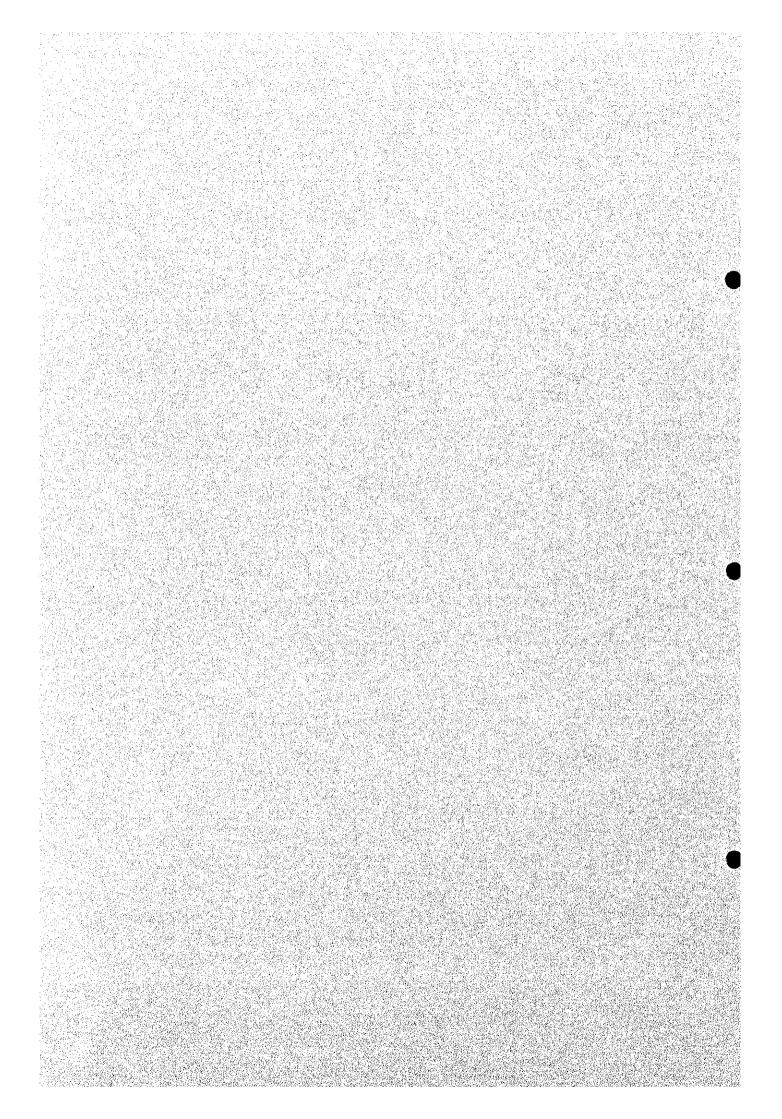
APPENDIX

for

CHAPTER 12



Appendix 12.4-1 Construction Cost for Financial Analysis

| | Subt | anemission | Line | Distri | bution Subet | ation | Teles | communica | tion . | Dis | tribution Sys | tem | Total |
|------|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|-----------|--------------|--------------|---------------|--------------|----------------|
| | Total | Value | Construction | Total | Value | Construction | Total | Value | Construction | Total | Value | Construction | Construction |
| FY | Construction | Added | Cost | Construction | Added | Cost | Construction | Added | Cost | Construction | Added | Cost | Cost for |
| 1 | Cost | • Так | Analysis | Cost | Тах | Analysis | Cost | Tax | Analysis | Cost | Tax | Analysis | Analysis |
| | · A | <u>B</u> | C-A-B | D | <u> </u> | F=D-E | <u> </u> | н | <u>1=G+H</u> | 20.245 | K | L=J+K | Ç+F+1+L |
| 996 | . 0 | 0 | 0 | 57,248 | 3,259 | 53,990 | 0 | 473 | 0776 | 38 345 | 2,183 | 36,162 | 90,15 |
| 997 | 28,048 | - | 26,451 | 125,444 | 7 142 | 118,303 | 2,948 | 173 | | 104 784 | 5,969 | 98,815 | 246,34 |
| 998 | 23,690 | 1,347 | 22,343 | | 5,152 | 85,316 | 2,433 | 143 | | | 4,448 | 73,644 | 183,59 |
| 999 | 39,904 | 2,272 | | 102,597 | 5,838 | 96,759 | 2,059 | 121 | 1,938 | 96,827 | 5,513 | 91,313 | 227.64 |
| 2000 | 116,044 | 6,616 | | | 8,692 | 144,073 | 3,088 | 181 | | 182,118 | 10,375 | | 428,15 |
| 2001 | 13,655 | 778 | 12,877 | 103,299 | 5,882 | 97,417 | 2,948 | 173 | 2,775 | 80,310 | 4,577 | 75,734 | 188,80 |
| 2002 | 0 | 0 | 0 | 0 | - 0 | . 0 | · 0 | 0 | 0 | 0 | 0 | . 0 | |
| 003 | 0 | 0 | 0 | 0 | 0 | • 0 | 0 | . 0 | 0 | 0 | 0 | 0 | ÷ . |
| 004 | 0 | 0 | 0 | · · · 0 | 0 | 0 | . 0 | 0 | . 0 | 0 | 0 | 0 | |
| 005 | 0 | . 0 | 0 | 156,370 | 8,901 | 147,469 | | 0 | 0 | 104,737 | 5,962 | 98,775 | |
| 006 | 330,478 | 18,839 | 311,639 | 234,556 | 13,352 | 221,204 | 6,784 | 398 | 6,386 | 383,004 | 21,828 | 361,176 | 900,40 |
| 007 | 0 | . 0 | 0 | 0 | <u> </u> | 0 | 0 | 0 | 0 | 0 | . 0 | . 0 | |
| 800 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | |
| 009 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 010 | | 0 | 0 | 107,226 | 6,103 | - 101,122 | 0 | . 0 | 0 | 71,820 | 4,088 | | 168,85 |
| 011 | 53,935 | 3,071 | 50,864 | 160,838 | 9,155 | 151,683 | 3,861 | 227 | 3,634 | 146,441 | 8,340 | 138,100 | 344,28 |
| 012 | 0 | | . 0 | 0 | O | 0 | 0 | 0 | O | 0 | 0 | 0 | 1 |
| 013 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | C | 0 | 0 | 0 | 0 | · · · · |
| 014 | 0 | 0 ¹¹ | 0 | 0 | 0 | 0 | 0 | C | 0 | 0 | 0 | 0 | |
| 015 | | · 0 | | | 5,141 | | | Ċ | - | 60,511 | 3,443 | 1 | 142,20 |
| 016 | 82,344 | 4,695 | 77,649 | 135,512 | 7,710 | 127,801 | 3,064 | 180 | 2,884 | 147,972 | 8,429 | 139,543 | 347.8 |
| | | - · | | | | | | | ; | | | | |
| otal | 688,097 | 39,213 | 648,884 | 1,516,665 | 86,327 | 1,430,338 | 27,184 | 1,595 | 25,589 | 1,494,960 | 85,156 | 1,409,804 | <u>3,514,6</u> |

Appendix 12.4-2 Calculation of FIRR

| Discounit | | | | | Cost | | | . Ber | efit | |
|---|-----|-------|-----------------------|-----------|---|------------|------------|--------------|------------|----------|
| ate | No. | ·FY | Construction | O&M | Energy Purchase | Total | PV | Energy Sales | PV | NPV |
| 1.7922% | 1 | 1996 | 90,152 | 0 | 1998 - Alexandre State (1997) Alexandre State (1997) | 90,152 | 80,642 | | 0 | -80,642 |
| | 2 | 1997 | 246.344 | 0 | eesting terret | 246,344 | 197,114 | | 0 | -197,114 |
| | 3 | 1998 | 183,593 | 10,110 | 149,811 | 343,514 | 245,873 | 182,224 | 130,428 | -115,444 |
| The Second | 4 | 1999 | 227 643 | 17,331 | 311 580 | 556 554 | 356,337 | 376,884 | 241,303 | -115,035 |
| $-10^{10} M_{\odot} M_{\odot}$ | 5 | 2000 | 428,151 | 24 078 | 480,371 | 932,600 | 534,120 | 580,228 | 332,309 | -201,811 |
| | 6 | 2001 | 188,802 | 38,457 | 672,390 | 899,650 | 460,899 | 808,025 | 413,958 | -46,940 |
| | 7 | 2002 | 0 | 49 544 | 838,744 | 888,287 | 407,075 | 1,006,645 | 461,314 | 54,240 |
| | 8 | 2003 | 0 | 49 544 | 1,000,908 | 1,050,452 | 430,611 | 1,200,263 | 492,023 | 61,412 |
| | . 9 | 2004 | 0 | 49,544 | 1,170,404 | 1,219,947 | 447,341 | 1,402,634 | 514,330 | 66,989 |
| an shine An an | 10 | 2005 | 246,244 | 49,544 | 1,343,158 | 1,638,945 | 537,589 | 1,608,895 | 527,733 | -9,857 |
| | 11 | 2006 | 900,406 | 49,544 | 1,518,269 | 2,468,218 | 724,200 | 1,818,283 | 533,502 | -190,697 |
| | 12 | 2007 | 0 | 89,824 | 1,695,955 | 1,785,779 | 468,696 | 2,030,450 | 532,912 | 64,210 |
| | 13 | 2008 | 0 | 89,824 | 1,875,911 | 1,965,735 | 461,506 | 2,245,326 | 527,147 | 65,64 |
| | 14 | 2009 | 0 | 89,824 | 2,058,138 | 2,147,960 | 451,094 | 2,462,911 | 517,237 | 66,14 |
| | 15 | | 168,854 | 89.824 | 2,242,571 | 2,501,249 | 469,879 | 2,683,136 | 504,048 | 34,16 |
| | 16 | | 344,281 | 89 824 | 2,429,937 | 2,864,042 | 481,280 | 2,906,140 | 488,354 | 7,07 |
| | 17 | 2012 | 0 | 108,755 | 2,585,826 | 2,694,581 | 405,040 | 3,092,255 | 464,817 | 59,77 |
| | 18 | | 0 | 108,755 | 2,741,774 | 2,850,529 | 383,284 | 3,278,439 | 440,821 | 57,53 |
| | 19 | | 0 | 108,755 | 2,897,664 | 3,006,419 | 361,604 | 3,464,554 | 416,707 | 55,10 |
| | 20 | | 142,268 | 108,755 | 3,053,554 | 3,304,576 | 355,540 | 3,650,669 | 392,776 | 37,23 |
| | 21 | | | 108,755 | 3,211,154 | 3,667,786 | 352,992 | 3,836,853 | 369,263 | 16,27 |
| | 22 | 2017 | | 126,555 | 3,211,154 | 3,337,710 | 287,342 | 3,836,853 | 330,312 | 42,97 |
| | 23 | 2018 | | 126,555 | 3,211,154 | 3,337,710 | 257,032 | 3,836,653 | 295,470 | 38,43 |
| | 24 | | | 126,555 | 3,211,154 | 3,337,710 | 229,919 | 3,836,853 | 264,303 | 34,38 |
| | 25 | | | 126,555 | 3,211,154 | 3,337,710 | 205,667 | 3,836,853 | 236,424 | 30,75 |
| | 26 | 2021 | a ng ding din | 126,555 | 3,211,154 | 3,337,710 | 183,972 | 3,830,853 | 211,485 | 27,51 |
| | 27 | 2022 | | 128,555 | 3,211,154 | 3,337,710 | 164,567 | 3,836,853 | 189,177 | |
| | 28 | | | 126,555 | 3,211,154 | 3,337,710 | 147,208 | 3,836,853 | 169,222 | 22,01 |
| | 29 | | | 126,555 | 3,211,154 | 3,337,710 | 131,680 | 3,836,853 | 151,372 | |
| ·. · · | 30 | | and the second second | 126,555 | | 3,337,710 | 117,790 | 3,836,853 | 135,405 | 17,61 |
| ter e se ter | 31 | 2026 | | 126,555 | | 3,337,710 | 105,365 | 3,836,853 | 121,122 | 15,75 |
| 1.1.1 | 32 | | | 126,555 | | 3,337,710 | 94,251 | 3,836,853 | 108,346 | 14,09 |
| · · | 33 | 2028 | | 126,555 | | 3,337,710 | 84,309 | 3,836,853 | 96,917 | 12,60 |
| | 34 | | | 126,555 | | 3,337,710 | 75,416 | 3,836,853 | 85,694 | 11,27 |
| an a | ~ | 1 | | | | | | | | |
| | | Total | 3,514,615 | 2 975 808 | 74,023,123 | 80,513,543 | 10,697,232 | 88,513,900 | 10,697,232 | l o |

155

B-C B/C 0

1.0000

| | | Construction Subtramsmin | | | | Construction Substa | | | İ | Construction Telecomme | | на на 1911 година 1911 година | | Construction Distribution | | | Total Const Cor |
|------|---------|-----------------------------|---------|-----------|-----------|------------------------|---------|-----------|----------|---|--------|-------------------------------------|-----------|------------------------------|-------------|-----------|-----------------------|
| | Total (| Foreign | Local | Local Vet | Total | Foreign | Local | Local Vat | Total | Foreign | Local | Local Vet | Total | Foreign | Local | Local Val | a+b+d+e |
| FY | (a)+(b) | (a) | (0) | (c) | (đ]+{+) | ശ | (0) | 0 | (a)+(h) | (0) | (h) | 0 | @+@ | 0 | 0 .) | | a+h+i+k |
| 1996 | 0 | 0 | 0 | ٥ | 57 248 | 32,393 | 24,855 | 3,259 | 0 | Q | . 0 | 0 | 38,345 | 21,697 | 16,648 | 2 183 | 95,5 |
| 1997 | 28,048 | 13,558 | 14,490 | 1,597 | 85,872 | 48,590 | 37,283 | 4,688 | 2,948 | 1,722 | 1,226 | 173 | 78,278 | 42,780 | 35,498 | 4 459 | 195,1 |
| | 28,048 | | | | 143,121 | | | | 2,948 | | | | 116,623 | | | | 290,7 |
| 1997 | 0 | 0 | 0 | · 0 | 39,572 | 24,525 | 15,047 | 2,254 | 0 | 0 | 0 | 0 | 26,505 | 16,427 | 10.078 | 1,509 | 66,0 |
| 1998 | 23,690 | 7,490 | 16,200 | 1,347 | 59,358 | 36,788 | 22,570 | | 2,433 | 1,421 | 1,012 | 143 | 57,255 | 30,609 | 26,646 | 3 262 | 142.7 |
| 1. | 23,690 | | | | 98,930 | | | | 2,433 | | | | 83,760 | | | | 208.8 |
| 1998 | 0 | . 0 | 0 | 0 | 31,110 | 19.967 | 11,143 | 1,772 | 0 | . 0 | 0 | 0 | 20,837 | 13,374 | 7,463 | 1,187 | 51,9 |
| 1999 | 39,904 | 19,367 | 20,536 | 2,272 | 46,664 | 29,951 | 16,713 | | 2,059 | 1 204 | 855 | 121 | 59,382 | 33,840 | 25,523 | 3,383 | 147.9 |
| | 39,904 | | | | 77.774 | | | | 2.059 | | | | 80,200 | | | | 199.5 |
| 1999 | 0 | 0 | 0 | Q | 55,933 | 33,114 | 22,820 | 3 181 | 0 | 0 | 0 | 0 | 37.464 | 22,180 | 15,285 | 2,131 | 93.3 |
| 2000 | 116,044 | 72,430 | 43,614 | 8,616 | 83,900 | 49,670 | 34,229 | | 3,088 | 1.805 | 1,283 | 181 | 135 991 | 82,992 | 52,999 | 7,749 | 339,0 |
| [| 115,044 | | | | 139,833 | | | | 3,068 | ., | -1 | | 173,455 | | 02,040 | 1,1-5 | 432.4 |
| 2000 | 0 | 0 | 0 | 0 | 68,856 | 40,474 | 28,392 | 3,921 | 0 | 0 | 0 | . 0 | 46,127 | 27,110 | 19,017 | 2,626 | 114.9 |
| 2001 | 13,655 | 7,878 | 5,777 | 778 | 103 299 | 60,711 | 42,588 | 5,882 | 2,948 | 1,722 | 1,226 | 173 | 80,310 | 47,094 | 33,216 | 4.577 | 200,2 |
| [| 13,655 | | | | 172 165 | | | | 2,948 | | | | 126,437 | | | | 315.2 |
| 2005 | 0 | . 0 | 0 | · 0 | 156,370 | 96,509 | 59,861 | 8,901 | 0 | . 0 | . 0 | . 0 | 104,737 | 64,642 | 40,095 | 5,962 | 261.1 |
| 2006 | 330,478 | 202,350 | 128,128 | 18,839 | 234,556 | 144 764 | 89,792 | 13,352 | 6,784 | 3,961 | 2,823 | 398 | 383,004 | 235,151 | 147,853 | 21,828 | 954,8 |
| [| 330,478 | 1. | 1.1 | | 390,926 | | | | 6,784 | | | | 487,741 | | | | 1,215.9 |
| 2010 | 0 | 0 | 0 | 0 | 107,226 | 61,330 | 45,895 | 5,103 | 0 | 0 | .0 | 0 | 71,820 | 41,079 | 30,741 | 4.088 | 179,0 |
| 2011 | 53,935 | 27,335 | 26,600 | 3.071 | 160,838 | 91,996 | 68,642 | 9,155 | 3,861 | 2,257 | 1,503 | 227 | 146,441 | 81,440 | 65,001 | 8,340 | 365,0 |
| . Í | 53,935 | | | | 268.064 | | | | 3,861 | -,201 | ., | | 218,261 | , | 00,001 | 0,340 | <u>565,0</u> 544,1 |
| 2015 | 0 | 0 | 0 | 0 | 90,341 | 53,388 | 36,953 | 5,141 | 0 | 0 | 0 | 0 | 60,511 | 35,759 | 24,751 | 3.443 | 150,8 |
| 2016 | 82,344 | 50,921 | 31:423 | 4,695 | 135,512 | 80,082 | 55,429 | 7,710 | 3,064 | 1,788 | 1,276 | 180 | 147 972 | 88 944 | 59,028 | 8,429 | 368,8 |
| . 1 | 82,344 | | | | 225,853 | | | | 3.064 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 100 | 208,483 | 00,811 | 53,028 | 0,425 | 519,7 |
| | | | | | | | | | - 0,00 1 | · 1 | | | | | | | |
| tal | 668,097 | 401.329 | 286,768 | 39,213 | 1.518.665 | 904 252 | 612,413 | 86,327 | 27,184 | 15,880 | 11,304 | 1.595 | 1,494,960 | 885 116 | 609.843 | 85,156 | 3,726,9 |

Appendix 12.5-2 Calculation of Interest during Construction

| | 1. A. | Luction Cost with before Escala | | | ruction Cost Tafter Escale | | | nterest during Construction | | Finar | cing for Cons | truction |
|-------|---|---------------------------------|-----------|-----------|--|-----------|--------------|--------------------------------|--------------|-----------|---|-----------|
| FY | Foreign a+d+a+i | Local b-c+ e-l+h-i+k-j | Total | Foreign | Local | Total | Foreign | Local | Total | Foreign | Local | Grand |
| 1996 | 54,090 | 36,062 | 90,152 | 55,280 | 37,637 | 92,918 | 1,935 | 2,446 | 4,381 | 57,215 | 40.084 | 97,299 |
| 1997 | 106,649 | 77,380 | 184,029 | 111,394 | 84,310 | 195,704 | 7 768 | 10 373 | 18 141 | 119,162 | 94.683 | 213,845 |
| | | | 274,181 | | | 288,621 | | | 22,523 | | | 311,144 |
| 1997 | 40,952 | 21,362 | 62,314 | 42,774 | 23,204 | 65,977 | 1,497 | 1,508 | 3.005 | 44,271 | 24,712 | 68,982 |
| 1998 | 76,307 | 58,297 | 134,605 | 81,455 | 66,357 | 147,813 | 5,845 | 7,330 | 13 175 | | 73,687 | 160,987 |
| | | | 196,919 | | | 213,790 | | | 16,180 | | | 229,970 |
| 1998 | 33,341 | 15,647 | 48,988 | 35,590 | 17,675 | 53,265 | 1,246 | 1 149 | 2,395 | 36,836 | 18,824 | 55,660 |
| 1999 | 84,362 | 55,195 | 139,557 | 92,034 | 65,399 | 157,433 | 5 712 | 6 549 | 12,261 | 97,746 | 71,948 | 169,694 |
| | | | 188,545 | | ан. 1913 - С. | 210,698 | | 1 | 14 656 | | | 225,354 |
| 1999 | 55,293 | 32,793 | 88,086 | 60,322 | 38,917 | 99,239 | 2 111 | 2,530 | 4 641 | 62,433 | 41,447 | 103,880 |
| 2000 | 206,899 | 112,808 | 319,706 | 230,682 | 138,849 | 369,530 | 12 296 | 14.084 | 26,381 | 242,978 | 152,933 | 395,911 |
| | 1. 1. A. A. | <u> </u> | 407,792 | | 1.11 | 468,769 | | 1.5 | 31,022 | | gewoden. | 499,791 |
| 2000 | 67,584 | 40,861 | 108,445 | 75,352 | 50,511 | 125,863 | 2,637 | 3,283 | 5,921 | 77 989 | 53,794 | 131,783 |
| 2001 | 117,405 | 71,397 | 188,802 | 133,780 | 91,935 | 225,715 | 9,957 | 12,542 | 22,499 | 143,737 | 104,477 | 248,214 |
| | | | 297,247 | | | 351,577 | - 1999 av 19 | | 28,420 | | (1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1, | 379,997 |
| 2005 | 161,151 | 85,093 | 246,244 | 200,328 | 129,702 | 330,030 | 7,011 | 8,431 | 15,442 | 207,340 | 138,133 | 345,472 |
| 2006 | 586,226 | 314,180 | 900,406 | 744,774 | 497,341 | 1,242,115 | 40,090 | 49 188 | 89 278 | 784,864 | 546,529 | 1 331 393 |
| | | | 1,146,650 | | | 1.572,145 | | | 104,721 | | | 1,676,866 |
| 2010 | | 66,445 | 168,854 | 141,940 | 127,577 | 269,517 | 4 968 | 8,292 | 13,260 | 146,908 | 135,869 | 282,777 |
| 2011 | 203,027 | 141,254 | 344,281 | 287,587 | 283,791 | 571,378 | 20,001 | 35,031 | 55,033 | 307 588 | 318,823 | 626,411 |
| | | | 513,136 | | | 840,895 | | | 68,293 | | | 909,188 |
| 2015 | 89,147 | 53,120 | 142,268 | 137,761 | 126,827 | 264,588 | 4,822 | 8,244 | 13,065 | 142,583 | 135,070 | 277,653 |
| 2016 | 221,735 | 126,142 | 347,878 | 350,190 | 310,447 | 660,637 | 21,900 | 36,667 | 58,566 | 372,090 | 347,114 | 719,203 |
| | | | 490,145 | | <u> </u> | 925,225 | | | 71,632 | | 110 58 110 | 996,857 |
| Total | 2,206,578 | 1 208 026 | 3 514 815 | 7 794 742 | 2 000 479 | 4,871,721 | 149,798 | 207.647 | المروح ومروا | 2,931,041 | | 5,229,166 |

Escalation

Foreign Currency Pc 2.2% Local Currency Port 5.0%

 $\{1, j, k\} \in \mathbb{N}$

 $(Z_{1,N}) = \{\chi^{*}, \chi^{*}\}$

1.000

156

Interest Rate

Foreign Currency Portion Local Currency Portion

n en trans Vien an tr

7.0% 13.0% Appendix 12.5-3 Operation and Maintenance Cost

| | | Subtranto | nissien Line | | L | Distribution | Substation . | 10 A. C. 10 | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | Telecomm | unic etcat | 1 | | Ontribution | Facilities | | Total |
|-----|-------------|--------------|--------------|------------|---------------|---------------------------------------|---|-------------|--|--------------|------------|-------------|-------------|---------------|------------|------------|----------|
| | C٥ | minuction Co | mit . | Operation | c | onstruction Cen | t | Operation | Com | stuction Cos | 1 | Operation | C. | ombuction Con | | Operation | Operat |
| γ | WHOW VAT | · · · | 1.5 | and | wethout VAT | : | | and | Whow VAT | | | | WHOLE VAT | <u> </u> | | - | and |
| | and it. | Exceletion | Total | Martanarco | and | Escalation | Total | Startonanca | and | Escalation | Total | Martiner, e | 2 74 | Escalation | Total . | Mentenance | Maintona |
| | Import Duty | 1.1 | <u> </u> | Cest | Import Cuty | 1.1.1 | | Cost | Import Duty | | 12.00 | Con | Import Cuty | | 1.11 | Cost | Cost |
| 196 | 0 | 0 | 0 | · · 0 | 51,191 | 1,595 | 52,786 | 0 | 0 | 0 | 0 | 0 | 34,288 | 1,068 | 35,356 | 0 | |
| 197 | 25,060 | 1,732 | 26,792 | 0 | 112,066 | 6,975 | 119,041 | · 0 | 2,087 | 108 | 2,195 | 6 | 93,245 | 5,904 | 99,150 | | |
| 98 | 21,379 | 2,652 | 24,030 | 804 | 80,618 | 7,265 | 87,883 | 5,378 | 1,722 | 135 | 1,857 | 88 | 69,471 | 6,733 | 76,204 | 4,379 | 10,0 |
| 199 | 35,653 | 5 118 | 40,771 | 1,551 | 91,875 | 11,444 | 103,319 | 9 361 | 1,460 | 155 | 1,615 | 165 | 86,396 | 11, 197 | 97,593 | 7,766 | 18 |
| xoo | 102,642 | 15,929 | 118,571 | 2,826 | 136,925 | 22,361 | 159,286 | 12 739 | 2,190 | 295 | 2,485 | 234 | 161,929 | 25,845 | 187,774 | 11,213 | 27 |
| 10 | 12,127 | 2,443 | 14,570 | 6,477 | 92,149 | 18,385 | 110,534 | 18,946 | 2,087 | 342 | 2,430 | 340 | 71,242 | 14,180 | 85,422 | 18,703 | 44 |
| x02 | 0 | 0 | 0 | 7,130 | 0 | 0 | 0 | 26,854 | 0 | 0 | 0 | 446 | | 0 | 00,111 | 24,654 | 59 |
| 03 | Ō | | | 7,367 | 0 | 'n | 9 Z ñ | 27 745 | 0 | | Ō | 459 | Ő | ň | Ň | 25,472 | 61 |
| X04 | 0 | | 0 | 7,611 | | 0 | . 0 | 28 666 | 0 | 0 | ò | 471 | ŏ | | ň | 26 316 | 63 (|
| 05 | 0 | 0 | 0 | 7,865 | 139,785 | 48,309 | 188,094 | 29,617 | ó | | | 485 | 93,628 | 32,357 | 125,986 | 27,189 | 65 |
| 66 | 292,616 | 113,182 | 405,797 | 8,126 | 209,678 | 81,211 | 290,889 | 30,600 | 4,802 | 1,557 | 6,359 | 498 | 339,653 | 131,248 | 470,900 | 28,090 | 67. |
| 07 | 101.010 | | | 20,570 | 100,010 | 01.211 | . 200,000 | 50 775 | 4,002 | | 0,000 | 766 | 335,033 | 131,240 | 470,900 | 52,897 | 125 |
| 08 | Ö | ő | ŏ | 21,254 | ŏ | Ň | | 52 460 | Ň | | ŏ | 788 | 0 | | Ň | | |
| 09 | ő | Å | Ň | 21,960 | ů | ň | | 54,200 | | | Ň | 810 | | | 0 | 54,650 | 129 |
| 10 | ŏ | | ŏ | 22,690 | 95,902 | 58,269 | 154,171 | 55,999 | | Ň | | 832 | 64.225 | 0 | 402.024 | 56,462 | 133 |
| 11 | 48,145 | 34,667 | 82,812 | 23,445 | 143,853 | 95,169 | 239,022 | 57,857 | 2,738 | 1,399 | 4 426 | 855 | 64,235 | 39,029 | 103,264 | 58,334 | 137 |
| 2 | -0,1-0 | 34,007 | 62,012 D | 26,708 | 143,633 | 50,105 | 239,022 | 75 504 | 2,135 | 1,355 | 4,136 | 1.044 | 130,434 | 87,901 | 218,335 | 60,268 | 142 |
| 13 | . 0 | Ň | 0 | 27,596 | 0 | 0 | · • | 78.010 | . v | | | | . 0 | 0 | 0 | 75,130 | 178 |
| 14 | 0 | | . 0 | | | Ű | | | -0 | | | 1.074 | Ű | 0 | 0 | 77,621 | 184 |
| 15 | . 0 | , v | | 28,514 | ¥ | | | 80,598 | .0 | | 0 | 1,103 | 0 | 0 | 0 | 80, 194 | 190 |
| 16 | 72.828 | 64,715 | | 29,461 | 80,967 | 70,946 | - 151,913 | 83 273 | 2,167 | 4 676 | • | 1,134 | 54,232 | 47,520 | 101,752 | 82,853 | 196 |
| 10 | 12,020 | 04,715 | 137,543 | 30,441 | 121,451 | 114,127 | 235,578 | 86,036 | 2,157 | . 1,575 | 3,742 | 1,166 | 131,580 | 120,843 | 252,423 | 85,599 | 203 |
| | | | | 35,579 | | | 1.5 | 104,390 | | | | 1,348 | | | | 102,604 | 243 |
| 18 | • | | 3 | 36,762 | | | 1a a 👘 | 107 854 | 1.1.1 | | | 1,385 | | Í | | 106,006 | 252 |
| 19 | | 1 A A | | 37,984 | | | 1.1 | 111 433 | | 1.1 | | 1,424 | | | | 109,520 | 260 |
| 20 | | | | 39,247 | | | | 115 131 | | | | 1,463 | | | | 113,151 | 268 |
| 21 | | | • | 40,551 | | | ÷ | 118,951 | | | | 1,504 | | | | 116,902 | 277 |
| 22 | | | 1 | 41,899 | | | | 122,898 | | | | 1,546 | | | | 120,778 | 287 |
| 23 | | | 4.11 | 43,292 | 1 N 1 1 1 1 1 | - 19 11 | | 126,976 | | 10 July 10 | | 1,589 | | | Sec. 1. | 124,782 | 296 |
| 24 | · · | | 1. T | 44,731 | | | | 131,189 | | | | 1,633 | | | | 128,919 | 306 |
| 5 | | · · | | 46,218 | | | | 135,542 | | | | 1,679 | | | | 133,193 | 316 |
| 26 | | | | 47,755 | | | | 140,040 | | | | 1,725 | | | | 137,609 | 327 |
| 27 | | | 1.0 | 49,342 | | | | 144,687 | | 1.1 | | 1,773 | | | | 142,171 | 337, |
| 28 | | | - e | 50,982 | | | | 149,486 | 1 A 1 | | | 1,823 | 1 | | | 146,884 | 349 |
| 29 | | | 1.11 | 52,577 | | | | 154,448 | | 199 | | 1,873 | | 111 g | | 151,754 | 350, |
| | | | | | | | | | | | | 1 | | 1.1 | | | |
| ļ | 610,449 | 240,437 | 850,886 | 869,415 | 1,356,460 | 536,056 | 1,892,515 | 2 527 545 | 19,254 | 5,567 | 24,820 | 33,523 | 1,330,333 | 523,824 | 1,854,158 | 2,492,063 | 5,922 |
| | | | 4 | | 1.1.1 | | 1.1 | | | | | | | | 11 A A | S | |
| | | a artigae | 114 (1997) | | | 1.11.1 | 1.5.2 | | | | | • | | | | 1.1 | |
| | | | | | - | | anti. Attación | | | - | | | | | | | |
| | | Арр | endix 1 | 2.5-4 | Energy | / Purch | ase ar | d Sales | 5 | | 11 | | | | | | |
| | | | | | ÷. | · · · · · · · · · · · · · · · · · · · | 1.1. J. | | | | | | | | | | |

| Appendix 1 | 2.5-4 E | Energy P | urchase | and Sales |
|--|---------|----------|---------|-----------|
| and the second | | | | |

| | 1.00 | | | y Purchase | <u></u> | | Energy | sales | 1 (B) |
|-----------|--------|-------------|----------------|--------------|-------------|-------------------------|-------------|--------------|------------|
| | | Incremental | Purchase Price | Purchase | Purchase | Incremental Energy | Sales Price | Sales | Sales |
| • | FY | Energy | of MEA | Baht | Dollar | without Street Lighting | of MEA | Baht | Dollar |
| | | A | В | C=AxB | | D | E : | F=DxE | |
| | | GWh | Baht/kWh | Million Baht | 1,000 USS | GWh | Baht/kWh | Million Baht | 1,000 USS |
| | 1998 | 2,696 | | 4,335.61 | 173,424 | 2,612 | 2.0194 | 5,273.68 | 210,94 |
| | 1999 | 5,607 | | 9,468.19 | 378,728 | 5,401 | 2.1203 | 11,452.62 | 458,10 |
| | 2000 | 8,644 | | 15,327.23 | 613,089 | 8,316 | 2.2263 | 18,513.35 | 740,53 |
| | 2001 | 12,099 | | | 901,067 | 11,580 | 2.3377 | 27,070.78 | 1,082,83 |
| | 2002 | 15,093 | 1.9549 | 29,504.92 | 1,180,197 | 14,427 | 2.4545 | 35,411.27 | 1,416,45 |
| | 2003 | 18,011 | | | 1,478,797 | 17,202 | 2.5773 | | 1,773,33 |
| | 2004 | 21,061 | 2.1553 | | 1,815,680 | 20,102 | 2.7061 | 54,398.63 | 2,175,94 |
| | 2005 | 24,170 | 2,2630 | 54,696.55 | 2,187,862 | 23,058 | 2.8414 | 65,518.02 | 2,620,72 |
| | 2006 | 27,321 | 2.3762 | | 2,596,755 | 26,059 | 2.9835 | 77,747.02 | 3,109,88 |
| | 2007 | 30,518 | Lat the second | 76,142.30 | 3,045,692 | 29,100 | 3.1327 | 91,159,89 | 3,646,39 |
| | 2008 | 33,756 | 2.6197 | 88,432.75 | 3,537,310 | 32,179 | 3,2893 | 105,847,40 | 4,233,89 |
| | · 2009 | 37,035 | | 101,874,20 | 4,074,968 | 35,297 | 3,4538 | 121,909.88 | 4,876,39 |
| | 2010 | 40,354 | 2,8883 | 116,553.62 | 4,662,145 | 38,454 | 3,6265 | 139,451,19 | 5,578,04 |
| | 2011 | 43,726 | | 132,606,18 | 5,304,247 | 41,650 | 3,8078 | 158,593.50 | 6,343,74 |
| | 2012 | 46,531 | 3,1843 | 148,169.04 | 5,926,762 | 44,317 | 3.9982 | 177,187.63 | 7,087,50 |
| | 2013 | 49,337 | 3.3435 | 164,960,17 | 6,598,407 | 46,985 | 4.1981 | 197,248.87 | 7,889,95 |
| | 2014 | 52,143 | | 183,056.32 | 7,322,253 | 49,653 | 4.4080 | 218,868.88 | 8,754,75 |
| | 2015 | 54,948 | 3.6862 | 202,549.68 | 8,101,987 | 52,320 | 4.6284 | 242,157.77 | 9,686,31 |
| | 2016 | 57,784 | 3.8705 | 223,653.89 | 8,946,156 | 54,988 | 4,8598 | 267,233.21 | 10,689,32 |
| | 2017 | 57,784 | 4.0641 | 234,836.59 | 9,393,463 | 54,988 | 5.1028 | 280,594.87 | 11,223,79 |
| | 2018 | 57,784 | 4.2673 | 246,578.42 | 9,863,137 | 54,988 | 5.3580 | 294,624.62 | 11,784,98 |
| | 2019 | 57,784 | 4,4806 | 258,907.34 | 10,356,293 | 54,988 | 5.6259 | 309,355,85 | 12,374,23 |
| · | 2020 | 57,784 | 4.7047 | 271,852.70 | 10,874,108 | 54,988 | 5.9072 | 324,823.64 | 12,992,94 |
| ÷. * | 2021 | 57,784 | 4.9399 | 285,445.34 | 11,417,814 | 54,988 | 6.2025 | 341,064.82 | 13,642,59 |
| | 2022 | 57,784 | 5,1869 | 299,717.61 | 11,988,704 | 54,988 | 6.5126 | 358,118.06 | 14,324,72 |
| | 2023 | 57,784 | 5.4462 | 314,703,49 | 12,588,139 | 54,988 | 6.8383 | 376,023.97 | 15,040,95 |
| | 2024 | 57,784 | 5.7185 | 330,438,66 | 13,217,546 | 54,988 | 7.1802 | 394,825,16 | 15,793,00 |
| | 2025 | 57,784 | 6.0045 | 346,960.59 | 13,878,424 | 54,988 | 7.5392 | 414,566.42 | 16,582,65 |
| | 2026 | 57,784 | 6.3047 | 364,308.62 | 14,572,345 | 54,988 | 7.9162 | 435,294.74 | 17,411,79 |
| · · · · · | 2027 | 57,784 | 6.6199 | 382,524.05 | 15,300,962 | 54,988 | 8.3120 | 457,059.48 | 18,282,37 |
| | 2028 | 57,784 | 6.9509 | 401,650.26 | 16,066,010 | 54,988 | 8.7276 | 479,912.45 | 19,196,49 |
| | 2029 | 57,784 | 7.2985 | 421,732.77 | 16,869,311 | 54,988 | 9,1639 | 503,908.08 | 20,156,32 |
| | Total | 1,332,022 | | 5,880,794,56 | 235,231,782 | 1,268,544 | | 7,029,549,13 | 281,181,96 |

| i | | Financ | ing for Constru | ction | 8 | epayment of Fi | oreign Currenc | ¥. | | Repayment of L | ocal Currency | |
|-----|-------|---------|---------------------------------------|-----------------|----------|----------------|----------------|---------|----------|--------------------------------------|--|-----------|
| No. | FY | Foreign | Locat | Total | Interest | Principal | Totai | Balance | Interest | Principal | Total | Balance |
| ļ | 1996 | 57,215 | 40,084 | 97,299 | | | | | | | | |
| | 1997 | 119,162 | 94,683 | 213,845 | | | | 176,378 | | | | 134,76 |
| . 1 | 1998 | . 1 | | | 12,348 | 4,302 | 16,649 | 172,075 | 17,520 | 10,564 | 28,084 | 124,20 |
| 2 | 1999 | | | | 12,045 | 4,604 | 16,649 | 167,472 | 16,146 | 11,937 | 28,084 | 112,26 |
| 3 | 2000 | | . ! | | 11,723 | 4,926 | 16,649 | 162,546 | 14,594 | 13,489 | 28,084 | 98,77 |
| . 4 | 2001 | · · ·] | | | 11,378 | 5,271 | 16,649 | 157,275 | 12,841 | 15,243 | 28,084 | 83,53 |
| 5 | 2002 | 1 | 1 | | 11,009 | 5,640 | 16,649 | 151,636 | 10,859 | 17,224 | 28,084 | 65,31 |
| 6 | 2003 | | · | | 10,615 | 6,034 | 16,649 | 145,601 | 8,620 | 19 463 | 28,084 | 46,84 |
| 7 | 2004 | |] | | 10,192 | 6,457 | 16,649 | 139,145 | 6,090 | 21,994 | 28,084 | 24,85 |
| 8 | 2005 | | 1 | · · | 9,740 | 6,909 | 16,649 | 132,236 | 3,231 | 24,853 | 28,084 | |
| 9 | 2006 | | 1 | | 9,257 | 7,392 | 16,649 | 124,844 | | | | |
| 10] | 2007 | | | | 8,739 | 7,910 | 16,649 | 116,934 | - | | · ·] | |
| 11 | 2008 | | 1 | . . | 8,185 | 8,463 | 16,649 | 108 471 | | | 1 | 5 |
| 12 | 2009 | - 1 I | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | · · · · | 7,593 | 9,056 | 16,649 | | | 1 (1 (1 (1) | | |
| 13 | 2010 | | | 12 | 6,959 | 9,690 | 16,649 | | | : . I | · · | |
| 14 | 2011 | l | | | 6,281 | 10,368 | 16,649 | 79,357 | . | | | |
| 15 | 2012 | | . 1 | | 5,555 | 11,094 | 16,649 | 68,263 | | | | |
| 16 | 2013 | | | | 4,778 | 11,870 | 16,649 | 56,393 | | · | 1.5 | gia en l' |
| 17 | 2014 | | · | · | 3,948 | 12,701 | 16,649 | 43,692 | | 4.87 | | ÷. |
| 18 | 2015 | 1 | | - 1 - 1 - 1 - 1 | 3,058 | 13,590 | 16,649 | 30,101 | | | | |
| 19 | 2016 | | 1 | | 2,107 | 14,542 | 16,649 | 15,560 | | | | |
| 20 | 2017 | | · · [| | 1,089 | 15,560 | 16,649 | 0 | · [| 2 - A. | 1997 - 19 | |
| | | | 1 | | | | | | · | | | 1.1.1 |
| . [| Total | 176,378 | 134 766 | 311,144 | 156,598 | 176,378 | 332,976 | | 89,902 | 134,766 | 224,668 | 1 |

ndiv 1255 Repow of Schadula of Dahi (Loop Supplied 1996 - 1997) .

Appendix 12.5-6 Repayment Schedule of Debt (Loan Supplied 1997 - 1998)

| 1.1 | . | Financ | ing for Constru | rction | R | epayment of Fe | oreign Currenc | <i>i</i> 1 | · · · | Repayment of L | ocal Currency | |
|------------|----------|--|-----------------|------------|--|----------------|----------------|--|----------------------|---|-------------------------------|------------|
| <u> (o</u> | _FY | Foreign | Local | Total | Interest | Principal | Tolai | Batance | Interest | Principal | Total | Balance |
| | 1997 | 44 271 | 24,712 | 68,982 | a | | 1 A A | | | | | |
| | 1998 | 87,301 | 73.687 | 160,987 | | | | 131,571 | | | | 98,39 |
| - 1 | 1999 | · | | · 1 | 9,210 | 3,209 | 12,419 | 128,362 | 12,792 | 7 713 | 20,505 | 90,68 |
| - 2] | 2000 | 1 | · · · · | | 8,985 | 3,434 | 12,419 | 124,928 | 11,789 | 8,716 | 20,505 | 81,97 |
| 3 | 2001 | | | | 8,745 | 3,674 | 12,419 | 121,253 | 10,656 | 9,849 | 20,505 | 72,12 |
| - 4 | 2002 | | | | 8,488 | 3,932 | 12,419 | 117,322 | 9,376 | 11,129 | 20,505 | 60,99 |
| . 5 | 2003 | | | | 8,213 | 4,207 | 12,419 | . 113,115 | 7,929 | 12,576 | 20,505 | 48,4 |
| 6 | 2004 | | | | 7,918 | 4,501 | 12,419 | 108,613 | 6,294 | 14,211 | 20,505 | 34,20 |
| 7 | 2005 | · [| | | 7,603 | 4,816 | 12,419 | 103,797 | 4 447 | 16,058 | 20,505 | 18,1 |
| - 8 | 2006 | · · · . | | | 7,266 | 5,154 | 12,419 | 98,643 | 2,359 | 18,146 | 20,505 | |
| 9 | 2007 | | 1. A. 1. A. 1. | · · · ·] | 6,905 | 5,514 | 12,419 | 93,129 | | | | |
| 10 | 2008 | | | | 6,519 | 5,900 | 12,419 | 87,229 | | | 5 L L | |
| 11 | 2009 | | | | 6,106 | 6,313 | 12,419 | 80,915 | | : | 1.1 | i i |
| 12 | 2010 | | 14 A A | 2 | 5,664 | 6,755 | 12,419 | 74,160 | | 1. S. M. C. | | e de la la |
| .13 | 2011 | | | | 5,191 | 7,228 | 12,419 | 66,932 | | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | - 11 A | 4. 1 - A |
| 14 | 2012 | Ì | | 1 | 4,685 | 7,734 | 12,419 | 59,198 | | - 10 A | | -1 |
| 15 | 2013 | · · • | | 1 - E | 4,144 | 8,276 | 12,419 | 50,922 | | | | |
| 16 | 2014 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | - ee - 1 | 3,565 | 8,855 | 12,419 | 42,067 | | | | 5 S. 19 |
| 17 | 2015 | - 1 - 1 - 1 | | 11 | 2,945 | 9,475 | 12,419 | 32 592 | ÷ • | 1 A 1 | 11000 | - i • |
| 18 | 2016 | . | | | 2,281 | 10,138 | 12,419 | 22,454 | 8 - 1 - 1 - 1 | - 1543 - A | $\{ (x,y) \in \mathcal{X} \}$ | |
| 19 | 2017 | | | | 1,572 | 10,848 | 12,419 | 11,607 | | | | |
| 20 | 2018 | · · | . 1 | · | 812 | 11,607 | 12,419 | 0 | | | | |
| | | | · · · | | | | Marka ang | · · · · · | and an in the second | | | · · |
| | Total | 131,571 | 98,398 | 229,970 | 116,817 | 131,571 | 248,388 | | 65,641 | 98,398 | 164,039 | 11 A. |
| ۰. | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | | De la composición de | | 1. A. 18. | 1 N N | | | 114 | ÷ |
| 11 | | | | | 1.1 | | and Angel | 1999 - | 1911 - 1920 - 19 | l viteri. | | N. 197 |
| | | Appendix 12 | 5-7 Repay | ment Scheo | Jule of Debt | (Loan Suppi | lied 1998 - 1 | 999) | Le per la companya | and generation | 100 B | |

.

ì

| | · L | Finan | cing for Constn | uction | <u> </u> | epayment of Fo | preign Currency | 2 A 19 A | <u></u> | Repayment of t | ocal Currency | |
|----|-------|-----------------|---|---------------------|----------------------|----------------|-----------------|--------------|-------------|----------------|---------------|--------------------------------|
| 4 | FY | Foreign | Local | Total | interest | Principal | Total | Balance | Interest | Principal | Total | Balance |
| 1 | 1998 | 36,836 | 18,824 | 55,660 | | · · · | 419 - 6124 | | R. A. | and the second | 122.0 | |
| | 1999 | 97,746 | 71,948 | 169,694 | | | | 134,582 | 1 | 1.5 | 1.44 | 90,7 |
| 1 | 2000 | | | i | 9,421 | 3,283 | 12,704 | 131,299 | 11,800 | 7,115 | 18,916 | 83,6 |
| 2 | 2001 | . 1 | • | • | 9,191 | 3,513 | 12,704 | 127,787 | 10,875 | 8,040 | 18,916 | 75,6 |
| 3 | 2002 | | | 127 | 8,945 | 3,759 | 12,704 | 124,028 | 9,830 | 9,066 | 18,916 | 66,5 |
| 4 | 2003 | | t an t | | 8,682 | 4,022 | | 120,006 | 8,649 | 10,267 | 18,916 | 56,2 |
| 5 | 2004 | | | | 8,400 | 4,303 | 12,704 | 115,703 | 7 314 | 11,601 | 18,916 | 44,6 |
| 6 | 2005 | | | ÷., | 8,099 | 4,604 | 12,704 | 111,099 | 5,806 | 13,109 | 18,916 | 31,5 |
| 7 | 2006 | | | | 7,777 | 4,927 | 12,704 | 106,172 | 4 102 | 14,814 | 18,916 | 16,7 |
| 8 | 2007 | - et - 19 - 1 | | $(1,1,2,\dots,2,1)$ | 7,432 | 5,272 | 12,704 | 100,901 | 2 176 | 16,739 | 18,916 | |
| 9 | 2008 | | | · | 7,063 | 5,641 | 12,704 | 95,260 | | | | 7.1 |
| 0 | 2009 | | | | 6,668 | 6,035 | 12,704 | 89,225 | 1.000 | 14.5.5 | | - <u>-</u> |
| 11 | 2010 | in di si | | · · · · | 6,246 | 6,458 | 12,704 | 82,767 | | | | |
| 2 | 2011 | | | | 5,794 | 6,910 | 12,704 | 75,857 | | | | ji ta s |
| 3 | 2012 | | · · } | 1.5 | 5,310 | 7,394 | 12,704 | 68,463 | | | | |
| 4 | 2013 | | | 1.1 | 4,792 | 7,911 | 12,704 | 60,552 | 1.1.1.1.1.1 | | | 1997) 1997 - Maria Maria |
| 5 | 2014 | . <u>5</u> | | | 4,239 | 8,465 | 12,704 | 52.087 | | | | in the second |
| 6 | 2015 | | | | 3,646 | 9,057 | 12,704 | 43,030 | | | | |
| 7 | 2016 | 11 - A 14 | | () (| 3,012 | 9,692 | 12,704 | 33 338 | | | 1 - E 1 - E | 1.15 |
| 8 | 2017 | 1. Sec. 1. | - A - A - A - A - A - A - A - A - A - A | | 2,334 | 10,370 | 12,704 | 22,968 | | | | 1996 - 199 1 |
| 9 | 2018 | - 11 (1 | | s. 1. 1. | 1,608 | 11,096 | 12,704 | 11.873 | | - X | | Section 1 |
| 0 | 2019 | | | | 831 | 11,873 | 12,704 | 0 | | | | |
| | | 1.1.1.1 | | | s a tradition of the | | | 20 13.d | 15 9 6 6 | | | 1997 F |
| Ľ | Total | 134,582 | 90,772 | 225,354 | 119.490 | 134.582 | 254,072 | an a saide i | 60,553 | 90,772 | 151,325 | 44 - Million 1997 - Million |

| | . (| Finan | cing for Constr | iction | , R | epayment of Fo | reion Currency | <u> </u> | ٩ | Repayment of Lo | cal Currency | <u></u> |
|-----|-------|---------|-----------------|-------------------------|----------|----------------|----------------|-----------------|----------|-----------------|--------------|---------|
| vo_ | 5FY [| Foreign | Local | Total | Interest | Principal | Total | Balance | Interest | Principal | Total | Balance |
| | 1999 | 62,433 | 41,447 | 103,880 | | | | | | | | |
| ÷. | 2000 | 242,978 | 152,933 | 395,911 | | | | 305,411 | | | | 194,38 |
| 1 | 2001 | | | | 21,379 | 7,450 | 28,829 | 297,962 | 25,269 | 15,237 | 40,506 | 179,14 |
| 2 | 2002 | · · · | | · . | 20,857 | 7,971 | 28,829 | 289,990 | 23,289 | 17,218 | 40,506 | 161,92 |
| 3 | 2003 | · · | | | 20,299 | 8,529 | 28,829 | 281,461 | 21,050 | 19,456 | 40,506 | 142,46 |
| 4 | 2004 | | | · · · · | 19,702 | 9,126 | 28,829 | 272 334 | 18,521 | 21,985 | 40,506 | 120,48 |
| 5 | 2005 | | | - 1 T 1 | 19,063 | 9,765 | 28,829 | 262 569 | 15,663 | 24,843 | 40,506 | 95,64 |
| 6 | 2006 | 1.1 | | | 18,380 | 10,449 | 28,829 | 252 120 | 12,433 | 28,073 | 40,506 | 67,56 |
| 7 | 2007 | 4 - C | - A. | $(1,1,2,\dots,2^{n-1})$ | 17,648 | 11,180 | 28,829 | 240 940 | 8,784 | 31,722 | 40,506 | 35,84 |
| 8 | 2008 | | 1997 - A. | | 16,866 | 11,963 | 28 829 | 228,977 | 4,660 | 35,846 | 40,506 | |
| 9 | 2009 | | | | 16,028 | 12,800 | 28,829 | 216 177 | | · · | | |
| 10 | 2010 | | | | 15,132 | 13,696 | 28 829 | 202 481 | | ĺ | | |
| 11 | 2011 | | | | 14,174 | 14,655 | 28,829 | 187,826 | | | | |
| 12 | 2012 | | | | 13,148 | 15,681 | 28,829 | 172 145 | | ľ | 1 | |
| 13 | 2013 | | | | 12,050 | 16,779 | 28,829 | 155,366 | | | 1 | |
| 14 | 2014 | | | | 10,876 | 17,953 | 28,829 | 137 413 | 1 | 1 | 1 | |
| 15 | 2015 | | | | 9,619 | 19,210 | 28,829 | 118,203 | 1 | | ſ | · · · |
| 16 | 2016 | | | | 8,274 | 20,554 | 28,829 | 97,649 | | | | |
| 17 | 2017 | | | | 6,835 | 21,993 | 28,829 | 75 656 | | | | |
| 18 | 2018 | | | | 5,296 | 23,533 | 28,829 | 52 123 | | | | 1.1 |
| 19 | 2019 | | | | 3,649 | 25,180 | 28,829 | 26 943 | 1 | | | · . · |
| 20 | 2020 | | | | 1,886 | 26,943 | 28,829 | ō | | 1 | | |
| -0 | | | | | ., | | | | | | | |
| - | Total | 305,411 | 194,380 | 499,791 | 271,162 | 305,411 | 576.574 | 1. ¹ | 129,669 | 194,380 | 324,049 | ÷., |

Appendix 12.5-8 Repayment Schedule of Debt (Loan Supplied 1999 - 2000)

Appendix 12.5-9 Repayment Schedule of Debt (Loan Supplied 2000 - 2001)

| · 1 | 1 | Finan | ting for Constn | uction. | . | epayment of F | oreign Currence | y <u>''</u> | | Repayment of | Local Currency | |
|--------------|--------|------------|-----------------|---------------------|----------|---------------|-----------------|-------------|---|--------------|----------------|--|
| No. | FÝ [| Foreign | Locai | Total | Interest | Principa! | Total | Baiance | Interest | Principal | Total | Balance |
| : | 2000 | 77,989 | 53,794 | 131,783 | | | | 1 | 100 A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A | | | |
| 14 e | 2001 | 143 737 | 104,477 | 248.214 | | | | 221,726 | = 10000 | | | 158,27 |
| 1 | 2002 | | · | $(X_{i}) = (Y_{i})$ | 15,521 | 5,409 | 20,929 | 216 318 | 20,575 | 12,406 | 32,982 | 145,86 |
| 2 | 2003 | 1 . L. Z | 1 - A | - 81 Fe | 15,142 | 5,787 | 20,929 | 210,531 | 18,962 | 14,019 | 32,982 | 131,84 |
| 3 | 2004 | Sec. 1 | an she | | 14,737 | 6,192 | 20,929 | 204,338 | 17,140 | 15,842 | 32,982 | 116,00 |
| - 4 | 2005 | 12.15 | se te i | 111 B. N. | 14,304 | | 20,929 | 197,713 | 15,080 | 17,901 | 32,982 | 98,10 |
| 5 | 2006 | | 1 | pine e l | 13,840 | | 20,929 | | 12,753 | 20,228 | 32,982 | 77,87 |
| 6 | 2007 | | | | 13,344 | 7,586 | 20,929 | 183,037 | 10 124 | | 32,982 | 55,01 |
| 7 | 2008 | | | | 12,813 | 8,117 | 20,929 | 174,921 | 7,152 | 25,829 | | 29,18 |
| А | 2009 | 1.2011.001 | | 1. A. | 12,244 | 8,685 | 20,929 | 166,236 | 3,794 | 29,187 | 32,982 | |
| : g | 2010 | | | | 11,636 | | 20,929 | | | | | ttan an a |
| 10 | 2011 | | | i | 10,986 | | 20,929 | 146 999 | | | | |
| 11 | 2012 | | | | 10,290 | | 20,929 | 136,360 | | | | |
| 12 | 2013 | | | : | 9,545 | 11,384 | 20,929 | 124 976 | | | 1 | 1 A A |
| 13 | 2014 | | | | 8,748 | | 20,929 | 112,795 | | | 1 | 4 4 <u>5</u> 5 |
| 14 | 2015 | · · · | | · · · | 7,896 | | 20,929 | 99,761 | , | | | a stalling i |
| 15 | 2016 | : | | : | 6,983 | | 20,929 | 85,815 | | - | | |
| 16 | 2017 | .: | | | 6,007 | 14,922 | 20,929 | 70,892 | | | | 1. A. A. |
| 17 | 2018 | | · · | | 4,962 | | 20,929 | 54,925 | | | 1 | |
| 18 | | а та | | | 3,845 | | 20,929 | 37,841 | 2 | 2 | 1 | |
| 19 | | | | . · · · | 2,649 | | 20,929 | 19,560 | | | | , 19 - 11 1 |
| 20 | | | | 1 | 2,049 | | 20,929 | | , | | | 1. |
| 20 | 2021 | it , , | | | 1,309 | 19,000 | 20,929 | : V | · . | 1.1 | | |
| н Х. с. 1 | Total. | 221 726 | 158,271 | 379,997 | 196,862 | 221,726 | 418,588 | 1.14 | 105,581 | 158,271 | 263,852 | 8 . E . L |

Appendix 12.5-10 Repayment Schedule of Debt (Loan Supplied 2005 - 2006)

| 1 | [| Financing for Construction | | | Repayment of Foreign Currency | | | | Repayment of Local Currency | | | |
|------|-------|----------------------------|-----------------|-----------|-------------------------------|-----------|-----------|-----------|---|-----------|-----------|---------|
| No. | _FY [| Foreign | Local | Total | Interest | Principal | Total | Balance | Interest | Principal | Total | Balance |
| | 2005 | 207,340 | 138,133 | 345,472 | 1.1 | | | | | . 1 | | |
| 1 | 2006 | 784,864 | 546,529 | 1,331,393 | | . 1 | | 992,204 | | | | 684,6 |
| 1 | 2007 | | | | 69,454 | 24,203 | 93,657 | 968,001 | 89,006 | 53,668 | 142,674 | 630,9 |
| 2 | 2008 | 1. A. I. | | · · · · | 67,760 | 25,897 | 93,657 | 942,104 | 82,029 | 60,645 | 142,674 | 570,3 |
| 3 | 2009 | | | · · · · | 65,947 | 27,710 | 93,657 | 914,394 | 74 145 | 68,529 | 142,674 | 501,8 |
| 4 | 2010 | | | | 64,008 | 29,649 | 93,657 | 884,745 | 65 236 | 77,438 | 142,674 | 424,3 |
| 5 | 2011 | | - 1. | . 1 | 61,932 | 31,725 | 93,657 | 853,020 | 55,170 | 87,505 | 142,674 | 336,8 |
| 6 | 2012 | | | I | 59,711 | 33,946 | 93,657 | 819,075 | 43,794 | 98,881 | 142,674 | 237,9 |
| 7 | 2013 | | · · | | 57,335 | 36,322 | 93,857 | 782,753 | 30,939 | 111,735 | 142,674 | 126,2 |
| 8 | 2014 | - · · · · | | | 54,793 | 38,864 | 93,657 | 743,888 | 16,414 | 126,261 | 142,674 | |
| - ēl | 2015 | [| | 1 | 52,072 | 41,585 | 93,657 | 702,304 | | | | |
| 10 | 2016 | | | | 49,161 | 44,496 | 93,657 | 657,808 | · [| 1 | | |
| 11 | 2017 | | | | 46,047 | 47,610 | 93,657 | 610,197 | | | | |
| 12 | 2018 | · · | | | 42,714 | 50,943 | 93,657 | 559,254 | [| | 1 | |
| 13 | 2019 | 4 | - 1 - L - L - L | * | 39,148 | 54,509 | 93,657 | 504,745 | 1 | 11 I. | | |
| 14 | 2020 | | | | 35,332 | 58,325 | 93,657 | 446,420 | . | | | |
| 15 | 2021 | 1.10 | | | 31,249 | 62,408 | 93,657 | 384,012 | | | | |
| 18 | 2022 | | | | 26,881 | 66,776 | 93,657 | 317,236 | | ł | | |
| 17 | 2023 | | | | 22,207 | 71,450 | 93,657 | 245,786 | .: I | | J | |
| 18 | 2024 | | | 1 A | 17,205 | 76,452 | | 169,334 | | | | |
| 19 | 2025 | | | | 11,853 | 81,804 | 93,657 | 87,530 | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | · | | |
| 20 | 2026 | | | | 6,127 | 87,530 | | o | | | | |
| - 1 | • | | | el a car | | | | general 👌 | | | | |
| | Total | 992,204 | 684 662 | 1,676,866 | 880,937 | 992,204 | 1 873,141 | | 455 734 | 684,662 | 1,141,395 | · · · · |

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Appendix 12.5-11 Repayment Schedule of Debt (Loan Supplied 2010 - 2011)

| | · · · · · · · · · · · · · · · · · · · | | | · | | | (1,000 US) | | | | | | |
|------|---------------------------------------|---------|---------|---------|----------------|---------------|------------|---------|----------|-----------|---------|------------|--|
| | ' L | Finance | | | Repayment of t | ocal Currency | | | | | | | |
| No | FY | Foreign | Local | Tolai | Interest | Principal | Total | Balance | Interest | Principal | Total | Balance | |
| | 2010 | 146,906 | 135,869 | 282,777 | | | 1 1 A | | | | | | |
| | 2011 | 307,588 | 318,823 | 626,411 | | | | 454,496 | | | | 454,692 | |
| - 1 | 2012 | 1 | | | 31,815 | 11,086 | 42,901 | 443,409 | 59,110 | 35,642 | 94,752 | 419,050 | |
| 2 | 2013 | | · · | | 31,039 | 11,863 | 42,901 | 431,547 | 54,477 | 40,275 | 94,752 | 378,775 | |
| - 3 | 2014 | · | | 1.1 | 30,208 | 12,693 | 42,901 | 418,854 | 49,241 | 45,511 | 94,752 | 333,264 | |
| - 4] | 2015 | · | | | 29,320 | 13,581 | 42,901 | 405,272 | 43,324 | 51,427 | 94,752 | 281,837 | |
| 5 | 2016 | | | Í | 28,369 | 14,532 | 42,901 | 390,740 | 36,639 | 58 113 | 94,752 | 223,723 | |
| 6 | 2017 | [| 1 | | 27,352 | 15,549 | 42,901 | 375,191 | 29,084 | 65,668 | 94,752 | 158,056 | |
| 7 | 2018 | 1 A A A | | | 26,263 | 16,638 | 42,901 | 358,553 | 20,547 | 74,205 | 94,752 | 83,851 | |
| 8 | 2019 | 1 | | | 25,099 | 17,802 | 42,901 | 340,751 | 10,901 | 83,851 | 94,752 | 0 | |
| ័ទ | 2020 | · | · · [| | 23,853 | 19,049 | 42,901 | 321,702 | | | | | |
| 10 | 2021 | 1 | | - | 22,519 | 20,382 | 42,901 | 301,320 | 1 | | | | |
| 11 | 2022 | | 1 | | 21,092 | 21,809 | 42,901 | 279,511 | | [| 1 | | |
| 12 | 2023 | 1 | [| | 19,566 | 23,335 | | 256,176 | 1 | | 1 | | |
| 13 | 2024 | |] | 1 | 17,932 | 24,969 | | 231,207 | | 1 | | | |
| 14 | 2025 | | | | 16,184 | 26,717 | 42,901 | 204,490 | · · [| 1 | | | |
| 15 | 2026 | | | | 14,314 | 28,587 | 42,901 | 175,903 | | | | | |
| 16 | 2027 | 1 | 1 | | 12,313 | 30,588 | | 145,315 | · | 1 | | | |
| 17 | 2028 | | | | 10,172 | 32,729 | 42,901 | 112,586 | · · · • | | [| | |
| 18 | 2029 | | · ·] | | 7,881 | 35,020 | 42,901 | 77,566 | | | ľ | • | |
| 19 | 2030 | | | | 5,430 | 37,472 | 42,901 | 40,095 | | | | - 1 - 1 | |
| 20 | | | · [| | 2,807 | 40,095 | 42,901 | ol | (| | (| 5 | |
| | | | | | ,_#/ | | | | | · · | · 1 | 1 | |
| · | Total | 454,496 | 454,692 | 909,188 | 403,528 | 454,496 | 858,023 | | 303,322 | 454,692 | 758,014 | | |

Appendix 12.5-12 Repayment Schedule of Debt (Loan Supplied 2015 - 2016)

| | | Financing for Construction | | | A | epayment of F | oraion Cumano | | | 1,000 US\$) | | |
|-----|-------|---|--------------|--|----------|---------------|---------------|---------|-----------|--------------|-------------------------|----------|
| No. | FY · | Foreign | Local | Total | Interest | Principal | Total | Balance | Interest | Principal | Local Currency Total | Balance |
| | 2015 | 142,583 | | the second s | | | 10.4 | | | C. NE XVIDAN | 1948 | Dakarice |
| | 2016 | 372,090 | 347 114 | | | | | 514,672 | | | | 482,184 |
| 1 | 2017 | | a si ta si t | | 36,027 | 12,554 | 48,581 | 502,118 | 62,684 | 37,797 | 100,481 | 444,388 |
| 2 | 2018 | | | | 35,148 | 13,433 | | 488,685 | 57 770 | 42,710 | | 401,677 |
| 3 | 2019 | | | | 34,208 | 14,373 | 48,581 | 474,311 | 52,218 | 48,263 | 100,481 | 353,414 |
| 4 | 2020 | | | | 33,202 | 15,380 | 48,581 | 458,932 | 45,944 | 54,537 | 100,481 | 298,877 |
| 5 | 2021 | e de la composición d | - · · · · · | | 32,125 | 16,456 | | 442,476 | 38,854 | 61,627 | 100,481 | 237,251 |
| 6 | 2022 | | | | 30,973 | 17,608 | 48,581 | 424,867 | 30,843 | 69,638 | | 167,612 |
| 7 | 2023 | | • | | 29,741 | 18,841 | 48,581 | 406,027 | 21,790 | 78,691 | 100,481 | 88,921 |
| 8 | 2024 | | | | 28,422 | 20,160 | 48,581 | 385,867 | 11,560 | 88,921 | 100,481 | 00,021 |
| 9 | 2025 | | | | 27,011 | 21,571 | 48,581 | 364,296 | , | | 100,701 | |
| 10 | 2026 | | | | 25,501 | 23,081 | 48,581 | 341,216 | · · · · · | | - | |
| 11 | 2027 | | | | 23,885 | 24,696 | 48,581 | 316,519 | · · . | | : | |
| 12 | 2028 | | · | : | 22,156 | 26,425 | 48,581 | 290,094 | | | | |
| 13 | 2029 | | | | 20,307 | 28,275 | 48,581 | 261,819 | | | | |
| 14 | 2030 | 3 | . 1 | | 18,327 | 30,254 | 48,581 | 231,565 | | | 1 | |
| 15 | 2031 | · · · · | | | 16,210 | 32,372 | 48,581 | 199,193 | | | | |
| 16 | 2032 | | | | 13,944 | 34,638 | | 164,556 | | | : | |
| 17 | 2033 | | | 1 | 11,519 | 37,063 | 48,581 | 127,493 | | | | |
| 18 | 2034 | | | | 8,925 | 39,657 | 48,581 | 87,836 | | | | |
| 19 | 2035 | | | | 6,149 | 42,433 | 48,581 | 45,403 | | | | |
| 20 | 2036 | | | | 3,178 | 45,403 | | | [| | | 1.1 |
| | | | | | 2, | | | ័ | . 1 | | | |
| | Total | 514,672 | 482,184 | 996,857 | 456,956 | 514,672 | 971,629 | | 321,662 | 482,184 | 803,847 | |

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Appendix 12.5-13 Statement of Profit and Loss

| | | | | | · · · · · · · · · · · · · · · · · · · | | | | (1,000 US\$) |
|---|-------|-------------|-----------|-------------|---------------------------------------|-------------|-----------------|---|--------------|
| | | | | Business | Expenses | | | Financial | |
| | | | O&M | Energy | | | Business | Cost | Net |
| | FY | Revenue | Cost | Purchase | Depreciation | Total | Profit | (Interest) | Profit |
| | | A . | В | С | D | E=8+C+D | F=A-E | G | H≃F⋅G |
| | 1998 | 210,947 | 10,648 | 173,424 | 14,143 | 198,215 | 12,732 | 29,866 | 17,134 |
| 1 | 1999 | 458,105 | 18,843 | 378,728 | 24,596 | 422,166 | 35,939 | 50,193 | -14,255 |
| | 2000 | 740,534 | 27,012 | 613,089 | 34,839 | 674,940 | 65,594 | 68,313 | -2,719 |
| | 2001 | 1,082,831 | 44,465 | 901,067 | 57,557 | 1,003,090 | 79,741 | 110,335 | -30,593 |
| | 2002 | 1,416,451 | 59,085 | 1,180,197 | 74,830 | 1,314,111 | 102,339 | 138,749 | -36,410 |
| | 2003 | 1,773,335 | 61,042 | 1,478,797 | 74,830 | 1,614,669 | 158,665 | 128,161 | 30,504 |
| | 2004 | 2,175,945 | 63,065 | 1,815,680 | 74,830 | 1,953,575 | 222,370 | 116,309 | 106,061 |
| | 2005 | 2,620,721 | 65,155 | 2,187,862 | 74,830 | 2,327,847 | 292,874 | 103,036 | 189,837 |
| | 2006 | 3,109,881 | 67,314 | 2,596,755 | 74,830 | 2,738,899 | 370,982 | 88,167 | 282,816 |
| | 2007 | 3,646,396 | 125,008 | 3,045,692 | 151,051 | 3,321,751 | 324,645 | 233,612 | 91,033 |
| | 2008 | 4,233,896 | 129,151 | 3,537,310 | 151,051 | 3,817,512 | 416,384 | 213,047 | 203,337 |
| | 2009 | 4,876,395 | 133,432 | 4,074,968 | 151,051 | 4,359,451 | 516,944 | 192,527 | 324,417 |
| | 2010 | 5,578,047 | 137,855 | 4,662,145 | 151,051 | 4,951,051 | 626,997 | 174,882 | 452,115 |
| | 2011 | 6,343,740 | 142,425 | 5,304,247 | 151,051 | 5,597,723 | 746,017 | 159,527 | 586,490 |
| | 2012 | 7,087,505 | 178,387 | 5,926,762 | 192,378 | 6,297,526 | 789,979 | 233,418 | 556,561 |
| | 2013 | 7,889,955 | 184,300 | 6,598,407 | 192,378 | 6,975,085 | 914,870 | 209,100 | 705,770 |
| | 2014 | 8,754,755 | 190,409 | 7,322,253 | 192,378 | 7,705,040 | 1,049,716 | 182,030 | 867,685 |
| | 2015 | 9,686,311 | 196,721 | 8,101,987 | 192,378 | 8,491,086 | 1,195,225 | 151,880 | 1,043,345 |
| | 2016 | 10,689,328 | 203,242 | 8,946,156 | 192,378 | 9,341,775 | 1,347,553 | 136,827 | 1,210,726 |
| | 2017 | 11,223,795 | 243,922 | 9,393,463 | 237,689 | 9,875,074 | 1,348,721 | 219,031 | 1,129,690 |
| | 2018 | 11,784,985 | 252,007 | 9,863,137 | 237,689 | 10,352,833 | 1,432,151 | 195,122 | 1,237,030 |
| | 2019 | 12,374,234 | 260,361 | 10,356,293 | 237,689 | 10,854,344 | 1,519,890 | 169,898 | 1,349,992 |
| | 2020 | 12,992,946 | 268,992 | 10,874,108 | 223,546 | 11,366,646 | 1,626,299 | 142,865 | 1,483,434 |
| | 2021 | 13,642,593 | 277,909 | 11,417,814 | 213,093 | 11,908,816 | 1,733,777 | 126,117 | 1,607,660 |
| | 2022 | 14,324,722 | 287,121 | 11,988,704 | 202,850 | 12,478,675 | 1,846,047 | 109,789 | 1,736,258 |
| | 2023 | 15,040,959 | 296,639 | 12,588,139 | 180,132 | 13,064,911 | 1,976,048 | 93,303 | 1,882,745 |
| | 2024 | 15,793,007 | 306,473 | 13,217,546 | 162,860 | 13,686,879 | 2,106,128 | 75,119 | 2,031,009 |
| | 2025 | 16,582,657 | 316,632 | 13,878,424 | 162,860 | 14,357,916 | 2,224,741 | 55,049 | 2,169,693 |
| • | 2026 | 17,411,790 | 327,129 | 14,572,345 | 162,860 | 15,062,333 | 2,349,456 | 45,942 | 2,303,514 |
| 1 | 2027 | 18,282,379 | 337,973 | 15,300,962 | 162,860 | 15,801,795 | 2,480,584 | 36,198 | 2,444,386 |
| | 2028 | 19,196,498 | 349,177 | 16,066,010 | 162,860 | 16,578,047 | 2,618,451 | 32,328 | 2,586,123 |
| • | 2029 | 20,156,323 | 360,753 | 16,869,311 | 86,638 | 17,316,702 | 2,839,621 | 28,188 | 2,811,434 |
| | | | | | | | | $\mathcal{L} = \mathcal{L} - \mathcal{L}_{\mathcal{L}}$ | |
| | Total | 281,181,965 | 5,922,648 | 235,231,782 | 4,656,054 | 245,810,484 | 35,371,481 | 4,048,927 | 31,322,553 |

Appendix 12.5-14 Cash Flow

(1,000 USS) Cash Inflow Cash Outflow Balance FY Financing Net Profit Depreciation Total Investment* Repayment Total Total Accumulated of Principal, 97,299 1996 92,918 92,918 97,299 0 -4,381 -4,381 261,681 1997 261,681 282,827 0 282,827 -21.147 -25,528 1998 201,078 17,134 216,647 14,143 198.087 14.866 231,513 58.955 -33.427 1999 -92,979 256.672 14,255 24,596 267.013 273.574 27,463 301.037 -34,024 2000 495,393 -2.719 34,839 527,513 527,695 40,963 568,658 -41,144 -134,123 2001 225,715 -30,593 57,557 252,678 248,214 68,276 316,490 -63,811 -197,934 2002 36,410 74,830 38,420 93,772 93,772 -55,352 -253,287 2003 30,504 74,830 105,334 104,360 104,360 974 -252,313 -187,635 2004 106.061 74,830 180.891 116.212 116,212 64,678 594,697 2005 330 030 189,837 74.830 345 472 129,485 474,957 119,740 -67,895 2006 1,242,115 282,816 74,830 1,599,760 1,331,393 116,272 1,447,665 152,095 84,200 2007 91,033 151,051 242,084 186,652 186,652 139,632 55,431 2008 203,337 151,051 354,388 188,302 188,302 166,086 305,718 2009 324,417 151.051 475.468 168,316 612.870 168.316 307,152 2010 269 517 452,115 151,051 872,682 282.777 152,980 435 756 436,926 1,049,796 2011 571,378 586,490 151,051 1,308,919 626,411 168,334 794,745 514,174 1,563,970 2012 556,561 192,378 748,939 232,096 232,096 516,842 2,080,812 2013 705,770 192,378 898,148 256,414 256,414 641,734 2,722,546 867,685 283,484 2014 192.378 1.060.063 283,484 776 579 3,499,125 264,588 192,378 277.653 170,960 2015 1,043,345 1,500,311 448,613 4.550.822 1,051,697 2016 660,637 1,210,726 192,378 2,063,741 719,203 186,013 905,216 1,158,525 5,709,347 2017 1,129,690 237,689 1,367,379 252,872 252,872 1,114,508 6,823,855 2018 1,237,030 8,038,442 237,689 1,474,719 260,132 260,132 1,214,587 1,349,992 2019 237,689 1.587.682 272,936 272.936 9,353,187 1.314.745 1.483.434 2020 223 546 1,706,980 192,513 192,513 10 867 655 1,514,467 2021 1,607,660 213,093 1,820,754 180,433 180,433 1,640,321 12,507,975 2022 1,736,258 202,850 1,939,108 175,831 175,831 1,763,276 14,271,252 2023 1,882,745 180,132 2,062,877 192,318 192,318 1,870,559 16,141,811 2.031.009 162,860 2.193.868 210,502 210,502 2024 1,983,367 18,125,178 162,860 130,091 2025 2,169,693 2.332.552 130.091 2,202,461 20.327.639 2026 2,303,514 162,860 2,466,374 139,197 139,197 2,327,176 22,654,815 2027 2,444,386 162,860 2,607,245 55,284 55,284 2,551,961 25,206,777 162,860 2,748,982 59,154 2028 2,586,123 59,154 2,689,828 27,896,605 2029 2.811.434 86,638 2,898,072 63,295 63.295 2,834,777 30,731,382 4 656 054 40 850 328 4 889 780 Tota 4 871 72 31 322 553 5,229,166 10 118 946 30 731

* Note: Investment including interest during construction

| Appendix 12.5-15 | Calculation of Debt Service | Ratio |
|------------------|-----------------------------|-------|
| | | |
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| | T | | | | | | nt of Debt | | (1,000 US\$) |
|--------------|--------------------|--------------|--------------|---------------------------------------|-----------|-----------|------------|---|--------------|
| - | | | and Procured | · · · · · · · · · · · · · · · · · · · | | Debl | | | |
| FY | Business Profit | Depreciation | Total | Accumulated | Interest | Principal | Total | Accumulated | Service |
| 1996 | | | | (A) | · | | | (B) | Ratio(A/B) |
| 1997 | | | | | | | 1 | | · · · |
| 1998 | | 14,143 | 26,875 | 26,875 | 29,866 | 14 000 | 44 700 | 4.4 700 | |
| 1999 | 35,939 | 24,596 | | | | | | | 0.60 |
| 2000 | | 34,839 | 100,433 | | | | | 4 · · · · · · · · · · · · · · · · · · · | 0.71 |
| 2001 | 79,741 | 57,557 | 137,298 | 325,141 | | 1 · · · · | | 231,665 | 0.81 |
| 2002 | 102,339 | 74,830 | | 502,310 | | 4 | | 410,276 | 0.79 |
| 2003 | 158,665 | 74,830 | 233,495 | 735,805 | | | F | | 0.78 |
| 2004 | 222,370 | 74,830 | 233,495 | | | | | | |
| 2005 | 292,874 | 74,830 | 367,704 | 1,033,005 | | F ' | | 1,107,840 | 0.93 |
| 2006 | 370,982 | | | 1,400,709 | | | | 1,340,362 | 1.05 |
| 2007 | 324,645 | 151,051 | 445,612 | 1,846,521 | 88,167 | | 4 | 1,544,800 | |
| 2008 | 416,384 | 151,051 | | 2,322,217 | 233,612 | | 420,265 | 1,965,065 | |
| 2009 | 516,944 | 151,051 | 567,435 | 2,889,651 | | 188,302 | 401,349 | 2,366,413 | 1.22 |
| 2003 | 626,997 | 151,051 | 667,995 | 3,557,646 | | · · | | 2,727,256 | 1.30 |
| 2010 | 746,017 | | 778,048 | 4,335,694 | 174,882 | | | 3,055,118 | 1.42 |
| 2012 | 740,017 | 151,051 | 897,068 | 5,232,762 | 159,527 | 168,334 | 327,861 | 3,382,979 | 1.55 |
| 2012 | 914,870 | | 982,357 | 6,215,119 | 233,418 | | | 3,848,493 | 1.61 |
| 2013 | | 192,378 | 1,107,248 | 7,322,367 | 209,100 | 256,414 | 465,514 | 4,314,007 | 1.70 |
| 2014 | 1,049,716 | 192,378 | 1,242,093 | 8,564,460 | 182,030 | 283,484 | 465,514 | 4,779,522 | 1.79 |
| 2015 | 1,195,225 | 192,378 | 1,387,603 | 9,952,063 | 151,880 | 170,960 | | 5,102,362 | 1.95 |
| 2010 | 1,347,553 | 192,378 | 1,539,931 | 11,491,994 | 136,827 | 186,013 | 322,840 | 5,425,201 | 2.12 |
| 2017 | 1,348,721 | 237,689 | 1,586,410 | 13,078,404 | 219,031 | 252,872 | 471,902 | 5,897,104 | 2.22 |
| | 1,432,151 | 237,689 | 1,669,841 | 14,748,244 | 195,122 | 260,132 | 455,253 | 6,352,357 | 2.32 |
| 2019 | 1,519,890 | 237,689 | | 16,505,824 | 169,898 | 272,936 | 442,834 | 6,795,191 | 2.43 |
| 2020 2021 | 1,626,299 | 223,546 | 1,849,846 | 18,355,669 | 142,865 | 192,513 | 335,379 | 7,130,569 | 2.57 |
| | 1,733,777 | 213,093 | 1,946,871 | 20,302,540 | 126,117 | 180,433 | 306,550 | 7,437,119 | 2.73 |
| 2022 2023 | 1,846,047 | 202,850 | 2,048,897 | 22,351,437 | 109,789 | 175,831 | 285,620 | 7,722,740 | 2.89 |
| | 1,976,048 | 180,132 | 2,156,180 | 24,507,617 | 93,303 | 192,318 | 285,620 | 8,008,360 | 3.06 |
| 2024 | 2,106,128 | 162,860 | 2,268,987 | 26,776,604 | 75,119 | 210,502 | 285,620 | 8,293,981 | 3.23 |
| 2025 | 2,224,741 | 162,860 | 2,387,601 | 29,164,205 | 55,049 | 130,091 | 185,140 | 8,479,120 | 3.44 |
| 2026 2027 | 2,349,456 | 162,860 | 2,512,316 | 31,676,521 | 45,942 | 139,197 | 185,140 | 8,664,260 | 3.66 |
| | 2,480,584 | 162,860 | 2,643,444 | 34,319,964 | 36,198 | 55,284 | 91,483 | 8,755,743 | 3.92 |
| 2028 | 2,618,451 | 162,860 | 2,781,311 | 37,101,275 | 32,328 | 59,154 | 91,483 | 8,847,225 | 4.19 |
| 2029 | 2,839,621 | 86,638 | 2,926,260 | 40,027,535 | 28,188 | 63,295 | 91,483 | 8,938,708 | 4.48 |
| Total | 35,371,481 | 4,656,054 | 40,027,535 | | 4,048,927 | 4,889,780 | 8,938,708 | | |

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