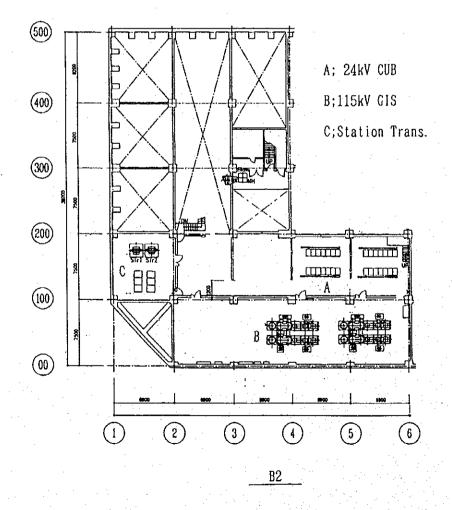
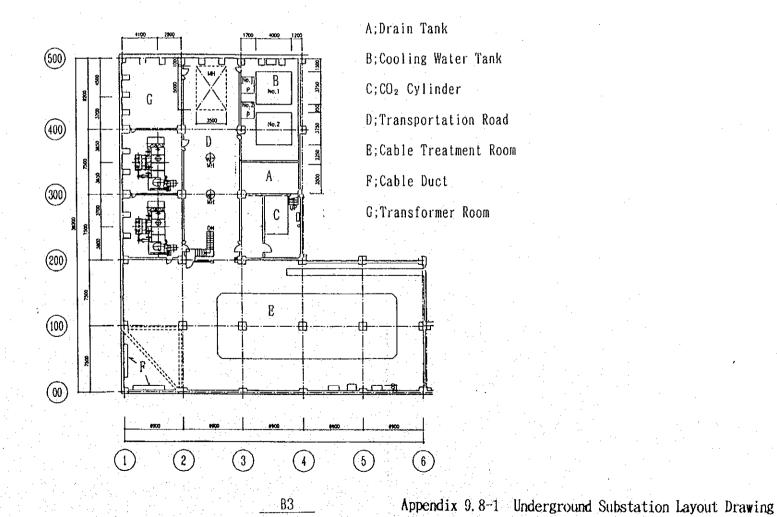
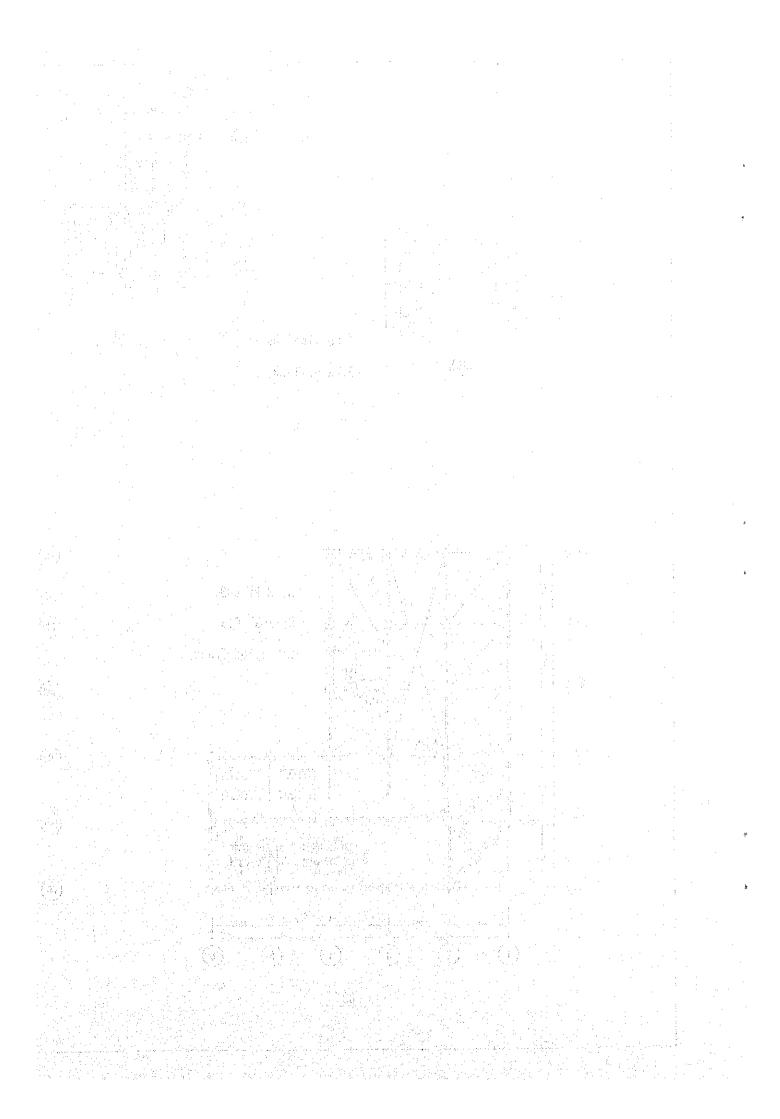


Story	Floor Area
Roof	150. 38 m²
B1	155. 25 m²
B2	983. 25 m²
В3	983. 25 m²
pipe shaft B1~F9	40.66 m²
	Total 2,312,79 m²







Appendix 9.9 - 1

Outlines of Gas Insulated and Oil Immersed Transformers

	300MVA	0.1	275kV 300MVA
Gas insulate	ed transformer	Oll	immersed transformer
13. 0m		12. 7 m	
5.0m	7. 5 m	7.0m	7. 7m
Floorage	98m ² (100%) 13.0m × 7.5m	Floorage	98m ² (100%) 12.7m × 7.7m
Volume 13.	488m³ (71%) 0m × 7.5m × 5.0m	Volume	685m³ (100%) 12.7m × 7.7m × 7.0m

APPENDIX

for

CHAPTER 10

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115k* Transaission Line

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69th Transmission Line

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<u>,</u>	16-067 16-067 16-067	16-001 CONDU T/S - RANINTRA T/S 16-002 LINE RATHERAN T/S (4CAL) TO 36 CONSTRUCTED	"	Zcht 4cht	2016	85 64	12	16.90	354. 52 .00	48. D2 5. 40	161.47	\$ 16 88	167.86	2,8	т. 2.5	29°1	83, 8	88, 45	16.15	3,24	1, 391, 67	1. 475 T. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27.
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r G	Project Name	No of Circut	Tear	2x400 sq.mm, 2x800 sq.mm.	2x800 sq. mm.	₹	ន	8	말	5	9	8	33	EO.		2			23	lotol
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16-003	16-003 EATBUTANA T/S - NAJAO BA.	it i	2016		#C	\$3.	21.13	2.30	7.90	26.	4.65	GI .	2.17	90	22	2.31	F.	3.57	4G.36	£ 53
16-00H	16-004 EATBURANA T/S - Na.340 Bet,	Jekt	50165		1.7	8	21.85	8	7. 46	60	8	8.	2.05	8	8	2	ξ.	8		. E
18-005	16-005 EXTRUBANA T/S - Ne.349 Rd.	John	2016		1.5	8	10.2x	8	£. 59	90.	3, 87	00.	=	80.	8	1.33	-99.	8.	. F.	3
36-95	16-006 RECHCRANCSIT T/S - NAUNCTHONGS D/S	lckt	2016	•	2.5	3.47	32.13	13.21	10.98	1.3	6,46	1.17	20 rs		1.32	1731	1.73	2.43		12
16-407	16-007 ELONCRAMCSIT T/S - MAUNCINCHO D/S	Tept.	2016	4.5	1.5	2.61	19. 28	9.9	6.59	-	78 5	*6	1.5	- 55	8	1.93	- 99.	16.08	34.13	50.21
18-049 1	16-049 LIM S/S BANGEROAY	2cht	2016			90.	23.	8.	.27	8.	ĸ	.00	=	8.	99	113	-63	8	28	25
100-91	16-001 LINK S/S BANCFAKG	2cht	2016		- - -	8.	2	94.	.27	8.	22	96.	17,	8	8	12	. E	8	28	
128-91	16-027 LINE S/S BAWFLA	Zckt	3016		-B	8.	2	00.	.27	8	22	86.	Ę	8	99	-13	. 8	8	2.96	2 5
16-025	16-925 T/S BANGBOR - S/S KLONCDAN	lckı	2016	4	6.0	t.	3.56	13.23	1.32	1.91	£	1.17	-%.	×	23	હ	-13	23. €3	- E2	28.26
920-91	16-030 LINE S/S KLONGDAN	lckt	2016		6.0	9.	3.85	00.	1.32	.00	1	8	28.	8.	3	.33	=	8	- 23	5.3
22-91	16-022 LINE S/S ELONGGRATIAN	2cht	2016			33	1.23	1.47	.27	.26	25	4	.1	90-	~	22.	8	1, 52	8	S
50 -9 -9	16-065 S/S LUNTACSRE - RAN INTHRA Rd.	2ckt	2016	6.7	9	8	2	3.82	.27	7.	.25	\$6.	Π,	£5.	66.	52.	E.	17.57	28	19.64
16-003	16-963 LINC S/S POWGFETCH	ij	2016			8	1. 29	6.	¥	8.	52	8	. 12	2	00	11.	3	8	2.23	2,2
16-007	16-007 LING S/S PUTTARONDOR	lckt	2016		9	8	1.33	0.	¥.	8-	26	00.	-12	S.	8,	Ε.	8.	8	23	2.2
16-014	16-014 S/S RAJBARRI - RAIA 4 RG.	Zckr.	2		7.7	8	30.50	96	7.9	8.	5.91	8.	197	8.	8	3.00	Ţ	- 8.	40,50	49.50
16-00-31	16-009 THE FRONT OF S/S SHIMPLEE S/S TALINICIAAN	<u>G</u>	3102	70		1. 97	1.23	7.49	ź	** **	32	35	. 12	92.	52.	5	8	12.15	2.23	¥.
2- 9-9-	16-410 T/S TALINGCHAN - S/S TLINGGRAN	lckt	2016	7	6.3	2.78	3.86	10.57	. 3 2	1.53	L	£	92.	£2.	8	S	£.	17.15	3	13
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AS TAINSING - SVT AMADITA BAG-31		Icki	3016	2	1.1.	1.02	12.4	4.17	7.42	. 59	3.73	æ.	1.81	01.	745	7	Ε.	3	20.25	40.72
16-009 INTROPARA T/S - SUISATAT Ed.		정	2016	- 27	- 2	70.	16.27	÷.17	25	3	8.0	96.	8	=	45	3	\$9.	3	30.0%	36.72
15-010 PATRIDEANA T/S - SUISATAT Ed.		ŧ	5018	Ξ	20	2.5	5, 42	22.91	2.18	1.23	1.1	2.0	33	Z.	2.23	ž	22	9 28	10.01	46.73
8/4 HOSOMAL GOODBA 110-31		lch	2016	-	Š	- 5 9.	5. 42	.21	2 18	8	Ξ	. 02	£,	<u>=</u>	.02	₹.	22	ह	10.01	10.35
16-612 LING POGJAO D/S		Jehr	2016		5	8	1.08	3	Ŧ	8.	22	90	=	8	00	=	Ž	8.	2.00	2.00
16-813 LINC 8A7THERED DAS		ig.	9102		9	8.	1.08	90	7	8,	22	00.	Ξ	8	9	=	ş	8	2.00	20.00
GALL MORTH MANCHON T/S - SANSON D/S		or I	2016	4.	0.6	2.33	6.51	6	2. 62	1.38	£.	26	25	23	ξ.	9.	36	15.04	12.01	27.45
18-975 LINE S/S MANUAL	i di	Jekt	3016		6	8	88	8	Ŧ	8.	22.	8	=	8	90.	=	ě	8	2.00	2.00
CC. A.C. 1198 S./S TANCSON		Ter.	9102		- <u>-</u>	8	8	8	Ŧ	8,	22	8	Ŧ	8.	8	=	5	8	2.8	2.00
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Appendix 10.5-2 Construction Expenses for Terminal Stations

Docori	Voltage	Canadity	Construction	Expenses	(Willion Baht)
	(kV)	(MVA)	FC		Total
Completed in FY 1997					
1. Direct Cost					***************************************
1.1 Material & Construction Costs					
(1) Addition of South Thonburi T/S (2) Addition of Klongrangsit T/S (3) Addition of Nangiok T/S	230 - 69 230 - 115 230 - 115	$3 \times 200 \rightarrow 4 \times 200$ $1 \times 200 \rightarrow 2 \times 200$ $2 \times 200 \rightarrow 2 \times 200$	2. 555 16. 674 16. 674	2. 100 5. 250 5. 250	4. 655 21. 924 21. 924
1.2 Acquisition of Land			0	0	0
Sub-total			35, 903	12.600	48, 503
2. Indirect Cost					
9.15			9 600	3, 395	3.395
(2) Contingency (3) Import Duty			3	3.955	3.955
				3.672	3.672
《《···································					
-Sub-total			3.590	12. 282	15.872
Total			39, 493	24.882	64.375

Appendix 10.5-2. Construction Expenses for Terminal Stations

Description	Voltage	Capacity	Construction	Expenses	(Willion Baht)
	(kV)	(MVA)	FC	гс	Total
Completed in FY 1998					
1. Direct Cost					
1.1 Material & Construction Costs			3		
(1) Construction of Onnuj T/S(2) Addition of Terapak T/S		. X ↑	131.035 2.555	36. 750 2. 100	167. 785
(3) Addition of Jangwatana T/S	230 - 69 $230 - 115$	$\begin{array}{c} 1 \times 300 \rightarrow 2 \times 300 \\ 2 \times 300 \rightarrow 3 \times 300 \end{array}$	9.369	2. 100	11. 469
1.2 Acquisition of Land			0	0	0
Sub-total		and the second s	142, 959	40,950	183, 909
2. Indirect Cost					
(1) Engineering and Supervision(2) Contingency			14. 296	12.874	12.874
(4) VAT				8. 297 13. 454	8. 297 13. 454
Sub-total	-		14.296	38. 720	53.016
Total			157.255	79.670	236, 925

Appendix 10.5-2 Construction Expenses for Terminal Stations

			+	2	
Description	Voltage	Capacity	Construction	Expenses	(Million Bant)
	(kV)	(WAV)	FC	TC	Total
Completed in BV 1999					
1. Direct Cost	-				
1 1 Material & Construction Costs					
ייי שמיכוומו מי כסווארותי רוסו כסארא			1.2		
(1) Construction of Thanontok T/S	230 - 115	2×300	205.983	7, 350	213. 333
(2) Addition of Sainoi T/S	1	$1 \times 300 \rightarrow 2 \times 300$	16.674	5, 250	21.924
1.2 Acquisition of Land				0	0
C11k-+0+01			000	000	100
Jano-cota			722. 657	12, 600	235. 257
z. Indirect Cost					
(1) Engineering and Supervision			1	16 468	16.468
(2) Contingency			22. 266	1. 260	23. 526
(3) Import Duty				13, 425	13, 425
(4) VAT				17. 408	17. 408
Sub-total			22. 266	48. 561	70.827
Total			244. 923	61.161	306. 084

Appendix 10.5-2 Construction Expenses for Terminal Stations

Description	Voltage	Capacity	Construction Expenses	•	(Willion Baht)
	(kV)	(MVA)	FC	CC	Total
0006 Ad. : - Fr + 3.1				:	
Comptered All F1 2000				# 	
1. Direct Cost					
1.1 Material & Construction Costs					
(1) Construction of Sanampao T/S	<u> </u>	1×300	505. 605	54, 600	557, 205
(2) Construction of Ratchada T/S	230 - 69 230 - 115	$\begin{array}{c} 1 \times 300 \\ 1 \times 300 \end{array}$	131, 035	36. 750	167. 785
(3) Addition of Bangkoknoi T/S	230 - 115	$1 \times 300 \rightarrow 2 \times 300$	2. 555	2. 100	4.655
1.2 Acquisition of Land			1	136.718	136.718
· · · · · · · · · · · · · · · · · · ·					
Sub-total			636. 195	230, 168	866, 363
2. Indirect Cost					
 Engineering and Supervision Contingency 			63.619	60, 645	60. 645 86. 636
(3) Import Duty (4) VAT			1 1 2	34. 237 63. 042	34. 237 63. 042
Sub-total			63.619	180.941	244. 560
Total			699.814	411. 109	1, 110, 923

Appendix 10.5-2 Construction Expenses for Terminal Stations

Description	Voltage	Capacity	Construction	Construction Expenses (Mil	(Willion Baht)
•	(kV)	(WAV)	FC	27	Total
Completed in FY 2001					+2
 Direct Cost Material & Construction Costs Construction of Bangbor T/S Addition of Bangkapi T/S 	230 - 115 230 - 69	1×300 4×200 → 2×200	131. 035 33. 348	36. 750 10. 500	167. 785 43. 848
(3) Addition of North Bangkok T/S	230 - 69	2×200 → 4×200	33. 348	10.500	43, 848
(4) Addition of South Bangkok T/S	230 - 69	1	33, 348	10.500	43, 848
1.2 Acquisition of Land		2 × 300		0	0
Sub-total			231.079	68. 250	299, 329
2. Indirect Cost					
(1) Engineering and Supervision(2) Contingency(3) Import Duty			23. 108	20. 953 6. 825 17. 267	20. 953 29. 933 17. 267
(4) VAT			1	22.162	22.162
Sub-total			23, 108	67.207	90.315
Total			254. 187	135. 457	389. 644

Appendix 10.5-2 Construction Expenses for Terminal Stations

Description	Voltage	Capacity	Construction	Expenses	(Million Baht)
	(kV)	(MVA)	FC	271	Total
Completed in FY 2006 (2002~2006)					
1. Direct Cost					
1.1 Material & Construction Costs					
(1) Construction of Klongtoev T/S	230 - 115	2×300	531.806	54. 600	586. 406
(2) Construction of Patanakarn T/S	230 - 115	3×300	196.552	55, 125	251.677
	1	2×300	131, 035	36, 750	167, 785
(4) Construction of Thomburi T/S	230 - 69	1×300	370, 233	38. 220	408, 453
_	230 - 115	$3 \times 200 \rightarrow 4 \times 200$	16.674	5. 250	21. 924
_	230 - 115	$2 \times 200 \rightarrow 3 \times 200$	16.674	5. 250	21.924
(7) Addition of Jangwatana T/S	230 - 115	$3\times300 \rightarrow 4\times300$	2, 555	2. 100	4, 655
(8) Addition of Bangbor T/S	230 - 115	1×300 → 2×300	2, 555	2. 100	4.655
(9) Addition of Onnuj T/S	230 - 115	$2 \times 300 \rightarrow 3 \times 300$	698 6	2. 100	11.469
- D	230 - 69	2×200 → 3×200	16.674	5, 250	21.924
2.5%	230 - 69	1	33, 348	10.500	43.848
	230 - 69	2×300 1×300 → 2×300	44, 405	7, 350	51.755
					C
1.2 Acquisition of Land	11.			:	
Sub-total			1, 371. 880	224. 595	1, 596. 475

Appendix 10.5-2 Construction Expenses for Terminal Stations

Description	Voltage	Capacity	Construction	Construction Expenses (Mil	(Willion Baht)
	(kV)	(MVA)	FC	1 .	Total
Completed in FY 2006 (2002~2006)					
2. Indirect Cost					
(1) Engineering and Supervision			1	111. 753	111, 753
(2) Contingency (3) Import Duty			137. 188	22, 460	159. 648 79. 084
(4) VATOR CONTRACTOR C			l	117. 289	117. 289
Sub-total			137. 188	330, 586	467.774
Total			1, 509. 068	555, 181	2, 064, 249

Appendix 10.5-2 Construction Expenses for Terminal Stations

		Vol+200	Canaditu	Construction Expenses		(Million Baht)
Description		(kV)	(MVA)	FC	DC	Total
Completed in FY 2011 (2007~2011)						
1. Direct Cost	<u></u>					
1.1 Material & Construction Costs	<u> </u>					
(1) Addition of Klongrangsit T/S	2	230 - 115	$2 \times 200 \rightarrow 3 \times 200$	16.674	5, 250	21.924
(2) Addition of Nonjok T/S	23	230 - 115	2×200 → 4×300	16.674	5, 250	21.924
(3) Addition of Bangkoknoi I/S		230 - 115	1 × 300 2 × 300 → 3 × 300	128.991	36. 750	165.741
(4) Addition of Bangbor T/S	23	i	1	128.991	36.750	165.741
(5) Addition of Onnuj T/S (6) Addition of Patcheda T/S		230 - 115	3×300 → 4×300 1×300 → 2×300	16, 674	5.250	21.924
	-	230 - 115	1×300 → 2×300	50, 250	7.350	57.600
(8) Addition of Talingchan T/S		230 - 115	$2 \times 300 \rightarrow 3 \times 300$	9.369	2.100	
(9) Addition of South Bangkok T/S		230 - 69	2×200 → 4×300	33. 348	10, 500	43, 848
(10) Addition of Thomburi T/S	23	230 - 69	2×300 1×300 → 2×300	44. 405	7, 350	51,755
	<u>;</u>					
1.2 Acquisition of Land						0
Sub-total	7 7			574. 367	153.300	727. 667

Appendix 10.5-2 Construction Expenses for Terminal Stations

Description	Voltano	Conority	Constructio	Construction Expenses (Mi	(Million Baht)
10104110000	(kV)	(MVA)	FC		Total
Completed in FY 2011 (2007~2011)					
2. Indirect Cost					
(1) Engineering and Supervision				50, 937	50, 937
(2) Contingency (3) Import Duty			57, 437	15, 330 37, 778	37.778
(4), VAT C.				53, 581	53. 581
The second secon					
					3
Sub-total			57, 437	157. 626	215.063
Total			631. 804	310. 926	942. 730
	,				

Appendix 10.5-2 Construction Expenses for Terminal Stations

Description	Voltage	Capacity	Construction	Expenses	(Million Baht)
	(kV)	(MAV)	FC	СС	Total
Completed in FY 2016 (2012~2016)					
					, r` , 11
1. Direct Cost	. **				
1.1 Waterial & Construction Costs				:	
(1) Construction of Remintre T/S	230 - 115	2×300	531, 806	54. 600	586. 406
(2) Construction of Ratburana T/S	· ,—	2×300	232, 737	36, 750	269. 487
	ŧ	X 30			
(3) Addition of Bangplee T/S	230 - 115	4×200 → 2×200	33, 348	10.500	43, 848
(A) Addition of Monaronaeit 7/C	930 - 115	2×300 3×200 → 4×200	16 674	5 250	21, 924
	230 - 115	1	2, 555	2. 100	4.655
(6) Addition of Sainoi T/S	. 	m ↑	16, 674	5, 250	21.924
(7) Addition of Sanampao T/S	230 - 115	2×300 → 3×300	50, 250	7, 350	22. 600
(8) Addition of Klongtoey T/S	230 - 115	2×300 → 3×300	50, 250	7, 350	57. 600
of	230 - 115	3×300 → 4×300	2, 555	2. 100	4.655
οţ	230 - 115	3×300 → 4×300	2, 555		
(11) Addition of Bangkapi T/S	230 - 69	$2 \times 200 \rightarrow 4 \times 300$	33, 348	10. 500	43.848
7 Common J	230 - 60	2×300 2×300 → 4×300	33 348	10, 500	43, 848
(12) humilton of baraptac 17		:			
(13) Addition of North Bangkok T/S	230 - 69	7007	33, 348	10.500	43, 848
		5×300			
(14) Addition of South Thonburi T/S	230 - 69	4×200 → 2×200	33, 348	10.500	43.848
		0000			

Appendix 10.5-2 Construction Expenses for Terminal Stations

	Voltage	Capacity	Construction	Construction Expenses (Mil	(Willion Baht)
	(kV)	(MVA)	FC	ЭП	Total
Completed in FY 2016 (2012~2016)					
(15) Addition of Ratchada T/S	- G	008×8 ↑ 008×6	16.674	5 250	NO 16
				0.77.0	77. 77.
	-				
1.2 Acquisition of Land			İ	136.718	136, 718
Sub-total			1, 089, 470	317, 318	1, 406. 788

2 Indirect Cost					
(1) Engineering and Supervision			1	98. 475	98, 475
(2) Contingency			108.947	31. 732	140, 679
(3) Import Duty				72.654	72, 654
(4) VAI				103, 561	103. 561
Sub-total			108.947	306. 422	415, 369
Total			1. 198. 417	623.740	1, 822, 157

Construction Expenses for Distribution Substations Appendix 10.5-3

120, 431 159, 342 24. 942 24. 013 24. 942 24. 942 24. 942 24. 942 135. 961 16. 727 138, 299 15, 798 135, 961 173, 057 [20, 43] Construction Expenses (Million Baht) **Total** 3, 339 3, 339 3, 339 3, 339 3, 339 0.840 32, 550 34, 125 550 550 3, 339 32, 550 0, 840 32.55032.55032. 32. 27 87, 881 126, 792 21. 603 20. 674 21. 603 21. 603 21. 603 103. 411 15. 887 103, 411 138, 932 87.881 105,749 14.958 FC 1×(40) $1 \times (40)$ $2 \times (40)$ $2 \times (40)$ 2×60 1×40 2×60 09×1 $2 \times 40 \rightarrow 2 \times 40$ $1 \times 40 \rightarrow 1 \times 40$ $2 \times 40 \rightarrow 1 \times 40$ $1 \times 60 \rightarrow 2 \times 60$ $1 \times (40)$ Capacity $1 \times (40)$ $1 \times (40)$ 1×60 1×60 (MVA) 1 1×60 → 1×60 ↓ 2×20 → 2×40 1×60 $\times (40)$ 12/24 12/2469 - 12/2424 24 12 24 24 12 12 12 oltage 115 -(KV) 115 -- 1 69 -- 3 69 --115 -115 -115 -- 911 115 -1 Ţ ı 69 69 69 Addition of Klongsanamchai D/S Material & Construction Costs Addition and Modification of Addition of Muangthong 1 D/S Addition and Modification of Addition and Modification of Construction of Dindaeng D/S Construction of Trokchan D/S Addition and Modification of Construction of Klongkum D/S Construction of Samyarn D/S Construction of Samyarn D/S Addition of Bangchalong D/S Construction of Taiban D/S Addition of Bangson D/S Addition of Makasan D/S Description Completed in FY 1997 Bangkoknoi D/S Lardprao D/S Pakkred D/S Bearing D/S 1. Direct Cost

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Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Expenses	(Willion Baht)
	(kV)	(MVA)	FC	27	Total
Completed in FY 1997		•			
(16) Addition and Modification of	69 - 12/24	$1 \times (40) \rightarrow 2 \times (40)$	110.334	32, 550	142. 884
(17) Addition of Khotor D/S	115 - 24	$1 \times 60 \rightarrow 2 \times 60$	103. 411	32, 550	135, 961
(18) Addition of Muangthong 3 D/S	ı	1	103, 411		135, 961
(19) Addition of Sainamtip D/S	69 - 12/24	$1 \times 60 \rightarrow 1 \times (40)$	87.881		120, 431
(20) Addition of South Bangplee D/S	115 - 24	$1 \times 60 \rightarrow 2 \times 60$	103, 411	32, 550	135, 961
	1	1	87, 881	32, 550	120, 431
	1	Î.	103.411		135,961
	69 – 12	1	87.881		120, 431
(24) Addition of Jangwatana D/S	115 - 24	1×60 → 2×60	103, 411	32. 550	135, 961
I.2 Acquisition of Land			0	337, 336	337, 336
Sub-total			1, 804, 623	881. 425	2, 686. 048
2. Indirect Cost					
(1) Engineering & Supervision				188. 023	188, 023
(2) Contingency			180, 462	88. 143	268, 605
(4) VAT				199, 991	170.968 199.991
Sub-total			180, 462	647. 125	827. 587
Total			1, 985, 085	1, 528. 550	3, 513, 635

Appendix 10.5-3 Construction Expenses for Distribution Substations

				- 1	
Description	Voltage	Capacity	Construction Expenses		(Million Baht)
	(kV)	(MVA)	FC	27	Total
Completed in FY 1998					
1. Direct Cost					
		-		-	
1.1 Material & Construction Costs					
(1) Constantion of Tathian D/S	69 - 12	2× (40)	110.334	32, 550	142, 884
(1) Construction of Kaset D/S	1	1× (40) +1×60	110.334	32, 550	142.884
(3) Construction of Shimplee D/S	1	1×60	21.603	3, 339	24. 942
	ï	1×60	21.603	3, 339	24. 942
	. 1	1×40	20.674		24.013
3 1	69 - 12/24	$2\times40 \rightarrow 2\times60$	126.792	32, 550	159, 342
	→115 - 24	1×60			. !
(7) Addition and Modification of	69 - 12/24	$1 \times 40 \rightarrow 2 \times 60$	14.958	0.840	15, 798
Nongkham D/S		1×60			1
(8) Modification of Nonthaburi D/S	69 - 12	2×20+1×40	122, 887	32, 550	155, 437
	$\rightarrow 115 - 12/24$	→ 1×60+1×40			
(9) Addition of Thanontok D/S	69 - 12/24	1×40 → 1×40	96.397	32, 550	128.947
		1×(40)			
(10) Addition of Taweewattana D/S	115 - 24	1×60 → 2×60	103.411	32, 550	135, 961
100	69 - 12	$1 \times (40) \rightarrow 2 \times (40)$	87.881		120, 431
	115 - 24	1×60 → 2×60	103.411		135, 961
	ı	1×60 → 2×60	103, 411	32, 550	135, 961
	1	1	103.411	32, 550	135, 961
	1		103, 411	32, 550	135.961
				e.	

Appendix 10.5-3 Construction Expenses for Distribution Substations

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	(kV)	(MVA)	FC		Total
Completed in FY 1998				81.285	81.285
1.2 Acquisition of Land			÷		
Sub-total			1, 250, 518	450. 192	1, 700. 710
2. Indirect Cost					
- Engineering & Supervision				119, 050	119.050
ContingencyImport duty	1		125.052	45.019 119.099	170.071 119.099
			1	127. 387	127.387
Sub-total			125.052	410.555	535. 607
			÷		
			:		
Total			1, 375. 570	860.747	2, 236. 317

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Expenses	(Million Baht)
	(kV)	(MVA)	FC	רכ	Total
Completed in FY 1999					
1. Direct Cost					
1.1 Material & Construction Costs					
(1) Constantion of Manuelland 5 D/S	115 - 24	09×6	126 792	32 550	159, 342
(1) Construction of Patanakarn 11/S	ì	1×60	21.603	3, 339	24, 942
(3) Construction of Sriwiang D/S	69 – 12	$2 \times (40)$	110.334	32, 550	142.884
(4) Construction of Tha-kwian D/S	1	$2 \times (40)$	110, 334	32, 550	142.884
(5) Addition of Bangkhaen D/S	115 - 24	$1 \times 60 \rightarrow 2 \times 60$	103.411	32, 550	135, 961
(6) Addition of Bangrnod D/S	69 - 12/24	$2 \times (40) \rightarrow 2 \times (40)$	14, 958	0.840	15.798
		1×60	:		
(7) Addition and Modification of	115 - 24	$1 \times 40 \rightarrow 2 \times 60$	15.887	0.840	16. 727
			1	(i i
(8) Addition and Modification of	69 - 12/24	$2\times40 \rightarrow 1\times40$	14.958	0.840	15.798
					1
(9) Addition of Wangpetchaboon D/S	69 – 12	$2\times40 \rightarrow 2\times40$	14, 958	0.840	15, 798
(10) Addition and Modification of	69 - 12	$1 \times (40) \rightarrow 2 \times 60$	126. 792	32, 550	159, 342
Bangkradee 11/S	→115 - 24				
(11) Modification of Ekachai D/S	ı	$1 \times (40) \rightarrow 1 \times 60$	21. 603	3, 339	24. 942
(12) Addition of Klongkum D/S	→115 - 24 115 - 24	$1\times60 \rightarrow 2\times60$	103.411	32, 550	135, 961
(13) Addition and Modification of	69 – 12	1	126. 792	32, 550	159, 342
Bangkae D/S	—————————————————————————————————————				

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Expenses	(Willion Baht)
	(kV)	(WAV)	FC	ГС	Total
Completed in FY 1999					
1.2 Acquisition of Land for D/S			0.000	94.6	94. 600
Sub-total		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	911.833	332, 488	1, 244. 321
2. Indirect Cost					
- Engineering & Supervision	:			87. 102	87.102
<pre>Contingency Import duty</pre>			91.183	33, 249 89, 058	124, 432 89, 058
VAT Some of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of th			I.	93.337	93, 337
Sub-total		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	91.183	302.746	393, 929
			-		
Total			1,003.016	635, 234	1, 638. 250

Appendix 10.5-3 Construction Expenses for Distribution Substations

					11: 0 1.4)
Description	Voltage	Capacity	Construction Expenses	- 1	(Mililon bant)
	(kV)	(MVA)	FC	TC	Total
OVVG ALL TEN					
COMPLETE II I L 2000					
1. Direct Cost					
1.1 Material & Construction Costs					
(1) Construction of Muangthong 6 D/S	1115 - 24	2×60	126. 792	32, 550	159.342
(2) Construction of Prawes D/S	115 - 24	2×60	126. 792	32, 550	159, 342
(3) Construction of Prompong D/S	1	2×60	126. 792	32, 550	159, 342
(4) Construction of Suwintawong D/S	ľ	2×60	126.792	32, 550	159, 342
(5) Construction of Wuttakart D/S	69 - 12/24	$1\times (40) + 1\times 60$	110.334		142.884
(6) Addition and Modification of	69 - 24	$1\times40 \rightarrow 2\times60$	110.334	32. 550	142.884
Klongmai D/S					,
(7) Addition and Modification of	115 - 12/24	1×40 → 3×60	15.887	0.840	16, 727
(8) Addition of Fkhuri D/S	115 - 24	2×60 1×60 → 2×60	103, 411	32, 550	135, 961
4.	ı		103, 411	32, 550	135, 961
(10) Addition and Modification of	-	$1 \times (40) \rightarrow 1 \times (40)$	103.411	32, 550	135, 961
			1	(1 1	
	ı	î,	87, 881	32.550	120, 431
(12) Addition of Shimplee D/S	115 - 24	$1 \times 60 \rightarrow 2 \times 60$	103.411	32. 550	135, 961
Ι.				390 210	912 OEE
1.2 Acquisition of Land for D/3				711.300	771. 300
Sub-total			1, 245. 248	576.855	1,822.103

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Construction Expenses (Mil	(Million Baht)
	(kV)	(MVA)	FC	гс	Total
Completed in FY 2000 2. Indirect Cost					
- Engineering & Supervision - Contingency - Import duty - VAT			124. 525	127. 547 57. 685 117. 282 135. 757	127, 547 182, 210 117, 282 135, 757
Sub-total			124, 525	438.271	562, 796
Total			1, 369. 773	1, 015. 126	2, 384. 899

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Expenses	(Million Baht)
・ The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of th	(kV)	(MVA)	FC	ϽΊ	Total
Completed in FY 2001					
1. Direct Cost				. :	
					·
1.1 Material & Construction Costs			· :		100
(1) Construction of Banmai D/S	69 - 24	2×60	110.334	32, 550	142.884
(2) Construction of Muangthong 7 D/S	115 - 24	2×60	126. 792	32, 550	159, 342
(3) Construction of Nanglerng D/S	69 – 12	2×40	110.334	32, 550	142, 884
(4) Construction of Plubpla D/S	115 - 24	2×60	126. 792	32, 550	159, 342
(5) Construction of Sainoi D/S	115 - 24	2×60	126. 792	32, 550	159, 342
(6) Construction of Satorn D/S	115 - 24	2×60	126. 792	32, 550	159, 342
(7) Construction of Suanyai D/S	115 - 24	2×60	126. 792	32. 550	159, 342
(8) Addition of Huaykwang D/S	69 - 24	1	14, 958	0.840	
(9) Addition of Lardprao D/S	69 - 12/24	$1\times (40) \rightarrow 2\times (40)$	14.958	0.840	15. 798
		1×60 1×60			
(10) Addition and Modification of	69 - 12/24	4×40 → 3×40	14. 958	0.840	15. 798
		× ;	140 670	006 66	176 060
(11) Addition and Modification of	09 = 12 →115 = 24	1×(40)	146.069	0.5000	600.001
(12) Addition and Modification of	115 - 12/24	$1 \times 40 \rightarrow 2 \times 60$	15.887	0.840	16. 727
		1×60	<u> </u>		
(13) Addition and Modification of	115 - 24	$2\times40 \rightarrow 2\times60$	31. 774	1.680	33, 454
Paknam D/S (14) Addition and Modification of	69 - 12/24	$1 \times 40 \rightarrow 3 \times 60$	14.958	0.840	15, 798
Phaisingto D/S		2×60 ×2			
	· · · · · · · · · · · · · · · · · · ·				

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Expenses	(Million Baht)
	(kV)	(MVA)	FC	CC	Total
Completed in FY 2001				, ,	
(1E) Addition and Modification of	69 - 12/24	2×40 → 1×40	14 958	0 840	15 798
Prachachien				2	
(16) Addition and Modification of	69 - 24	1×40 → 3×60	14.958	0.840	15, 798
Samrong D/S					
(17) Addition and Modification of	69 - 12/24	$2 \times 20 \rightarrow 1 \times 60$	91.812	32, 550	124. 362
South Bangkok					
(18) Addition and Modification of	69 - 12/24	$2 \times 40 \rightarrow 2 \times 60$	105.749	32, 550	138, 299
Suansom D/S					
(19) Addition and Modification of	69 - 12/24	$3\times40 \rightarrow 1\times40$	29.916	1.680	31.596
Surawong D/S		5×60			
(20) Addition and Modification of	69 - 12/24	$1 \times 40 \rightarrow 2 \times 60$	14.958	0.840	15, 798
Thanontok D/S		$1 \times (40)$			
(21) Addition and Modification of	69 - 12/24	$2\times40 \rightarrow 3\times60$	105.749	32, 550	138, 299
Wangpetchaboon D/S		$1 \times (40)$		-	
(22) Addition and Modification of	69 - 24	$1 \times 40 \rightarrow 1 \times 60$	14.958	0.840	15, 798
Huamak D/S					
(23) Addition of Khoter D/S	115 - 24	5×60 → 3×60	15.887	0.840	16. 727
(24) Addition of Sainamtip D/S	69 - 24	1	14.958	0.840	15. 798
(25) Addition of Srielam D/S	115 - 24	1	15.887	0.840	16, 727
(26) Addition of Ekachai D/S	115 - 24	<> ↑	103, 411	32, 550	135, 961
(27) Addition of Klongprapa D/S	115 - 24	1×60 → 2×60	103.411-	32.550	135, 961
(28) Addition of Patanakarn D/S	115 - 24	$1 \times 60 \rightarrow 2 \times 60$	103.411	32. 550	135, 961
(29) Addition of Tubyao D/S	115 - 24	$1 \times 60 \rightarrow 2 \times 60$	103, 411	32, 550	135, 961
(30) Addition of Watkampaeng D/S	69 - 12/24	1×40 → 2×60	110.334	32.550	142.884

208. 764 298. 234 202. 233 222. 920 3,914.488 378,689 2,982.337 932, 151 FY 1995 Price Construction Expenses (Willion Baht) Total 208. 764 91. 377 202. 233 222. 920 378, 689 913, 769 725. 294 1,639.063 S Appendix 10.5-3 Construction Expenses for Distribution Substations 0.000 2,068.568 2, 275, 425 206,857 206,857 FC Capacity (MVA) Voltage (kV) 1.2 Acquisition of Land for D/S - Engineering & Supervision - Contingency Description Sub-total Sub-total Total Completed in FY 2001 - Import duty - VAT 2. Indirect Cost

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Expenses	(Willion Baht)
	(kV)	(MVA)	J.I	27	Total
Completed in FY 2006 (2002 \sim 2006)					-
1. Direct Cost					
1.1 Material & Construction Costs					
(1) Construction of Asoke D/S	115 - 24	2×60	126. 792	32.550	159.342
(2) Construction of Banghuasae D/S	115 - 24	2×60	126.792	32, 550	159, 342
(3) Construction of Bangkaew D/S	115 - 24	2×60	126. 792		159.342
(4) Construction of Bangtalard D/S	115 - 24	2×60	126, 792		159, 342
(5) Construction of Jorakabuo D/S	115 - 24	2×60	142, 679	33, 390	176.069
(6) Construction of Klongna D/S	115 - 24	2×60			159.342
(7) Construction of Land & House D/S	115 - 24	2×60			
(8) Construction of Muangthong 8 D/S	115 - 24	2×60	126. 792	32, 550	159, 342
(9) Construction of Muangthong 9 D/S	115 - 24	2×60			
(10) Construction of Praramkao D/S	115 - 24	5×60			159, 342
(11) Construction of Rajchaprarop D/S	115 - 24	3×60			
(12) Construction of Sanampao D/S	115 - 24	2×60			159, 342
(13) Construction of Sananikom D/S	115 - 24	2×60			159, 342
(14) Construction of Songsunikom D/S	115 - 24	5×60	126. 792		
(15) Construction of Srinakarin D/S	115 - 24	2×60			159, 342
(16) Construction of Watdeedod D/S	69 - 24	2×60	110.334	32, 550	142.884
(17) Addition of Bangchalong D/S	115 - 24	2×60 → 3×60	15.887	0.840	16, 727
(18) Addition and Modification of	69 - 12/24	$2\times40 \rightarrow 1\times40$	14.958	0.840	15.798
Bangkapi D/S		1×60 2×60			
(19) Addition of Bangkaen D/S	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15.887	0.840	16.727

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Expenses	(Willion Baht)
	(kV)	(MVA)	FC	77	Total
Completed in FY 2006 (2002~2006)					
(20) Addition of Bangkok noi D/S	69 - 12/24	a ↑°	14.958	0.840	15, 798
(21) Addition and Modification of	69 - 12/24	2×10 → 1×60	20.674	3, 339	24.013
Bangkrachao D/S (22) Addition of Bangpongpang D/S	115 - 24	2×60 → 3×60	15.887	0.840	16.727
(23) Addition of Bangpood D/S	115 - 24	2×60 → 3×60	15, 887	0.840	16, 727
(24) Addition and Modification of	115 - 24	1	142.679	33, 390	176.069
(25) Addition of Bangsaotong D/S	115 - 24	1×60 → 2×60	103.411	32, 550	135, 961
	_ 2	1×60 → 2×60	103, 411	32, 550	135,961
	· 1	$2 \times 50 \rightarrow 2 \times 60$	110.334	32.550	142, 884
	69 - 24				٠.
(28) Addition of Donmuang D/S	115 - 24	2×60 → 3×60	15.887	0.840	16.727
(29) Addition and Modification of	69 - 12/24	$1 \times 40 \rightarrow 2 \times 60$	126. 792	32, 550	159, 342
Klongsanamchai D/S	→115 - 24	1×60			
(30) Addition and Modification of	69 - 12/24	1	14.958	0.840	15. 798
Klongsanpasamit D/S		1×40 1×40			
(31) Addition and Modification of	69 - 12/24	1×40 → 2×60	14.958	0.840	15, 798
Krunai D/S		1×(40)			
(32) Addition of Minburi D/S	115 - 24	2×60 → 3×60	15, 887	0.840	16.727
(33) Modification of Na-na D/S	69 - 12/24	$1 \times (40) + 2 \times 60$	142, 679	33.390	176, 069
	$\rightarrow 115 - 24$	13×60			
(34) Addition of Nongkham D/S	69 - 24	$2 \times 60 \rightarrow 3 \times 60$	14.958	0.840	15, 798
(35) Addition of Nonthaburi D/S	115 - 24	2×60 → 3×60	15.887	0.840	16, 727

Appendix 10.5-3 Construction Expenses for Distribution Substations

Description	Voltage	Capacity	Construction	Construction Expenses (Mi)	(Million Baht)
	(kV)	(MVA)	FC	DT .	Total
ompleted in FY 2006 (2002 \sim 2006)	:				
					-
36) Addition of Paknam D/S	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15, 887	0.840	16.727
37) Addition and Modification of	69 - 24	$2 \times 22.4 \rightarrow 1 \times 60$	20.674	3, 339	24, 013
Petchkasem D/S		$1 \times 40 \rightarrow 1 \times 40$			
38) Addition of Phaisingto D/S	69 - 24	1	42, 307	3, 339	45, 646
	115 - 24	2×60 → 3×60	15.887	0.840	16.727
40) Addition and Modification of	69 - 12/24	$3\times40 \rightarrow 2\times40$	14.958	0.840	15. 798
Sansab D/S		1×60			
1) Addition of Sapanmai D/S	69 - 24	1	14,958	0.840	15, 798
12) Addition of South Thonburi D/S	69 - 24	3	14,958	0.840	15.798
43) Addition of Srithanya D/S	69 - 24	$1 \times (40) \rightarrow 2 \times 60$	126. 792	32, 550	159, 342
	→115 - 24				
14) Addition and Modification of	69 - 12/24	1×40 ± 3×60	14.958	0.840	15. 798
- "					
5) Addition of Bangkaen D/S	115 - 12/24	$1 \times (40) \rightarrow 3 \times 60$	15.887	0.840	16.727
	٠	1×60	-		
46) Addition and Modification of	69 - 24	$1\times(40) \rightarrow 3\times60$	142.679	33, 390	176, 069
	t	5×60			
47) Addition and Modification of	69 - 24	$1 \times 60 \rightarrow 2 \times 60$	126. 792	32, 550	159, 342
g st	→115 - 24	-	:		•
18) Addition of Intamara D/S	69 – 24	$2\times60 \rightarrow 3\times60$	14.958	0.840	15. 798
£ .	69 - 12/24	$1 \times (40) \downarrow 2 \times 60$	87.881	32, 550	120, 431
50) Addition of Sanambinnam D/S	115 - 24	2×60 → 3×60	15.887	0.840	16.727
51) Addition of Saorahong D/S		$1 \times 60 \rightarrow 2 \times 60$	103, 411	32, 550	135, 961
52) Addition of Yenarkart D/S	69 – 24	2×60 → 3×60	14.958	0.840	15, 798

Appendix 10,5-3 Construction Expenses for Distribution Substations

No. 1 Description	Voltage	Capacity	Construction Expenses		(Million Baht)
	(kv)	(MVA)	FC	ГС	Total
Completed in FY 2006 (2002 \sim 2006)					
(E2) Addition of Bonois D/C	115 - 94	1×(40) ↑ 3×60	15 887	0.840	16.727
(55) 'nualtium of Daniglan D' 5	ż				
(54) Addition and Modification of	69 - 24	2×60 → 3×60	142. 679	33, 390	176.069
(55) Addition of Jangwatana D/S	. !	$2 \times 60 \rightarrow 3 \times 60$	15.887	0.840	16.727
	1	1	110.334	32. 550	142. 884
(57) Addition of Nanglerng D/S (58) Addition of Patanakarn D/S	69 - 12 $115 - 24$	$2 \times 40 \rightarrow 3 \times 40$ $2 \times 60 \rightarrow 3 \times 60$	15, 887	0.840	12. 092
	-	1	15.887	0.840	16.727
1.2 Acquisttion of Land			1	777. 392	777. 392

Sub-total			4, 111. 602	1, 759. 079	5, 870, 681
2. Indirect Cost					
- Engineering & Supervision			1	410.948	410.948
- Contingency			411, 160	175, 908	587, 068
= Import Duty - VAT		!	I	401.177	401, 177
Sub-total			411.160	1, 427, 063	1,838.223
Total	4		4, 522. 762	3, 186. 142	7, 708. 904

Appendix 10.5-3 Construction Expenses for Distribution Substations

	<u></u>				
Description	Voltage	Capacity	Construction	Expenses	(Million Baht)
	(kV)	(MVA)	FC	27	Total
Completed in FY 2011 (2007~2011)					
1. Direct Cost				-	
1.1 Material & Construction Costs					
			6		000
(1) Construction of Bangbuotong D/S	115 - 24	3×60	142.679	33, 390	176.069
(2) Construction of Bangpleeyai D/S	115 - 24	2×60	126.792	32. 550	159, 342
(3) Construction of Klongbangpi D/S	115 - 24	3×60	142.679	33, 390	176.069
(4) Construction of Klongoume D/S	115 - 24	2×60	126. 792	32, 550	
1	115 - 24	3×60	142, 679	33, 390	176.069
Krungtepkreeta D/S					
(6) Construction of Tonglor D/S	115 - 24	2×60	126.792	32. 550	159, 342
	115 - 24	2×60	126. 792	32, 550	159, 342
(8) Construction of Luangpang D/S	115 - 24	2×60	126.792	32, 550	159, 342
(9) Construction of Nimitmai D/S	115 - 24	2×60	126.792	32.550	159, 342
(10) Construction of Nongyai D/S	115 - 24	2×60	126.792	32.550	159, 342
(11) Construction of Pinklao D/S	115 - 24	3×60	142.679	33, 390	176.069
(12) Construction of Rajchakru D/S	115 - 24	2×60	126. 792	32, 550	159, 342
	115 - 24	3×60	142.679	33, 390	176.069
(14) Construction of Tiamruammit D/S	115 - 24	2×60	126.792	32, 550	
	69 - 12	3×40	99. 294	32, 550	131.844
- 1	69 – 24	$1 \times 60 \rightarrow 2 \times 60$	87.881	32.550	120. 431
	115 - 24	2×60 → 3×60	15.887	0.840	16. 727
	115 - 24	↑ 09	15.887	0.840	٠.
	69 - 24	1 09	14.958	0.840	15. 798
				:	

Appendix 10.5-3 Construction Expenses for Distribution Substations

15. 798 15. 798 15. 798 16. 727 16. 727 16. 727 16. 727 15. 798 16. 727 16. 727 16. 727 16. 727 15.798 15.79816. 727 16. 727 15.798 24,663 38, 299 (Million Baht) Total 0.840 0.840 0.840 0.840 0.840 0.840 0.840 0.840 0.840 0.840 32.55032.5500.840 0.840 0.840 0.840 0.840 0.840 0.840 Construction Expenses 2 14,958 14.958 14,958 15.887 15.887 14,958 14.958 14, 958 15, 887 14.958 14,958 15.887 15.887 15.887 15.887 92, 113 15.887 15,887 15.887 05, 749 14,958 3 3×60 3×60 3×60 1×40 09×1 1×40 2×60 3×60 3×60 3×60 3×60 3×60 3×60 3×60 3×60 ×60 3×60 $2 \times 40 \rightarrow 2 \times 60$ Capacity (MVA) 1 ↑ 09×2 . 1 1 î 1 1 1 1 1 1 1 1 2×60 2×60 2×60 2×60 2×60 2×60 ×60 2×40 2×60 2×40 1×40 1×60 2×60 2×60 24 24 24 24 24 24 24 Voltage (kV) Ĺ, ī ī į Ī 1 1 1 ì 1 ı 115 115 115 69 69 115 69 115 115 69 115 69 69 69 69 Addition of Klongmahasawad D/S Completed in FY 2011 $(2007 \sim 2011)$ Addition of Tungsonghong D/S Addition and Modification of Addition and Modification of Addition of Klongwatsing D/S Addition of Modification of Addition of Prachachuen D/S Addition of Lardkrabang D/S Addition of Bangkradee D/S Addition of Srithanya D/S Addition of Thanontok D/S Pradipat D/S Bangshan D/S Addition of Suansom D/S Addition of Bearing D/S Addition of Jangrom D/S Ekachai D/S Addition of Romklao D/S Addition of Nonsee D/S Addition of Krunai D/S Description Klongtoei D/S Klongsarn D/S Addition of Addition of Addition of Addition of Mai-ad D/S (20) (21)(34)(35)(22) (23) (24) (53) (31) (32)(33) (36) (25)(26) (27) (28) 30 38)

Appendix 10.5-3 Construction Expenses for Distribution Substations

				- 1	
Description	Voltage	Capacity	Construction	Construction Expenses (Mil	(Million Baht)
	(kV)	(MVA)	FC	ЭТ	Total
Completed in FY 2011 (2007~2011)					
一一一一人 有好 人名 人名英格兰 经代替 机工作 過去					
(41) Addition and Modification of	69 - 12/24	$2 \times 60 \rightarrow 3 \times 60$	142,679	33, 390	176,069
Jatujag D/S	→115 - 24				
(42) Addition of Kaset D/S	69 - 24	$2 \times 60 + 3 \times 60$	14.958	0.840	15. 798
(43) Addition of Klongkum D/S	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15.887	0.840	16.727
(44) Addition of Klongprapa D/S	115 - 24	$2 \times 60 + 3 \times 60$	15, 887	0.840	16, 727
(45) Addition of Mitr-dum D/S	69 - 24	$2 \times 60 \rightarrow 3 \times 60$	14, 958	0.840	15. 798
(46) Addition of Prompong D/S	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15.887	0.840	16, 727
(47) Addition of Samyarn D/S	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15, 887	0.840	16. 727
(48) Addition of Satorn D/S	115 - 24	2×60 → 3×60	15.887	0.840	16.727
(49) Addition of Shimplee D/S	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15.887	0.840	16.727
(50) Addition of Watkampaeng D/S	69 - 24	2×60 → 3×60	14.958	0.840	15. 798
(51) Addition of Asoke D/S	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15.887	0.840	16.727
	115 - 24	$2 \times 60 \rightarrow 3 \times 60$	15.887	0.840	
(53) Addition of Land & House D/S	115 - 24	2×60 → 3×60	15.887	0.840	16. 727
2.1 Acquisition of Land				832, 920	832, 920
Sub-total			2, 910, 320	1, 484. 970	4, 395. 290
2. Indirect Cost					
- Engineering & Supervision				307.670	307. 670
- Contingency			291. 032	148. 497	439, 529
- Import Duty	1		İ	288. 504	288, 504
- VAT			1	327.865	327.865
Sub-total			291. 032	1, 072. 536	1, 363, 568
Total			3, 201. 352	2, 557. 506	5, 758. 858
				\$44 market	

Appendix 10.5-3 Construction Expenses for Distribution Substations

159, 342 159, 342 159. 342 159. 342 176. 069 176. 069 159. 342 159. 342 159, 342 159, 342 15, 798 15, 798 16. 727 15. 798 120, 431 15, 798 Construction Expenses (William Baht) Total 0.840 32. 550 0. 840 32, 550 32, 550 32, 550 33, 390 33, 390 32, 550 32, 550 32, 550 32, 550 32, 550 32, 550 32, 550 32, 550 32, 550 0.840 2 .87.881 14.958 142. 679 126. 792 126. 792 126. 792 126. 792 14. 958 126. 792 126. 792 142. 679 14.95815.887 14.958 126.792 <u>.</u> 2×60 2×60 1×40 09 X 09×1 3×60 $2 \times 40 \rightarrow 1 \times 40$ 2×60 Capacity 2×60 2×60 2×60 2×60 3×60 (MVA) 2×60 2×60 2×60 3×60 1.1 1 1 1 $\begin{array}{c} 1 \times 40 \\ 1 \times 60 \end{array}$ 1×60 2×40 1×40 2×60 1×60 24 24 24 24 24 Voltage (KV) ı 1 ı 115 ı 115 115 69 115 115 115 115 115 115 69 69 Construction of Klonggratiam D/S Construction of Puttamonton D/S Construction of Talingchan D/S Addition of Klongsanamchai D/S 1.1 Material & Construction Costs Construction of Lumpagshe D/S Construction of Pongpetch D/S Completed in FY 2016 (2012~2016) Construction of Bangkruay D/S Construction of Rajdamri D/S Addition and Modification of Construction of Klongdan D/S Addition and Modification of Addition and Modification of Construction of Bangpang D/S Construction of Bangpla D/S Addition of Lardplakao D/S Addition of Bangklo D/S Description Klongsanpasamit D/S Wai-ad D/S Bangna D/S 1. Direct Cost (12)(13)(14)(15) 10) $\overline{1}$ 3 3 9 8

Appendix 10.5-3 Construction Expenses for Distribution Substations

15, 798 44. 067 15. 798 138, 299 15.798 15, 798 15, 798 16. 727 16. 727 16. 727 15. 798 15, 798 44.067 15, 798 16.727 16.727 Construction Expenses (Million Baht) Total 0.840 0.840 32.5500.840 3,360 0.840 0.840 0.8400.840 0.840 0.840 0.840 0.840 $^{\circ}$ 14,958 14,958 14.958 14.95814,958 15.887 15.887 15,887 14.958 15.887 15.887 40.707 14.95814.95840.707 105.749 5 2×60 2×40 1×60 2×40 1×40 2×60 **→** 1×40 09 X I 09 X 2×60 1×40 09 X 4×40 3×60 3×60 3×60 3×60 3×60 3×60 3×60 Capacity (VAM) Î 1 1 Î 1 Î 1×40 3×40 2×40 2×40 3×40 2×40 1×60 1×60 2×40 2×60 3×40 2×60 3×40 24 24 24 24 24 24 24 12 24 24 24 24 24 24 24 Voltage (FV) ı ı 1, 1 ı ı ļ Ī ŧ 1 ı 1 69 115 115 115 69 115 115 69 69 69 69 69 69 69 69 Completed in FY 2016 (2012~2016) Addition and Modification of Addition of Muangthong 4 D/S Addition and Modification of Addition and Modification of Addition of Muangthong 3 D/S Addition and Modification of Addition and Modification of Addition and Modification of Addition and Modification of Addition of Muangthong 7 D/S Addition of Nanglerng D/S Addition of Wetlieb D/S Addition of Bangson D/S Addition of Huamak D/S Addition of Banmai D/S Addition of Ekburi D/S Addition of Prawes D/S Description Petchkasem D/S Prakanong D/S Poojao D/S Samsen D/S Sailom D/S Sansab D/S Silom (17)(18)(61)(20) (38) (23) 30) (21)(23) (24)(56) (27)(31)(22)(25)

Appendix 10.5-3 Construction Expenses for Distribution Substations

			Construction	Fynoncoc	(Willion Baht)
nescription .	(ky)	(MVA)	FC	OT.	Total
Completed in FY 2016 (2012~2016)					
(34) Addition of Tubyao D/S	115 - 24	1	15, 887	0.840	16, 727
(35) Addition of Klongpume D/S	I	1	15.887	0.840	16. 727
(36) Addition of Sananikom D/S	115 - 24	2×60 → 3×60	15, 887	0.840	16, 727
(37) Addition of Srinakarin D/S	1	1	15, 887	0.840	16. 727
(38) Addition of Watdeedod D/S	69 - 24	$2 \times 60 \rightarrow 3 \times 60$	14, 958	0.840	15. 798
1.2 Acquisition of Land				555. 280	555, 280
Sub-total			1, 943, 949	974. 440	2, 918. 389
2. Indirect Cost					
- Frainsoring & Supervision				204 287	204 287
Contingency			194, 395	97, 444	291. 839
- Import Duty			1	191, 928	191, 928
- VAT			-	217.722	217.722
Sub-total			194, 395	711.381	905. 776
Total			2, 138. 344	1, 685. 821	3, 824. 165
			~		

APPENDIX

for

CHAPTER 11

Appendix 11.3-1 Estimation for Energy Purchase and Energy Sales

			· · · · · · · · · · · · · · · · · · ·	MEA Foreca	est			J	CA Forecas	st	
	Energy	Energy	Street I	ighting	Energy	Sales	Energy	Energy	Energy	Energy	Energy
FΥ	Purchase	Sales	Consu	mption	Exclude St	eet Lighting	Loss	Purchase	Sales	Loss	Saving
	. а	В	С	C/B	D	D/B	1-B/A	E	В	1-B/A	E-A
	GWh	GWh	GWh	%	GWh	%	%	. GWħ	GWh	%	GWh
1990	18,623	17,725	84	0.47%	17,641	99.53%	4.82%	18,623	17,725	4.82%	
1991	20,777	19,851	99	0.50%	19,761	99.55%	4.46%	20,777	19,851	4.46%	
1992	22,946	21,968	99	0.45%	21,869	99.55%	4.26%	22,946	21,968	4.26%	
1993	24,873	23,849	106	0.44%	23,743	99.56%	4.12%	24,873	23,849	4.12%	
1994	27,525	26,370	115	0.44%	26,255	99,56%	4.20%	27,525	26,370	4.20%	
1995	30,387	28,959	126	0.44%	28,833	99.56%	4.70%	30,387	28,959	4.70%	
1996	33,226	31,664	138	0.44%	31,526	99.56%	4.70%	33,226	31,664	4.70%	
1997	35,881	34,194	149	0.44%	34,045	99.56%	4.70%	35,881	34,194	4.83%	
1998	38,632	36,817	161	0.44%	36,656	99.56%	4.70%	38,577	36,817	4.56%	-55
1999	41,573	39,619	173	0.44%	39,446	99.56%	4.70%		39,619		-85
2000	44,644	42,546	186	0.44%	42,360	99.56%	4.70%	44,525	42,546		-119
2001	48,085	45,825	200	0.44%	45,625	99.56%	4.70%	47,980	45,825		-105
2002	51,085	48,684	212	0.44%	48,472	99.56%	4.70%				-111
2003	54,009	51,471	224	0.44%		99.56%	4.70%	53,892	51,471	. 4.49%	-117
2004	57,066	54,384	237	0.44%	54,147	99,56%	4.70%	56,942	54,384	4.49%	-124
2005	60,181	57,353	250	0.44%	57,103		4.70%	60,051	57,353	4.49%	-130
2006	63,345	60,367	263	0.44%	60,104	99.56%	4.70%		60,367		-143
2007	66,549	63,421	277	0.44%	63,144		4.70%	66,399	63,421	4.49%	-150
2008	69,794	66,514	290	0.44%	66,224	99.56%	4.70%	69,637	66,514	4.49%	-157
2009	73,080	69,646	304	0.44%	69,342		4.70%	72,916	69,646		-164
2010	76,407	72,816	318	0.44%							-172
2011	79,775	76,026	332	0.44%	75,694	99.56%	4.70%	79,607			-168
2012	82,587	78,705	343	0.44%	78,362	99.56%	4.70%	82,412		4	-175
2013	85,398	81,385	355	0.44%			4.70%				-180
2014	88,210	84,064	367	0.44%	83,697	99.56%	4.70%	88,024	84,064	1	-186
2015	91,021	86,743	378	0.44%	86,365	99.56%	4.70%	90,829	•	1	-192
2016	93,833	89,423	390	0.44%	89,033	99.56%	4,70%	93,665	89,423	4.53%	-168

Appendix 11.3-2 Incremental Electric Energy Purchase and Sales in MEA Area, which will become available by this Project

								·	(GWh)
		Energy Purcha	ee .	Energy Sal	es, Including S	treet Lighting	Energy Sal	es, Excluding S	treet Lighting
FY	Electric	FY 1997	Incremental	Electric	FY 1997	Incremental	Electric	FY 1997	Incremental
	Energy	Forecast	Electric Energy	Energy	Forecast	Electric Energy	Energy	Forecast	Electric Energy
199	38,577	35,881	2,696	36,817	34,194	2,623	36,656	34,045	2,612
199	9 41,488	35,881	5,607	39,619	34,194	5,425	39,446	34,045	5,401
200	0 44,525	35,881	8,644	42,546	34,194	8,352	42,360	34,045	8,316
200	1 47,980	35,881	12,099	45,825	34,194	11,631	45,625	34,045	11,580
200	2 50,974	35,881	15,093	48,684	34,194	14,490	48,472	34,045	14,427
200	3 53,892	35,881	18,011	51,471	34,194	17,277	51,247	34,045	17,202
200	4 56,942	35,881	21,061	54,384	34,194	20,190	54,147	34,045	20,102
200	60,051	35,881	24,170	57,353	34,194	23,159	57,103	34,045	23,058
200	63,202	35,881	27,321	60,367	34,194	26,173	60,104	34,045	26,059
200	7 66,399	35,881	30,518	63,421	34,194	29,227	63,144	34,045	29,100
200		35,881	33,756	66,514	34,194	32,320	66,224	34,045	32,179
200		35,881	37,035	69,646	34,194	35,452	69,342	34,045	35,297
201		35,881	40,354	72,816	34,194	38,622	72,498	34,045	38,454
201		35,881	43,726	76,026	34,194	41,832	75,694	34,045	41,650
201		35,881	46,531	78,705	34,194	44,511	78,362	34,045	44,317
201		35,881	49,337	81,385	34,194	47,191	81,030	34,045	46,985
201	1 1 1 1	35,881	52,143	84,064	34,194	49,870	83,697	34,045	49,653
201	5 90,829	35,881	54,948	86,743	34,194	52,549	86,365	34,045	52,320
201		35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
201	7 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
201		35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
201	9 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202	0 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202	1 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202	2 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202	3 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202	4 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202		35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202	***	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202		35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202		35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
202	9 93,665	35,881	57,784	89,423	34,194	55,229	89,033	34,045	54,988
Tota	1 2,480,214	1,148,192	1,332,022	2,368,308	1,094,208	1.1,274,100	2,357,980	1.089,436	1,268,544

Appendix 11,3-3 **Total Energy Losses**

1	Subtr	ansmission MV	V Loss			Total				
	Terminal Station	Distribution	Subtransmission				1996 MEA	Decrement		Losses
FY	(Transformer)	Substation	Loss	Load	Loss	Loss Ratio	Forecast	Percent Compare	MEA	JICA
į	A	(Power Load)	C=A-B	D=Ax8760x0.65	E=Cx8760x0.50	F=E/D	Loss Ratio	with 1996 MEA	Forecast	Forecast
	MW	B, MW	MW	GWh	GWh	*	G	Forecast, H=F-G	J %	J=H+I, %
1996							0.51%		4.70%	
1997	6,331.4	6,279.0	52.4	36,051.0	229.5	0.64%		0.13%	4.70%	4.83%
1998	6,807.0	6,774.1	32.9	38,759.1	144.1	0.37%		-0.14%	4.70%	4.56%
1999	7,364.0	7,333.9	30.1	41,930.6	131.8	0.31%		-0.20%	4.70%	4.50%
2000	7,814.1	7,788.2	25.9	44,493.5	113.4	0.25%		-0.26%	4.70%	4.44%
2001	8,396.0	8,363.0	33.0	47,806.8	144.5	0.30%		-0.21%	4.70%	4.49%
2002								-0.21%	4.70%	4.49%
2003		22			$x^{(n)} \in \mathcal{E}_{n} \times \mathcal{E}_{n}$:		-0.21%	4.70%	4.49%
2004	1.00		* *	and the gr	1.5			-0.21%	4.70%	4.49%
2005	· /		The state of					-0.21%	4.70%	4.49%
2006	10,890.7	10,848.9	41.8	62,011.6	183.1	0.30%		-0.21%	4.70%	4.49%
2007		1 10						-0.21%	4.70%	4.49%
2008								-0.21%	4.70%	4.49%
2009]		-0.21%	4.70%	4.49%
2010		1						-0.21%	4.70%	4.49%
2011	13,675.2	13,620.4	54.8	77,866.6	240.0	0.31%		-0.20%	4.70%	4.50%
2012					Age of the			-0.20%	4.70%	4.50%
2013								-0.20%	4.70%	4.50%
2014	1							-0.20%	4.70%	4.50%
2015		-3-1 g - 1 fg [1	44			İ	-0.20%	4.70%	4.50%
2016	16,062.9	15,992.2	70.7	91,462.2	309.7	0.34%		-0.17%	4.70%	4.53%
		tion in the		72		2,2,7,0		-0.1701	1.70/01	7.3376

Load Factor: 0.65 Loss Factor: 0.50

fire a

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1,500,000

Appendix 11.4-1 Construction Cost for Economic Analysis

	Appendix 1				Economic A								·				(1,000 US\$
		Subtrariam	ssion Line			Distribution	Substation			Telecone	runciion.			Distribution	Fecilities		Total
	Construction	Value	Import	Construction	Construction	Velan	Import	Construction	Construction	Value	Import	Construction	Construction	Velue	import :	Construction	Construction
ก	Cost for	Added	Duty	Cost for	Cost for	Added	Duty	Cost for	Cost for	A0000	Duty	Cost for	Cost for	Added	Duty	Cost for	Cost
٠. ا		Yex	,	for Armiyan		Yax		tor Analysis		Text		for Analysis		Tax		for Analysis	for Analysis
			c ·	D*A(8+C)	· E	F	G	H+E-(F+G)		_ , _ 1	ĸ	L*H(J+K)		N.		P+M-(N+Q)	D+H+L+P
1996					57,248	3,259	2,799	51,191	0	0	0	0	38,345	2,183	1,875	34,288	85,478
1997	28,048	1,597	1,391	25,060	125,444	7,142	6,237	112,066	2,948	173	687	2.087	104,784	5,969	5,569	93,245	232,459
1998	23,690	1,347	964	21,379	90,468	5,152	4,698	80,618	2,433	143	568	1,722	78,092	4,448	4,173	69,471	173,190
1999	39,904	2.272	1,979	35,653	102,597	5,838	4,884	91,875	2,059	121	: 478	1 460	96,827	5,513	4,917	86,396	215,384
2000	116,044	6,616	6,786	102 642	152,766	8,692	7,148	136 925		181	717	2,190	182,118	10,375	9,814	161,929	403,686
2001	13,655	778			103,299	5,882	5,268	92,149	2,948	173	687	2,087	80,310	4,577	4,491	71,242	177,60
2002	10,000		٥	اه	0	. 0	0	0	0	. 0	0	0	0	0	0	0	(
2003	اة ا	ň	ŏ	l ō	Ō	o	0	- 0	l oʻ	0	0	0	0	0]	0	미	
2004	اۃ	ñ	ō	ا ا	ō	. 0	Ó	0	. 0	0	0	1 0	0	0	0	ᅵ 이	. (
2005	اة	0	ŏ	0	156,370	8,901	7,684	139,785	0	٥	0	0	104,737	5,962	5,147	93,628	233,413
2006		18,839	19,023	292,616	234,556		11,526	209,678		398	1,584	4,802	383,004	21,828	21,523	339,653	846,74
2007	0	0	0	0	0	0	0	· 0	0	. 0	. 0	0	1 0	- 0	0	j 0	(
2008	اما	Ď	Ō	١٥	0	. 0	0		0	. 0	0	0	0	. 0	0	٥	
2009	ĺõ	0	Ö	0	0	0	. 0	0	0	0	0	. 0	0	.0	0	0	
2010	ō	Ó	٥		107,226	6,103	5,221	95,902	1 0	. 0	0	0	71,820	4,088	3,497		160,13
2011		3,071	2,719	48,145	180,838	9,155	7,830	143,853	3,861	227	896	2,738	146,441	8.340	7,666	130,434	325,16
2012		0	0		0	0	0	0	0	0	. 0	0	0	o	. 0	0	(
2013		0	l o	0	: 0	0	0	0	0	. 0	0	0	0	이	0	0	"
2014		Ō	Ö	0	l o	0	0	0	. 0	0) 0	[0	0	. 0	0	0	
2015		Ō	0	0	90,341	5,141	4,233] 0	0	1 0	0		3,443	2,835		135,19
2016		4,695	4,821	72,828	135,512	7,710	6,350	121,451	3,064	:180	- 717	2 167	147,972	8,429	7,963	131,580	328,02
						1.			1.			1 .				1	
Total	688.097	39,213	38,435	610,449	1,516,665	86,327	73,878	1,356,460	27,184	1,595	6,335	19,254	1,494,960	85,156	<u>79,471</u>	1,330,333	3,316,49

Appendix 11.4-2 Operation and Maintenance Cost

FY	Construction Cost without VAT and	operation Operation and Maintenance Cost	Construction Cost without VAT and	Substation Operation and Maintenance Cost	Construction Cost without VAT and	nunication Operation and Maintenance Cost	Distribution Construction Cost without VAT and	Operation and Maintenance Cost	Total Operation and Maintenance Cost
	Import Duty	3.00%	import Duty	4.00%	Import Duty	4.00%	Import Duty	4.00%	ļ
1996	0	0	51,191	0	0	0	34,288	0	9
1997	25,060	0	112,066	0	2,087	0	93,245	0	0
1998	21,379	752	80,618	5,119	1,722	83	69,471	4,156	10,110
1999	35,653	1,393	91,875	8,647	1,460	152	86,396	7,138	17,331
2000	102,642	2,463	136,925	11,417	2,190	211	161,929	9,988	24,078
2001	12,127	5,542	92,149	16,450	2,087	298	71,242	16,167	38,457
2002	. 0	5,906	60	22,593	·	382	0	20,663	49,544
2003	. 0	5,906	0	22,593	0	382	0	20,663	-: 49,544
2004	. 0	5,906	0	22,593	0	382	0	20,663	49,544
2005	0	5,906	139,785	22,593	0.	382	93,628	20,663	49,544
2006	292,616	5,906	209,678	22,593	4,802	382	339,653	20,663	49,544
2007	0	14,684	0	36,571	0	574	0	37,994	89,824
2008	l o	14,684	0	36,571	O	574	0	37,994	89,824
2009	Ō	14,684	0	36,571	0	574	0	37,994	89,824
2010	0	14,684	95,902	36,571	0	574	64,235	37,994	89,824
2011	48,145	14,684	143,853	36,571	2,738	574	130,434	37,994	89,824
2012	-0,1,0	16,129	0	46,162	0	683	0	45,781	108,75
2013	Ŏ	16,129	Ö	46,162	Ō	683	0	45,781	108,75
2014	Ŏ	16,129	Ŏ	46,162	Ŏ	683	0	45,781	108,755
2015	4 ′	16,129	80,967	46,162	ľŏ	683	54,232	45,781	108,75
2016		16,129	121,451	46,162	2,167	683	131,580	45,781	108,75
2017		18,313	121,701	54,258	Carlo	770		53,213	126,55
2018		18,313	11.00	54,258		770		53,213	126,55
		18,313		54,258		770		53,213	126,55
2019 2020		18,313		54,258		770		53,213	126,55
2020	laging alte	18,313		54,258		770		53,213	126,55
2022		18,313		54,258	Later Are	770		53,213	126,55
2022				54,258		770		53,213	126,55
		18,313	165 July 18	54,258	aller baren	770		53,213	126,55
2024		18,313	This Note	54,258		770		53,213	126,55
2025		18,313		54,258	Profession for	770		53,213	126,55
2026		18,313	Talent Grand			770		53,213	126,55
2027		18,313	1.14.3%	54,258	In Milian	770		53,213	126,55
2028		18,313		54,258	1345 B3	770		53,213	126,55
2029		18,313		54,258		110		33,213	120,00
1	610,449	431,819	1,356,460	1,273,622	19,254	18,953	1,330,333	1,251,412	2,975,80

Appendix 11.4-3 MEA's Average Energy Purchase and Sales Price

Г		Energy Purch	hase Price, per kl	Wh Purchasa	France	ales Price, per kV	Wh Sales
	† İ	Actual Average	Constant	Estimation	Actual Average	Constant	Vn Sales Estimation
No.	FY	Purchase Price	1995 Price	Purchase Price	Sales Price	1995 Price	Sales Price
		(Beht/kWh)	(Beht/kWh)	(Baht/kWh)	(Baht/tWh)	(Baht/kWh)	(Baht/kWh)
	1990				1.7905		1 1
(1991				1.8039		200
	1992	1.4426			1.7510		
	1993	1.4637			1.7766		
	1994	1.4460		+ *	1.7720		
	1995	1.3893	1.3893	1.3893	1.7444	1.7444	1.7444
1	1996		1.3893	1.4588		1.7444	1.8316
2	1997		1.3893	1.5317		1.7444	1.9232
3	1998		1.3893	1.6083	*	1.7444	2.0194
4	1999		1.3893	1.6687		1.7444	2.1203
. 5	2000		1.3893	1.7731		1,7444	2.2263
- 6	2001	ł	1.3893	1.8618	- 10	1.7444	2.3377
7	2002		1.3893	1.9549	·	1.7444	2.4545
8	2003		1,3893	2.0526	. i i i	1.7444	2.5773
9	2004	1	1.3893	2.1553		1.7444	2.7061
10	2005		1.3893	2.2630	1	1.7444	2.8414
11	2006	ŀ	1.3893	2.3762		1.7444	2.9835
12	2007		1.3893	2.4950		1.7444	3.1327
13	2008		1.3893	2.6197	- 10 m	1.7444	3.2893
14	2009		1.3893	2.7507		1.7444	3.4538
- 15	2010		1.3893	2.8883	[1.7444	3,6265
16	2011	İ	1.3893	3.0327		1,7444	3.8078
17	2012		1.3893	3.1843		1.7444	3,9982
18	2013		1.3893	3.3435	. 1	1.7444	4.1981
19	2014		1.3893	3.5107	- 1	1.7444	4.4080
20	2015		1.3893	3.6862		1.7444	4.6284
21	2016		1.3893	3.8705		1.7444	4.8598
22	2017		1.3893	4.0641		1.7444	5,1028
23	2018		1.3893	4.2673		1.7444	5,3580
24	2019		1.3893	4.4806		1.7444	5.6259
25	2020	-	1.3893	4.7047	a Artico	1,7444	5.9072
26	2021		1.3893	4.9399	Carlo See	1.7444	6.2025
27	2022		1.3893	5.1869	}	1,7444	6.5126
28	2023		1.3893	5.4462	1	1.7444	6.8383
29	2024		1.3893	5.7185	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.7444	7,1802
30	2025		1.3893	6.0045	1	1,7444	7,5392
31	2026		1.3893	6.3047	İ	1,7444	7.9162
32	2027		1.3893	6,6199	- 1	1.7444	8.3120
33	2028		1.3893	6.9509	·	1.7444	8.7276
34	2029		1.3893	7.2985		1.7444	9.1639

Escalation: 5.00%

Appendix 11.4-4 Energy Purchase, Sales and Environmental Poliution Prevention Cost

			y Purchase			Energy	sales	1 7	E	nvironmental Pollugio	c Prevention	Cost	Benefit
	Incremental	Pulchase Price	Purchase	Purchase	Incremental Energy	Sales Price	Sales	Sales	Energy	De-SOx & De-NOx	Benefit	Senett.	Total
FY	Energy	of MEA	Bark	Dollar	without Street Lighting	of MEA	Barnt	Dollar	Saving	Operation Cost	Beht	Dotter	Dollar
		<u> </u>	C=AxB		0	E	F#DxE	Ç	н "		J=Had	""	G+K
998	¢wn.	Baht/kWh	Million Baht	1,000 US\$	GWh	Baht/M//h	Million Baht	1,000 US\$	GWh	Baht/kWh	Million Baht	1,000 US\$	1,000 USS
330	2,696	1.3893	3,745.26	149,811	2,612	1.7444	4,555.61	182,224	55	0.1633	9.02	361	182.5
2000	5,607	1.3893	7.789.50	311,580	5,401	1.7444	9,422,10	376,884	85	0.1633	13,92	557	377.4
2001	8,644 12,099	1.3893	12,009.28	480,371	8,316	1.7444	14,505,69	580,228	119	0.1633	19.41	776	581.0
		1.3893	16,809.76	672,390	11,580	1.7444	20,200,64	808,025	105	0.1633	17.07	683	808.7
002	15,093	1.3893	20,968.60	838,744	14,427	1.7444	25,166.13	1,006,645	: 111	0.1633	18.14	726	1,007,3
	18,011	1.3893	25,022.70	1,000,908	17,202	1.7444	30,006,57	1,200,263	117	0.1633	19.10	764	1,201,0
004	21,061	1,3893	29,260.09	1,170,404	20,102	1.7444	35,065,84	1,402,634	124	0.1633	20.24	810	1,403,4
005	24,170	1.3893	33,578.94	1,343,158	23,058	1,7444	40,222.38		130	0.1633	21.28	851	1,609,7
006	27,321	1.3893	37,956.72	1,518,269	26,059	1.7444	45,457,07	1.818.283	143	0.1633	23,39	936	1,819,2
007	30,518	1.3893	42,398.88	1,695,955	29,100	1.7444	50,761,24	2,030,450	150	0.1633	24.47	979	2.031.4
008	33,756	1.3893	46,897.77	1,875,911	32,179	1.7444	56,133.14	2,245,326	157	0.1633	25.57	1.023	2,246,3
009	37,035	1.3893	51,453,39	2,058,136	35,297	1.7444	61,572,77	2,462,911	164	0.1633	26.70	1.068	2,463,9
310	40,354	1.3893	56,064.28	2,242,571	38,454	1.7444	67,078,41	2,683,136	172	0.1633	28.03	1.121	2,684,2
)11	43,726	1.3893	60,748.42	2,429,937	41,650	1.7444	72,653,51	2,906,140	168	0.1633	27.45	1.098	
112	46,531	1.3893	64,645.66	2,585,826	44,317	1.7444	77,306,38	3,092,255	175	0.1633	28.56	1 142	2,907,2 3,093,3
13	49,337	1.3893	68,544.36	2,741,774	46,965	1.7444	81,960,98	3,278,439	180	0.1633	29.34	1.174	3.279,6
114	52,143	1.3893	72,441,60	2,897,664	49,653	1.7444	86,613,85		186	0.1633	30,45	1.218	
115	54,948	1.3893	76,338.84	3,053,554	52,320	1.7444	91,266,72	3,650,669	192	0.1633	31.40	1,256	3,465,7
)16	57,784	1.3893	80,278.66	3,211,154	54,988	1.7444	95,921.32	3,836,853	168	0.1633	27.49	1.100	3,551,9
)17	57,784	1,3893	80,278.86	3,211,154	54,988	1.7444	95,921,32	3,836,853	168	0.1633	27.49	1.100	3,837,9
118	57,784	1.3893	80,278.86	3,211,154	54,988	1.7444	95,921,32	3,836,853	168	0.1633	27.49		3,837,9
119	57,784	1,3893	80,278,86	3,211,154	54 988	1.7444	95,921,32	3.836.853	168	0.1633		1,100	3,837,9
20	57,784	1.3893	80,278.86	3,211,154	54,988	1.7444	95,921,32	3.836.853	168	0.1633	27.49	1,100	3,837,9
121	57,784	1.3893	80,278.86	3,211,154	54,988	1.7444	95,921.32	3,836,853	168	0.1633	27.49 27.49	1,100	3,837,9
22	57,784	1.3893	80,278.86	3,211,154	54,988	1.7444	95,921,32	3.836.853	168	0.1633		1,100	3,837,9
23	57,784	1.3893	80,278.86	3,211,154	54,988	1.7444	95,921.32	3.836.853	168	0.1633	27.49	1,100	3,837,9
24	57,784	1.3893	80,278.86	3,211,154	54,988	1.7444	95,921,32	3,836,853	168		27.49	1,100	3,837,9
25	57,784	1.3893	80,278,86	3,211,154	54,988	1.7444	95,921,32	3,836,853	168	0.1633	27.49	1,100	3,837,8
126	57,784	1,3893	80,278,86	3,211,154	54,988	1,7444	95,921.32	3.836,853	168	0.1633	27.49	1.100	3,837,9
127	57,784	1.3893	80,278,86	3,211,154	54,988	1,7444	95,921,32	3.836,853	168	0.1633	27,49	1.100	3,837,9
28	57.784	1.3893	80,278,86	3,211,154	54.988	1.7444	95,921,32	3,836,853		0.1633	27.49	1,100	3,837,9
729	57.784	1,3893	80,278,86	3,211,154	54.988	1,7444	95.921.32	3,836,853	168	0.1633	27,49	1,100	3,837,9
. 1		1.202.		'''	37,540	1.1	50,321.32	3,636,633	168	0.1633	27.49	1,100	3,837,9
tal	1,332,022	·	1,850,578,07	74 023 123	1,268,544		2,212,847,51	99 512 000	أحوره	1			
	5 Sept. Sept. 1				-,400,0111		5.4.4.011.01	00/010/001	4.009	<u> </u>	798.39	31.3351	88,545,8

US 15

25.00 Baht

Control Sulfur Oxide Cost : Control Nitrogen Oxides Cost 16.00 Stang/kWh 0.33 Stang/kWh

Appendix 11.4-5. Benefit Flow and Cost Flow of the Project

count					Cost		1	8en	efit	
e	No.	FY	Construction	O&M	Energy Purchase	Total	PV	Total	PV	NPV
0.00%	1	1996	85,478	·		85,478	77,708		o	-77,7
	2	1997	232,459		i	232,459	192,115		0	-192,1
	3	1998	173,190	10,110	149,811	333,111	250,271	182,585	137,179	-113,0
	4	1999	215,384	17,331	311,580	544,296	371,761	377,441	257,797	-113,9
	5	2000	403,686	24,078	480,371	908,135	563,880	581,004	360,758	-203,1
	6	2001	177,606	38,457	672,390	888,453	501,509	808,708	456,495	-45.0
	7	2002	0	49,544	838,744	888,287	455,832	1,007,371	516,940	61,
	8	2003	0	49,544	1,000,908	1,060,452	490,043	1,201,027	560,288	70,2
	9	2004		49,544	1,170,404	1,219,947	517,377	1,403,444	595,197	77,8
1	10	2005	233,413	49,544	1,343,158	1,626,115	626,938	1,609,746	620,627	6.
	11	2006	846,748	49,544	1,518,269	2,414,560	846,289	1,819,219	637,625	-208,6
	12	2007	0	89,824	1,695,955	1,785,779	569,004	2,031,428	647,276	78,2
	13	2008	o	89,824	1,875,911	1,965,735	569,403	2,246,348	650,687	81,2
	14	2009	o	89,824	2,058,136	2,147,960	565,625	2,463,979	648,843	83,2
	15	2010	160,137	89,824	2,242,571	2,492,532	596,692	2,684,258	642,590	45,8
	16	2011	325,169	89,824	2,429,937	2,844,930	619,140	2,907,238	632,700	13,5
	17	2012	0	108,755	2,585,826	2,694,581	533,108	3,093,398	612,012	78.
	18	2013	0	108,755	2,741,774	2,850,529	512,693	3,279,613	589,867	77,
	19	2014	o	108,755	2,897,664	3,006,419	491,573	3,465,772	566,681	75.
	20	2015	135,199	108,755	3,053,554	3,297,507	490,153	3,651,925	542,835	52,0
	21	2016	328,026	108,755	3,211,154	3,647,935	492,948	3,837,952	518,625	25
i	22	2017		126,555	3,211,154	3,337,710	410,024	3,837,952	471,477	61,4
	23	2018		126,555	3,211,154	3,337,710	372,749	3,837,952	428,615	55,8
	24	2019		126,555	3,211,154	3,337,710	338,863	3,837,952	389,650	50,
	25	2020		126,555	3,211,154	3,337,710	308,057	3,837,952	354,228	46,
	26	2021	1 1	126,555	3,211,154	3,337,710	280,052	3,837,952	322,025	41.9
	27	2022		126,555	3,211,154	3,337,710	254,593	3,837,952	292,750	38,1
	28	2023		126,555	3,211,154	3,337,710	231,448	3,837,952	266,136	34,6
	29	2024	1	126,555	3,211,154	3,337,710	210,407	3,837,952	241,942	31,5
	30	2025	1 1	126,555	3,211,154	3,337,710	191,279	3,837,952	219,947	28,6
	31	2026	[126,555	3,211,154	3,337,710	173,890	3,837,952	199,952	26,0
	32	2027	•	126,555	3,211,154	3,337,710	158,082	3,837,952	181,775	23,6
	33	2028	<u> </u>	126,555	3,211,154	3,337,710	143,711	3,837,952	165,250	21.
	34	2029		126,555	3,211,154	3,337,710	130,646	3,837,952	150,227	19,
		Total	3,316,495	2,975,806	.74,023,123	80,315,424	13,537,865	00 545 036	13,878,998	341

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			Appendix 11	.4-6 Calc	ulation of EIRR	!		\$		(1,000 US\$)
Discount			 		Cost			Bene	et T	(1,000 033)
Rate	No.	FY	Construction	OAM	Energy Purchase	Total	PV	Total	PV	NPV
12.5811%	1	1996	85,478	0		85,478	75,926		0	-75,926
	-21	1997	232,459	. 0		232,459	183,407		ol	-183,407
	2	1998	173,190	10,110	149,811	333,111	233,449	182,585	127,958	-105,491
	4	1999	215,384	17,331	311,580	544,295	338 822	377,441	234,956	-103,867
	5	2000	403 686	24,078	480,371	908,135	502 137	581,004	321,256	-180,881
	6	2001	177,606	38,457	672,390	888,453	436,356	808,708	397,190	-39,166
	7	2002	0	49,544	838,744	888,287	387,520	1,007,371	439,471	51,951
ł	. 8	2003	. 0	49,544	1,000,908	1,050,452	407,053	1,201,027	465,401	58,348
	9	2004	o	49.544	1,170,404	1,219,947	419,904	1,403,444	483,064	63,159
	10	2005	233,413	49.544	1,343,158	1,626,115	497,159	1,609,746	492,154	-5,004
	11	2006	846,748	49,544	1,518,269	2,414,560	655,717	1,819,219	494,041	-161,676
	12	2007	0	89,824	1,695,955	1,785,779	430,765	2,031,428	490,020	59,255
100	13	2008	0	89.824	1,875,911	1,965,735	421 184	2,246,348	481,309	60,125
	14	2009	0	89,824		2,147,960	408,797	2,463,979	468,941	60,144
	15	2010	160,137	89,824		2,492,532	421,363	2,684,258	453,774	32,411
	16	2011	325,169	89,824	2,429,937	2,844,930	427,190	2,907,238	436,547	9,356
	17	2012	0	108,755	2,585,826	2,694,581	359,398	3,093,398	412 591	53,193
	18	2013	0	108,755	2,741,774	2,850,529	337,710	3,279,613	388,545	50,835
	19	2014	. 0	108,755	2,897,664	3,006,419	316,375	3,465,772	364,715	48,339
	20	2015	135,199	108,755		3,297,507			341,357	33,129
	21	2016	328,026	108,755		3,647,935	302,879	3,837,952	318,656	15,777
	22	2017		126,555		3,337,710	246 153	3,837,952	283,045	36,892
	23	2018		126,555		3,337,710	218,645	3,837,952	251,414	32,770
•	24	2019	4.77	126,555		3,337,710	194,211	3,837,952	223,318	29,108
	25	2020		126,555		3,337,710		3,837,952	198,362	25,855
	26	2021		126,555		3,337,710	153,230	3,837,952	176,195	22,965
4.	27	2022		126,555		3,337,710	136,106	3,837,952	156,505	20,399
	28	2023	1	126,555		3,337,710	120,896	3,837,952	139,015	18,119
	29	2024		126,555	3,211,154	3,337,710	107,385	3,837,952	123,480	16,095
	30	2025		126,555		3,337,710	95,385	3,837,952	109,681	14,296
	31	2026		126,555		3,337,710	84,726	3,837,952	97,424	12,698
	32	2027		128,555		3,337,710	75,257	3,837,952	86 537	11,279
1.04.6	33	2028	1.5%	126,555		3,337,710	66,847	3,837,952	76,866	10,019
	34	2029		126,555		3,337,710	59,377	3,837,952	68,276	8,899
			0.040.405	0.075.000	7, 000, 400	90 945 494	0.000.005	00 545 000	0.602.065	_
	1	Total	3,316,495	2,975,006	74,023,123	00,315,424	9,602,065	88,545,836	8,0UZ,U00	0

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APPENDIX

for

CHAPTER 12

Appendix 12.4-1 Construction Cost for Financial Analysis

100	Appendix			on Cost tol			-	· .				·	(1,000 US\$)
	Subt	ranamission	Line	Distr	ibution Subst	ation	Tele	communica	tion	Dis	tribution Sys	iem ·	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
	Cost	Tax	Analysis	Cost	Tax	Analysis	Cost	Tax	Analysis	Cost	Tax	Analysis	Analysis
1.11	Α	8	C=A-B	D	Ε	F=O-E	G	н	I=G+H	J	ĸ	L*J+K	C+F+1+L
1996	0	. 0	0	57,248	3,259	53,990	0	, 0	0	38,345	2,183	36,162	90,152
1997	28,048	1,597	26,451	125,444	7,142	118,303	2,948	173			5,969	98,815	246,344
1998	23,690	1,347	22,343	90,468	5,152	85,316	2,433	143	2,290	78,092	4,448	73,644	183,593
1999	39,904	. 2,272	37,632	102,597	5,838	96,759	2,059	121	1,938	96,827	5,513	91,313	227,643
2000	116,044	6,616	109,428	152,766	8,692	144,073	3,088	181	2,907	182,118	10,375	171,743	428,151
2001	13,655	778	12,877	103,299	5,882	97,417	2,948	173	2,775	80,310	4,577	75,734	188,802
2002	0	0	0	이	. 0	0	.0	0	0	: 0	- 0	. 0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	. 0	이
2005	0	0	0	156,370	8,901	147,469	0	0	0	104,737	5,962	98,775	
2006	330,478	18,839	311,639	234,556	13,352	221,204	6,784	398	6,386	383,004	21,828	361,176	900,406
2007	0	0	0	0	0	0	. 0	. 0	0	0	0	E' 0'	이
2008	0	. 0	0	0	0	0	0	0	0	0	. 0	0	이
2009	0	0	0	0	0	0	0	; 0	0	0	0	0	이
2010		0	0	107,226	6,103		0	0	0	71,820	4,088		168,854
2011	53,935	3,071	50,864	160,838	9,155	151,683	. 3,861	227	3,634	146,441	8,340	138,100	344,281
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	- O	0	[0	0	0	0	0	0	0	. 0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	- 0	0	90,341	5,141			0	0	60,511	3,443		142 268
2016	82,344	4,695	77,649	135,512	7,710	127,801	3,064	180	2,884	147,972	8,429	139,543	347,878
									1				l
Total	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	3,514,615

Appendix 12.4-2 Calculation of FIRR

						+4, 7	ani di Tabi			(1,000 US\$)
Discount	AT 2	-:		<u> </u>	Cost			· · · · · · · · · · · · · · · · · · ·	efit	13.00
Rate	No.	FΥ	Construction	Oam	Energy Purchase	Total	PV	Energy Sales	PV	NPV
11.7922%	. 1	.1996	90,152	0	e Mesis	90,152	80,642		0	-80,642
1.55	. 2	1997	246,344	0		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
10.00	4	1999	227,643	17,331	311,580	556,554	356,337	376,884	241,303	-115,035
	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
A Section 19	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
3 % %	9	2004	0	49,544	1,170,404	1,219,947	447,341	1,402,634	514,330	66,989
1 2 Sec.	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	Ö.	89,824	1,695,955	1,785,779	468,696	2,030,450	532,912	64,216
	13	2008	О .	89,824	1,875,911	1,965,735	461,506	2,245,326	527,147	65,641
	14	2009	l	89,824	2,058,136	2,147,960	451,094	2,462,911	517,237	66,143
	15	2010	168 854	89,824	2,242,571	2,501,249	469,879	2,683,136	504,048	34,169
	16	2011	344,281	89,824	2,429,937	2,864,042	481,280	2,906,140	488,354	7,074
	17	2012	0	108,755	2,585,826	2,694,581	405,040	3,092,255	464,817	59,777
		2013	0	108,755	2,741,774	2,850,529	383,284	3,278,439	440,821	57,537
And the base	19			108,755	2,897,664	3,006,419	361,604	3,464,554	416,707	55,103
201.36	20	2015	142,268	108,755	3,053,554	3,304,576	355,540	3,650,669	392,776	37,236
455.70	21	2016		108,755	3,211,154	3,667,786	352,992	3,836,853	369,263	16,271
L. Nastr	22	2017		126,555	3,211,154	3,337,710	287,342	3,836,853	330,312	42,971
in Referen	23	2018		126,555	3,211,154	3,337,710	257,032	3,836,853	295,470	38,438
	24	2019	10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 March 19 10 Mar	126,555	3,211,154	3,337,710	229,919	3,836,853	264,303	34,384
1,45.34	25	2020	 J. Chr. Straff C. Co. C. 	126,555	3,211,154	3,337,710	205,687	3,836,853	238,424	30,757
	26	2021		126,555	3,211,154	3,337,710	183,972	3,836,853	211,485	27,512
	27	2022		126,555	3,211,154	3,337,710	164,567	3,836,853	189,177	24,610
	28	2023	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	126,555	3,211,154	3,337,710	147,208	3,836,853	169,222	22,014
	29	2024	1 0	126,555	3,211,154	3,337,710	131,680	3,836,853	151,372	19,692
	30	2025		126,555	3,211,154	3,337,710	117,790	3,836,853	135,405	17,615
	31	2026		126,555	3,211,154	3,337,710	105,365	3,836,853	121,122	15,757
100	32	2027		126,555	3,211,154	3,337,710	94,251	3,836,853	108,348	14,095
	33	2028	1	126,555	3,211,154	3,337,710	84,309	3,836,853	96,917	12,608
100	34	2029	1	126,555	3,211,154	3,337,710	75,416	3,836,853	86,694	11,278
and Marketin		Total	3,514,615	2,975,806	74,023,123	80,513,543	10,697,232	88,513,900	10,697,232	0

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Appendix 12.5-1 Construction Cost divided into Foreign and Local Currency Portion

-		Construction Subtransmin				Constructio Subst				Constructio Telecomen				Constructor Distribution		1,1	Total Const Cost
	Total	Foreign	Local	Local Vat	Total	Foreign	Local	Local Val	Total	Foreign	Local	Local Vet	Total	Foreign	Local	Local Vat	a+b+d+a
FY	(a)+(a)	(3)	(b)	(c)	(d)+(e)	(4)	(+)	(f)	(a)+(h)	(0)	(h)	ا م	Ø+00	Ω	(N)	ا ا	a+h+i+k
1996	0	. 0	0	0	57,248	32,393	24,855	3,259	. 0	. 0	0	0	38,345	21.697	16,648	2,183	
1997	28,048	13,558	14,490	1,597	85,872	48,590	37,283	4,868	2,948	1,722	1,226	173	78.278	42.780	35,498	4,459	
	28,048		<u> </u>		143,121				2,948				116,623			1.00	290,740
1997	. 0	0	: 0	0	39,572	24,525	15,047	2,254	0	Ö	. 0	. 0	26,505	15,427	10,078	1,509	66,077
1998	23,690	7,490	16,200	1,347	59,358	36,788	22,570	3,380	2,433	1,421	1,012	143		30,609	26,646	3,262	142,736
	23,690				98,930				2,433				83.760		20.0.0	5,202	208.813
1998	0	0	0	. ∶o	31,110	19,967	11,143	1,772	0	. 0	0	0		13,374	7,463	1,187	51.947
1999	39,904	19 367	20,536	2,272	46,664	29,951	16,713	2,658	2,059	1,204	855	121	59,362	33,840	25,523	3.383	147,989
لنت	39,904				77,774				2,059			1.0	80,200		20,020	3,303	199,936
1999	0	. 0	· D	0	55,933	33,114	22,820	3,181	0	0	0	. 0		22,180	15,285	2,131	93 397
2000	116,044	72,430	43,614	6,616	83,900	49,670	34,229	4,771	3,088	1,806	1,283	181	135,991	82,992	52,999	7,749	339.023
]	116,044				139,833				3,068	.,	,,		173,455	02,004	32,333	7,145	432 420
2000	0	. 0	0	0	68,866	40,474	28,392	3.921	0	0	0	. 0	46,127	27,110	19.017	2.626	114,993
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	
	13,655		- 1		172,165				2,948		,,		126.437	77,037	33,210	4,577	200,212 315,205
2005	0	. 0	0	o	156,370	96,509	59,861	8,901	o	0	0	0	104,737	64.642	40,095	5,962	
2006	330,478	202,350	128,128	18,839	234,556	144,784	89,792	13,352	6,784	3.961	2,823	398	383,004	235.151	147,853	21.828	261,107
	330,478				390,926	'	1		6,784	- 1,1,1			487.741	200,101	147,033	21,020	954,621
2010	0	0	. 0	0.	107,226	61,330	45,895	6,103	0	0	0	0	71,820	41,079	30.741		1,215,929
2011	53,935	27,335	26,600	3,071	160.838	91,996	68.842	9,155	3,861	2.257	1,603	227	146,441			4,088	179,045
	53,935				268,064				3.861	2,207	1,003	221	218,261	81,440	65,001	8,340	365,074
2015	0	0	. 0	0	90.341	53,388	36,953	5.141	0.001	0	0	0		25.750			544 119
2016	82,344	50,921	31,423	4.695	135,512	80,082	55,429	7,710	3.064	1,788	1,276	180	60,511	35,759	24,751	3,443	150,852
[82,344				225,653	-5,044	55,412		3,064	1,700	1,270	100	147,972	88,944	59,028	8,429	368,892
									3,004				208,483				519,744
fotal	688,097	401,329	286,768	39.213	1.516.665	904.252	612.413	86.327	27.164	15.880	11,304	1,595	1,494,960	885 116	609 843	85,156	3,726,906

Appendix 12.5-2 Calculation of Interest during Construction

		ruction Cost wi		The state of the state of	truction Cost Tafter Escal		. "	Interest during Construction	,	Finai	ncing for Cons	truction
FY	Foreign a+d+g+i	Local b-c+ e-f+h-i+k-i	Total	Foreign	Local	Total	Foreign	Local	Total	Foreign	Local	Grand
1996	54,090	36,062	90,152	55,280	37,637	92,918	4.025	0.440	4.004			Total
1997	106,649	77,380	184,029	111.394	84,310		1,935	2,446	4,381	57,215		97,299
	100,040	77,550	274,181	111,394	04,310		7,768	10,373	18,141	119,162	94,683	213,845
1997	40,952	21,362	62,314	40.774	00.004	288,621			22,523			311,144
1998	76,307	- ,		42,774	23,204	65,977	1,497	1,508	3,005	1,	24,712	68,982
1330	10,301	58,297	134,605	81,455	66,357	147,813	5,845	7,330			73,687	160,987
1998	33,341	45.045	196,919			213,790			16,180)	229,970
1999		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
4000	55.000		188,545			210,698			14,656	rest from		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		12,296	14,084	26,381	242,978	152,933	395,911
			407,792		7. 7.	468,769	- 38.5%	<u> </u>	31,022			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		200	351,577		<u>.e.</u> .e[28,420			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		0.10,020	1,676,866
2010	102,410	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		626,411
			513,136	- 1 ' T		840,895	77.7	30,33	68,293	007,000	010,023	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	
2016	221,735	126,142	347.878	350,190	310,447	660,637	21,900	36,667	58,566	372,090		277,653
l	#N		490,145			925,225	,000	~,,,,,,,,,,,	71,632	312,030	347,114	719,203
				1.7	ti wa ji ku	<u> </u>	4		11,032			<u>996.857</u>
otal	2,206,578	1,308,036	3.514.615	2.781.243	2 090 478	4,871,721	149,798	207,647	267 446	2,931,041	a aaa . aa	5,229,166

Foreign Currency Pt 2.2%
Local Currency Port 5.0%

Interest Rate
Foreign Currency Portion
Local Currency Portion

7.0% 13.0%

Appendix 12.5-3 Operation and Maintenance Cost

-)		Subtraction	issuon time		l	Distribution	Substation		1. 1. A. C.	Telecomm	uruc sibore	110		· Drainbutor	Facilitati		l otal
Ì	Co	estriction Co		Operation		PRINCESON CO.		Operation	Com	ruction Cost		Operation	Ċ	enstruction Cos	ł	Operation	Operator
·Ì	webout VAT		-	and	work VAT			and .	webood VAT			end	method VAT			and	and .
- 1	and	Escalation	Yes	Maintenance		Escator	Total	Maintenance	proj	Escalation	Total	Martenance		Escalen	T quad	Mantenance	Martena
- 1	Import Duty			Con	Import Duby			Cost	Impert Duty			Cost	Import Duty			Cost	Cosi
96	n	0	0		51,191	1,595	52,786	0	0	Ó	Ó	0	34,288	1,068	35,356	0	
37	25,060	1,732	26,792		112,066	6,975	119,041	آ ا	2,087	108	2,195	ľ	93,245	5 904	99,150		i
8	21,379	2,652	24,030		80,618	7,265	87,883	5,378	1,722	135	1.857	88	69,471	6,733	76,204	4,379	10.
99	35,653		40,771	1,551	91,675	11,444	103,319	9,361	1,460	155	1,515	165	86 396	11 197	97,593	7,766	18
- 1	102,642	5,118 15,929			136,925			12,739	2,190	295	2,485	234	161,929	25,845	187,774	11,213	
20			118 571			22,361 18,385	159,286 110,534	18,946	2,190	342	2,430	340	71,242	14,180	85,422	18,703	44
21	12,127	2,443	14,570		92,149	18,365	110,534		2,087	342	2,430	446	11,442	14,130	05,422	24,654	59
)2	. 0	0		7,130	ļ. º	ויַי	. 0	26,854				1 1	Š	0 :	0		
)3	0	0	0	1	0	9	. 0	27,745	0		U	459	0	· •	0	25,472	61,
М	o o	0) 0	이	0	28,666	0		0	471	0	o	•	26,316	63
35	. 0	0		7,865	139,785	48,309	188,094	29,617	0		0	485	93,628	32,357	125,986	27,189	65
26	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	
)7	0	0	Ç	20,570	0	0	. 0	50,775	0	0	0	766	. 0	이	0	52,897	125
18	0	0	C	21,254	: 0	0	0	52,460	0	. 0	0	788	0	0	0	54,650	
9	0	0	- 0	21,960	. 0	0	0	54,200	0	0	0	810	0	0	0	55,462	
이	0	0	C	22,690	95,902	58,269	154,171	55,999	0	0	. 0		64,235	39,029	103,264	58,334	137
1	48,145	34,557	82.812			95,169	239,022	57,857	2,738	1,399	4,136	855	130,434	87,991	218,335	60,268	147
2	٥	اه ` ا				اه ٔ	0	75,504	0	0	١٥	1,044	: 0	0	0	75,130	178
3	0	اه ا	c			اه	0	78,010		0	0	1,074	٥	0	0	77,621	184
4	Ó	اه ا				o	0	80,598	0	٥	0	1,103	0	0	0	80,194	190
15	آ آ	أة أ	× 6		80,967	70,946	151,913	83,273	0	0		1,134	54,232	47,520	101,752	82,853	196
16	72,828	64,715	137,543		121,451	114,127	235,578	86,036	2,167	1,575	3,742		131,580	120,843	252,423	85,599	203
7	'-,	•,,,,,,		35,579	1	1		104,390			, .	1,348		`		102,604	243
8		1 1		36,762				107,854		1 :	i .	1,385				106,006	
19	l	1		37,984		t	2.5	111,433				1,424	1	1		109,520	
Ö	i .		:	39,247		İ		115,131				1,463				113,151	266
21	ì			40,551		•		118,951	25.00		1.1	1,504		1		116,902	277
22	i						ĺ					1,546	-	1		120,778	
			1.1	41,899				122,898				1,540				124,782	
3				43,292	i i ak	4.40		126,976								128,919	
4	ł	1		44,731				131,189		1	i	1,633	İ				
25				45,218				135,542		1 .	ļ	1,679	i			133,193	
26	ŀ]		47,755			3.11	140,040	1	1 .	11, 11	1,725					
27	[49,342				144,687	1		1	1,773	1	1		142,171	
28				50,982				149,488				1,823		į ·		146,884	
29				52,677		l		154,448	2 1 12 2	1. 1. 1.	ł	1,873	71.			151,754	350
		o .		1	1				100		1		· · ·]	1.1		111.
M.	610,449	240,437	850,888	869,416	1,356,460	536,056	1,892,515	2,527,646	19,254	5,567	24,820	33,523	1,330,333	323,624	1,854,158	2,492,063	5,92
	-								1.1				e i de	4.5			
		77.74	:	. 12		100	1 1 1 1 1 1					'	•				
		100	2.77	is fat		*	1										
		. A :		40 6 4	Energ	- D b		مامات أما		100							

Energy A GWh 2,696 5,607 8,644 12,099 15,093	Purchase Price of MEA B Baht/kWh 1.6083 1.6887 1,7731	Purchase Baht C=AxB Million Baht 4,335.61	Purchase Dollar 1,000 US\$	Incremental Energy without Street Lighting D GWh	Sales Price of MEA E Baht/kWh	Sales Baht F=0xE	Sales Dollar
A GWh 2,696 5,607 8,644 12,099 15,093	B Baht/kWh 1.6083 1.6887	C=AxB Million Baht 4,335.61	1,000 US\$	D	E	F=0xE	Maria de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de
GWh 2,696 5,607 8,644 12,099 15,093	Baht/kWh 1.6083 1.6887	Million Baht 4,335,61					,-
2,696 5,607 8,644 12,099 15,093	1.6083 1.6887	4,335.61		GWh i	Debinani I		
5,607 8,644 12,099 15,093	1.6887		1/3/02/03	0.040		Million Baht	1,000 USS
8,644 12,099 15,093				2,612	2.0194	5,273.68	210,94
12,099 15,093	1 77771	9,468.19	378,728		2.1203	11,452.62	458,10
15,093		15,327.23	613,089		2.2263	18,513.35	740,53
	1.8618	22,526.69	901,067	11,580		27,070.78	1,082,83
	1.9549	29,504.92	1,180,197	14,427	2.4545	35,411.27	1,416,45
18,011	2.0526	36,969.93	1,478,797			44,333.37	1,773,33
21,061	2.1553	45,392.00	1,815,680		2.7061	54,398.63	2,175,94
24,170		54,696.55	2,187,862		2.8414	65,518.02	2,620,72
27,321	2,3762	64,918.87	2,596,755		2.9835	77,747.02	3,109,88
	9.7						3,646,39
							4,233,89
							4,876,39
	ł I						5,578,04
							6,343,74
46,531	3.1843	148,169.04	5,926,762				7,087,50
49,337	3,3435	164,960.17	6,598,407		4		7,889,95
52,143	3,5107	183,056.32	7,322,253	49,653			8,754,75
54,948	3,6862	202,549.68	8,101,987	52,320		242,157.77	9,686,31
57,784	3.8705	223,653.89	8,946,156	54,988	4.8598	267,233.21	10,689,32
57,784	4.0641	234,836.59	9,393,463	54,988	5.1028	280,594.87	11,223,79
57,784	4.2673	246,578.42	9,863,137	54,988	5.3580	294,624.62	11,784,98
57,784	4.4806	258,907.34	10,356,293	54,988	5.6259	309,355.85	12,374,23
57,784	4.7047	271,852,70	10,874,108	54,988	5.9072	324,823.64	12,992,94
	4.9399	285,445.34	11,417,814		6.2025	341,064.82	13,642,59
	5.1869	299,717.61	11,988,704	54,988	6.5126	358,118.06	14,324,72
		314,703,49	12,588,139	54,988	6,8383	376,023.97	15,040,95
			13,217,546	54,988	7.1802	394,825.16	15,793,00
					7,5392	414,566,42	16,582,65
					7.9162	435,294.74	17,411,79
							18,282,37
						479,912.45	19,196,49
				The transfer of the first terms			20,156,32
1.332 022		5.880.794.56	235,231,782	1.268.544		7,029,549.13	281,181,96
	30,518 33,756 37,035 40,354 43,726 46,531 49,337 52,143 57,784 57,784 57,784 57,784 57,784 57,784 57,784 57,784 57,784 57,784 57,784 57,784 57,784 57,784	30,518 2.4950 33,756 2.6197 37,035 2.7507 40,354 2.8883 43,726 3.0327 46,531 3.1843 49,337 3.3435 52,143 3.5107 54,948 3.6862 57,784 4.0641 57,784 4.2673 57,784 4.4806 57,784 4.9399 57,784 5.1869 57,784 5.1869 57,784 5.1869 57,784 5.1869	30,518 2,4950 76,142,30 33,756 2,6197 88,432,75 37,035 2,7507 101,874,20 40,354 2,8883 116,553,62 43,726 3,0327 132,606,18 46,531 3,1843 148,169,04 49,337 3,3435 164,960,17 52,143 3,5107 183,056,32 54,948 3,6862 202,549,68 57,784 3,8705 223,653,89 57,784 4,0641 234,836,59 57,784 4,2673 246,578,42 57,784 4,2673 246,578,42 57,784 4,9399 285,445,34 57,784 5,1869 299,717,61 57,784 5,7185 330,438,66 57,784 5,7185 330,438,66 57,784 6,6199 382,524,05 57,784 6,6199 382,524,05 57,784 6,9509 401,650,26 57,784 6,9509 401,650,26 57,784 6,9509	30,518 2,4950 76,142,30 3,045,692 33,756 2,6197 88,432,75 3,537,310 37,035 2,7507 101,874,20 4,074,968 40,354 2,8883 116,553,62 4,662,145 43,726 3,0327 132,606,18 5,304,247 46,531 3,1843 148,169,04 5,926,762 49,337 3,3435 164,960,17 6,598,407 52,143 3,5107 183,056,32 7,322,253 54,948 3,6862 202,549,68 8,101,987 57,784 3,8705 223,653,89 8,946,156 57,784 4,0641 234,836,59 9,393,463 57,784 4,2673 246,578,42 9,863,137 57,784 4,7047 271,852,70 10,874,108 57,784 4,9399 285,445,34 11,417,814 57,784 5,7185 330,438,66 13,217,546 57,784 5,7185 330,438,66 13,217,546 57,784 6,6199 382,524,05	30,518 2,4950 76,142,30 3,045,692 29,100 33,756 2,6197 88,432,75 3,537,310 32,179 37,035 2,7507 101,874,20 4,074,968 35,297 40,354 2,8883 116,553,62 4,662,145 38,454 43,726 3,0327 132,606,18 5,304,247 41,650 46,531 3,1843 148,169,04 5,926,762 44,317 49,337 3,3435 164,960,17 6,598,407 46,985 52,143 3,5107 183,056,32 7,322,253 49,653 54,948 3,6862 202,549,68 8,101,987 52,320 57,784 3,8705 223,653,89 8,946,156 54,988 57,784 4,0641 234,836,59 9,393,463 54,988 57,784 4,2673 246,578,42 9,863,137 54,988 57,784 4,7047 271,852,70 10,874,108 54,988 57,784 5,1869 299,717,61 11,988,704 54,988	30,518 2,4950 76,142,30 3,045,692 29,100 3,1327 33,756 2,6197 88,432,75 3,537,310 32,179 3,2893 37,035 2,7507 101,874,20 4,074,968 35,297 3,4538 40,354 2,8883 116,553,62 4,662,145 38,454 3,6265 43,726 3,0327 132,606,18 5,304,247 41,650 3,8078 46,531 3,1843 148,169,04 5,926,762 44,317 3,9982 49,337 3,3435 164,960,17 6,598,407 46,985 4,1981 52,143 3,5107 183,056,32 7,322,253 49,653 4,4080 54,948 3,6862 202,549,68 8,101,987 52,320 4,6284 57,784 3,8705 223,653,89 8,946,156 54,988 5,1028 57,784 4,0641 234,836,59 9,393,463 54,988 5,1028 57,784 4,7047 271,852,70 10,874,108 54,988 5,6259 <	30,518 2,4950 76,142,30 3,045,692 29,100 3,1327 91,159,89 33,756 2,6197 88,432,75 3,537,310 32,179 3,2893 105,847,40 37,035 2,7507 101,874,20 4,074,968 35,297 3,4538 121,909,88 40,354 2,8883 116,553,62 4,662,145 38,454 3,6265 139,451,19 43,726 3,0327 132,608,18 5,304,247 41,650 3,8078 158,593,50 46,531 3,1843 148,169,04 5,926,762 44,317 3,9982 177,187,63 49,337 3,5107 183,056,32 7,322,253 49,653 4,4080 218,668,88 54,948 3,6862 202,549,68 8,101,987 52,320 4,6284 242,157,77 57,784 3,8705 223,653,89 8,946,156 54,988 5,1028 280,594,87 57,784 4,0641 234,836,59 9,393,463 54,988 5,0259 309,355,85 57,784 4,2673 <t< td=""></t<>

Appendix 12.5-5 Repayment Schedule of Debt (Loan Supplied 1996 - 1997)

(1,000 US\$) Repayment of Foreign Currency Repayment of Local Currence Total Principal Balance Total Interest Principal . Total Balance 57.215 40 084 1996 97 299 1997 94,683 213,845 119,162 12 346 1998 4.302 16.649 172,075 17 520 10,564 28,084 124,203 1999 12,045 4,604 16,649 167,472 16,146 11,937 28,084 112,265 2000 4,926 16.649 11.723 162,546 14,594 13,489 28,084 98,776 2001 157,275 12.841 11.378 5 271 16 649 15,243 28.084 83.534 2002 10.859 11.009 5 640 16 649 151 636 17,224 28 084 66,310 2003 6,034 16,649 10,615 145.601 8.620 19,463 28 084 46.846 2004 10,192 6,457 16 649 139,145 6,090 21,994 28 084 24,853 8 2005 9,740 6,909 16 649 132,236 3,231 24,853 28.084 2006 9,257 7,392 16,649 124,844 10 2007 8,739 7,910 16,649 116,934 11 2008 8,185 8,463 16,649 108,471 12 2009 7,593 9,056 16,649 99,415 13 2010 6,959 9,690 16,649 89,725 14 2011 6,281 10,368 16,649 79,357 15 2012 5 555 11,094 16,649 68,263 16 2013 4.778 11,870 16,649 56,393 17 2014 3.948 12,701 16 649 43,692 18 2015 3,058 13.590 16.649 30,101 19 2016 2 107 14 542 16 649 15,560 20 2017 1.089 15.560 16.649 176,378 156,598 134,766 311,144 176.378 332,976 89,902 134,766 224,668

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

(1,000 US\$) Financing for Construction Repayment of Foreign Currency Repayment of Local Currency Foreign ΕY Local 24,712 Total Interest Principal Balance Total Interest Principal Total . Salance 1997 44 271 68 982 1998 87,301 73,687 160,987 131,571 98 398 1999 9,210 3,209 12,419 128,362 12,792 7,713 20,505 90,685 2000 8,985 3,434 12,419 124,928 11,789 8,716 20,505 81,970 2001 8.745 3,674 12,419 121,253 10,656 9,849 20,505 72 121 2002 8.488 3,932 12,419 117,322 9,376 11,129 20,505 60,991 2003 8,213 4,207 12,419 113,115 7,929 12,576 20,505 48,415 2004 7.918 4,501 12,419 108,613 6,294 14,211 20,505 34,204 2005 7.603 4.816 12,419 103,797 4,447 16,058 20,505 18,146 8 2006 7.266 5.154 12.419 98,643 2,359 18,146 20,505 2007 6,905 5.514 12,419 93,129 10 2008 6,519 5,900 12,419 87,229 11 2009 6,106 6,313 12,419 80,915 12 2010 6,755 5,664 12,419 74,160 13 2011 5,191 7,228 12,419 66,932 14 2012 4,685 7,734 12,419 59,198 15 2013 4,144 8,276 12,419 50,922 16 2014 3.565 8,855 12,419 42,067 17 2015 2,945 9,475 12,419 32,592 18 2016 2.281 10,138 12,419 22,454 19 2017 1.572 10.848 12,419 11,607 812 11,607 12,419 98,398 229,970 116.817 131,571 248 388 65,64°

Appendix 12.5-7 Repayment Schedule of Debt (Loan Supplied 1998 - 1999)

		Finan	cing for Constr	uction	R	lepayment of F	oreign Currency	196		Repayment of L		1,000 US\$)
No.	P	Foreign	Local	Total	Interest	Principal	Total	Balance	Interest	Principal	Total	Balance
	1998	36,836			4			4.7				
	1999	97,746	71,948	169,694			<u> </u>	134,582				90,772
1	2000				9,421	3,283	12,704	131,299	11,800	7,115	18,916	83,656
2	2001				9,191	3,513	12,704	127,787	10,875	8,040	18,916	75,616
3	2002	100		<i>"</i> .	8,945	3,759	12 704	124,028	9,830	9,086	18,916	66,531
4	2003	1	. to 1 to 1	1	8,682	4,022	12,704	120,006	8,649	10,267	18,916	56,264
5	2004		[i]		8,400	4,303	12,704	115,703	7,314	11,601	18,916	44 663
6	2005			11.0	8,099	4,604	12,704	111,099	5,806	13,109	18,916	31 553
. 7	2006			49.34	7,777	4,927	12,704	106,172	4,102	14,814	18,916	16,739
. 8	2007			-1 f	7,432	5,272	12,704	100,901	2,176	16,739	18,916	0
9	2008	1.0	1.0	,	7,063	5,641	12,704	95,260				ja I
10	2009	1 1 1 1			6,668	6,035	12,704	89,225		Arte sel		
11	2010		and the same		6,246	6,458	12,704	82,767				1363
12	2011				5,794	6,910	12,704	75,857				
13	2012	100			5,310	7,394	12,704	68,463	Programme (Fig.			
14	2013	3 6 7		1414	4,792	7,911	12,704	60,552		0.60%		
15	2014		1911 1 1 E	14 T	4,239	8,465	12,704	52,087	41.1 888.	4 149 AM &	14.3	CONTRACT
. 16	2015				3,646	9,057	12,704	43,030		12 A 1 B		1.53
-17	2016			1.5	3,012	9,692	12,704	33,338	1			
18	2017			A STORY	2,334	10,370	12,704	22,968				1.44.
19	2018	100		4.7	1,608	11 096	12,704	11,873	343 3 331	HEREALS.		
20	2019		1.0		831	11.873	12,704	0		-		
			1.55						i de Careas.	. ! [100
1	Total	134,582	90,772	225,354	119.490	134,582	254,072		60,553	90,772	151,325	Martin Company

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

(1,000 US\$) Repayment of Foreign Currency Repayment of Local Currence Financing for Construction Foreign Interest Principal Total Balance Interest Principal Total Local 1999 62,433 41.447 103.880 194,380 2000 242,978 152,933 395,911 305.411 15,237 40,506 179,143 2001 21 379 7.450 28 829 297.962 25.269 23.289 17,218 40,506 161,925 28 829 289 990 2002 20.857 7 971 21.050 19,456 40,506 142,469 28 829 281 461 20 299 8 529 2003 18.521 21,985 40,506 120,484 272 334 9 126 28 829 2004 19 702 262,569 15,663 24,843 40,506 95,641 28.829 2005 19 063 9.765 67,568 18,380 10.449 28.829 252,120 12,433 28,073 40,506 6 2006 28,829 240,940 8,784 31,722 40,506 35,846 11.180 17.648 2007 40,506 16,866 11,963 28,829 228,977 4,660 35,846 2009 16,028 12,800 28,829 216,17 2009 202,481 15,132 13,696 28,829 10 2010 14,174 14,655 28,829 187,826 11 2011 15,681 28,829 172,145 13,148 12 2012 12,050 16,779 28,829 155.366 13 2013 10,876 17,953 28,829 137,413 14 2014 15 9,619 19,210 28.829 118 203 2015 16 2016 8.274 20.554 28 829 97 649 28 829 75 656 17 2017 6.835 21.993 23,533 52.123 28 829 2018 5.296 18 25,180 28.829 26,943 19 2019 3,649 1,886 26.943 28.829 20 2020

305.411

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

499,791

Total

Total

221.726

158.271

305,411

194,380

271.162

(1,000 US\$) Repayment of Foreign Currency Repayment of Local Currency Financing for Construction Balance Interest Principal Total Balance Interest Principal Foreign Total Local 2000 77,989 53,794 131,783 158.271 143,737 104,477 248,214 2001 32.982 145.864 20.575 12.400 2002 15.521 5 400 20 929 216 318 210.531 131.845 2003 15,142 5.787 20.929 18 962 14.019 32.982 204,338 32,982 116,004 17,140 15,842 2004 14.737 6.192 20.929 15,080 17,901 32,982 98,103 197,713 2005 14.304 6.626 20,929 12,753 20,228 32,982 77,874 13.840 20 929 190,623 2006 7.090 10,124 22,858 32,982 55,017 183,037 6 2007 13 344 7 586 20 929 7,152 25,829 32,982 29,187 12 813 8 117 20.929 174.921 2008 20.929 166,236 3,794 29,187 32,982 12.244 8 685 2000 9,293 156,943 11.636 20,929 2010 10.986 9.943 20,929 146,999 10 2011 10,290 10,639 20,929 136,360 2012 12 2013 9,545 11,384 20,929 124,976 8,748 12,181 20,929 112,795 13 2014 7,896 13,034 20,929 99,761 14 2015 15 2016 6,983 13,946 20,929 85,815 16 2017 6,007 14,922 20.929 70.892 17 2018 4.962 15,967 20 929 54,925 18 2019 3.845 17,085 20 929 37.841 19 2020 2.649 18,281 20.929 19,560 1,369 19,560 20 2021 20.929

418 588

576,574

129,669

194.380

158,271

105.581

263,852

324,049

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

196 862

379,997

(1,000 US\$) Repayment of Local Currency Financing for Construction Repayment of Foreign Currency Balance Interest Principal Principe! Total Foreign Total Total Local 2005 207,340 138,133 345,472 2006 784,864 546,529 331,393 992,204 684.662 53.668 142.674 630.993 2007 69 454 24,203 93 657 968.001 89 006 60,645 142,674 570,348 82.029 2006 67,760 25,897 93,657 942,104 68,529 142,674 501,819 74,145 93.657 914,394 2009 65 947 27,710 77,438 142,674 424,381 2010 64,008 29.649 93.657 884,745 65,236 31.725 93,657 853,020 55,170 87,505 142,674 336,878 61.932 2011 B19,075 43,794 98,881 142,674 237,996 33.946 93.657 2012 59.711 30,939 142,674 126,261 36,322 93,657 782,753 111,735 57.335 2013 743,888 142,674 54,793 38,864 93,657 16,414 126,261 2014 41,585 93,657 702,304 9 2015 52,072 2016 49,161 44,496 93,657 657,808 10 47,610 93,657 610,197 2017 46,047 50,943 93,657 559,254 2018 42.714 12 39,148 54,509 93,657 504,745 2019 2020 35,332 58,325 93,657 446 420 2021 31,249 62,408 93.657 384,012 317,236 93,657 16 2022 26.881 66,776 71,450 93,657 245,786 22,207 17 2023 76,452 93,657 169,334 17.205 18 2024 11,853 81,804 93,657 87,530 19 2025 93,657 6,127 87,530 20 2026 1,676,866 456,734 684,662 141.395 992,204 684,662

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

	USS

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1		Finan	ing for Constru	ction	f	Repayment of F	oreign Curreno	γ		Repayment of	Local Currency	
No	FY	Foreign	Local	Total	Interest	Principal	Total	Balarice	Interest	Principal	Total	Balance
!!	2010	146,908	135,869	282,777							4.5	
	2011	307,588	318,823	626,411				454,496	<u> </u>	L		454 692
1	2012	10			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				30,208	12,693	42,901	418,854	49,241	45,511	94,752	333,264
. 4	2015	15	1		29,320	13,581	42,901	405,272	43,324	51,427	94,752	281,837
5	2016				28,369	14,532	42,901	390,740	36,639	58,113	94,752	223,723
6	2017		i		27,352	15,549	42,901	375,191	29,084	65,668	94,752	158,056
7	2018	11 2 5	1		26,263	16,638	42,901	358,553	20,547	74,205	94,752	83,851
8	2019				25,099	17,802	42,901	340,751	10,901	83,851	94,752	0
9	2020	'	· .		23,853	19,049	42,901	321,702	1	į į		:
10	2021	1			22,519	20 382	42,901	301,320				
11	2022	:	ļ		21 092	21,809	42,901	279,511			1	
12	2023		ľ	- {	19,566	23,335	42,901	256,176		1	! !	
13	2024	Į.	ļ		17,932	24,969	42,901	231,207		j	}	
14	2025	1	1	i	16,184	26,717	42,901	204,490		ļ		
15	2026		ŀ	i	14,314	28,587	42,901	175,903		1	i i	
16	2027	J	1		12,313			145,315				
: 17	2028	- 1	l		10,172	32,729		112,586				
18	2029	[{	- 1	7,881	35,020	42,901	77,566				1.111
19	2030				5,430	37,472	42,901	40,095]		
20	2031	1	1		2,807	40,095	42,901	0		1.		
												- 1
	Total	454,496	454,692	909,188	403,528	454,496	858,023	1	303,322	454,692	758,014	

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

	L	Finan	cing for Conetn	uction	R	epayment of Fo	xeign Currenc			Repayment of I	Local Currency	
Jo .	FY	Foreign	Local	Total	Interest	Principal	Total	Balance	interest	Principal	Total	Baiance
. !	2015	142,583	135,070	277,653								1.72
	2016	372,090	347,114	719,203	1.75	<u> </u>		514,672	200	1 mg 1	13.8	482.18
- 1	2017	1 1 1	11	2000	36,027	12,554	48,581	502,118	62,684	37,797	100,481	444.38
2	2018	6.30		4.54	35,148	13,433	48,581	488,685	57,770	42,710	100,481	401.67
3	2019				34,208	14,373	48,581	474,311	52,218	48,263	100,481	
. 4	2020				33,202	15,380	48,581	458,932	45,944	54,537	100.481	298.8
5	2021	y ve		1	32,125	16,456	48,581	442,476	38,854	61,627	100,481	237.2
6	2022		100		30,973	17,608	48,581	424,867	30,843	69,638	100,481	167,6
7	2023	. •			29,741	18,841	48,581	406,027	21,790		100,481	88,9
8	2024		11 H		28,422	20,160	48,581	385,867	11,560	88,921	100,481	-
9	2025		i	. (27,011	21,571	48,581	364,296	· · ·			11.1
10	2026				25,501	23,081	48,581	341,216			·.	192.7
11	2027			1	23,885	24,696	48,581	316,519				P. 11
12	2028			1	22,156		48,581	290,094		:	1	l segment
13	2029]	20,307	28,275	48,581	261.819			1 .	r ivij
14	2030			:]	18,327	30,254	48,581	231,565	. 1		1	
15[2031	:	1		16,210		48,581	199,193				V - 1
16	2032			:	13,944	34,638	48,581	164,556				eta e i
17	2033			· 1	11,519	37,063	48,581	127,493		.		1
18[2034				8,925	39,657	48,581	87,836				1994
19	2035			· .	6,149		48,581	45,403		:	•	Sec.
20	2036				3,178	45,403	48,581	0		i		1 3

Appendix 12.5-13 Statement of Profit and Loss

		Business Expenses				Finencial	inencial	
		O&M	Energy			Business	Cost	Net
FY	Revenue	Cost	Purchase	Depreciation	Total	Profit	(Interest)	Profit
	A	8 -	c	D	E=B+C+D	F=A-E	6 .	H≃F-G
1998	210,947	10,648	173,424	14,143	198,215	12,732	29,866	-17,13
1999	458 105	18,843	378,728	24,596	422,166	35,939	50,193	-14,25
2000	740,534	27,012	613,089	34,839	674,940	65,594	68,313	-2,7
2001	1,082,831	44,466	901,067	57,557	1,003,090	79,741	110,335	-30,5
2002	1,416,451	59,085	1,180,197	74,830	1,314,111	102,339	138,749	36,4
2003	1,773,335	61,042	1,478,797	74,830	1,614,669	158,665	128,161	30,5
2004	2,175,945	63,065	1,815,680	74,830	1,953,575	222,370	116,309	106,0
2005	2,620,721	65,155	2,187,862	74,830	2,327,847	292,874	103,036	189,8
2006	3,109,881	67,314	2,596,755	74,830	2,738,899	370,982	88,167	282,8
2007	3,646,396	125,008	3,045,692	151,051	3,321,751	324,645	233,612	91,0
2008	4,233,896	129,151	3,537,310	151,051	3,817,512	416,384	213,047	203,3
2009	4,876,395	133,432	4,074,968	151,051	4,359,451	516,944	192,527	324,4
2010	5,578,047	137,855	4,662,145	151,051	4,951,051	626,997	174,882	452,1
2011	6,343,740	142,425	5,304,247	151,051	5,597,723	746,017	159,527	586,4
2012	7,087,505	178,387	5,926,762	192,378	6,297,526	789,979	233,418	556,5
2013		184,300	6,598,407	192,378	6,975,085	914,870	209,100	705,7
2014	8,754,755	190,409	7,322,253	192,378	7,705,040	1,049,716	182,030	867.6
2015	6 1	196,721	8,101,987	192,378	8,491,086	1,195,225	151,880	1,043,3
2016	1 ' . ' .	203,242	8,946,156	192,378	9,341,775	1,347,553	136,827	1,210,7
2017	11,223,795	243,922	9,393,463	237,689	9,875,074	1,348,721	219,031	1,129,6
2018	11,784,985	252,007	9,863,137	237,689	10,352,833	1,432,151	195,122	1,237,0
2019	12,374,234	260,361	10,356,293	237,689	10,854,344	1,519,890	169,898	1,349,9
2020	12,992,946	268,992	10,874,108	223,546	11,366,646	1,626,299	142,865	1,483,
2021	13,642,593	277,909	11,417,814	213,093	11,908,816	1,733,777	126,117	1,607,6
2022	14,324,722	287,121	11,988,704	202,850	12,478,675	1,846,047	109,789	1,736,
2023	15,040,959	296,639	12,588,139	180,132	13,064,911	1,976,048	93,303	1,882,7
2024	15,793,007	306,473	13,217,546	162,860	13,686,879	2,106,128	75,119	2,031,0
2025	16,582,657	316,632	13,878,424	162,860	14,357,916	2,224,741	55,049	2,169,6
2026		327,129	14,572,345	162,860	15,062,333	2,349,455	45,942	2,303,5
2027	18,282,379	337,973	15,300,962	162,860	15,801,795	2,480,584	36,198	2,444,
2028	19,196,498	349,177	16,066,010	162,860	16,578,047	2,618,451	32,328	2,586,1
2029	20,156,323	360,753	16,869,311	86,638	17,316,702	2,839,621	28,188	2,811,4
Total	281,181,965	5,922,648	235,231,782	4,656,054	245,810,484	35,371,481	4,048,927	31,322,5
							ar it it	
	Appendix 12.5-1	4 Cash Flow						
	A	4.5 (5.4.3	411463				4	1184

		Casl	inflow	A 184.25	1111	Cash Outflow			(1,000 USS) Balance		
FY	Financing	Net Profit	Depreciation	Total	Investment*	Repayment of Principal.	Total	Total	Accumulated		
1996	92,918	1.74	14 (4)	92,918	97,299	0	97,299	-4,381	-4,361		
1997	261,681	24,11	14.8	261,681	282,827	o	282,827	21 147	-25,528		
1998	201,078	-17,134	14 143	198,087	216,647	14,866	231,513	33,427	-58,955		
1999	256,672	-14,255	24,596	267,013	273,574	27,463	301,037	34,024	-92,979		
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		
2004	. [106,061	74,830	180,891		116,212	116,212	64,678	-187,635		
2005	330,030	189,837	74,830	594,697	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	55,431	139,632		
2008		203,337	151,051	354,388		188,302	188,302	166,086	305,718		
2009		324,417	151,051	475,468		168,316	168,316	307,152	612,870		
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	1	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		
2014	: 1	867,685	192,378	1,060,063		283,484	283,484	776,579	3,499,125		
2015	264,588	1,043,345	192,378	1,500,311	277,653	170,960	448,613	1,051,697	4,550,822		
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	237,689	1,474,719		260,132	260,132	1,214,587	8,038,442		
2019		1,349,992	237,689	1,587,682		272,936	272,936	1,314,745	9,353,187		
2020		1,483,434	223 546	1,706,980		192,513	192,513	1,514,467	10,867,655		
2021	Same Same	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		
2024		2,031,009	162,860	2,193,868		210,502	210,502	1,983,367	18,125,178		
2025		2,169,693	162,860	2,332,552		130,091	130,091	2,202,461	20,327,639		
2026		2,303,514	162,860	2,466,374		139,197	139,197	2,327,176			
2027	- 1 · 1	2,444,386	162,860	2,607,245	1.5	55,284	55,284	2,551,961	25,206,777		
2028		2,586,123	162,860	2,748,982		59,154	59,154	2,689,828	27,896,605		
2029		2,811,434	86,638	2,898,072		63,295	63,295	2,834,777			
Total	4,871,721	31,322,553	4,656,054	40,850,328	5,229,166	4,889,780	10,118,946	30,731,382	100		

^{*}Note: Investment including interest during construction 161

Appendix 12.5-15 Calculation of Debt Service Ratio

	*		100					<u> </u>	(1,000 US\$)
T	Internal Fund Procured				Payment of Debt				Debt
FY	Business	Depreciation	Total	Accumulated	Interest	Principal	Total	Accumulated	Service
	Profit			(A)			:	(B)	Ratio(A/B)
1996									
1997			14		ļ į				
1998	12,732	14,143	26,875	26,875	29,866	14,866	44,732	44.732	0.60
1999	35,939	24,596	60,535	87,410	50,193	27,463	77,657	122,389	0.71
2000	65,594	34,839	100,433	187,843	68,313	40,963	109,276	231,665	0.81
2001	79,741	57,557	137,298	325,141	110,335	68,276	178,611	410,276	0.79
2002	102,339	74,830	177,169	502,310	138,749	93,772	232,522	642,797	
2003	158,665	74,830	233,495	735,805	128,161	104,360	232,522	875,319	0.84
2004	222,370	74,830	297,200	1,033,005	116,309	116,212	232,522	1,107,840	0.93
2005	292,874	74,830	367,704	1,400,709	103,036	129,485	232,522	1,340,362	1:05
2006	370,982	74,830	445,812	1,846,521	88,167	116,272	204,438	1,544,800	. 1.20
2007	324,645	151,051	475,696	2,322,217	233,612	186,652	420,265	1,965,065	1.18
2008	416,384		567,435	2,889,651	213,047	188,302	401,349	2,366,413	1.22
2009	516,944	151,051	667,995	3,557,646	192,527	168,316	360,843	2,727,256	1.30
2010	626,997	151,051	778,048	4,335,694	174,882	152,980	327,861	3,055,118	1.42
2011	746,017	151,051	897,068	5,232,762	159,527	168,334	327,861	3,382,979	1.55
2012	789,979	192,378	982,357	6,215,119	233,418	232,096	465,514	3,848,493	1.61
2013	914,870	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	322,840	5,102,362	1.95
2016	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
2018	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	1,757,579	16,505,824	169,898	272,936	442,834	6,795,191	2.43
2020	1,626,299	223,546	1,849,846	18,355,669	142,865	192,513	335,379	7,130,569	2.57
2021	1,733,777	213,093	1,946,871	20,302,540	126,117	180,433	306,550		
2022	1,846,047	202,850	2,048,897	22,351,437	109,789	175,831	285,620		
2023	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		
2026	2,349,456	162,860	2,512,316	31,676,521	45,942	139,197	185,140		
2027	2,480,584	162,860	2,643,444	34,319,964	36,198	55,284	91,483		
2028	2,618,451	162,860	2,781,311	37,101,275	32,328	59,154	91,483		
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		

