
6501.
6561.
6561.
6968.
7470.
8007.
9159. | 11325.
1137.
13938.
14936.
16005.
17149.
18375. |
| | NSUMO POR GRUPOS | m | 5016.
5391.
5795.
6731.
6700.
7205.
7749.
8965.
8965.
9644.
10374.
11159.
12913.
12913.
12913.
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| | | -d | 3640.
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| | | ONT | 222
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| 1 (GRUPO EXISTENTE ANTERIORMENTE) | 8 | TOINT | 160243 | 202540 | 250546 | 304902 | 366319 | 102367 | 432281 | 513558 | 581508. | 642862 | 710862 | 786238 | 869901. | 962451. | 1065185. | 1179114. | 1305472 | 1445627. | 1601100 | 1773582 | 1964947 | 2177286. | 2412906 | 2674388 | 2964593 | 3286689 | 3644209 | 4041072 | 4481641 | 4970746 | 5513768 |
| ANTERI | S BRUT | CURSOS | . • | ö | ୍ଦ | ď | ď | ; , | . | . | • | ٠.
د | ċ | 0 | ٠. | ó | . | . | • | • | o | 6 | 0 | | • | ö | 0 | 0 | | ó | • | 0 | • |
| al N | NOPIECO | DE RE | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | | | |
| O EXTS | 90 BCO | ABORRO | 43. | 9 | 46. | 20 | ğ | | 91. | 58 | | | . 29 | 38. | | 21 | | 114. | .27 | .27. | 001 | .85 | . 47. | .98 | 906 | . 88 | 593. | . 689 | - 602 | .270 | 541. | . 97/ | . 89. |
| (CRU | RENEFICIOS ECONOMICOS BRUIOS | NETO | 160243 | 202540 | 250546 | 304902 | 511996 | 9 | 435581 | 513558. | 581508. | 642862 | 710862 | 786238. | 869801. | 962451 | 1065185 | 1179114 | 1305472 | 1445627 | 1601100 | 1773582 | 1964947 | 2177286 | 2412906. | 2674388 | 2964593 | 3286689 | 3644209 | 4041072 | 4481641 | 4970746 | 5513768 |
| | | CONSUMO NETO ARORRO DE RECURSOS | ý | 80 | v. | , | | į | 9 | ę | | 7 | ζ, | . 6 | ë. | • | | 4 | e
e | ٠ <u>.</u> | | | 6. | e e | | | | .886 | .956 | 926. | .988 | 867. | 839. |
| DORES | | | 726. | 868 | 1015. | 1167 | | 1364 | 1486. | 1653. | 1670. | 1622. | 1575. | 1529 | 1483 | 1439 | 1396 | 1354 | 1313. | 1273 | 1234 | 1196 | 1159 | 1123. | 1088 | 1053. | 1020. | 86 | 9 | 92 | 88 | 98 | 89 |
| ONISUM | · '. | METO | 2913. | 2880. | 2846 | 0.00 | | 27/3. | 2736. | 2697. | 2620. | 2545. | 2473. | 2399. | 2328. | 2259. | 2192. | 2126. | 2061. | 1998. | 1937. | 1877. | 1819. | 1762. | 1707. | 1653. | 1601. | 1550. | 1501. | 1453. | 1407. | 1361. | 1317. |
| 8
E | | SIN | 28 | 28 | | , , | 4 6 | Ŕ | 2 | 56 | 36 | 25 | 24 | 7 | 5 | 77 | .2 | 23 | × | 77 | . A | Ä | Ä | ä | – | Ä | Ä | . H | H | | ਜ | H | H |
| EL GRUI | | | 3640 | 374B | 0.00 | 1 6 | ,,, | 4097 | 1222. | 4351. | 4290 | 4167. | 4046. | 3927. | 3812. | 3699 | 3588. | 3480. | 3374. | 3271. | 3171. | 3073. | 2978. | 2885. | 2795. | 2707. | 2621- | 2538. | 2457. | 2379. | 2303. | 2229. | 2157. |
| PARA | CONTENIO | 8 | 7 | , iv | י י | י נ | . | ₹ . | , T | 4 | | 4 | 4 | m | m | m | m | m | m | m | , CO | m | .~ | 71 | 21 | 7 | 7 | 7 | 7 | 7 | 8 | 71 | ~ |
| FICIOS | | | | 07.00 | | 1880. | 3977. | 4097. | 1222 | 4351. | 4484. | 4622. | 4765. | 4913. | 2066. | 5224. | 5388. | 5557. | 5733. | 5914. | 6102. | 6296. | 6497. | 6705. | 6921. | 7143. | 7374. | 7613. | 7859. | 8115. | 8379. | 8653. | 8936. |
| E BENE | | PROY. | | : | , , | , | , | • | • | • | • | • | Ĭ. | • | | •, | | | | . • | • | | | | · | • | | | • | _ | | | - |
| RESUMEN DE BENEFICIOS PARA EL GRUPO DE CONSUMIDORES NO. | | | ; | ; | : : | 2 | .23 | 7 | 38 | .57 | .35 | .80 | .33 | 42. | -23 | 27. | .25 | 5 | .27 | 89 | . 97 | 58 | .56 | .52 | .85 | 92 | 89 | 57 | 00 | 86* | . 57 | .32 | *** |
| 22 | | SIN | | 200.7 | | | | 4 403.13 | 7 445.38 | 0 492.57 | 5 560.35 | 6 637.80 | 7 726.33 | 9 827.54 | 5 943.29 | 6 1075.72 | 8 1227.25 | 0 1400.70 | 5 1599.27 | 8 1826.68 | 808.82 2087.16 | 924.46 2385.58 | F 2727 | 8 3119 | 0 3568 | 5 4084.05 | 2 4674.89 | 3 5352.57 | 0 6130 | 7 7023 | 2 8045.57 | 7 9220 | 1 *** |
| | | PROY | | 77.8/1 | C7*181 | 184.28 | 187.31 | 190.34 | 193.37 | 196.40 | 217.15 | 247.16 | 281.47 | 320.69 | 365.55 | 416.86 | 475.58 | 542.80 | 619.75 | 707.88 | 808.8 | 924.4 | 1056.98 2727.56 | 1208.8 | 1383.00 3568.85 | 1582.65 | 1811.62 | 2074.2 | 2375.50 6130.00 | 2721.1 | 3117.82 | 3573.0 | 4095.6 |
| | PRECIO | SON. | - 1 | 178.22 | 181.25 | 184.28 | 187.31 | 190.34 | 193.37 | 196.40 | 199.43 | 202.46 | 205.49 | 208.52 | 211.55 | 214.58 | 217.62 | 220.65 | 223.68 | 226.71 | 229.74 | 232.77 | 235.80 | 238.83 1208.88 3119.52 | 241.86 | 244.89 | 247.92 | | 253.98 | 257.01 2721.17 7021.98 | 260.04 | 263.07 3573.07 9220.32 | 266.10 4095.61 ****** |
| | A | 8 | | | | | | | | | | | | | . , | | | | | | | | - | | 1. | | | | | | | | |
| | | Š | | | | | COEFE LAN | DEFIN | DADEPTATIDO | DEFIN | DEPTH. | DEFIN | DEFIN | DADEFINIDO | NI JEGO | DEPLIN | DEFIN | DEPTH | INDEPTINIDO | DEFIN | | NI AGO | NI JO | DEFIN | NI ZIO | CONTRACT | NI AND | NI diaco | NI | DEPTRITO | NITE | NI ZZAO | NOET-TO |
| | | FLAST | | 52 DAMESTRATIO | 52 INDEPTATIO | 52 INDEFINIDO | 52 INDEFINIDO | .52 INDEFINIDO | 52 D | 52 INDEFINIDO | 52 INDEPTATIO | 52 INDEFINIDO | 52 INDEFINIDO | .52 | 52 INDEPTINIDO | 52 INDEPINIDO | 52 INDEPENDO | 52 INDEPINIDO | 52 | 52 INDEFINIDO | 52 DEFINIDO | 52 INDEFINIDO | 52 INDEFINIDO | 52 INDEPINIDO | 52 INDEZINIDO | 52 INDEPTINIDO | 52 INDEFINIDO | OCTATIONED 1 | SZ INDEZINIDO | 52 H | S2 INDEZINIDO | 52 INDEPTINIDO | 52 INDEFINIDO |
| | | Sec. | ₹ . | - | de
Ge | an, | 10 | - 11 | 7 | 13 | · | · | | · | 18 | | | · | • | . • | | | | | | ٠, | | | · | • | • | 335 | 96 |
| | | ^ | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table F, A.5 SIMOP Results (Arica) <Resultados del SIMOP (Arica)>

RESUMEN DE BENIEFICIOS PARA EL GRUPO DE CONSUMIDORES NO. 2 (GRUPO EXISTENTE ANTERIORMENTE) CONSUMO NETO ABORRO DE RECURSOS TOTAL RENEFICIOS ECONOMICOS BRUTOS 2226. 2273. METO 908. 9905. 9905. 9905. 9887. 9887. 9887. 9887. 9897. 9897. 9897. 9897. 9897. 9897. 9897. 9897. SIN 11134. 11177. 11177. 112622. 11318. 11318. 11318. 11318. 11318. 11107. CONSUMO **X**00 1134. 11262. 11262. 1318. 1310. 1310. 11473. 11597. PROY. SIN PROY

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NO ELAST.

Table F, A.5 SIMOP Results (Arica) <Resultados del SIMOP (Arica)>

| | | | - " | | | | ٠. | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---------------------|--------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TERIORMENTE) | BRUTOS | RECURSOS TOTAL | 258382 | 350733. | 466051. | 609286. | 786344. | 1004256. | 1271368. | 1567222. | 1871126. | 2207238. | 2578222. | 2986933. | 3436437. | 3930020 | 4471211. | 5063799. | 5711851. | 6419735. | 7192151. | 8034139. | 8951129. | 9948943. | 11033860. | 12212620. | 13492470. | 14881210. | 16387220. | 18019550. | 19787900- | 21702/30 |
| STERTE | CONOMICOS | E . | d | ċ | ó | o | • | ö | 0 | o e | | o | ċ | • | • | 0 | • | • | • | • | • | | o · | o . | 0 | ° | o | o. | ၀ | o | o (| . |
| NO. 3 (GRUPO EXISTINATE ANTERIORMENTE | BENEFICIOS ECONOMICOS | CONSUMO NETO ABORRO | 258382 | 350733 | 466051. | 609286. | 786344. | 1004256. | 1271368. | 1567222. | 1871126. | 2207238. | 2578222. | 2986933. | 3436437. | 3930020. | 4471211. | 5063799. | 5711851. | 6419735. | 7192151. | 8034139. | 8951129. | 9948943. | 11033860. | 12212620. | 13492470. | 14881210. | 16387220. | 18019550. | 19787900. | 21702730. |
| SUMIDORES | | NETO | 1001 | 1248. | 1523. | 1828. | 2165 | 2536 | 2945. | 3103. | 3145 | 3187. | 3228 | 3268. | 3308. | 3347. | 3385. | 3423 | 3460 | 3497. | 3533 | 3568. | 3602 | 3636 | 3669 | 3702 | 3734. | 3765. | 3795. | 3825 | 3855 | 3883 |
| RUPO DE CON | | NIS | 4015 | 4143. | 4272. | 4403. | 4535. | 4669. | 4804. | 4871. | 4937 | 5005 | 5066. | 5129. | 5191. | 5253. | 5313. | 5372. | 5431. | 5488. | 5544. | 2600. | 5654 | 5707. | 5759. | 5810. | 5860. | 2808 | 5957. | 6004 | 6050 | 60%5 |
| IOS PARA EL G | CONSUMO | NO. | 5016 | 5391. | 5795. | 6231. | 6700 | 7205. | 7749. | 7974. | 8082 | 8188. | 8293. | 8397. | 8499. | 8599. | 8698 | 8796. | 8891 | 8982. | 9077. | 9167. | 9256 | 9343. | 9428. | 9512. | 9594. | 9674. | 9752. | 9829 | 9905 | 9978 |
| RESUMEN DE BENEFICIOS PARA EL CRUPO DE CONSUMIDORES NO | | PROY. | 5016 | 5391. | 5795. | 6231. | 6700 | 7205. | 7749. | 8335. | 8965. | 9644. | 10374 | 11159. | 12004. | 12913. | 13891. | 14942. | 16073. | 17288. | 18595. | 20001. | 21511. | 23135. | 24880. | 26756. | 28772. | 30939. | 33267. | 35769. | 38458 | 41346 |
| RESUM | | SDX | 220 14 | 380.71 | 427.67 | 479.38 | 536.22 | 598.61 | 66.939 | 752.96 | 846.19 | 947.24 | 1056.67 | 1175.11 | 1303.20 | 1441.67 | 1591.27 | 1752.81 | 1927.17 | 2115.29 | 2318.18 | 2536.91 | 2772.65 | 3026.65 | 3300.23 | 3594.84 | 3912.02 | 4253.43 | 1620.84 | 5016.17 | 5441.46 | 5898.92 |
| | 10 | PROY | 170 22 | | 184.28 | | | | | 257.08 | | | | | | | | 7 | 2 | 1556.55 | 1753.71 | 1966.82 | 1197.05 | 445.63 | 713.91 | 3003.33 | 3315.42 | 9651.84 | 1014.37 | 4404.91 | 1825.53 | 278 4 |
| | PRECIO | 20 | 170 22 | 181 25 | 184.28 | 187.31 | 190.34 | 193.37 | 196.40 | 199.43 | 202.46 | 205.49 | 208.52 | 211.55 | | | | | | | 232.77 | 235.80 | 238.83 | 241.86 | 244.89 | 247.92 | 250.95 | 253.98 | 257.01 4 | 260.04 4 | 263.07 | 266.10 |
| | | XAX | 77 070 | | 1110.30 | | | | | | | | | | | | | | | | | 3431.68 | | | 4220.46 | | | | | 5975.53 | | |
| | | HAST. | | 22.1 | 2001 | 19 1 | 18 1 | 17 | 16 1 | 20 1 | 27 1 | -,33 1 | 41 | - 49 3 | | | 9 | | | | | -1.34 34 | | | | -1.98 4 | -2.16 48 | -2.36 5 | -2.58 5 | -2.80 55 | -3.05 6 | -2.2.6 |
| | | 0 | r | - α | 0 0 | . 0 | | i | <u>س</u> | 4 | 'n | v | _ | <u>~</u> | • | 0 | ė. | | | | | | | | | | | - | | | - ' | |

Table F, A.5 SIMOP Results (Arica) Resultados del SIMOP (Arica)>

| _ | | | |
|--|-------------------|------------------------|---|
| ERIORMENTE) | RUTOS | SOS TOTAL | 133595.
174800.
222206.
278579.
342523.
415484.
498254.
6710752.
721503.
721503.
971092.
971092.
1051322.
1051322.
1175133.
1175133.
127565.
1275635. |
| (GRUPO EXISTENTE ANTERIORMENTE | ECONOMICOS ERUTOS | RO DE RECURSOS | 000000000000000000000000000000000000000 |
| 4 | BENEFICIOS E | CONSUMO NETO ABORRO DE | 133595.
174800.
222206.
222206.
342523.
415484.
498254.
671073.
671073.
721503.
721503.
721503.
901092.
971298.
971298.
971298.
116478.
116478.
1175133.
11228160.
1252635.
1252635.
125765. |
| SUMIDORES, IK | ٠. | NETO CC | 562.
851.
1019.
1406.
1406.
1627.
1727.
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1786.
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1873.
1873.
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1873. |
| RUPO DE CON | | SIN | 2255. 2388. 2388. 2388. 2388. 2521. 2521. 2521. 2521. 2633. 2640. 2940. 2958. 2958. 2958. 2958. 2958. 2958. 2958. 2958. 2958. 2958. 2958. 2967. |
| S PARA EL G | CONSUMO | NOO | 2817.
3021.
3474.
3474.
3474.
3472.
44332.
4522.
4663.
4663.
4677.
4677.
4677.
4873.
4873.
4873.
4873.
4873.
5004.
5004. |
| RESUMEN DE BENEFICIOS PARA EL GRUPO DE CONSUMIDORES, NO. | | PROY. | 2817.
3021.
3474.
3474.
3474.
3923.
4282.
4591.
4591.
6561.
6561.
6561.
10367.
11325.
12137.
12137.
12137.
12137.
12137.
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12137.
12137.
12137. |
| RESUM | | SIN | 297.12
318.54
339.32
378.47
378.47
378.47
378.47
475.99
475.99
475.99
671.46
671.45
661.57
661.57
661.57
661.57
661.57 |
| | ឧ | PROY | 1181.22
181.22
184.228
184.238
187.331
1990.34
1990.334
1990.33
370.82
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3 |
| | PRECIO | COM. | 178
181.22
181.22
184.28
199.33
199.33
199.43
200.46
200.46
200.46
200.46
200.48
200.48
200.98
200.98
200.98
200.98
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200.98 |
| | | MAX | 774.18
774.18
774.18
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774.18
774.18
774.18 |
| | | ELAST. | |
| | | ₽ | |

BENEFICIOS Y COSTOS TOTALES

| BENEFICIOS | NETOS | | 0 | 0 | 0 | -688073 | -5225071 | -20123168 | -143677 | -15974 | 144222 | 343040 | 587661 | 886499 | 1249406 | 1679344 | 2121779 | 2600642 | 3119336 | 3681545 | 4291260 | 4952797 | 5670835 | 6450438 | 7297090 | 8216733 | 9215812 | 10301297 | 11480766 | 12762412 | 14155152 | 15668648 | 17313386 | 19100744 | 21043100 | 23153912 | 25447772 | 27940584 | |
|-----------------------------|------------|---|---|------------|---|---------|----------|-----------|---------|--------|---------|---------|---------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| | TOTAL | | 0 | 0 | 0 | 688073 | 5225071 | 20123168 | 751569 | 815730 | 885433 | 961059 | 1043017 | 1131744 | 1227709 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257504 | 1257503 | 1257504 | |
| | SUMINISTRO | | 0 | Ö | 0 | 0 | ٥ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | • | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ö | 0 | 0 | o | 0 | 0 | |
| COS BRUTOS | | | _ | .: | | | | _ | | | | | | | : | _ | | 25 | | | | | | | ٠ | | | | | | | | | | | | | | |
| ECONOMICOS BRUTOS VARIABLES | PRODUCCION | | | 0 | 0 | 0 | | 0 | 281708 | 345869 | 415572 | 491198 | 573156 | 661883 | 757848 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787643 | 787642 | 787643 | |
| COSTOS ECON | 800 | | 0 | о . | 0 | 688073 | 5225071 | 20123168 | 0 | • | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0, | |
| CC
PERTODICOS | PE | | 0 | 0 | 0 | | | | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | 469861 | |
| | TOTAL | | 0 | 0 | 0 | 0 | 0 | | 607891 | 799755 | 1029655 | 1304099 | 1630678 | 2018244 | 2477115 | 2936848 | 3379283 | 3858146 | 4376841 | 4939050 | 5548764 | 6210301 | 6928339 | 7707942 | 8554594 | 9474237 | 10473316 | 11558801 | 12738270 | 14019916 | 15412656 | 16926152 | 18570890 | 20358248 | 22300604 | 24411416 | 26705276 | 29198088 | |
| | | | 0 | 0 | ٥ | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | 0 | 0 | 0 | Ö | 0 | 0 | ¢. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | 0 | 0 | O | 0 | |
| 901 | Ν. | | 0 | 0 | 0 | 0 | | 0 | 'n | • | ın | æ | ~ | ~ | . | | ~ | - | ~ | | _ | _ | ~ | | | | | | . ~ | _ | • | | | | | | | _ | |
| OMICOS BRUTOS | 4 | | _ | | | _ | | _ | 133595 | 174799 | 222905 | 278578 | 342522 | 415483 | 498253 | 566277 | 620013 | 671751 | 721503 | 76928 | 815123 | 859047 | 901092 | 941297 | 902626 | 1016365 | 1051321 | 1084624 | 1116326 | 1146478 | 1175132 | 1202343 | 1228160 | 1252635 | 1275820 | 1297766 | 1318522 | 1338137 | |
| RENEFICIOS ECONOM | m : | - | 0 | 0 | 0 | 0 | ٥ | 0 | 258382 | 350733 | 466050 | 609285 | 786344 | 1004256 | 1271367 | 1567221 | 1871126 | 2207238 | 2578221 | 2986932 | 3436436 | 3930019 | 4471211 | 5063798 | 5711850 | 6419735 | 7192151 | 8034138 | 8951129 | 9948943 | 11033859 | 12212615 | 13492470 | 14881205 | 16387223 | 18019554 | 19787902 | 21702732 | |
| BENEFIC | 7 | 5 | 0 | 0 | 0 | 0 | 0 | ٥ | 55671 | 71683 | 90153 | 111333 | 135493 | 162923 | 193936 | 221841 | 245282 | 268295 | 290878 | 313030 | 334754 | 356049 | 376921 | 397373 | 417410 | 437037 | 456261 | 475089 | 493529 | 511588 | 529276 | 546601 | 563572 | 580198 | 596489 | 612454 | 628105 | 643450 | |
| | Ħ | | 0 | 0 | 0 | 0 | 0 | 0 | 160242 | 202539 | 250545 | 304902 | 366319 | 435581 | 513557 | 581507 | 642861 | 710862 | 786238 | 869801 | 962450 | 1065184 | 1179114 | 1305471 | 1445626 | 1601100 | 1773581 | 1964947 | 2177285 | 2412906 | 2674387 | 2964592 | 3286688 | 3644209 | 4041072 | 4481641 | 4970746 | 5513767 | |
| | 0 | | - | a | e | 4 | 1/1 | • | 7 | 80 | 9 | Q | - | 2 | m | * | ı, | 9 | <u></u> | 00 | on. | ٥ | _ | a | m | ₩. | เก | 10 | | æ | 6 | | | ~ | <u>е</u> | 4 | S | 9 | |

Table F, A.5 SIMOP Results (Arica) <- Resultados del SIMOP (Arica)>

| VALOR PRESENTE DE LOS BENEFICIOS Y LOS COSTOS (TASA DE DESCUENTO= | TICIOS Y LOS COSTOS | (TASA DE DESCUENT | 000 | .120 | .120 | .120 | . 12 |
|--|---|-------------------|-----|------|------|------|------|
| A. BENEFICIOS | MOMIO | | | | | - | |
| GRUPO 1
GRUPO 2
GRUPO 3
GRUPO 4
GRUPO 5 | 3462966.
990532.
11738120.
238222. | | | | | | |
| SUBTOTAL | 18573840. | - | | | | | |
| B. costos | | | | | | | |
| PERIODICOS NO PERIODICOS VARIABLES DE PRODUCCION VARIABLES DE SUMINISTRO | 2147607.
15228810.
2773910.
0. | | - | | | | |
| SUBIOTAL | 20150330. | | | | | | |
| C. VALOR NETO (A-B) TASA INTERNA DE RETORNO = 11.36 | _1576491.
1.36 | | | | | | |

COSTO INCREMENTAL PROMEDIO (UM/M3) = 5475.5

Table F, A.5 SIMOP Results (Arica) CResultados delSIMOP (Arica)>

ANALISIS DE INICIACION OPTIMA

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|--|--|
| RCENTUAL | 140.8
265.3
374.6
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551.4
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672.5
672.5
672.9
761.0
789.4
810.5
825.0
833.7
833.7
836.6 |
| CAMBIO PORCENTUA
CON RELACION ACCUMI
AL ANTERIOR | 140.8
305.2
305.2
66.1
374.6
34.6
46.1
15.3
620.5
11.0
677.9
8.0
724.2
8.0
724.2
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761.0
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| VALOR PRESENTE CO | -1576490. 2606187. 2606187. 2606187. 2329265. 5827867. 7115971. 8206254. 9110185. 9840114. 11220860. 11266440. 11566440. 11566440. 11566440. 11566440. 11566440. 11566440. |
| INICIACION | 20 221 22 22 22 22 22 22 22 22 22 22 22 22 |
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Table F, A.5 SIMOP Results (Arica)
<Resultados del SIMOP (Ari</p>

| RICA 1.00 | | VALOR DEL
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| PASADA PARAMETRICA | | CAMBIO
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| WAITER SUPPLY PROJECT ARICA | RESUMEN DE PASADAS | R. NOMERE DE LA
VARIABLE | ELASTICIDAD
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| 00.1 | COST. INCR. | 5384.69
5416.07
5446.06
5475.46
5503.99 |
|-------------------------------|--|---|
| PASALM PARAMETRICA 1:00 | TASA DE
RETORNO | 7.870
8.780
10.950
12.480 |
| PASAUR PA | PARAMEIRICOS * * VALOR PRESENTE NETO | -8312093.00
-6818802.00
-4849671.00
-2463232.00
1169170.00 |
| 4 | AL TOTAL COSTO VALOR EFICIOS RRUTOS DESCONTADO PRESENTE NETO CONTADOS | 19816280.00
19931750.00
20042110.00
20150330.00
20254960.00 |
| MALIEK SUPPLIF PROJECT ARTICA | TOTAL TOTAL RENETICIOS BRUTOS DESCONTADOS | 11504190.00
13112950.00
1519240.00
17687090.00
21424130.00
31359380.00 |
| WALLER | PASADA TOTAL
NO. BENEE
DESCO | 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |

Table F, A.5 SIMOP Results (Arica)
<Resultados del SIMOP (Arica)>

| RICA 2.00 | | VALOR DEL
PARAMETRO | α | | | | . 10.1 | 1 60 1 | 1 | 1 6 | 1 | | 50.1 | | 1 1 1 |
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| PASADA PARAMETRICA 2.00 | | CAMBIO
PROGRESIVO
O CONSTANTE | CONSTANTE | CONSTANTE | CONSTANTE | CONSTANTE | CONSTANTE | CONSTANTE | CONSTRANTE | CONSTRANTE | CONSTANTE | ONSTRANTO | CONSTRAIN | CONSTRAIN | |
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NO. VARIABLE | COSTOS NO PERIODICOS | 24 OF 2 | COSTOS NO PERI | COSTOS NO PERIODICOS | NO PERI | NO PER | | COSTOS NO PERIODICOS | COSTOS NO PERIODICOS | COSTOS NO PERIODICOS | NO PE | COSTOS NO PERIODICOS | COSTOS NO PERIODICOS |
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Table F, A.5 SIMOP Results (Arica) < Resultados del SIMOP (Arica)>

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| 2.00 | | COST. INCR. | 4730.66
4854.74
4978.89
5227.3.03
5321.32
5351.32
5475.46
55723.75
5847.90
6096.33 |
| PASADA PARAMETRICA 2.00 | * | TASA DE
RETORNO | 12.550
11.1.233
12.1233
11.1.350
11.1.350
10.1860
10.1860
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10.1860 |
| PASADA PA | PARAMETRICOS * * | VALOR
PRESENTE NETO | 1164698.00
707834.00
250966.00
-205898.00
-1576490.00
-1576490.00
-2033354.00
-2490216.00
-2447082.00
-3403948.00
-3403948.00 |
| 4 | RESULTADOS SEGUN LIMITES PARAMETRICOS | TOTAL COSTO
DESCONTADO | 17409140.00
17866000.00
18722870.00
18779730.00
19633460.00
20150330.00
20607190.00
21520920.00
21520920.00
2137780.00
22334650.00 |
| WAITER SUPPLY PROJECT ARICA | * * * RESULTADO | TOTAL
BENEFICIOS BRUTOS
DESCONTADOS | 18573840.00
18573840.00
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Table F, A.5 SIMOP Results (Arica) Resultados del.SIMOP (Arica)>

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|-------------------|------------------|---------------|--|--|-------------------|--------------|---|------------------------|
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5.00 |
| | | S. | RESUMEN DE PASADAS PARA ANALIZAR LA SENSIBILIDAD | | | | | |
| PASADA
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NO. NO. VARIABLE CON | GRUPO DE CATEGORIA
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NO. | CAMBIO
PROGRESIVO
O CONSTANTE | VALOR DEL
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Table F, A.5 SIMOP Results (Arica)

<Resultados del SIMOP (Arica)>

| WATER | SUPPLY PROJECT ARICA | Ą | PASADA PA | PASADA PARAMETRICA 3.00 | 3.00 |
|---------------|---|---|------------------------|-------------------------|-------------|
| 5. | * * * RESULTADO | * RESULTADOS SEGUN LIMITES PARAMETRICOS | PARAMETRICOS * * | * | |
| PASADA
NO. | TOTAL
BENEFICIOS BRUTOS
DESCONTADOS | TOTAL COSTO
DESCONTADO | VALOR
PRESENTE NETO | TASA DE
RETORNO | COST. INCR. |
| | 00 00360049 | 28849080_00 | 23032570.00 | 11.360 | 7839.18 |
| ۱۹ | CONTRACTO | 25525020 | 15018420.00 | 11.360 | 7235.12 |
| 7 | 41644400 | 200000000000000000000000000000000000000 | 8979370.00 | 11.360 | 6709.48 |
| 5 0 (| 336/1010.00 | 225042450-00 | 4427180.00 | 11.360 | 6248.03 |
| م | 2/42/0630 | 21490470.00 | 00.916866 | 11,360 | 5839.62 |
| 2: | 00-0505000 | 20150330.00 | -1576490.00 | 11,360 | 5475.46 |
| 1,5 | 15444840.00 | 18947230.00 | -3502392.00 | 11,360 | 5148.55 |
| 45 | 12928460-00 | 17860500.00 | -4932041.00 | 11.360 | 4853.25 |
| 7 | 10891990.00 | 16873380.00 | -5981392.00 | 11.360 | 4585-02 |
| , K | 9233616.00 | 15972240.00 | -6738619.00 | 11.360 | 4340.15 |
| 19 | 7874850.00 | 15145830.00 | -7270983.00 | 11.350 | SC CTT# |

| | | | VERAGE CONSU | IMPTION | | AVERAGE PRO | DUCTION |
|------|------------|------------------------|--------------|----------|------------|-------------|----------|
| P | OPULATION | CONSUMPTION PER CAPITA | TOTAL CONSU | MPTION | WATER LOSS | TOTAL PROD | DUCTION |
| | | (Vc/d) | (m3/day) | (l/sec) | (%) | (m3/day) | (I/scc) |
| 1992 | 152,529.00 | 220.00 | 33,556.38 | 388.40 | 40.00 | 55,927.30 | 647.30 |
| 1993 | 156,685.00 | 220.66 | 34,574.11 | 400.20 | 40.00 | 57,623.52 | 666.90 |
| 1994 | 160,918.00 | 221.32 | 35,614.69 | 412.20 | 40.00 | 59,357.82 | 687.00 |
| 1995 | 165,236.00 | 221.99 | 36,680.07 | 424.50 | 40.00 | 61,133.45 | 707.60 |
| 1996 | 169,628.00 | 222.65 | 37,768.00 | 437.10 | 39.00 | 61,914.75 | 716.60 |
| 1997 | 174,108.00 | 223.32 | 38,881.77 | 450.00 | 38.00 | 62,712.54 | 725.80 |
| 1998 | 178,677.00 | 223.99 | 40,021.83 | 463.20 | 37.00 | 63,526.71 | 735.30 |
| 1999 | 183,335.00 | 224.66 | 41,188.37 | 476.70 | 36.00 | 64,356.83 | 744.90 |
| 2000 | 188,100.00 | 225.34 | 42,385.66 | 490.60 | 35.00 | 65,208.71 | 754.70 |
| 2001 | 192,933.00 | 226.01 | 43,605.13 | 504.70 | 34.00 | 66,068.38 | 764.70 |
| 2002 | 197,877.00 | 226.69 | 44,856.70 | 519.20 | 33.00 | 66,950.30 | 774.90 |
| 2003 | 202,073.00 | 227.37 | 45,945.31 | 531.80 | 32.00 | 67,566.64 | 782.00 |
| 2004 | 208,073.00 | 228.05 | 47,451.46 | 549.20 | 31.00 | 68,770.24 | 796.00 |
| 2005 | 213,356.00 | 228.74 | 48,802.23 | 564.80 | 30.00 | 69,717.47 | 806.90 |
| 2006 | 218,697.00 | 229.42 | 50,173.98 | 580.70 | 30.00 | 71,677.12 | 829.60 |
| 2007 | 224,178,00 | 230.11 | 51,585.74 | 597.10 | 30.00 | 73,693.91 | 852.90 |
| 2008 | 229,776.00 | 230,80 | 53,032.52 | 613.80 | 30.00 | 75,760.74 | 876.90 |
| 2009 | 235,494.00 | 231.49 | 54,515.30 | 631.00 | 30.00 | 77,879.00 | 901.40 |
| 2010 | 241,379.00 | 232.19 | 56,045.27 | 648.70 | 30.00 | 80,064.67 | 926.70 |
| 2011 | 247,306.00 | 232.88 | 57,593.71 | 666.60 | 30.00 | 82,276.73 | 952.30 |
| 2012 | 253,407.00 | 233.58 | 59,191.58 | 685.10 | 30.00 | 84,559.40 | 978.70 |
| 2013 | 259,644.00 | 234.28 | 60,830.39 | 704.10 | 30.00 | 86,900.55 | 1,005.80 |
| 2014 | 266,020.00 | 234.99 | 62,511.15 | 723.50 | 30.00 | 89,301.64 | 1,033.60 |
| 2015 | 272,605.00 | 235.69 | 64,250.71 | 743.60 | 30.00 | 91,786.73 | 1,062.30 |
| 2016 | 279,208.00 | 236.40 | 66,004.41 | 763.90 | 30.00 | 94,292.01 | 1,091.30 |
| 2017 | 286,028.00 | 237.11 | 67,819.50 | 784.90 | 30.00 | 96,884.99 | 1,121.40 |
| 2018 | 293,005.00 | 237.82 | 69,682.22 | 806.50 | 30.00 | 99,546.03 | 1,152.20 |
| 2019 | 300,143.00 | 238.53 | 71,593.91 | \$28.60 | 30.00 | 102,277.02 | 1,183.80 |
| 2020 | 307,540.00 | 239.25 | 73,578.41 | 851.60 | 30.00 | 105,112.02 | 1,216.60 |
| 2021 | 314,924.00 | 239.97 | 75,571.06 | 874.70 | 30.00 | 107,958.65 | 1,249.50 |
| 2022 | 322,576.00 | 240.69 | 77,639.50 | 898.60 | 30.00 | 110,913.57 | 1,283.70 |
| 2023 | 330,411.00 | 241.41 | 79,763.85 | 923.20 | 30.00 | 113,948.36 | 1,318.80 |
| 2024 | 338,432.00 | 242.13 | 81,945.28 | 948.40 | 30.00 | 117,064.69 | 1,354.90 |
| 2025 | 346,647.00 | 242.86 | 84,186.20 | 974.40 | 30.00 | 120,266.00 | 1,392.00 |
| 2026 | 355,060.00 | 243,59 | 86,488.06 | 1,001.00 | 30.00 | 123,554.37 | 1,430.00 |
| 2027 | 363,677.00 | 244,32 | 88,852.81 | 1,028.40 | 30.00 | 126,932.59 | 1,469.10 |
| 2028 | 372,506.00 | 245.05 | 91,282.92 | 1,056.50 | 30.00 | 130,404.18 | 1,509.30 |
| 2029 | 381,551.00 | 245.79 | 93,779.91 | 1,085.40 | 30.00 | 133,971.30 | 1,550.60 |
| 2030 | 390,821.00 | 246.52 | 96,346.52 | 1,115.10 | 30.00 | 137,637.88 | 1,593.00 |

Table F, A.7: Calculation of Periodic Cost (Iquique Stage I) < Calculo de Costo Periodico (Iquique Etapa I)> (Unit: Thousand Pesos)

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| Fotal Periodic Cost | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 | 367,231 |
| | 355,711 | 355,711 | 355,711 | 355,711 | 355,711 | 355,711 | 355,711 | 355,711 | 55,711 | 55,711 | 355,711 | 55,711 | 55,711 | 355,711 | 355,711 | 355,711 | 355,711 | 55,711 | 355,711 | 355,711 | 55,711 | 355,711 | 355,711 | 55,711 | 355,711 | 355,711 | 355,711 | 355,711 | 355,711 | 355,711 |
| Maintenance | 520 3 | ,520 3 | 520 3 | ,520 | .520 | <i>5</i> 20 3 | ,520 3 | 520 3 | 520 3 | ,520 3. | ,520 3. | ,520 3. | | ,520 3. | ,520 3. | ,520 3: | ,520 3: | | 520 3. | ,520 3. | ,520 3. | ,520 3. | ,520 3 | 520 3. | ,520 3 | ,520 3. | ,520 3. | | 33. | 520 3: |
| Personnel | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 | 2,11 | 2,11,5 | 2,11 | 11,5 | 11,5 | 11,5 | 2,11,5 | 2,11 | 2,11,5 | 211,5 | 2,11,5 | 11,5 | 2,11 | 2,11,5 | 2,11,5 | 11,5 | 11,5 | 11,5 | 11,5 | 211,5 | 11,5 | 11,5 | 2,11 |
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car | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |

Table F, A.8: Calculation of Social Incremental Investment (Iquique Stage I) < Calculo de la Inversion Social Incremental (Iquique Etapa I)>

(Unit: Thousand Pesos)

| | | | | Administration, Physical Total Social Incr.
Engineering Cos Contingency Investment
12849.08844 25698.177 552510.8028
209908.6315 419817.26 9026071.155
216760.5024 433521 9320701.602 |
|--|---|---|--|---|
| | | | | Administration, Physical
Engineering Cos Cominge
12849.08844 25698.
209908.6315 419817
216760.5024 433 |
| | | | | Social Incremental
Investment
76 513963.54
72 8396345.3
77 8670420.1 |
| 1998
0
1218521
8169550
358960
158000 | | | | Labor Import
Adjustment Duty
85911.794 6631.7876
1045596.7 366022.02
1081832.2 381706.07 |
| 1997
0
1181253
8148254
278808.59 | | | | Foreign Labor Exchange Ad Adjustment 3617.33868 85911.794 199648.372 1045596.7 208203.311 1081832.2 |
| Net
Investment
1996
602890
0
0
0
0 | Import
Duty
6631.7876
0 | 41580.106
313707.78
10734.131 | 42891.939
314527.68
13858.455
10428 | Foreign
Component
60288,978
3327472,9
3470055,2 |
| 1998
0 0
198319
22813.125 | Impo
Semi-skilled Duty
90433.467 663 | 30712.578
1124459.1
38475.585 | 31681.546
1127397.9
49674.463
23700 | Others
415391.06
4457182.3
4545844.7 |
| Withous-Projective structure 1997 0 0 37268 219615 103964.41 | | 44887.614
211854.6
7249.0233 | 46303.798
212408.3
9358.9568
7900 | 7876
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26.07 |
| 1998
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1218521
8367869
387773
158000 | Foreign 60288.978 | 378000.96 44887.614
2851888.9 211854.6
97583.007 7249.0233 | 389926.72
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382773 | Component Labour Non-skilled 602889.78 542600.802 60288.978 30144.489 | 1181253 803252.04
8148254 5296365.1
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275971.055 |
| With-Project Situation
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0 836 | Investment I
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8148254
278808.59 | 1218521
8169550
359959.88
158000 | Domestic Non-skilled
Component Labor
\$42600.8 30144.488
6280842.7 263991.241
6435975.7 275971.055 |
| liem Design Intake Works Transmission Distribution Electric Works | I
1996 Design | 1997 Intake Works Transmission Distribution Electric Works | 1998 Intake Works Transmission Distribution Electric Works | Investment I () () () () () () () () () (|
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Table F, A.9: Calculation of Variable Cost (Iquique Stage I) < Calculo de Costo variable (Iquique Etapa I)>

| Incremental Consumption | (Thousand M3) | 4,478 | 4,762 | 5,046 | 5,330 | 5,550 | 5,929 | 6,276 | 6.276 | 6,276 | 6,276 | 6,276 | 6,276 | 6.276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6,276 | 6.276 | 6,276 | 6,276 | 6,276 |
|---------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|--------------|--------------|---------|--------------|--------------|--------------|
| Incremental Consumption I | (1/sec) | 142 | 151 | 991 | 169 | 176 | 188 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 199 | 189 | <u>8</u> | 199 | 199 | 199 | 199 | 199 | 136 | 199 |
| Total Cost Incre | (Thousand Pesos) | 192,701 | 201,303 | 209,994 | 218,861 | 225,032 | 237,201 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 | 246,680 |
| Chemical Cost T | (Thousand Pesos) | 4,687 | | | | ٠, | | | | | | 5,997 | | 5,997 | | | | | 5,997 | | | | | | | 1 5,997 | | | | 5,997 | |
| Electric Cost | (Thousand Pesos) | | | • | | | | | | | | | | | | | | 2015 240,683 | 2016 240,683 | 2017 240,683 | 2018 240,683 | 2019 240,683 | 2020 240,683 | 2021 240,683 | | 2023 240,683 | 2024 240,683 | | 2026 240,683 | 2027 240,683 | 2028 240,683 |
| Year | ļ | • | | | | | | | | | | | | | | | | • | | • | | | | | | | | | | | |

Table F, A.10 SIMOP Results (Iquique: Stage I)

<Resultados del SIMOP (Iquique Etapa I)>

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Table F, A.10 SIMOP Results (Iquique: Stage I)

<Resultados del SIMOP (Iquique Etapa I)>

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|---|------------------------------|---------------------------------------|---------------|---------------|-------------|------------|------------|-------------|-------------|-------------|-----------|----------------|----------------|-----------------|-----------------|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|------------------|----------------|----------------|--------------|---------------|------------|---------------------------|
| (GRUPO EXISTENTE ANTERIORMENTE) | orros | CONSUMO NETO ABORRO DE RECURSOS TOTAL | 472554. | 551090. | 629391. | 717926. | 811269. | 933280. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. | 1063557. |
| ANTE | 30 | BCURS | 9 | ó | . 6 | ð, | • | • | ٥ | 0 | ö | | | ٥, | 6 | 0. | ő | ٥. | 0 | | 0 | 0 | o' | O | 0 | | • | | °. | | | ٥. |
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C | OE R | | | | | | | | . : | | | | | | | | | | | | | | • | | | | | | | | |
| O EXIS |)
(8) | ABORR | 54. | 90 | 91. | 26. | - 69 | 90 | 57. | 57. | | | | .73 | | .7: | .73 | | 7 | 7. | ۲. | 7 | 7. | 7. | 7. | 7. | 7. | 7. | 7. | ٠. | | 7. |
| (GROD) | REMETICIOS ECONOMICOS BRUTOS | NETO | 472554. | 551090 | 629391. | 717926 | 811269. | 933280 | 1063557. | 1063557. | 1063557 | 1063557. | 1063557. | 1063557 | 1063557 | 1063557. | 1063557 | 1063557. | 1063557. | 1063557 | 1063557. | 1063557 | 1063557 | 1063557. | 1063557, | 1063557 | 1063557 | 1063557. | 1063557. | 1063557 | 1063557. | 1063557 |
| . н | E | CMINSIN | | | | | | | | | | | . : | | | | | | į. | | | | | | • | | • | ••• | • | | 773 | - |
| RES NO | | 8 | 1166. | 1234 | 1270 | 1305. | 1322. | 1373. | 1406. | 1364. | 1323. | 1283. | 1244. | 1206. | 1169. | 1132. | 1097. | 1062. | 1028. | 995. | 963. | 932. | 901. | 972. | 843. | 815. | 787. | 761. | 735. | 710. | 685. | 662. |
| OTHER | | NETO | | | | | ٠ | | | | | | | | - | | | | | | | | ÷ | | | | i | | | | | |
| E CON | | z | 3673. | 3624 | 3575. | 3524. | 3473. | 3420 | 3367. | 3267. | 3169. | 3074. | 2980. | 2889. | 2799 | 2712. | 2627. | 2544. | 2463. | 2384. | 2307. | 2232. | 2159. | 2088. | 2019. | 1951. | 1886. | 1822. | 1760. | 1700. | 1642. | 1585. |
| C Odin | | SILV | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | ., |
| RESUMEN DE BENEFICIOS PARA EL GRUPO DE CONSUNIDORES NO. | . 0 | | 4839. | 4858. | 4845. | 4829 | 4795. | 4793. | 4773. | 4631. | 4492- | 4357. | 4224. | 4094. | 3968. | 3844. | 3724. | 3606. | 3491. | 3379. | 3270. | 3164. | 3060. | 2960. | 2861. | 2766. | 2673. | 2583. | 2495. | 2410. | 2327. | 2247. |
| S PARA | CONISUMO | NOO | | | | | ٠ | | | | | • | | • | | .,, | ••. | | | | | (*) | (*) | 14 | CI. | ~ | 7 | 7 | . 71 | ~ | 7 | Α. |
| TICIO | • | | 4839. | 5065. | 5302. | 5551. | 5810. | 6082. | 6367. | 6665. | 6977. | 7303. | 7645. | 8003 | 8378. | 8770. | 9180. | 9610. | 10059. | 10530. | 11023. | 11539. | 12079. | 12644. | 13236. | 13855. | 14504. | 15183. | 15893. | 16637. | 17416. | 31. |
| E BEN | | PROY. | • | " | υ, | u, | u) | | 90 | • | ٠ | 7 | | | œ | œ | o. | σĭ | Õ | 10 | 11 | 11 | Ä | . 13 | 133 | 13 | 7 | 153 | 158 | 166 | 174 | 18231 |
| OMEN D | | Pi | 65 | 22 | 8 | 0 | 9 | 4 | <u></u> | κĵ | ōν | φ | 7 | 0 | ıs. | ٠ | 9 | N | 4 | vo | C¥. | 7 | - | m | | | | | | | | |
| RES | | SIN | 528.59 | 592.22 | 664.08 | 745.30 | 837.16 | 941-14 | 1058.93 | 1225.45 | 1418.79 | 1643.3 | 1904.4 | 2207.9 | 2560.9 | 2971.80 | 3450.1 | 1007.3 | 9*9591 | 413.5 | 296-3 | 326.2 | 528.4 | 932-0 | ***** | **** | ***** | ***** | **** | **** | ****** | **** |
| | | | 311.09 | 337.09 | 370.04 | 406.66 | 450.09 | 491.87 | 541.40 | 626.53 | 725.38 | 840-21 1643-38 | 973.66 1904.41 | 1128.83 2207.90 | 1309,32,2560,95 | 1519.38 | 311.09 1763.95 3450.16 | 311.09 2048.82 4007.35 | 311.09 2380.78 4656.64 | 311.09 2767.77 5413.56 | 311.09 3219.09 6296.32 | 311.09 3745.67 7326.27 | 311.09 4360.29 8528.41 | 311.09 5077.94 9932.08 | | | | * 57. | | | | 111.09 ***** **** *0.1118 |
| | e
H | PROY | | | | | | | | | | | | | | | 9/1 60 | 9 204 | 9 238 | 9 276 | 19 32I | 9 374 | 9 436 | 9 507 | 311.09 5916.22 | 311.09 6895.77 | 311.09 8040.80 | 311.09 9379.75 | 311.09 ***** | 311.09 ****** | ***** | 6 |
| | PRECIO | 30 | 311.09 | 311.09 | 311.09 | 311.09 | 311-09 | 311-09 | 311-09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.0 | 311.09 | 311.0 |
| | | × | CINIDO | OCTAL | OCH | INDEFINIDO | TRIDO | OCILI | OCH | OCIL | OCINI | OCHA | OCT N | OCINI | OCIENT | OUL | OCIENT | ONITO | OCIE | OCIE | OCILA | OCH | NID0 | MIDO | MIDO | OCEN | 0 | OCIEN | 0 | OCH | OCIEN | OCITA |
| | | Yex. | 52 INDEPINIDO | 52 INDEFINIDO | INDET INIDO | THORI | INDEPINIDO | DODET TRUDO | DADES INIDO | INDEF INIDO | INDEPTHIO | 52 INDEFINIDO | CHURTHING | INDEFINIDO | OCITATI SEGURI | INDEPINIDO | 52 INDEPTINIDO | 52 INDEPLINIDO | 52 INDEFINIDO | 52 INDEFINIDO | INDEFINIDO | 52 INDEPTINIDO | INDET INIDO | DADEPINIDO | INDEFINIDO | OCTATIVED ON THE | 52 INDEPTINIDO | DESTRUCTION | INDEPTINIDO | INDEPTINIDO | INDEFINIDO | 52 INDEPINIDO |
| | | ELAST | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | - 52 | 52 | 52 | -, 52 | - 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | - 52 | 52 | 52 | 52 | 52 | 52] | 52 : |
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T | | œ | 8 0, | 01 | 11 | 7 | 13 | 14 | 51 | 16 | 11 | 18 | 19 | 8 | 21 | 23 | 23 | 24 | 25 | 56 | 27 | 28 | 53 | 30 | 31 | 32 | 33 | 34 | SE | 36 |

Table F, A.10 SIMOP Results (Iquique: Stage I) <Resultados del SIMOP (Iquique Etapa I)>

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|---|------------------------------|------------------------|---|
| TERTORMEN | BRUTOS | RECURSOS TOTAL | 181896
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| (GRUPO EXISTENTE ANTERIORMENTE) | CONOMICOS | | 000000000000000000000000000000000000000 |
| 7 | BENEFICIOS ECONOMICOS BRUTOS | CONSUMO NETO ABORRO DE | 181896.
217239.
252295.
252295.
3280449.
3200449.
377287.
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| SUMIDORES N | | NETO CC | 444.
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| RESUMEN DE BENEFICIOS PARA EL GRUPO DE CONSUMIDORES NO. | | PROY. | 1727.
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6814. |
| RESON | | SIN | 562.99
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| | 0 | PROY | 311.09
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| | | ELAST. | 24.6.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 |
| | | <u>~</u> | |

Table F, A.10 SIMOP Results (Iquique: Stage I) <Resultados del SIMOP (Iquique Etapa I)>

| • | | RESUMEN DE | THE REMETET | DEMEETICACE FARM EN CROPS OF COMPONION | | | | | |
|----------|----------|------------|-------------|--|-------|-------|------------------------|--------------|----------------|
| O | PRECIO | | | CONSUMO | | | BENEFICIOS | S BOONOMICOS | S BRUTOS |
| | PROY | SIN | PROY. | CON | SIN | NETO | CONSUMO NETO AHORRO DE | | RECURSOS TOTAL |
| | 311.09 | 674.84 | 7522. | 7522. | 5710. | 1812. | 893433. | : • | 893433. |
| | 378.61 | 781.08 | 8231. | 7895. | 5889. | 2005 | 1162784. | o | 1162784. |
| | 467.00 | 899.90 | 9003 | 8226. | 6909 | 2157. | 1474181. | ٠ | 1474181. |
| | | 1032,43 | 9844. | 8564. | 6249. | 2314. | 1851744. | 0 | 1851744. |
| | | 1179.91 | 10759. | 8879. | 6430 | 2449 | 2287568 | 0 | 2287568. |
| _ | 811.22 | 1343.67 | 11755. | 9264. | 6611. | 2653. | 2858428. | • | 2858428. |
| | 956.21 | 1525.19 | 12841. | 9626. | 6791. | 2835. | 3517354. | 0 | 3517354. |
| _ | 1169.88 | 1745.78 | 14022. | 9743. | 6874. | 2869. | 3517354. | ٠
• | 3517354. |
| | 1405.28 | 1987.91 | 15309. | 9857. | 6954. | 2903 | 3517354. | • | 3517354. |
| | 1664.29 | 2253.46 | 16710. | 9968 | 7032. | 2936. | 3517354. | o | 3517354. |
| _ | 1948.95 | 2544.46 | 18236. | 10075 | 7108. | 2967. | 3517354. | c | 3517354. |
| _ | 2261.45 | 2863.13 | 19897. | 10180. | 7182. | 2998 | 3517354. | | 3517354. |
| | 2604.23 | 3211.89 | 21706. | 10281. | 7253. | 3028. | 3517354. | • | 3517354. |
| _ | 2979.90 | 3593.36 | 23676. | 10379. | 7322. | 3057. | 3517354. | . | 3517354. |
| _ | 3391.33 | 4010.40 | 25821. | 10474. | 7389 | SROE | 351/354. | . | 351/354. |
| | 3841.63 | 4466.14 | 28157. | 10566 | 7454 | 3112 | 3517354. | ċ | 3517354. |
| _ | 4334.21 | 4963.98 | 30700. | 10655. | 7517. | 3138 | 3517354 | o | 3517354 |
| | 4872.74 | 5507.61 | 33470 | 10741. | 7578 | 3163 | 3517354 | • | 3517354. |
| _ | 5461.28 | 90.1019 | 36485 | 10824. | 7636. | 3188. | 3517354. | o | 3517354. |
| ້ | 6104.19 | 6748.72 | 39769. | 10905. | 7693. | 3211. | 3517354. | oʻ | 3517354. |
| <u>ب</u> | 6806.25 | 7455.37 | 43344. | 10982. | 7748. | 3234 | 3517354. | · | 3517354. |
| O | 7572.66 | 8226.20 | 47238. | 11057. | 7801. | 3256. | 3517354. | ° | 3517354. |
| 311,09 | 8409.09 | 9066.89 | 51478. | 11129. | 7851. | 3278 | 3517354. | ö | 3517354. |
| 5 | 9321, 71 | 9983.61 | 56094. | 11198. | 7900 | 3298. | 3517354. | 0 | 3517354. |
| o | | **** | 61121. | 11265. | 7948 | 3318. | 3517354. | o | 3517354. |
| | * ***** | ****** | 66595. | 11329. | 7993. | 3336. | 3517354. | 0 | 3517354. |
| • | ***** | ***** | 72555. | 11391. | 8036. | 3355. | 3517354. | 0 | 3517354. |
| 311.09 | ****** | ***** | 79046. | 11450. | 8078. | 3372. | 3517354. | 0 | 3517354. |
| | ***** | **** | 86113. | 11507. | 8118 | 3389 | 3517354. | 0 | 3517354. |
| | ****** | ***** | 93809 | 11561. | 8156. | 3405. | 3517354. | • | 3517354. |

Table F, A.10 SIMOP Results (Iquique: Stage I) <Resultados del SIMOP (Iquique Etapa I)>

| (CRUPO EXISTENTE ANTERIORMENTE) | BRUTOS | RECURSOS TOTAL | | 416414. | 505896 | 294261 | 202606 | 783004 | 101000 | 1019096 | 1019096 | 1019096. | 1019096 | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | 1019096 | 1019096 | 1019096. | 1019096 | 9606101 | 1019096 | 1019096 | 1019096 | 1019096. |
|---|--------------------|------------------------|------------|------------------------------|---------|--------|--------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|----------|----------|----------|
| ISTENTE AN | ECONOMICOS BRITIOS | RO DE RECU | | 0 | • 6 | •
• | | . | . | | o | ° | ö | • | o | 0 | o | ö | oʻ. | o · | 0 | ာ် | | , | ċ | Ċ | | Ċ | Ċ | | 6 |
| NO. 4 (GRUPO EX | HENEFICIOS B | CONSUMO NETO ABORRO DE | • | 416414. | 505896. | 197760 | 703604 | 901387 | 1019096 | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | 1019096. | -9606101 | 1019096. | 1019096. | 1019096 | 1019096. | 1019096 | 1019096 | 1019096 | 1019096. | 1019096 | 1019096 | 1019096. | 1019096. | 1019096 | 1019096. |
| SUMIDORES | | NETO | | 962. | 1064. | 1227 | 1300 | 1409. | 1508. | 1528. | 1549. | 1569. | 1589. | 1609. | 1629. | 1649. | 1669 | 1688 | 1708. | 17/7 | 1/46 | 1707 | 1802 | 1820. | 1838. | 1855. | 1873. | 1890 | 1907. | 1924. | 1941. |
| RUPO DE CO | | SIN | | 3030 | 3214 | 3315 | 3413 | 3512. | 3612 | 3661. | 3710. | 3759. | 3807. | 3855 | 3903 | 3951. | 3773 | 4045. | 4091. | 4137 | 4182. | 4277 | 4316 | 4359. | 4402. | 4445. | 4487. | 4528. | 4569. | 4609. | 4649. |
| IOS PARA EL (| CONSUMO | CON | ()
() | 3992 | 4362 | 4542 | 4712 | 4921. | 5119. | 5189. | 5259. | 5328. | 5397. | 5465. | 5533. | 2600. | 200/ | 0/33 | . 6000 | 7000 | 5000 | 6055 | 6118. | 6179 | 6240. | 6300. | 6360. | 6418. | 6476 | 6533. | 6589. |
| RESUMEN DE BENEFICIOS PARA EL GRUPO DE CONSUMIDORES | | PROY. | | 3992. | 4774 | 5221. | 5710. | 6244. | 6829. | 7468. | 8167. | 8932. | 9768. | 10682. | 11682 | 12071 | 153/1 | 1000 | 15/07 | 10000 | 21000- | 23899 | 26136. | 28582. | 31257. | 34183. | 37382. | 40881. | 44708. | 48892. | 53469. |
| RESUM | | SIN | | 508.78 | 640.68 | 680,39 | 718.05 | 753.75 | 787.58 | 826.70 | 863.07 | 896.87 | 928.28 | 957.46 | 484.00 | 70.5001 | 20.550 | 1074.70 | 1004-01 | 000 | 1126 86 | 1141.73 | 1155.50 | 1168.25 | 1180.07 | 1191.00 | 1201.13 | 1210.49 | 1219.16 | 1227.17 | 1234.58 |
| | ខ្ព | PROY | , | 352 43 | 398,36 | 442.62 | 487.84 | 525.49 | 564.28 | 619.73 | 671.28 | /19.19 | 763.71 | 202.07 | 010 | 013.13 | 000 CYO | 27.70 | 007.00 | 022 46 | 045.19 | 1066.26 | 1085.78 | 1103.86 | 1120.60 | 136.10 | 150.45 | 163,73 | 176.01 | 187.37 | 197.87 |
| | PRECIO | 00 | | 2115
2117
2117
2117 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 57TF | 211.09 | 311.03 | 311.00 | 97116 | 311 00 | 311 09 | 311.09 | 311.09 | 311.09 | | | 311.09 | 311.09 1 | 311.09] | 311.09] | 311.09 | 311.09 1 |
| | | X | | 1322 52 | | | | | | | | | 1322-52 | | N 5 | 45 | ŧ 0 | 12 | 1322 52 | 15 | 22 | .52 | | 52 | 22 | 7 | 52 | | 22 | 322.52 | .52 |
| | | ELAST. | | 1 1 | | | | | - 74 1 | - 88 · | -1-03 | 1 57 - T - | 16-1- | 17. | | | | | 3.07 | | 1. | 16 | | 9 | 50 | | . 69 | 33 | 69 | -8-79 13 | |
| | | 9 | ŗ | - α | 9 | ខ្ព | Ħ | 17 | | | | | | | | | | | | | 26 | 27 | -
58 | <u>გ</u> | ္က ႏ | 7 (| 32 | η. | | | |

Table F, A.10 SIMOP Results (Iquique: Stage I) <Resultados del SIMOP (Iquique Etapa I)>

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0 0 0 0 | BENEFICIOS Y COSTOS TOTALES COSTOS BRUTOS COSTOS BRUTOS | 4 5 TOTAL PERIODICOS PROD | | | | ר אנאטאון | TECHNOLOGY OF TECHNOLOGY OF THE TECHNOLOGY OF TH | T/08/2006 | 0 9320702 | 367231 0 1964296 367231 0 175645 0 542876 | 1 505895 0 2437008 367231 0 191365 0 558596 | 594260 0 2950128 367231 0 202809 0 570040 | 689208 0 3549327 36723 0 214507 0 581738 | 783604 0 4211288 36/23 0 223916 0 591147 | 250705 U 250 | 1019095 0 602625 36/231 0 252653 0 697675 | TOTAGE O CONTRACT O TESTED O TESTEDO | 1019095 0 6026265 367231 0 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 36/231 0 252653 0 619884 | 2000101 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 | 1019095 0 6026265 367231 0 252652 0 619883 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252652 0 619883 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 619884 | 1019095 0 6026265 367231 0 252653 0 619884 | 1012010 0 0002000 367231 0 020203 | |
|--|--|--|---|---|---------------------------|--|--|--|-----------|--|-----------|-----------|---|---|---|--|--|--|---|--|----------------------------|--|--|--|--|--|--|---------|--|--|-------------------------------------|--|--|--|--|--|--|-----------------------------------|--|
|--|--|--|---|---|---------------------------|--|--|--|-----------|--|-----------|-----------|---|---|---|--|--|--|---|--|----------------------------|--|--|--|--|--|--|---------|--|--|-------------------------------------|--|--|--|--|--|--|-----------------------------------|--|

Table F, A.10 SIMOP Results (Iquique: Stage I)

<Resultados del SIMOP (Iquique Etapa I)>

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| .000 | |
| E DE LOS BENEFICIOS Y LOS COSTOS (TASA DE DESCUENTO- | OTANO |
| VALOR PRESENTE DE LOS BENEFIC | A. BENEFICIOS |

| MONTO | 3911323.
1565281.
11671200.
3720321. | 20868120. | | 1678513.
11418310.
1041130. | 14137960. | 6730165.
7.33 |
|---------------|---|-----------|-----------|--|-----------|---|
| A. BENEFICIOS | GRUPO 1
GRUPO 2
GRUPO 3
GRUPO 4
GRUPO 5 | SUBTOTAL | 3. COSTOS | PERIODICOS NO PERIODICOS VARIABLES DE PRODUCCION VARLABLES DE SUMINISTRO | SUBIOIRE | C. VALOR NETO (A-B) 67
TASA INTERNA DE RETORNO = 17.33 |

COSTO INCREMENTAL PROMEDIO (UM/M3) = 2528.9

Table F, A.10 SIMOP Results (Iquique: Stage I) <Resultados del SIMOP (Iquique Etapa I)>

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| RCENTUAL ACCUMULATIVO | 8.8
13.7
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-28.8
-36.4
-43.2
-49.3
-54.7
-59.6
-63.9 |
|--|--|
| CAMBIO PORCENTURI
CON RELACION ACCUMUI
AL ANTERIOR | 8.8
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| VALOR PRESENTE C | 6730162.
7324841.
7649084.
761685.
7271685.
6734533.
6012978.
536730.
4793510.
4779920.
3411925.
3411925.
2428541.
INICIACION |
| INICIACION
PRODUCCION | 7
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| INICIACION | * 4
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Table F, A.10 SIMOP Results (Iquique: Stage I) <Resultados del SIMOP (Iquique Etapa I)>

| 34 1.00 | | VALOR DEL
PARAMETIRO | 82
35
40 | 1.72 | 1.25 | 1.52 | | | 1.22 |
|-----------------------------|---------------------------------------|-------------------------------------|--|--|--|-----------------------------------|--|---|---|
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O CONSTANTE | | }
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| | Creta | GRUPO DE
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| I) | PASADAS PARA ANALIZAR LA SENSIBILIDAD | | | 1
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| FOR IQUIQUE (STRUE I) | PARA ANALIZA | | | | i | |
 | | ; ! ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; |
| WATER SUPPLY PROJECT FOR IQ | RESUMEN DE PASADAS | NOMBRE DE LA
VARIABLE | ELASTICIDAD
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| 132 | | PASADA
NO. | ထထထထ | | 01000 |
 | 2222 | | 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

| WATE | WATER SUPPLY PROJECT FOR IQUIQUE (STAGE I) | R IQUIQUE (STACE | | PASADA PARAMEIRICA 1.00 | 1.00 |
|----------------|--|---|------------------------|-------------------------|-------------------------|
| | * * * RESULTADO | * * RESULTADOS SEGUN LIMITES PARAMETRICOS * | ARAMETRICOS * * | • | |
| PASSADA
No. | PASADA TOTAL
NO. RENEFICIOS BRUTOS
DESCONTADOS | TOTAL COSTO
DESCONTADO | VALOR
PRESENTE NETO | TASA DE
RETORNO | COST. INCR.
PROMEDIO |
| 00 | 13951040.00 | 14093360.00 | -142322.00 | 11.880 | 2520.91 |
| 0 | 15592680,00 | 14112460.00 | 1480226.00 | 13.280 | 2524.32 |
| 10 | 17767920.00 | 14127430.00 | 3640495.00 | 15.030 | 2527.00 |
| 11 | 20868120.00 | 14137960.00 | 6730162.00 | 17,330 | 2528.89 |
| 12 | 25609280.00 | 14140450.00 | 11468840.00 | 20.500 | 2529.33 |
| 131 | 32004290.00 | 14140450.00 | 17863840.00 | 24.550 | 2529.33 |
| | OU CATCLOCK | 14140450 00 | 29771730,00 | 30,860 | 2529.33 |

Table F, A.10 SIMOP Results (Iquique: Stage I) Resultados del SIMOP (Iquique Etapa I)>

| | WATER | SUPPL | WATER SUPPLY PROJECT FOR IQUIQUE (STAGE I) | | PASADA PARAMETRICA 2.00 | RICA 2.00 |
|--|-----------------------|---------------------------------|--|--|--|------------------------|
| | | ä | RESUMEN DE PASADAS PARA ANALIZAR LA | A SENSIBILIDAD | | |
| PASADA
NO. | | YAR
NO. | SEQ. VAR. NOMERE DE LA
NO. NO. VARIABLE | GRUPO DE CATEGORIA
CONSUMIDORES INCRESOS ANO
NO. | FILUTO CAMBIO NO. PROGRESIVO O CONSTANTE | VALOR DEL
PARAMETRO |
| -
 | - | 18 | COSTOS NO PERIODICOS | | 1 CONSTANTE | -1.50 |
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1 , 5 | н <u>і</u> | 188 | COSTOS NO PERIODICOS | | 1 CONSTANTE | |
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ا | 81 2 | NO PERU | | 1 CONSTANTE | |
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ا | 188 | PERIO | | 1 CONSTANTE | |
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| 13 | н <mark>і</mark> | 138 | | | ιΩ | 30. |
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ا | 188
1 | COSTOS NO PERIODICOS | | 1 CONSTANTE | .75 |
| 17 | н <mark>і</mark> | 1 18
1 18 | COSTOS NO PERIODICOS | | - | - 06. |
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1 | COSTOS NO PERIODICOS | | ιĶ | 1.05 |
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8
1 | COSTOS NO PERIODICOS | | 1 CONSTANTE | 1.35 |
| 21 | ا ہ
ا | 1
1
1
1 | COSTOS NO PERIODICOS | | 1 CONSTANTE | 1.50 |
| | | | | | 11111111111 | 1 1 1 |

Table F, A.10 SIMOP Results (Iquique: Stage I) I)>

WATER SUPPLY PROJECT FOR IQUIQUE (STAGE I) PASADA PARAMETRICA 2.00

| | COST. INCR. |
|---|---|
| | COST. IN |
| | |
| | rasa de
Retorno |
| * | E Z |
| *
* | NETO |
| PARAMETRICO | VALOR TASA DE
PRESENTE NETO RETORNO |
| * * * RESULTADOS SEGUN LIMITES PARAMETRICOS * * * | TOTAL COSTO
DESCONTADO |
| * RESULTADO | TOTAL
BENEFICIOS BRUTOS
DESCONTADOS |
| * | TOTAL
BENEFICIOS
DESCONTADOS |
| | PASADA TOTAL
NO. BENEF
DESCOI |
| | |

| | COMPLETE | | | | | |
|---|-------------|--------------|--------------|---------|----------|---|
| 1 | | | | | | |
| | 20868120.00 | -19512880.00 | 40381000.00 | 100.000 | -3490.31 | : |
| | 20868120.00 | -12782710.00 | 33650820.00 | 100.000 | -2286.47 | |
| | 20868120.00 | -6052541.00 | 26920660.00 | 100.000 | -1082.63 | |
| | 20868120.00 | 677625.40 | 20190490.00 | 100.000 | 121.21 | |
| | 20868120.00 | 7407791.00 | 13460330.00 | 31.990 | 1325.05 | |
| | 20868120.00 | 14137960.00 | 6730162.00 | 17.330 | 2528,89 | |
| | 20868120.00 | 20868120.00 | 00 | 12.010 | 3732.72 | |
| | 20868120.00 | 27598280.00 | -6730164.00 | 000-6 | 4936.56 | |
| | 20868120.00 | 34328450.00 | -13460330.00 | 6.970 | 6140.40 | |
| | 20868120.00 | 41058610.00 | -20190490.00 | 5.480 | 7344.24 | |
| | 20868120.00 | 47788780.00 | -26920660.00 | 4.300 | 8548.08 | |
| | | | | | | |

Table F, A.10 SIMOP Results (Iquique: Stage I) <a href="https://www.ncapack.com/rable-ra

| E | ATER S | SUPPLY | WATER SUPPLY PROJECT FOR IQUIQUE (STAGE I)
RESUMEN DE PASADAS PARA ANALIZAR LA SENSIBILIDAD | Q | | PASADA PARAMETRICA 3.00 | 3.00 ach |
|---|--------------------|-----------------|--|--|----------------------------|---|------------------------|
| PASADA
NO. | SEQ. | WAR. | DE LA | GRUPO DE CATEGORIA
CONSUMIDORES INGRESOS
NO. | FILUJO
ANO NO. | CAMBIO
PROGRESIVO
O CONSTANTE | VALOR DEL
PARAMETRO |
| 9 | 1 | 3 | TASA DE DESCUENTO | | | | 130 |
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 | TASA DE DESCUENTO | | | | .370 |
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| 3.00 | | COST. INCR. | ******* | 28371.32 | 10241.73 | 5302.74 | 3453.44 | 2528.89 | 1963.83 | 1575.26 | 1289.61 | 1071.10 | 839.58 |
|--|------------------|---|---------------|---------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| PASADA PARAMETRICA 3.00 | | TASA DE
RETORNO | 17.330 | 17,330 | 17,330 | 17,330 | 17,330 | 17, 330 | 17,330 | 17,330 | 17,330 | 17,330 | 17,330 |
| | PARAMETRICOS * * | VALOR
PRESENTE NETO | 5275798000.00 | 1090541000.00 | 271855700.00 | 78911050.00 | 24554220.00 | 6730162.00 | 238090.00 | -2217922.00 | -3078856.00 | -3267320.00 | -3166705.00 |
| R IQUIQUE (STAC | S SEGUN LIMITES | TOTAL COSTO
DESCONTADO | 648937900.00 | 158612400.00 | 57257290.00 | 29645430.00 | 19306780.00 | 14137960.00 | 10978940.00 | 8806604.00 | 7209674.00 | 5988093.00 | 5029167,00 |
| WATER SUPPLY PROJECT FOR IQUIQUE (STAKE I) | * * * PESULTADOS | TOTAL
BENEFICIOS BRUTOS
DESCONTADOS | 5924735000.00 | 1249154000.00 | 329113000.00 | 108556500.00 | 43861000,00 | 20868120.00 | 11217030.00 | 6588683,00 | 4130818.00 | 2720773.00 | 1862463.00 |
| WATE | | PASADA
No. | 9 | _ | · œ | | . 2 | 11 | 12 | 13 | 14 | 15 | 19 |

TABLE F, A.11: WATER PRODUCTION AND CONSUMPTION PROJECTIONS (IQUIQUE STAGE 1+II) Proyecciones de Produccion y Consumo de Agua>

<iquique Etapas [+]]>

| | | • | AVERAGE CON | SUMPTION | | AVERAGE P | RODUCTION |
|------|------------|---------------------------|---------------------------|----------------|------------|------------------|----------------|
| | POPULATION | CONSUMPTION
PER CAPITA | TOTAL CONSU | MPTION | WATER LOSS | TOTAL PRO | DUCTION |
| | | (Vc/d) | (m3/day) | (l/sec) | (%) | (m3/day) | (Vecc) |
| 1992 | 152,529 | | 22.554 | | | | |
| 1993 | • | 220.00
220.66 | 33,556
34 <i>,</i> 574 | 388.4
400.2 | 40 | 55,927 | 647.3 |
| 1994 | | 220.00 | 35,615 | 412.2 | 40
40 | 57,624
59,358 | 666.9 |
| 1995 | | 221.99 | 36,680 | 424.5 | 40 | 61,133 | 687.0
707.6 |
| 1996 | | 222.65 | 37,768 | 437.1 | 39 | 61,915 | 707.6
716.6 |
| 1997 | • | 223.32 | 38,882 | 450.0 | 38 | 62,713 | 715.8
725.8 |
| 1998 | | 223.99 | 40,022 | 463.2 | 37 | 63,527 | 735.3 |
| 1999 | | 224.66 | 41,188 | 476.7 | 36 | 64,357 | 744.9 |
| 2000 | | 225.34 | 42,386 | 490.6 | 35 | 65,209 | 754.7 |
| 2001 | | 226.01 | 43,605 | 504.7 | 34 | 66,068 | 764.7 |
| 2002 | | 226.69 | 44,857 | 519.2 | 33 | 66,950 | 774,9 |
| 2003 | | 227.37 | 45,945 | 531.8 | 32 | 67.567 | 782.0 |
| 2004 | | 228.05 | 47,451 | 549.2 | 31 | 68,770 | 796.0 |
| 2005 | 213,356 | 228,74 | 48,802 | 564.8 | 30 | 69,717 | 806.9 |
| 2006 | 218,697 | 229.42 | 50,174 | 580.7 | 30 | 71,677 | 829.6 |
| 2007 | 224,178 | 230.11 | 51,586 | 597.1 | 30 | 73,694 | 852.9 |
| 2006 | 229,776 | 230.80 | 53,033 | 613.8 | 30 | 75,761 | 876.9 |
| 2009 | 235,494 | 231.49 | 54,515 | 631.0 | 30 | 77,879 | 901.4 |
| 2010 | 241,379 | 232.19 | 56,045 | 648.7 | 30 | 80,065 | 926.7 |
| 2011 | 247,306 | 232.88 | 57,594 | 666.6 | 30 | 82,277 | 952.3 |
| 2012 | 253,407 | 233.58 | 59,192 | 685.1 | 30 | 84,559 | 978.7 |
| 2013 | 259,644 | 234.28 | 60,830 | 704.1 | 30 | 86,901 | 1005.8 |
| 2014 | 266,020 | 234.99 | 62,511 | 723.5 | 30 | 89,302 | 1033.6 |
| 2015 | 272,605 | 235.69 | 64,251 | 743.6 | 30 | 91,787 | 1062.3 |
| 2016 | 279,208 | 236,40 | 66,004 | 763.9 | 30 | 94,292 | 1091.3 |
| 2017 | 286,028 | 237.11 | 67,819 | 784.9 | 30 | 96,885 | 1121.4 |
| 2018 | 293,005 | 237.82 | 69,682 | 806.5 | 30 | 99,546 | 1152.2 |
| 2019 | | 238.53 | 71,594 | 828.6 | 30 | 102,277 | 1183.8 |
| 2020 | | 239.25 | 73,578 | 851.6 | 30 | 105,112 | 1216.6 |
| 2021 | | 239.97 | 75,571 | 874.7 | 30 | 107,959 | 1249.5 |
| 2022 | | 240. 69 | 77,639 | 898.6 | 30 | 110,914 | 1283.7 |
| 2023 | | 241.41 | 79,764 | 923.2 | 30 | 113,948 | 1318.8 |
| 2024 | + | 242.13 | 81,945 | 948.4 | 30 | 117,065 | 1354.9 |
| 2025 | | 242.86 | 84,186 | 974.4 | 30 | 120,266 | 1392.0 |
| 2026 | , | 243.59 | 86,488 | 1001.0 | 30 | 123,554 | 1430,0 |
| 2027 | | 244.32 | 88,853 | 1028.4 | 30 | 126,933 | 1469.1 |
| 2028 | | 245.05 | 91,283 | 1056.5 | 30 | 130,404 | 1509.3 |
| 2029 | • | 245.79 | 93,780 | 1085.4 | 30 | 133,971 | 1550.6 |
| 2030 | 390,821 | 246.52 | 96,347 | 1115.1 | 30 | 137,638 | 1593.0 |
| | | the second second second | | | | | |

Table F, A.12: Calculation of Periodic Cost (Iquique I + II) < Calculo de Costo Periodico (Iquique Etapas I+II) > (Unit: Thousand Pesos)

| | - 1 | | | | | | | | | | | | | | | | | | | : | | | | | | | | | | **: |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Periodic Cost | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 | 714,216 |
| Maintenance Total | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 | 702,696 |
| Personnel | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 | 11,520 |
| Year | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |

| With-Project Situation | Year 1996 199
Daries 60280 | Insular Works 0 1218521 Transmission 0 8567869 Distribution 0 382770 Becto: Works 0 0 | Component Jean Investment Donnstic 1996 Design 602883.78 542600.872 | | 1996 Incake Works 121852 82559-438 121852 82559-438 121852 82559-438 121852 8259-438 1259000 125000 125000 1250000 | Domentic Domentic 2003 Design 560126.64 504113.976 | | 2003 Intake Works 949402 645593.36
Transmission 7793332 5063808.8
Distribution 592490 383118.5
Electric Works | Investment Domestic Non-skilled Component Labor 602893.78 542600.802 9606315.59 62800402.724 263991.2413 |
|------------------------|-------------------------------|---|---|--|--|--|--|--|--|
| | 9661 7661 | 1281521
7869
7869
7773
382773
0 | Foreign
60288,978 | Foreign
378000.96
2851888.9
97583.0065 | Foreign 389926.72
2859342.5
125965.9563 | Foreign
56012.664 | Foreign
303808.64
2727743.2
207371.5 | Foreign
303808.64
2727743.2
207371.5
0 | Semi-skilled
Labor
90433.467
1193647.215 |
| | 2003 | 0000 | Labour
Non-skilled Sem
30144.489 | Non-skilled Sen
44887.614
211854.604
7249.02334 | Non-skilled Sen
46303.798
212408.3
9358.95675 | on-skilled
28006.332 | on-skilled
36077.276
202632.352-
15404.74 | Non-skilled Sen
36077.276
202632.352
15404.74 | Import Ott
Duty
6631.78758
366022.0153 |
| | 7000 | 949402
7793552
592490
0 | Import
Semi-skilled Duty
90433,467 64 | Semi-akilled Duty
30712.578
1124459.052
38475.58542 1 | Semi-skilled Duty
31681.546
1127397.9
49674.46275 1 | Semi-skilled Duty
142410.3 | Semi-skilled Duy
24684.452
1075510.176
81763.62 | Semi-skilled Duty
24684.452
1075510.176
81763.62 | Others For
Coc
415391.0584
4457182.251 |
| TILAK I | | 949402
7793552
592490
0 | oort
37
6631.78758 | y
41580.1056
313707.779
10734.13072 | 7, 42891,9392
314527,675
13858,45519
10428 | 6161.39304 | y
33418.9504
300051.752
22810.865 | 33418.9504
300051.752
22810.865 | Foreign Fore Component Exd 60288.978 |
| Investment | 1997 | 37268
219615
103964.41
0 | | | | | | | Foreign Labor
Exchange Adj. Adjus
3617,33868 B
199648,372 10 |
| | 86 61 | 0
196319
22813.125
0 | `. | | | | | | 5911.79365
045596.687 |
| Investment | 1996
602890 | 0000 | 4 | | | | | | 1
6632
66022.0153 |
| | 7961
0 | 1181253
8148254
278809
0 | | | | | | | Social Incremental
Investment
\$13964
8396345.26 |
| | 1866 | 359960
359960
158000 | | | | | | | Ada |
| | 560127 | | | | | | | | Administration Physical Engineering Cost Contings 12849.1 209908 6315 419 |
| | 7000 | 7793552
592490
0 | | | | | | | 25698.2
25698.2
9817.263 |
| | 200 | 592490
0 | | | | • | | | Investment 552511.3 552511.3 9026071.155 |

Table F, A.14: Calculation of Variable Cost (Iquique Stage I + II) < Calculo de Costo Variable (Iquique Etapas I+II)>

| | Hon | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | : | | |
|---|--|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|--|
| | Incremental Consumpt Incremental Consumption | (Thousand M.3) | 4,478 | 4.762 | 5,046 | 5,330 | 5,550 | 5,929 | 6,276 | 6,780 | 7,285 | 7,821 | 8,357 | 8,925 | 9,461 | 10,060 | 10,659 | 11,258 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 11,889 | 57206.59952 | |
| ١ | mp Inc | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | |
| | intai Con | (78ec) | 142 | 151 | 160 | 169 | 176 | 188 | 199 | 215 | 231 | 248 | 265 | 283 | 300 | 319 | 338 | 357 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | | |
| | ncreme | | | | | | | | ٠. | | • | .• | į | | | | | : | | | | <i>j</i> | | | - A- | | | | | | | ٠. | • | |
| • | • | resos) | 192,701 | 201,303 | 209,994 | 218,861 | 225,032 | 237,201 | 246,680 | 267,517 | 288,366 | 309,204 | 330,078 | 350,970 | 374,504 | 398,027 | 421,591 | 453,214 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 468,664 | 2302044.782 | |
| | Total Cost | (Thousand Pesos) | | | | | | | | | | | | | | | , | | | | - | | | | | | | | | | | | 2300 | |
| , | Cost
2 | Pesos) | 4,687 | 4,893 | 5,104 | 5,320 | 5,470 | 5,766 | 5,997 | 6,476 | 6,968 | 7,475 | 7,992 | 8,527 | 9,068 | 9,625 | 10,197 | 10,786 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | 11,392 | : | |
| | Chemical Cost | (Thousand Pesos) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | VPV | |
| | _ | | 188,014 | 196,410 | 204,890 | 213,541 | 219,562 | 231,435 | 240,683 | 261,041 | 281,398 | 301,729 | 322,086 | 342,443 | 365,436 | 388,402 | 411,394 | 442,428 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 457,272 | 4 | |
| • | Electric Cost | (Thousand Pesos) | | | | | | | | | | | | 3.
3. | | | | | | | | | | | | | • | | • | , | | | | |
| , | | - | 1995 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 5000 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | | |
| | 졁 | | | | | | | | | | | | | | | | | | | | | ٠ | | | ÷ | - | | | | | | | | |

Unitary Marginal Cost of Electric Energy and Chemical: \$40.24

Table F,A.15 SIMOP Results (Iquique: Stage I+II) <Resultados del SIMOP (Iquique Etapas I+II)>

| | D. 1 | 8 | |
|---------------------------------------|--------------------|-------------------|---|
| | NORMA DE DISTR.NO. | SIN NVOS CON NVOS | ************* |
| | ANDED | NVOS | ************** |
| | | CON SIN | 18203.
19685.
19688.
20136.
20136.
22223.
22223.
22223.
22223.
22223.
22223.
22223.
22233.
22233.
22233.
22233.
22233.
22233.
22233.
22233.
22233.
22233. |
| · | OFERIA TOTAL | SIN | 13724.
13939.
14153.
14582.
14582.
15011.
15011.
15011.
15011.
15011.
15011.
15011.
15011.
15011.
15011.
15011.
15011.
15011.
15011. |
| OFFERTA Y DEMANDA DE AGUA PROYECTADAS | | TOTAL | 18081.
19481.
20995.
22631.
26410.
26313.
26313.
33621.
33621.
33621.
44589.
44589.
41589.
61307.
66302.
71720.
71720.
71720.
106581.
11544.
125071.
115507.
115507. |
| EMANDA DE ACA | | w | 000000000000000000000000000000000000000 |
| OFERCTA Y D | - | 4 | 3992.
4366.
4774.
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| | NO POR GRUPOS | ო | 7522.
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23676.
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33470.
33485.
36485.
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36694.
61121.
66595.
72555. |
| | CONISUMO | 2 | 1727.
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1915.
2015.
2015.
2230.
2345.
2345.
2346.
2346.
2346.
2362.
3317.
3483.
3483.
4629.
4639.
6814. |
| | | H | 4839.
5065.
5302.
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11023.
11539.
12644.
13855.
14504.
15183.
16893.
16893. |
| | | Q | |

Table F,A.15 SIMOP Results (Iquique: Stage I+II) (Iquique Etapas I+II)>

HEN DE BENEFICIOS PARA EL GRUPO DE CONSUMIDORES NO. 1 (GRUPO EXISTENTE ANTERIORMENIE)

| RIORHERIE) | UTIOS | OS TOTAL | 472554. | .080188 | 629391. | 717926. | 811269. | 933279. | 1063557. | 1260631. | 1489831. | 1755003. | 2060902 | 2415073. | 2822264. | 3292587. | 3834583. | 4601226 - | 5176550. | 5825070. | 6556237. | 7380755. | 8310694. | 9359735. | 10543350. | 11879030. | 13386540. | 15088310. | 17009650. | 19179240. | 21629510. | |
|---|------------------------------|---------------------------------------|---------|---------------|---------------|---------------|----------------|-----------------|--------------|----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------|------------------------|----------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|--|
| CESTENTE ANTE | BENEFICIOS BOONOMICOS BRUTOS | IRO DE RECURS | 0 | 0 | 0 | 0 | 0 | 0 | Ö | 0 | 0 | • | o | • | Ö | d . | 0 | • | o | 0 | 3 | 0 | 0 | 0 | 6 | 6 | 0. | • | | .0 | | |
| 1 (GRUPO EXISTENTE ANTERIORMENTE) | BENEFICIOS E | CONSUMO NETO ARCHRO DE RECIRSOS TOTAL | 472554. | 551090. | 629391. | 717926. | 811269. | 933279. | 1063557. | 1260631. | 1489831. | 1755003. | 2060902 | 2415073. | 2822264. | 3292587. | 3834583. | 4601226- | 5176550. | 5825070. | 6556237. | 7380755. | 8310694. | 9359735. | 10543350. | 11879030. | 13386540. | 15088310. | 17009650. | 19179240. | 21629510. | |
| | | NETO CORIS | 1166. | 1234. | 1270. | 1305. | 1322. | 1373. | 1406. | 1472. | 1537. | 1599. | 1658. | 1714. | 1767. | 1817. | 1865. | 2017. | 1953. | 1890. | 1829. | 1770. | 1712. | 1655. | 1601. | 1547. | 1495. | 1445. | 1396. | 1348. | 1302. | |
| THO DE CONSUL | ÷. | N NIS | 3673. | 3624. | 3575. | 3524. | 3473. | 3420 | 3367. | 3267. | 3169. | 3074. | 2980. | 2889. | 2799. | 2712. | 2627. | 2544. | 2463. | 2384. | 2307. | 2232. | 2159. | 2088. | 2019. | 1951. | 1886. | 1822. | 1760. | 1700- | 1642. | |
| S PARA EL GR | CONISTUNO | NOO | 4839 | 4858. | 4845 | 4829. | 4795. | 4793. | 4773. | 4740. | 4707. | 4673. | 4638. | 4603. | 4566. | 4529. | 4492. | 4561. | 4416. | 4274. | 4136. | 4002 | 3871. | 3743. | 3619. | 3499. | 3381. | 3267. | 3156. | 3048. | 2943. | |
| RESUMEN DE BENEFICIOS PARA EL CRUPO DE CONSUMIDORES NO. | | PROY. | 00.00 | 5065 | 5302 | 5551. | 5810. | .6082 | 6367. | .6665. | .77.69 | 7303. | 7645. | 8003 | 8378. | 8770. | .0816 | 9610. | 10059 | 10530. | 11023. | 11539. | 12079. | 12644. | 13236. | 13855. | 14504. | 15183. | 15893. | 16637. | 17416. | |
| RESOME | | SIN | 000 | | | | | | | 599.25 1225.45 | 663.17 1418.79 | 734.23 1643.38 | 813.48 1904.41 | 901.26 2207.90 | 999.51 2560.95 | 1108.51 2971.80 | 1229.79 3450.16 | 1303.98 4007.35 | 1515.25 4656.64 | 1761.55 5413.56 | 2048.80 6295.32 | 311.09 2383.94 7326.27 | 311.09 2775.11 8528.41 | 1.86 9932.08 | 3765.39 ****** | 8.82 ****** | 5117.58 ****** | 5969.75 ****** | ****** 19-9969 | 8133.08 ***** | 8.49 ***** | |
| | PRECTO | CON. PROY | | 57776 | 311.09 | 311.09 | 311.09 | 311,09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 | | | 311.09 3231.86 | | | 311.09 | 311.09 | 311.09 | 311.09 | 311.09 9498.49 | |
| | | E. MAX | ! | 52 INDEFINIDO | 52 INDEFINIDO | OTHER TANDERS | OCHNISAME 25 - | - 52 TWDEFTNEDO | 52 DWEFTNIDO | 52 DADEFINIDO | -,52 INDEPTATIO | 52 INDEPTHIDO | 52 INDEFINIDO | 52 INDEFINIDO | 52 INDEFINIDO | 52 INDEPTINIDO | 52 INDEFINIDO | 52 INDEFINIDO | 52 INDEFINIDO | 52 INDEFINIDO | 52 INDEPTINIDO | 52 INDEFINIDO | 52 INDEPTINIDO | 52 INDEFINIDO | 52 INDEPINIDO | 52 INDEFINIDO | 52 INDEPTINIDO | 52 INDEFINIDO | 52 INDEPINIDO | | 52 INDEFINIDO | |
| | •• | ANO ELAST. | | , | i | | 21 1 | | | | | | | | | | | | | | | • | | | | | | | | 34 | 35 | |

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|---|------------------------------|---------------------------------------|---|
| TERIORMENT | RUTOS | SOS TOTAL | 181896.
217239.
252295.
252295.
372847.
37286.
426258.
426258.
647591.
647591.
1024048.
1133491.
1133491.
113491.
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11489392.
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| (GRUPO EXISTENTE ANTERIORMENTE) | CONOMICOS I | NO DE RECUE | 000000000000000000000000000000000000000 |
| 74 | BENEFICIOS ECONOMICOS ERUTOS | CONSUMO NETO ABORRO DE RECURSOS TOTAL | 181896.
217239.
252295.
220449.
372864.
426258.
426258.
426258.
426258.
1024048.
1133491.
1133491.
1133491.
1134512.
1245784.
1481392.
1481392.
1560486.
1653538.
1754869.
1803239.
1803239.
1891238.
189138.
189138. |
| SUMIDORES N | | METO | 4416.
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| SUPO DE CON | | NIS | 1311.
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| DE BENEFICIOS PARA EL GRUPO DE CONSUMIDORES NO. | CONSTUMO | X 00 | 1727.
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| DE BENEFICI | 1. | PROY. | 1727.
1819.
1915.
2015.
22120.
2236.
2345.
2759.
2759.
3159.
3483.
4437.
4437.
4437.
4437.
4656.
6814.
7144. |
| RESUMEN | | SIN | 562.99
684.31
684.31
684.31
687.45
971.45
971.86
971.86
1167.30
1167.30
1167.30
1186.00
1184.06
1184.06
1184.06
1188.28
1187.23
2055.67
2055.67
20334.79
2477.23
265.26
2779.36
3459.36
3459.36 |
| | oi: | PROY | 311.09
415.09
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535.35
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Table F,A.15 SIMOP Results (Iquique: Stage I+II) CResultados del SIMOP (Iquique Etapas I+II)>

| | ¥. | PRECIO | | OWIND | CONSUMO | | | BEN | CONOMICOS | EFICIOS ECONOMICOS BRUTOS | |
|---------------|-----------|-----------|--------------------|--------|-----------|-------|--------|---------------------------------------|-----------|---------------------------|---|
| ELAST. HAX | X CON | I. PROX | SIN | PROY. | 80 | NIS | NETO | CONSUMO NETO ABORRO DE RECURSOS TOTAL | RO DE REC | URSOS TOTAL | |
| 21 1820.81 | | 9 311.09 | 674.84 | 7522. | 7522. | 5710. | 1812. | 893433. | ď | 893433 | |
| | 09 311.09 | | | 8231. | 7895. | 5889. | 2005. | 1162784. | 0 | 1162784 | |
| 28 2118.01 | | | | 9003 | 8226. | .6909 | 2157. | 1474181. | 0 | 1474181. | |
| 33 2286.7 | | | Т | 9844. | 8564. | 6249. | 2314. | 1851744. | 0 | 1851744. | |
| 39 2470.40 | | 9 688.43 | • • | 10759. | 8879. | 6430. | 2449. | 2287568. | ċ | 2287568. | |
| 44 2670 | | | 1343.67 | 11755. | 9264. | 6611. | 2653. | 2858425. | 0 | 2858425. | |
| | | 9 956.21 | ٠. | 12841. | 9626. | 6791. | 2835. | 3517354. | 0 | 3517354. | |
| 56 3125 | | 9 1124.08 | _ | 14022. | 9972. | 6874 | 3098 | 4444880 | 0 | 4444880 | |
| 63 3383. | | 9 1310.86 | _ | 15309. | 10328. | 6954 | 3373. | 5564081. | 0 | 5564081. | |
| 71 3664. | 86 311.09 | 9 1519.00 | N | 16710. | 10692. | 7032. | 3659. | 6902620. | ö | 6902620. | |
| 79 3971.(| | 9 1750.84 | | 18236. | 11062. | 7108. | 3954 | 8492380. | . | 8492380. | |
| 87 4304. | | 9 2007.70 | N | 19897 | 11444. | 7182. | 4262- | 10380310. | • | 10380310. | |
| 97 4667 | | 9 2293.21 | .,, | 21706. | 11830. | 7253. | 4577. | 12599330. | o | 12599330. | |
| -1.06 5062 | | 9 2608.80 | ω, | 23676. | 12228. | 7322 | 4906. | 15212570. | o | 15212570. | |
| -1.17 5493. | | 9 2957.64 | 4 | 25821. | 12635 | 7389. | 5245. | 18275180. | o | 18275180. | |
| -1.22 5962.20 | | | | 28157. | 13364. | 7454. | 5910. | 22890130. | ं | 22890130. | |
| -1.39 6472.1 | 55 311.09 | 9 3767.82 | 4963.98 | 30700 | 13477 | 7517 | 5960 | 26020300. | • | 26020300. | |
| -1.58 7028. | | | | 33470 | 13586. | 7578. | 6008 | 29467710. | o | 29467710. | |
| | | 4885.8 | • | 36485 | 13691. | 7636. | 6055. | 33260880. | o · | 33260880. | |
| -2.00 8292./4 | | 2524.53 | 5/48./2
7/5E 27 | 39/69 | 12001 | 7740 | 6100. | 37430790. | 0.0 | 37430790. | |
| | 311.03 | | ` Œ | 47038 | 13985 | 7801 | 0140 | 47030000 | . | 47038800 | |
| 1 | | | 0 | 51478 | 14077 | 7851 | 6.20 A | 4700000
40449610 | ċ | # 7030000. | |
| 3.07 ***** | | 8726 | ועיי | 56094 | 14164. | 7900. | 6264 | 58599080 | . | 58588080 | 1 |
| -3.40 ****** | | 9718-4 | * | 61121. | 14249. | 7948. | 6301. | 65222590. | c | 65222590. | |
| -3.76 ****** | 311 | *** | **** | 66595. | 14330. | 7993. | 6337 | 72475620. | Ö | 72475620. | |
| -4-14 ***** | | ***** | ***** | 72555. | 14408. | 8036. | 6372. | 80414180. | 0 | 80414180. | |
| -4-57 ****** | 311 | ****** | ***** | 79046 | 14483. | 8078 | 6405. | 89099260. | 0 | 89099260. | |
| | 311. | | **** | 86113. | 14554. | 8118. | 6436. | 98597410. | ċ | 98597410. | |
| -5.52 ***** | 311.09 | ****** | | 93809. | 14623. | BIS6. | 6467. | 108380500. | င် | 108980500. | |

Table F,A.15 SIMOP Results (Iquique: Stage I+II) < Resultados del SIMOP (Iquique Etapas I+II)>

| PRECIO CONSUMO BENEFICIOS ECONOMICOS BRUTOS NO ELAST. MAX CON. PROY. SIN PROY. CON SIN NEIO CONSUMO NEIO AHORRO DE RECURSOS IOTAL 702 1322.52 311.09 312.43 598.84 4366. 4187. 3124. 1064. 50596. 0. 505996. 943 1322.52 311.09 398.36 640.68 4774. 4362. 3219. 1144. 594208. 0. 594201. 0. 594201. 1256 1322.52 311.09 447.62 680.39 5271. 4542. 3315. 1227. 689208. 0. 689208. 1158 1322.52 311.09 447.84 718.05 5710. 4772. 3413. 1300. 793604. 0. 783604. |
|---|
| FIAST. MRX CON. PROY. SIN PROY. CON SIN NEIO CONSUMO NEIO AHO -02 1322.52 311.09 312.92 598.84 4366. 4187. 3124. 1064. 59639643 1322.52 311.09 442.62 640.68 4774. 4362. 3219. 1144. 59639658 1322.52 311.09 442.62 680.39 5221. 4542. 3315. 1227. 68920858 1322.52 311.09 487.84 718.05 5710. 4712. 3413. 1300. 783604. |
| FIAST. MRX CON. PROY. SIN PROY. CON SIN NEIO CONSUMO NEIO AHO -02 1322.52 311.09 312.92 598.84 4366. 4187. 3124. 1064. 59639643 1322.52 311.09 442.62 640.68 4774. 4362. 3219. 1144. 59639658 1322.52 311.09 442.62 680.39 5221. 4542. 3315. 1227. 68920858 1322.52 311.09 487.84 718.05 5710. 4712. 3413. 1300. 783604. |
| FIAST. MRX CON. PROY. SIN PROY. COM SIN NEID 02 1322.52 311.09 311.09 554.78 3992. 3992. 3930. 962. 36 1322.52 311.09 398.36 640.68 4774. 4362. 3124. 1144. 50 1322.52 311.09 442.62 680.39 5221. 4542. 3219. 1144. 56 1322.52 311.09 487.84 7180.5 5740. 4712. 3413. 1300. |
| FRECIO ELAST. MAX CON. PROY SIN PROY. CON 02 1322.52 311.09 311.09 554.78 3992. 36 1322.52 311.09 398.36 640.68 4774. 4362. 50 1322.52 311.09 442.62 680.39 5221. 4542. 56 1322.52 311.09 487.84 718.05 5710. 4712. |
| FIAST. MAX CON. PROY SIN PROY. 02 1322.52 311.09 311.09 554.78 3992. 36 1322.52 311.09 352.43 598.84 4366. 43 1322.52 311.09 398.36 640.68 4774. 50 1322.52 311.09 442.62 680.39 5221. 56 1322.52 311.09 48.84 718.05 5210. |
| FIAST. MAX CON. PROY SIN PRO
02 1322.52 311.09 311.09 554.78
36 1322.52 311.09 352.43 598.84
43 1322.52 311.09 398.36 640.68
50 1322.52 311.09 442.62 680.39
58 1322.52 311.09 487.84 718.05
56 1322.52 311.09 557.75 |
| ELAST. MAX CON. PROY02 1322.52 311.09 311.0936 1322.52 311.09 352.4350 1322.52 311.09 442.6256 1322.52 311.09 442.6256 1322.52 311.09 487.8466 1322.52 311.09 555.49 |
| ELAST. MRX CON02 1322.52 311.0936 1322.52 311.0943 1322.52 311.0950 1322.52 311.0956 1322.52 311.09 |
| ELAST. MAX CON02 1322.52 311.0936 1322.52 311.0943 1322.52 311.0950 1322.52 311.0956 1322.52 311.09 |
| ELAST. MAX 02 1322.52 36 1322.52 43 1322.52 50 1322.52 56 1322.52 |
| ETAST
02
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| |

Table F,A.15 SIMOP Results (Iquique: Stage I+II) (Iquique Etapas I+II)>

| | | | · · | | BENER | BENEFICIOS Y COSTOS TOTALES | OS TOTALES | | . : | | | |
|------------|----------|---------------|-----------|------------------|------------|-----------------------------|------------|------------|----------------------------------|-------------------|---------|-----------|
| | | PENEFICIOS EX | TOS ECONO | CONOMICOS BRUTOS | | | PERTODIOS | COSTOS BCO | COSTOS ECONOMICOS BRUTOS | TOS
TOS
TOS | | BENEFICIO |
| ANO | | 7 | m | 4 | ۱Ω | TOTAL | P4 | ERIODICOS | PERIODICOS PRODUCCION SUMINISTRO | SUMINISTRO | TOTAL | NETOS |
| | | | | | | | | | | | | |
| - | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| · (2) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ξ
4., |
| | | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | • | |
| 4 | 0 | 0 | | 0 | 0 | • | 0 | 552511 | O | 0 | 552511 | -55251 |
| · | | | | 0 | Ó | 0 | 0 | 9026071 | | 0 | 9026071 | -902607 |
| 3 4 | | c | | 0 | ٥ | 0 | 0 | 9320702 | 0 | | 9320702 | -932070 |
| י ר | 472553 | 181895 | 89343 | 416414 | ٥ | 1964296 | 714216 | 0 | 175297 | 0 | 889513 | 107478 |
| ۰ ۵ | 551089 | 217238 | 116 | _ | ٥ | 2437008 | 714216 | Ö | 190985 | 0 | 905201 | 153180 |
| 9 | 629391 | 252295 | 147 | | | 2950128 | 714216 | 0 | 202406 | 0 | 916622 | 203350 |
| <u>ا</u> د | 717925 | 290449 | 1851 | 689208 | 0 | 3549327 | 714216 | | 214081 | 0 | 928297 | 262103 |
| } = | 811269 | 328847 | 2287 | 783604 | 0 | 4211288 | 714216 | 465291 | 223472 | 0 | 1402979 | 280830 |
| 12 | 933278 | 377286 | 2858 | 901385 | 0 | 5070375 | 714216 | 8753674 | 238954 | 0 | 9706844 | -4636461 |
| 15 | 1063557 | 426258 | 3517 | 1019095 | 0 | 6026265 | 714216 | 8753674 | 252151 | 0 | 9720042 | -369377 |
| 14 | 1260630 | 494147 | 4444880 | 1179553 | 0 | 7379212 | 714216 | 0 | 272202 | φ. | 986418 | 639279 |
| 15 | 1489831 | 568017 | 5564081 | 1352687 | 0 | 8974617 | 714216 | 0 | 293014 | 0 | 1007230 | 796738 |
| 9 | 1755003 | 647590 | 6902620 | 1537640 | 0 | 10842854 | 714216 | 0 | 314333 | 0 | 1028549 | 981430 |
| 1 | 2060902 | 732698 | 8492380 | 1733835 | 0 | 13019815 | 714216 | 0 | 336033 | 0 | 1050249 | 1196956 |
| 18 | 2415073 | 824091 | 10380309 | 1942954 | Ö | 15562428 | 714216 | | 358494 | 0 | 1072710 | 1448971 |
| 19 | 2822263 | 920856 | 12599329 | 2162634 | 0 | 18505084 | 714216 | 0 | 381210 | 0 | 1095426 | 1740965 |
| 50 | 3292587 | 1024048 | 15212565 | 2395306 | 0 | 21924506 | 714216 | 01 | 404686 | O (| 1118902 | 2080560 |
| 21 | 3834583 | 1133491 | 18275178 | 2640413 | 0 | 25883666 | 714216 | 0 | 428/9/ | > (| 1143013 | 24/4065 |
| 77 | 4601226 | 1309712 | 22890134 | 3042129 | Φ. | 31843200 | 714216 | 0 (| 478924 | 0 (| 1193140 | 3065006 |
| 23 | 5176549 | 1371389 | 26020300 | 3168079 | 0 0 | 35736320 | 714216 | 00 | 478923 | 00 | 1193140 | 3434318 |
| 7 1 | 5825070 | 1431271 | 29467/14 | 32890/I |) (| 40013128 | 91071 | o c | 478923 | o c | 1193140 | 4351867 |
| 92 | 0070000 | 1469591 | 33260660 | 2516984 | C | 49874312 | 714216 | 0 | 478923 | | 1193140 | 4868117 |
| 970 | 9310694 | 1600485 | 42011204 | 3624293 | | 55546676 | 714216 | | 478923 | 0 | 1193140 | 5435353 |
| | 9359735 | 1653538 | 47038800 | 3727419 | 0 | 61779492 | 714216 | • | 478923 | 0 | 1193139 | 6058635 |
| 200 | 10543353 | 1704984 | 52553608 | 3826539 | 0 | 68628480 | 714216 | 0 | 478923 | 0 | 1193139 | 6743534 |
| i
R | 11879025 | 1754869 | 58599076 | 3921825 | 0 | 76154792 | 714216 | 0 | 478923 | 0 | 1193139 | 7496165 |
| 31 | 13386544 | 1803238 | 65222592 | 4013448 | 0 | 84425824 | 714216 | 0 | 478923 | 0 | 1193139 | 8323268 |
| 25 | 15088310 | 1850138 | 72475616 | 4101562 | 0 | 93515624 | 714216 | 0 | 478923 | 0 | 1193140 | 9232248 |
| 33 | 17009650 | 1895616 | 80414184 | 4186328 | | 103505776 | 714216 | 0 (| 478923 | 0 | 1193140 | 10231264 |
| 9 | 19179240 | 1939721 | 89099256 | 4 | 0 (| 114486104 | 714216 | - | 478923 | . | 1193139 | 11329296 |
| 32 | 21629508 | 1982504 | 98597408 | ⊸ . | 00 | 126555824 | 714216 | 00 | 478924 | ۰. | 1193140 | 12536268 |
| 36 | 24397184 | 2024008 | 108980528 | 4421991 | 5 | 139823/12 | 07767/ | . | #760/# | > | O#10611 | TOGGGGT |
| | | | | | | | | | | | | |

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Table F,A.15 SIMOP Results (Iquique: Stage I+II) <Resultados del SIMOP (Iquique Etapas I+II)>

| VALOR PRESENTE DE LOS BENEFICIOS Y LOS COSTOS (TASA DE DESCUENTO- | FICIOS Y LOS COSTO | S (TASA DE DESCUENTO= | 000 | .120 | .120 | .120 | .120 | |
|--|--|-----------------------|-----|------|------|------|------|--|
| A. BENEFICIOS | OLINOH | | e. | | | | | |
| GRUPO 1
GRUPO 2
GRUPO 3
GRUPO 4
GRUPO 5 | 11189540.
2784339.
48706210.
6462477. | | | | | | | |
| SUBIOTAL | 69142570. | | | | | | | |
| B. COSTOS | | | | | | | | |
| PERIODICOS NO PERIODICOS VARIABLES DE PRODUCCION VARIABLES DE SUMINISTRO | 3264487.
16331450.
1305472.
0. | | | | | | | |
| SUBTOTAL | 20901400. | | | | | | | |
| C. VALOR NETO (A-B) 48:
TASA INTERNA DE RETORNO = 23.23 | 48241160.
3.23 | | | | | | | |

COSTO INCREMENTAL PROMEDIO (UM/M3) = 3738.7

8/11

Table F,A.15 SIMOP Results (Iquique: Stage I+II) CResultados del SIMOP (Iquique Etapas I+II)>

| OPTIME | |
|---------------|--|
| DE INICIACION | |
| ä | |
| ANALISIS | |

| INICIACION VALORCAMBIO PORCENTUAL PRODUCCION PRESENTE CON RELACION ACCUMULATIVO NETO AL ANTERIOR | 7 482411600 .0 .0
8 52017800. 7.8 7.8 7.8 7.8 7.8 14.8 10 58380170. 6.5 14.8 14.8 11 61006670. 4.5 21.0 21.0 13 65227420. 3.1 35.2 14.1 6887750. 1.9 41.1 16 69507020. 1.9 44.1 69507020. 1.9 694.5 19 69520501 0 692.161601 0 692.1 |
|--|--|
| INICIACION | |
| INICIACION
CONSTRUCCION | *
 |

Table F,A.15 SIMOP Results (Iquique: Stage I+II) CResultados del SIMOP (Iquique Etapas I+II)>

| | RICA 1.00 | | VALOR DEL
PARAMETRO | - 35
- 35
- 40 | 11111 | 1 | 1 | 1.15 | 1.32 | 1.22 |
|---------|--------------------------------------|--|--------------------------------------|---|---------------------------|---|---|---|--------------------------|----------------------------------|
| | PASADA PARAMETRICA 1.00 | | CAMBIO
PROCRESIVO
O CONSTANTE | | 1
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CONSUMIDORES
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 | |
| | AFTT FROMEL TRUITOR (STAGE 1 + L.I.) | RESUMEN DE PASADAS PARA AVALIZAR LA SENSIBILIDAD | 2. VAR. NOMERE DE LA
NO. VARLARLE | S ELASTICIDAD S ELASTICIDAD S ELASTICIDAD S ELASTICIDAD S ELASTICIDAD | C C C C | 5 ELASTICIDAD 5 ELASTICIDAD 5 ELASTICIDAD 5 ELASTICIDAD 5 ELASTICIDAD | 5 ELASTICIDAD
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니시요쇼 |
교정교육
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| 13 | 2 | | PASADA
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Table F,A.15 SIMOP Results (Iquique: Stage I+II) (Iquique Etapas I+II)>

| 0 | |
|----------------------------|--|
| 0 | |
| PASADA PARAMETRICA | |
| PASAD | |
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| + | |
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| r supply project iquique (| |
| PROJECT | |
| SUPPLY | |
| WATTER | |
| | |

| | COST. INCR.
PROMEDIO | 3730.72 | 3734.12 | 3736.80 | 3738.68 | 3739.12 | 3739.12 | 3739.12 |
|---|---|-------------|-------------|-------------|-------------|-------------|--------------|---------------|
| • | TASA DE
RETORNO | 18.280 | 19.540 | 20.980 | 22.670 | 24.990 | 29.260 | 40.640 |
| * * RESULTADOS SEGUN LIMITES PARAMETRICOS * * | VALOR
PRESENTE NETO | 21642300.00 | 27383510.00 | 33782810.00 | 41244860.00 | 54699900.00 | 109282100.00 | 1136760000.00 |
| S SEGUN LIMITES | TOTAL COSTO
DESCONTADO | 20856890.00 | 20875950.00 | 20890890.00 | 20901400.00 | 20903890.00 | 20903890,00 | 20903890.00 |
| * * * RESULTADO | TOTAL
BENEFICIOS BRUTOS
DESCONTADOS | 42499190.00 | 48259470.00 | 54673700_00 | 62146260.00 | 75603790.00 | 130186000,00 | 1157664000.00 |
| | PASADA
No. | . « | 0 | 12 | | 12 | 13 | 17 |

Table F,A.15 SIMOP Results (Iquique: Stage I+II) CResultados del SIMOP (Iquique Etapas I+II)>

| PASADA PARAMETRICA 2.00 | THE SYSTEM CHANGE CTITES | PROCEESIVO
O CONSTRATE | 1 CONSTRAITE -1.50 | 1 CONSTANTE -1.35 | 1 CONSTANTE -1.20 | 1 CONSTRUTE -1.05 | 1 CONSTRAINTE | | 1 CONSTANTE60 | 1 CONSTRAIR45 | 1 CONSTANTE30 | 1 CONSTRAIR15 | 1 CONSTRAINTE .00 | 1 CONSTRUCE .15 | 1 CONSTANTE .30 | 1 CONSTANTE -45 | 1 CONSTANTE .60 | 1 CONSTANTE .75 | 1 CONSTANTE .90 | 1 CONSTRAIR 1.05 | 1 CONSTANTE 1.20 | 1 CONSTANTE 1.35 | |
|---|--------------------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------|----|---------------|-----------------------------|---------------|---------------------------------------|---|-----------------|---|-----------------|-----------------------|-------------------------|-----------------|------------------------------|------------------|------------------------------|--|
| II) | (ZAR LA SENSIBILLIDA) | ORES | | | | | | 1 | ! | 1 | | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | 1 | 14 | 1 | 1 | | | 1 | | | 1 | |
| WATER SUPPLY PROJECT IQUIQUE (STAGE I + | RES | PASADA SEQ. VAR. NOMBRE DE LA
NO. NO. VARLABLE | 1 1 18 COSTOS NO PERIODICOS | 2 1 18 COSTOS NO PERIODICOS | 3 1 18 COGTOS NO PERIODICOS | 4 1 18 COSTOS NO PERIODICOS | ığ | ıβ | ٠Qi | 8 1 18 COSTOS NO PERLODICOS | NO PERI | ıβ | ıβ | وان | 1 18 0 | <u>S</u> | 1 18 COSTOS NO PERIOD | 6 1 18 COSTOS NO PERIOD | STOS NO PERIOR | 18 1 18 COSTOS NO PERIODICOS | 1 18 COSTOS NO | 20 1 18 COSTOS NO PERIODICOS | |

Table F, A.15 SIMOP Results (Iquique: Stage I+II) (Iquique Etapas I+II)>

* * * RESULTADOS SEGUN LIMITES PARAMETRICOS * * *

PASADA TOTAL

NO. BENETICIOS BRUTOS DESCONTADO PRESENTE NETO RETORNO PROMEDIO

PASADA PARAMETRICA 2.00

WATER SUPPLY PROJECT IQUIQUE (STAGE I + II)

| 168844100.00
144723500.00
120602900.00
100
96482330.00
100
48241160.00
24120580.00
11
-24120580.00
12
-24120580.00
12
-24120580.00
12
-24120580.00 | DESCONTADOS | | | , | | |
|--|-------------|--------------|--------------|---------|-----------|--------|
| -75580910.00 144723500.00 100.000 -51460340.00 120602900.00 100.000 -27339760.00 96482330.00 100.000 -32191740.00 72361740.00 100.000 2091400.00 24120580.00 15.320 69142570.00 -24120580.00 12.000 17.383700.00 -24120580.00 9.960 117383700.00 -72361750.00 7.340 2 | 69142570.00 | -99701500.00 | 168844100.00 | 100.000 | | |
| -51460340.00 120602900.00 100.000 | 69142570.00 | -75580910.00 | 144723500.00 | 100.000 | ****** | |
| -27339760.00 96482330.00 100.000 -3219174.00 72361740.00 100.000 23.230 45021980.00 24120580.00 15.320 69142570.00 -24120580.00 12.000 19263117383700.00 -48241160.00 8.490 141504300.00 -72361750.00 7.340 | 69142570.00 | -51460340.00 | 120602900.00 | 100,000 | -0204 A2 | |
| -3219174.00 72361740.00 100.000 20901400.00 48241160.00 23.230 45021980.00 24120580.00 15.320 69142570.00 -24120580.00 92661117383700.00 -72361750.00 7.340 2 | 69142570.00 | -27339760.00 | 96482330.00 | 100,000 | -4890 32 | 1.
 |
| 20901400.00 48241160.00 23.230
45021980.00 24120580.00 15.320
69142570.00 -24120580.00 9.960 1
117383700.00 -48241160.00 8.490 2
141504300.00 -72361750.00 7.340 | 69142570.00 | -3219174.00 | 72361740.00 | 100,000 | -575.82 | |
| 45021980.00 24120580.00 15.320 69142570.00 .00 12.000 12.000 13.263150.00 -24120580.00 9.960 117383700.00 -48241160.00 8.490 2141504300.00 -72361750.00 7.340 | 69142570.00 | 20901400.00 | 48241160.00 | 23, 230 | 3738 68 | |
| 69142570.00 .00 12.000 13.000 17.000 17.000 17.000 17.000 17.383700.00 -48241160.00 8.490 141504300.00 -72361750.00 7.340 7.240 7.24 | 69142570.00 | 45021980.00 | 24120580.00 | 15 320 | 8053 17 | |
| 93263150.00 -24120580.00 9.960
117383700.00 -48241160.00 8.490
141504300.00 -72361750.00 7.340 | 69142570.00 | 69142570.00 | 8 | 12.000 | 12367, 67 | |
| 117383700.00 -48241160.00 8.490
141504300.00 -72361750.00 7.340 | 69142570.00 | 93263150.00 | -24120580.00 | 9.960 | 16682.17 | |
| 141504300.00 -72361750.00 7.340 | 69142570.00 | 117383700.00 | -48241160.00 | 8.490 | 20996.67 | - |
| | 69142570.00 | 141504300.00 | -72361750.00 | 7.340 | 25311.17 | |

Table F, A.15 SIMOP Results (Iquique: Stage I+II) Resultados/del/SIMOP (Iquique Etapas I+II)>

| WATER SUPPLY PROJECT IQUIQUE (STAGE I + II) | MEN DE PASADAS PARA ANALIZAR LA SENSIBILIDAD | NOMBRE DE LA GRUPO DE CATEGORIA FLUJO CAMBIO VALOR DEL VARIABLE NO. PROGRESIVO PARAMETRO NO. O CONSTANTE NO. | ASA DE DESCUENTO | | | . ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | ASA DE DESCUENTO | ASA DE DESCUENTO | ENTO | ASA DE DESCUENTO | ASA DE DESCUENTO | BNTO | |
|---|--|--|-------------------|-------------------|---------------------|---|------------------|------------------|----------------------|---|------------------|---------------|-------------|
| ROJECT IQUIQUE (STAGE | RESUMEN DE PASADAS PARA | SEQ. VAR. NOMBRE DE LA
NO. NO. VARIABLE | TASA DE DESCUENTO | TASA DE DESCUENTO | TASA DE DESCUENTO | , E | | ıÄ | DE DESCU | DE DESCU | DE DESCL | TASA DE DESCU | |
| SUPPLY P | RES | SEQ. VAR. | 1 3 | 1 (F) | 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1
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: | 1 m | 1 1 1 1 |
| WATER. | | PASADA
NO. | 9 | 7 7 | 1
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! | 1
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1 | 1 01 | 11 - 1 | 12 |
 ET | 1
1 44
1 | 15. | ;
;
; |

Table F, A.15 SIMOP Results (Iquique: Stage I+II) (Iquique Etapas I+II)>

| PASADA
NO. | TOTAL
BENEFICIOS BRUTOS
DESCONTADOS | TOTAL COSTO
DESCONTADO | VALOR
PRESENTE NETO | TASA DE
RETORNO | COST. INCR. |
|---------------|---|---------------------------|------------------------|--------------------|-------------|
| 9 | 206974800.00 | 31423190.00 | 175551600.00 | 23.230 | 5620.73 |
| 7 | 163971700.00 | 28733860.00 | 135237900.00 | 23,230 | 5139.68 |
| 00 | 130791700.00 | 26389690.00 | 104402000.00 | 23.230 | 4720.38 |
| on. | 105039500.00 | 24332390.00 | 80707120.00 | 23.230 | 4352.39 |
| 10 | 84933580.00 | 22515430.00 | 62418160.00 | 23.230 | 4027.38 |
| 77 | 69142570.00 | 20901400-00 | 48241160.00 | 23.230 | 3738.68 |
| 12 | 56666540.00 | 19460030.00 | 37206510.00 | 23.230 | 3480.86 |
| 13 | 46750840.00 | 18166550.00 | 28584290.00 | 23.230 | 3249.49 |
| 14 | 38823160.00 | 17000600.00 | 21822560.00 | 23.230 | 3040.93 |
| ខេ | 32447370.00 | 15945270.00 | 16502090.00 | 23.230 | 2852.16 |
| 16 | 27289400.00 | 14986460.00 | 12302940.00 | 23.230 | 2680,66 |

