

4.3 Storm Water Drainage System

Table 4.3.1 Phase 1 Construction and Land Costs for Storm Water Drainage System
(Central Pattaya Area)

(Unit: 1,000 Baht)

WORKS		TOTAL				1981				1982			
		COST WITHOUT TAX	TAX	COST WITH TAX	U.L.	COST WITHOUT TAX	TAX	COST WITH TAX	U.L.	COST WITHOUT TAX	TAX	COST WITH TAX	U.L.
1. Main Open Channel	LOCAL	6,073	260	6,333	291	3,573	127	3,700	158	2,500	133	2,633	133
	FOREIGN	531	-	531	-	201	-	201	-	330	-	330	-
	TOTAL	6,604	260	6,864	291	3,774	127	3,901	158	2,830	133	2,963	133
2. Box Culvert	LOCAL	2,627	73	2,700	79	1,849	52	1,901	56	778	21	799	23
	FOREIGN	53	-	53	-	39	-	39	-	14	-	14	-
	TOTAL	2,680	73	2,753	79	1,888	52	1,940	56	792	21	813	23
3. Spillway	LOCAL	675	21	696	21	100	3	103	3	575	18	593	18
	FOREIGN	24	-	24	-	2	-	2	-	22	-	22	-
	TOTAL	699	21	720	21	102	3	105	3	597	18	615	18
4. Branch Open Channel	LOCAL	4,136	129	4,265	155	1,034	32	1,066	39	3,102	97	3,199	116
	FOREIGN	135	-	135	-	34	-	34	-	101	-	101	-
	TOTAL	4,271	129	4,400	155	1,068	32	1,100	39	3,203	97	3,300	116
5. Land Grading of Regulating Pond	LOCAL	426	33	459	-	-	-	-	-	426	33	459	-
	FOREIGN	197	-	197	-	-	-	-	-	197	-	197	-
	TOTAL	623	33	656	-	-	-	-	-	623	33	656	-
Sub-total	LOCAL	13,937	516	14,453	546	6,556	214	6,770	256	7,381	302	7,683	290
	FOREIGN	940	-	940	-	276	-	276	-	664	-	664	-
	TOTAL	14,877	516	15,393	546	6,832	214	7,046	256	8,045	302	8,347	290
6. Land Costs	LOCAL	17,137	-	17,137	-	10,915	-	10,915	-	6,222	-	6,222	-
	FOREIGN	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	17,137	-	17,137	-	10,915	-	10,915	-	6,222	-	6,222	-
Total	LOCAL	31,074	516	31,590	546	17,471	214	17,685	256	13,603	302	13,905	290
	FOREIGN	940	-	940	-	276	-	276	-	664	-	664	-
	TOTAL	32,014	516	32,530	546	17,747	214	17,961	256	14,267	302	14,569	290

*U.L.: Unskilled labor

Table 4.3.2 Phase 1 Construction and Land Costs for Storm Water Drainage System
(Southern Na Klua Area)

(Unit: 1,000 Baht)

WORKS		TOTAL				1981				1982			
		COST WITHOUT TAX	TAX	COST WITH TAX	U.L.	COST WITHOUT TAX	TAX	COST WITH TAX	U.L.	COST WITHOUT TAX	TAX	COST WITH TAX	U.L.
1. Main Open Channel	LOCAL	4,304	158	4,462	182	1,233	51	1,284	62	3,071	107	3,178	120
	FOREIGN	258	-	258	-	105	-	105	-	153	-	153	-
	TOTAL	4,562	158	4,720	182	1,338	51	1,389	62	3,224	107	3,331	120
2. Box Culvert	LOCAL	598	17	615	18	598	17	615	18	-	-	-	-
	FOREIGN	12	-	12	-	12	-	12	-	-	-	-	-
	TOTAL	610	17	627	18	610	17	627	18	-	-	-	-
3. Branch Open Channel	LOCAL	2,068	64	2,132	78	1,034	32	1,066	39	1,034	32	1,066	39
	FOREIGN	68	-	68	-	34	-	34	-	34	-	34	-
	TOTAL	2,136	64	2,200	78	1,068	32	1,100	39	1,068	32	1,100	39
Sub-total	LOCAL	6,970	239	7,209	278	2,865	100	2,965	119	4,105	139	4,244	159
	FOREIGN	338	-	338	-	151	-	151	-	187	-	187	-
	TOTAL	7,308	239	7,547	278	3,016	100	3,116	119	4,292	139	4,431	159
4. Land Costs	LOCAL	1,306	-	1,306	-	1,136	-	1,136	-	170	-	170	-
	FOREIGN	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	1,306	-	1,306	-	1,136	-	1,136	-	170	-	170	-
Total	LOCAL	8,276	239	8,515	278	4,001	100	4,101	119	4,275	139	4,414	159
	FOREIGN	338	-	338	-	151	-	151	-	187	-	187	-
	TOTAL	8,614	239	8,853	278	4,152	100	4,252	119	4,462	139	4,601	159
Grand Total	LOCAL	39,350	755	40,105	824	21,472	314	21,786	375	17,878	441	18,319	449
	FOREIGN	1,278	-	1,278	-	427	-	427	-	851	-	851	-
	TOTAL	40,628	755	41,383	824	21,899	314	22,213	375	18,729	441	19,170	449

*U.L.: Unskilled labor

Table 4.3.3 Quantity of Work (Phase 1 up to 1986)

Item	*1 Excavation	Residual Soil	Concrete	Formwork	Reinforcement	Cobble Stones	Leveling Concrete	Banking	*2 Masonry	Pavement	Timbering	Staging	Grading	*3 Land
	(m ³)	(m ³)	(m ³)	(m ³)	(t)	(m ³)	(m ³)	(m ³)	(m ²)	(m ²)	(m ³)	(m ³)	(m ²)	(m ²)
Central Pattaya Area	Main Open Channel	Δ22,050 ∇ 2,450	22,080	-	-	-	-	2,420	5,630	4,764	-	-	-	24,900
	Box Culvert	Δ1,845 ∇ 205	2,050	1,128	2,327	90.38	253	127	-	-	1,434	786	-	-
	Spillway	Δ830 ∇ 92	922	341	385	20.60	125	63	-	-	-	-	-	-
	Branch Open Channel	Δ6,300 ∇ 700	7,000	-	-	-	-	-	9,600	-	-	-	-	6,800
	Land Grading of Regulating Pond	-	-	-	-	-	-	-	-	-	-	-	164,000	164,000
	Total	Δ31,025 ∇ 3,447	32,052	1,469	2,712	110.98	378	190	2,420	15,230	4,764	1,434	786	164,000
Southern Na Klua Area	Main Open Channel	Δ11,180 ∇ 1,240	11,390	-	-	-	-	1,030	4,500	1,455	-	-	-	9,508
	Box Culvert	Δ423 ∇ 47	470	258	528	20.67	56	28	-	-	169	147	-	-
	Branch Open Channel	Δ3,150 ∇ 350	3,500	-	-	-	-	-	4,800	-	-	-	-	3,400
	Total	Δ14,753 ∇ 1,637	15,360	258	528	20.67	56	28	1,030	9,300	1,455	169	147	-

*1 Δ: Mechanical excavation, ∇: Manual excavation

*2 Main open channel: t = 70cm, Branch open channel: t = 35cm

*3 The land required for the box culverts and spillways is included in the land for the road system and main open channel work, respectively.

Table 4.3.4 Unit Cost by Work

Work	Unit	Machine and Material Cost		Operation Cost		Labor Cost	Tax
		Local Currency (B)	Foreign Currency (B)	Local Currency (B)	Foreign Currency (B)	Local Currency (B)	Local Currency (B)
Mechanical Excavation	m ³	2.58	-	17.36	11.07	-	1.99
Manual Excavation	m ³	-	-	-	-	39.95	0.94
Residual soil	m ³	11.05	-	28.60	9.33	-	4.02
Banking	m ³	-	-	36.14	12.49	-	3.37
Concrete	m ³	478.34	-	185.85	-	-	15.81
Formwork	m ²	181.33	-	58.62	-	16.02	6.03
Reinforcement	t	9,499.40	-	998.50	-	249.10	253.00
Cobblestones	m ³	149.97	-	42.41	52.75	46.90	14.97
Leveling concrete	m ³	478.34	-	185.85	-	-	15.81
Masonry (main open channel)	m ²	570.00	-	175.40	-	26.40	18.20
Masonry (branch open channel)	m ²	285.00	-	87.70	-	13.20	9.10
Pavement	m ²	29.99	-	8.44	-	9.38	2.99
Timbering	m ³	11.49	-	4.04	-	-	0.37
Staging	m ³	15.79	-	5.47	-	-	0.50
Land Grading of Regulating Pond	m ²	0.20	-	2.40	-	-	0.20

4.4 Solid Waste Disposal System

Table 4.4.2 Maintenance & Operation Cost

Unit: 1,000 Bahts

WORKS	YEAR	1980	1981	1982	1983	1984	1985	1986	TOTAL
		LOCAL	586.6	575.6	645.5	730.1	758.2	871.0	894.5
FOREIGN	5.1	4.9	4.8	4.8	4.6	4.6	4.6	33.4	
TOTAL	591.7	580.5	650.3	734.9	762.8	875.6	899.1	5,094.9	
RESIDENT	LOCAL	603.5	592.4	665.1	730.1	758.2	843.9	866.6	5,059.8
	FOREIGN	5.2	5.1	4.9	4.8	4.6	4.5	4.5	33.6
	TOTAL	608.7	597.5	670.0	734.9	762.8	848.8	871.1	5,093.4
SUB-TOTAL	LOCAL	1,190.1	1,168.0	1,310.6	1,460.2	1,516.4	1,714.9	1,761.1	10,121.3
	FOREIGN	10.3	10.0	9.7	9.6	9.2	9.1	9.1	67.0
	TOTAL	1,200.4	1,178.0	1,320.3	1,469.8	1,525.6	1,724.0	1,770.2	10,188.3
TOURING	LOCAL	486.1	524.8	645.5	752.4	852.9	1,007.2	1,034.3	5,303.2
	FOREIGN	4.2	4.5	4.8	4.9	5.3	5.4	5.4	34.5
	TOTAL	490.3	529.3	650.3	757.3	858.2	1,012.6	1,039.7	5,337.7
KO-LAN ISLAND	LOCAL		310.8	318.5	330.7	339.0	346.0	364.8	2,009.8
	FOREIGN		-	-	-	-	-	-	-
	TOTAL		310.8	318.5	330.7	339.0	346.0	364.8	2,009.8
SUB-TOTAL	LOCAL	486.1	835.6	964.0	1,083.1	1,191.9	1,353.2	1,399.1	7,313.0
	FOREIGN	4.2	4.5	4.8	4.9	5.3	5.4	5.4	34.5
	TOTAL	490.3	840.1	968.8	1,088.0	1,197.2	1,358.6	1,404.5	7,347.5
TOTAL	LOCAL	1,676.2	2,003.6	2,274.6	2,543.3	2,708.3	3,068.1	3,160.2	17,434.3
	FOREIGN	14.5	14.5	14.5	14.5	14.5	14.5	14.5	101.5
	TOTAL	1,690.7	2,018.1	2,289.1	2,557.8	2,722.8	3,082.6	3,174.7	17,535.8

4.5 Port Facilities

Table 4.5.1.1 Construction Cost -- (1)
(Pier & Revetment)

Item	Description	Quantity	Unit	Material		Labor		Equipment	
				Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost
1. Pier 1-1.	1) Conc. (1:2:4)	415	m ³	767	318,305	390	161,850		
	2) Form	4,032	m ²	103	415,296	43	173,376		
	3) Bar	85	t	9,475	805,375	1,320	112,200		
	4) Transport & Handling by boat	168	pc	12.5	2,100	12.5	2,100	85	14,280
	5) Driving by boat	168	pc	181.5	30,492	385	64,680	1,776	298,368
1-2.	1) Conc. (1:2:4)	2,305	m ³	767	1,767,935	390	898,950		
	2) Bar	470	t	9,475	4,453,250	1,320	620,400		
	3) Form	9,642	m ²	103	993,101	43	414,606		
2. Revetment [1] Cellular Block Bulkhead	Cellular Block	648	m ³	767	497,016	390	257,720		
	1) Conc. (1:2:4)	132	t	9,475	1,250,700	1,320	174,240		
	3) Form	1,769	m ²	103	182,207	43	76,067	575	57,500
	4) Handling & Placing	100	pc	107	10,700	207	20,700		
2-2.	1) Conc. (1:3:4)	421	m ³	607	255,547	310	130,510		
	2) Form	609	m ²	103	62,727	43	26,187		
2-3.	Mound Stone	6,554	m ³	208.5	1,366,509	53.5	350,639	80	524,320
3. Revetment [2] Stepped Face Sea Wall	3-1.	348.2	m ³	607	211,358	310	107,942		
	1) Conc. Block 2) Form	1,014	m ²	103	104,442	43	43,602		
3-2.	1) Conc. place Conc. 2) Form	746	m ³	607	452,822	310	231,260		
	Mound Stone	676	m ²	103	69,628	43	29,068		
3-3.	Mound Stone	3,120	m ³	208.5	650,520	53.5	166,920	80	249,600

Table 4.5.2 Construction Cost - (2)

Description	Quantity	Unit	Unit Cost	Total
1. Pier				
1-1. R.C. Piling	168	pcs	14,257	2,395,092
1-2. R.C. Beam & Slab	2,305	m ³	3,969	9,148,231
2. Revetment [1] - Cellular Block Bulkhead				
2-1. Cellular Block	107	pcs	23,540	2,518,827
2-2. Retaining Wall	607	m ³	782	474,971
2-3. Mound stone	200	m ³	11,207	2,241,468
3. Revetment [2] - Stepped Face Sea Wall				
3-1. Concrete Block	348	m ³	1,343	467,364
3-2. Cast-in-place Concrete	746	m ³	1,049	782,554
3-3. Mound Stone	3,120	m ³	342	1,067,040
3-4. Sand Nourishment	7,075	m ³	96	679,200
4. Dredging	148,000	m ³	32.6	4,824,800
5. Land Reclamation	148,000	m ³	40.8	6,038,400

Table 4.5.3 Construction Cost (3) Main Port

WORKS		TOTAL						1980					1981					1982									
		CIVIL WORKS	EQUIP-MENT	COST WITHOUT TAX	TAX	COST WITH TAX	U L	CIVIL WORKS	EQUIP-MENT	COST WITHOUT TAX	TAX	COST WITH TAX	U L	CIVIL WORKS	EQUIP-MENT	COST WITHOUT TAX	TAX	COST WITH TAX	U L	CIVIL WORKS	EQUIP-MENT	COST WITHOUT TAX	TAX	COST WITH TAX	U L		
PIER	LOCAL	11,323	-		282	11,605	138	2,831					71	2,902	35	8,492				211	8,703	103					
	FOREIGN	176	-			176		44					44			132											
	TOTAL	11,499		11,499	282	11,781		2,875					71	2,946		8,624				211	8,835						
REVTMENT (1)	LOCAL	5,126			123	5,249	33	5,126					123	5,249	33												
	FOREIGN	41	-			41		41					41														
	TOTAL	5,167		5,167	123	5,290		5,167					123	5,290													
REVTMENT (2)	LOCAL	2,285	-		53	2,338	-	1,143					27	1,170	-	1,142				26	1,168						
	FOREIGN	-	-																								
	TOTAL	2,285		2,285	53	2,338		1,143					27	1,170		1,142				26	1,168						
ARTIFITIAL BEACH AT MAIN PORT	LOCAL	608	-		14	622	71	304					7	311	36	304	-			7	311	35					
	FOREIGN	-																									
	TOTAL	608		608	14	622		304					7	311		304				7	311						
DREDGING	LOCAL	888	-		457	1,345	-	355					183	538		533				274	807						
	FOREIGN	3,552	-			3,552		1,421						1,421		2,131					2,131						
	TOTAL	4,440		4,440	457	4,897		1,776					183	1,959		2,664				274	2,938						
LAND RECLAMATION	LOCAL	5,772	-		333	6,105	-	2,309					133	2,442		3,463				200	3,663						
	FOREIGN	1,628	-			1,628		651						651		977					977						
	TOTAL	7,400		7,400	333	7,733		2,960					133	3,093		4,440				200	4,640						
NAVIGATION AIDS	LOCAL	14	-	14	201	215	-								14				14	201	215						
	FOREIGN	2	1,628	1,630		1,630									2	1,628	1,630				1,630						
	TOTAL	16	1,628	1,644	201	1,845									16	1,628	1,644			201	1,845						
ADMINISTRATION OFFICE	LOCAL	2,940			69	3,009	206														2,940		69	3,009	206		
	FOREIGN	-																									
	TOTAL	2,940		2,940	69	3,009															2,940		69	3,009	206		
PARK	LOCAL	754			17	771	53														754		17	771	53		
	FOREIGN	-																									
	TOTAL	754		754	17	771															754		17	771	53		
ROAD	LOCAL	549			130	679	38								549					130	679	38					
	FOREIGN	757				757									757						757						
	TOTAL	1,306		1,306	130	1,436									1,306		1,306			130	1,436						
LAUNCHING WAY	LOCAL	182			4	186	-	91					2	93							91		2	93			
	FOREIGN	-																									
	TOTAL	182		182	4	186		91					2	93							91		2	93			
TOTAL	LOCAL	30,441			1,683	32,124	539	12,159					546	12,705	104	14,497				1,049	15,546	176	3,785		88	1,873	259
	FOREIGN	6,156	1,628			7,784		2,157						2,157		3,999	1,628				5,627						
	TOTAL	36,597	1,628	38,225	1,683	39,908	539	14,316					546	14,862	104	18,496	1,628	20,124		1,049	21,173	176	3,785		88	1,873	259
TOTAL																											

Table 4.5.4 Construction Cost (4) Ko Lan Island

WORKS	TOTAL							1980						
	CIVIL WORKS	EQUIP- MENT	COST WITHOUT TAX	TAX	COST WITH TAX	U.L.	CIVIL WORKS	EQUIP- MENT	COST WITHOUT TAX	TAX	COST WITH TAX	U.L.		
EAST PIER	LOCAL	3,591		89	3,680	43	3,591			89	3,680	43		
	FOREIGN	55			55		55				55			
	TOTAL	3,646	3,646	89	3,735		3,646		3,646	89	3,735			
NORTH PIER	LOCAL	5,985		149	6,134	72	5,985			149	6,134	72		
	FOREIGN	92			92		92				92			
	TOTAL	6,077	6,077	149	6,226		6,077		6,077	149	6,226			
WEST PIER	LOCAL	3,591		89	3,680	43	3,591			89	3,680	43		
	FOREIGN	55			55		55				55			
	TOTAL	3,646	3,646	89	3,735		3,646		3,646	89	3,735			
TOTAL	LOCAL	13,167		327	13,494	158	13,167			327	13,494	158		
	FOREIGN	202			202		202				202			
	TOTAL	13,369	13,369	327	13,696	158	13,369		13,369	327	13,696	158		

ANNEX 7. TOTAL COST (OUT FLOW) AND INVESTMENT TABLE

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Table 1 Total Cost (Out Flow): 1
Tourism and Residential Area

Unit: million Baht

No.	Year	Investment Cost	Maintenance & Operation Cost	Administration Cost	Total	Remarks
1	1977		-	-	-	
2	1978		-	-	-	
3	1979	33.1	-	3.0	36.1	
4	1980	740.9	1.7	3.8	746.4	
5	1981	154.3	8.6	4.9	167.8	
6	1982	70.8	9.6	5.3	85.7	
7	1983	30.1	10.2	↓	45.6	
8	1984	38.3	10.4	↓	54.0	
9	1985	38.5	11.0	↓	54.8	
10	1986	5.0	11.8	5.3	22.1	
11	1987	7.8	13.1	3.0	23.9	
12	1988	6.4	13.3	↓	22.7	
13	1989	↓	13.4	↓	22.8	
14	1990	↓	13.5	↓	22.9	
15	1991	↓	13.6	↓	23.0	
16	1992	↓	13.7	↓	23.1	
17	1993	↓	↓	↓	↓	
18	1994	↓	↓	↓	↓	
19	1995	↓	↓	↓	↓	
20	1996	↓	13.7	↓	23.1	
21	1997	10.3	15.1	↓	28.4	
22	1998	8.3	↓	↓	26.4	
23	1999	↓	↓	↓	↓	
24	2000	↓	↓	↓	↓	
25	2001	↓	↓	↓	↓	
26	2002	↓	↓	↓	↓	
27	2003	↓	↓	↓	↓	
28	2004	↓	↓	↓	↓	
29	2005	↓	↓	↓	↓	
30	2006	8.3	15.1	3.0	26.4	
Total		1,261.4	349.7	98.2	1,709.3	

Table 2 Total Cost (Out Flow): 2. Residential Area

Unit: million Baht

No.	Year	Investment Cost	Maintenance & Operation Cost	Administration Cost	Total	Remarks
1	1977		-	-	-	
2	1978		-	-	-	
3	1979	19.0	-	1.5	20.5	
4	1980	482.8	1.2	1.9	485.9	
5	1981	30.1	5.1	2.5	37.7	
6	1982	41.9	5.5	2.7	50.1	
7	1983	22.2	5.8	↓	30.7	
8	1984	23.4	5.8	↓	31.9	
9	1985	25.3	6.1	↓	34.1	
10	1986	2.8	6.5	2.7	12.0	
11	1987	4.9	7.4	1.5	13.8	
12	1988	3.8	7.5	↓	12.8	
13	1989	↓	7.6	↓	12.9	
14	1990	↓	7.7	↓	13.0	
15	1991	↓	7.8	↓	13.1	
16	1992	↓	↓	↓	↓	
17	1993	↓	↓	↓	↓	
18	1994	↓	↓	↓	↓	
19	1995	↓	↓	↓	↓	
20	1996	↓	7.8	↓	13.1	
21	1997	6.4	8.6	↓	16.5	
22	1998	4.9	↓	↓	15.0	
23	1999	↓	↓	↓	↓	
24	2000	↓	↓	↓	↓	
25	2001	↓	↓	↓	↓	
26	2002	↓	↓	↓	↓	
27	2003	↓	↓	↓	↓	
28	2004	↓	↓	↓	↓	
29	2005	↓	↓	↓	↓	
30	2006	↓	8.6	1.5	15.0	
Total		737.1	199.0	49.4	985.5	

Table 3 Total Cost (Out Flow): 3. Tourism Area

Unit: million Baht

No.	Year	Investment Cost	Maintenance & Operation Cost	Administration Cost	Total	Remarks
1	1977		-	-		
2	1978		-	-		
3	1979	13.9	-	1.5	15.4	
4	1980	257.9	0.5	1.9	260.3	
5	1981	126.1	3.5	2.4	132.0	
6	1982	29.4	4.1	2.6	36.1	
7	1983	8.5	4.4	↓	15.5	
8	1984	14.8	4.6	↓	22.0	
9	1985	13.0	4.8	↓	20.4	
10	1986	2.2	5.2	2.6	10.0	
11	1987	2.9	5.7	1.5	10.1	
12	1988	2.5	↓	↓	9.7	
13	1989	↓	↓	↓	↓	
14	1990	↓	↓	↓	↓	
15	1991	↓	5.8	↓	9.8	
16	1992	↓	↓	↓	↓	
17	1993	↓	↓	↓	↓	
18	1994	↓	↓	↓	↓	
19	1995	↓	↓	↓	↓	
20	1996	↓	5.8	↓	9.8	
21	1997	3.8	6.4	↓	11.7	
22	1998	3.3	↓	↓	11.2	
23	1999	↓	↓	↓	↓	
24	2000	↓	↓	↓	↓	
25	2001	↓	↓	↓	↓	
26	2002	↓	↓	↓	↓	
27	2003	↓	↓	↓	↓	
28	2004	↓	↓	↓	↓	
29	2005	↓	↓	↓	↓	
30	2006	↓	6.4	1.5	↓	
Total		524.7	148.6	48.8	722.1	

Table 4 Total Cost (Out Flow): 4. Tourism and Residential Area (excluding Water Supply System)

Unit: million Baht

No.	Year	Investment Cost	Maintenance & Operation Cost	Administration Cost	Total	Remarks
1	1977		-	-	-	
2	1978		-	-	-	
3	1979	18.3	-	2.2	20.5	
4	1980	365.2	1.7	2.7	369.6	
5	1981	149.4	4.1	3.4	156.9	
6	1982	65.8	5.0	3.7	74.5	
7	1983	28.3	5.5	↓	37.5	
8	1984	37.1	5.7	↓	46.5	
9	1985	35.7	6.2	↓	45.7	
10	1986	4.4	7.0	3.7	15.1	
11	1987	7.8	8.3	2.2	18.3	
12	1988	6.4	8.5	↓	17.1	
13	1989	↓	8.6	↓	17.2	
14	1990	↓	8.7	↓	17.3	
15	1991	↓	8.8	↓	17.4	
16	1992	↓	8.9	↓	17.5	
17	1993	↓	↓	↓	↓	
18	1994	↓	↓	↓	↓	
19	1995	↓	↓	↓	↓	
20	1996	↓	8.9	↓	17.5	
21	1997	10.3	10.3	↓	22.8	
22	1998	8.3	↓	↓	20.8	
23	1999	↓	↓	↓	↓	
24	2000	↓	↓	↓	↓	
25	2001	↓	↓	↓	↓	
26	2002	↓	↓	↓	↓	
27	2003	↓	↓	↓	↓	
28	2004	↓	↓	↓	↓	
29	2005	↓	↓	↓	↓	
30	2006	↓	10.3	2.2	20.8	
Total		854.6	225.6	70.8	1,151.0	

Table 5 Total Cost (Out Flow): 5. Residential Area
(excluding Water Supply System)

Unit: million Baht

No.	Year	Investment Cost	Maintenance & Operation Cost	Administration Cost	Total	Remarks
1	1977		-	-	-	
2	1978		-	-	-	
3	1979	8.2	-	0.9	9.1	
4	1980	203.5	1.2	1.1	205.8	
5	1981	28.8	2.3	1.4	32.5	
6	1982	40.0	2.6	1.5	44.1	
7	1983	21.1	2.8	↓	25.4	
8	1984	23.4	2.8	↓	27.7	
9	1985	23.6	3.0	↓	28.1	
10	1986	2.8	3.4	1.5	7.7	
11	1987	4.9	4.3	0.9	10.1	
12	1988	3.8	4.4	↓	9.1	
13	1989	↓	4.5	↓	9.2	
14	1990	↓	4.6	↓	9.3	
15	1991	↓	4.7	↓	9.4	
16	1992	↓	↓	↓	↓	
17	1993	↓	↓	↓	↓	
18	1994	↓	↓	↓	↓	
19	1995	↓	↓	↓	↓	
20	1996	↓	4.7	↓	9.4	
21	1997	6.4	5.5	↓	12.8	
22	1998	4.9	↓	↓	11.3	
23	1999	↓	↓	↓	↓	
24	2000	↓	↓	↓	↓	
25	2001	↓	↓	↓	↓	
26	2002	↓	↓	↓	↓	
27	2003	↓	↓	↓	↓	
28	2004	↓	↓	↓	↓	
29	2005	↓	↓	↓	↓	
30	2006	↓	5.5	0.9	11.3	
Total		441.0	119.1	28.9	589.0	

Table 6 Total Cost (Out Flow): 6. Tourism Area
(excluding Water Supply System)

Unit: million Baht

No.	Year	Investment Cost	Maintenance & Operation Cost	Administration Cost	Total	Remarks
1	1977		-	-	-	
2	1978		-	-	-	
3	1979	9.9	-	1.3	11.2	
4	1980	161.4	0.5	1.6	163.5	
5	1981	122.2	1.8	2.0	126.0	
6	1982	26.5	2.4	2.2	31.1	
7	1983	7.7	2.7	↓	12.6	
8	1984	13.8	2.9	↓	18.9	
9	1985	12.4	3.1	↓	17.7	
10	1986	1.6	3.5	2.2	7.3	
11	1987	2.9	4.0	1.3	8.2	
12	1988	2.5	↓	↓	7.8	
13	1989	↓	↓	↓	↓	
14	1990	↓	↓	↓	↓	
15	1991	↓	4.0	↓	7.8	
16	1992	↓	4.1	↓	7.9	
17	1993	↓	↓	↓	↓	
18	1994	↓	↓	↓	↓	
19	1995	↓	↓	↓	↓	
20	1996	↓	4.1	↓	7.9	
21	1997	3.8	4.7	↓	9.8	
22	1998	3.3	↓	↓	9.3	
23	1999	↓	↓	↓	↓	
24	2000	↓	↓	↓	↓	
25	2001	↓	↓	↓	↓	
26	2002	↓	↓	↓	↓	
27	2003	↓	↓	↓	↓	
28	2004	↓	↓	↓	↓	
29	2005	↓	↓	↓	↓	
30	2006	↓	4.7	1.3	↓	
Total		414.4	104.4	41.9	560.7	

Table 7 Investment Table: 1, Tourism and Residential Area (Road and Street System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	60.0	27.3	15.1	5.1	17.9	3.8	-					129.2
(1) Civil Works	-	-	-	60.0	27.3	15.1	5.1	17.9	3.8	-					129.2
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	5.2	2.9	1.3	0.8	0.2	0.9	0.2	-					11.5
(1) Design	-	-	5.2	-	-	-	-	-	-	-					5.2
(2) Supervision	-	-	-	2.9	1.3	0.8	0.2	0.9	0.2	-					6.3
(A) + (B)	-	-	5.2	62.9	28.6	15.9	5.3	18.8	4.0	-					140.7
Contingency (15%)	-	-	0.8	9.4	4.3	2.4	0.8	2.8	0.6	-					21.1
Sub Total	-	-	6.0	72.3	32.9	18.3	6.1	21.6	4.6	-					161.8
Land Acquisition	-	-	-	99.0	46.0	10.4	11.7	13.4	1.9	-					182.4
Total	-	-	6.0	171.3	78.9	28.7	17.8	35.0	6.5	-					344.2
Tax in Civil Works				2.7	1.3	0.6	1.2	0.8	0.1						6.7
Tax in Equipment															
Tax in Construction Cost				2.7	1.3	0.6	1.2	0.8	0.1						6.7

Table 8 Investment Table: 2, Residential Area (Road and Street System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	23.1	6.5	15.1	4.9	10.2	3.8	-					63.6
(1) Civil Works	-	-	-	23.1	6.5	15.1	4.9	10.2	3.8	-					63.6
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	2.5	1.1	0.3	0.8	0.2	0.5	0.2	-					5.6
(1) Design	-	-	2.5	-	-	-	-	-	-	-					2.5
(2) Supervision	-	-	-	1.1	0.3	0.8	0.2	0.5	0.2	-					3.1
(A) + (B)	-	-	2.5	24.2	6.8	15.9	5.1	10.7	4.0	-					69.2
Contingency (15%)	-	-	0.4	3.6	1.0	2.4	0.8	1.6	0.6	-					10.4
Sub Total	-	-	2.9	27.8	7.8	18.3	5.9	12.3	4.6	-					79.6
Land Acquisition	-	-	-	57.7	9.6	10.4	11.7	11.1	1.9	-					102.4
Total	-	-	2.9	85.5	17.4	28.7	17.6	23.4	6.5	-					182.0
Tax in Civil Works				0.7	0.2	0.6	0.2	0.4	0.1						2.2
Tax in Equipment															
Tax in Construction Cost				0.7	0.2	0.6	0.2	0.4	0.1						2.2

Table 9 Investment Table: 3. Tourism Area (Road and Street System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	36.9	20.8	0.1	0.2	7.7	0	-					65.7
(1) Civil Works	-	-	-	36.9	20.8	0.1	0.2	7.7	0	-					65.7
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	2.6	1.8	1.0	-	-	0.4	0.9	-					6.7
(1) Design	-	-	2.6	-	-	-	-	-	-	-					2.6
(2) Supervision	-	-	-	1.8	1.0	0	0	0.4	0.9	-					4.1
(A) + (B)	-	-	2.6	38.7	21.8	0.1	0.2	8.1	0.9	-					72.4
Contingency (15%)	-	-	0.4	5.8	3.3	0	0	1.2	0.1	-					10.8
Sub Total	-	-	3.0	44.5	25.1	0.1	0.2	9.3	1.0	-					83.2
Land Acquisition	-	-	-	41.4	36.4	0	0	2.3	0	-					80.1
Total	-	-	3.0	85.9	61.5	0.1	0.2	11.6	1.0	-					163.3
Tax in Civil Works				1.9	1.1	0	0	0.4	0						3.4
Tax in Equipment															
Tax in Construction Cost				1.9	1.1	0	0	0.4	0						3.4

Table 10 Investment Table: 4, Tourism and Residential Area (Sewerage System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	105.5	13.3	8.1	8.1	1.7	22.5	-					159.2
(1) Civil Works	-	-	-	105.5	13.3	8.1	8.1	1.7	22.5	-					159.2
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	6.4	5.7	0.6	0.4	0.4	0.1	1.1	-					14.7
(1) Design	-	-	6.4	-	-	-	-	-	-	-					6.4
(2) Supervision	-	-	-	5.7	0.6	0.4	0.4	0.1	1.1	-					8.3
(A) + (B)	-	-	6.4	111.2	13.9	8.5	8.5	1.8	23.6	-					173.9
Contingency (15%)	-	-	1.0	16.7	2.1	1.3	1.2	0.3	3.5	-					26.1
Sub Total	-	-	7.4	127.9	16.0	9.8	9.7	2.1	27.1	-					200.0
Land Acquisition	-	-	-	18.1	-	-	-	-	-	-					18.1
Total	-	-	7.4	146.0	16.0	9.8	9.8	2.1	27.1	-					218.2
Tax in Civil Works				6.5	0.8	0.4	0.3	0	1.0	-					9.0
Tax in Equipment															
Tax in Construction Cost				6.5	0.8	0.4	0.3	0	1.0	-					9.0

Table 11 Investment Table: 5, Residential Area (Sewerage System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	78.8	4.2	4.0	2.1	0	13.7	0					102.8
(1) Civil Works	-	-	-	78.8	4.2	4.0	2.1	0	13.7	0					102.8
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	4.1	3.9	0.8	0.5	0.4	0	0	0					9.7
(1) Design	-	-	4.1	-	-	-	-	-	-	-					4.1
(2) Supervision	-	-	-	3.9	0.8	0.5	0.4	0	0	0					5.6
(A) + (B)	-	-	4.1	82.7	5.0	4.5	2.5	0	13.7	0					112.5
Contingency (15%)	-	-	0.6	12.4	0.8	0.7	0.4	0	2.1	0					17.0
Sub Total	-	-	4.7	95.1	5.8	5.2	2.9	0	15.8	0					129.5
Land Acquisition	-	-	-	13.1	-	-	0.1	-	-	-					13.2
Total	-	-	4.7	108.2	5.8	5.2	3.0	0	15.8	0					142.7
Tax in Civil Works				4.8	0.3	0.2	0.1	-	0.6	-					6.0
Tax in Equipment															
Tax in Construction Cost				4.8	0.3	0.2	0.1	-	0.6	-					6.0

Table 12 Investment Table: 6, Tourism Area (Sewerage System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	26.7	9.1	4.2	6.0	1.7	8.8	-	-	-	-	-	56.5
(1) Civil Works	-	-	-	26.7	9.1	4.2	6.0	1.7	8.8	-	-	-	-	-	56.5
(2) Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consulting Services (B)	-	-	2.3	1.3	0.4	0.3	0.3	0.2	0.4	-	-	-	-	-	5.2
(1) Design	-	-	2.3	-	-	-	-	-	-	-	-	-	-	-	2.3
(2) Supervision	-	-	-	1.3	0.4	0.3	0.3	0.2	0.4	-	-	-	-	-	2.9
(A) + (B)	-	-	2.3	28.0	10.3	4.5	6.3	1.9	9.2	-	-	-	-	-	62.5
Contingency (15%)	-	-	0.4	4.2	1.5	0.7	1.0	0.3	1.4	-	-	-	-	-	9.5
Sub Total	-	-	2.7	32.2	11.8	5.2	7.3	2.2	10.6	-	-	-	-	-	72.0
Land Acquisition	-	-	-	5.0	0	-	-	-	-	-	-	-	-	-	5.0
Total	-	-	2.7	37.2	11.8	5.2	7.3	2.2	10.6	-	-	-	-	-	77.0
Tax in Civil Works	-	-	-	1.7	0.5	0.2	0.2	0.	0.4	-	-	-	-	-	3.0
Tax in Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax in Construction Cost	-	-	-	1.7	0.5	0.2	0.2	0	0.4	-	-	-	-	-	3.0

Table 13 Investment Table: 7, Tourism and Residential Area (Storm Water Drainage System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	-	10.2	12.7	-	-	-	-	-	-	-	-	22.9
(1) Civil Works	-	-	-	-	10.2	12.7	-	-	-	-	-	-	-	-	22.9
(2) Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consulting Services (B)	-	-	0.8	0.4	0.6	0.6	-	-	-	-	-	-	-	-	2.4
(1) Design	-	-	0.8	0.4	-	-	-	-	-	-	-	-	-	-	1.2
(2) Supervision	-	-	-	-	0.6	0.6	-	-	-	-	-	-	-	-	1.2
(A) + (B)	-	-	0.8	-	11.4	12.3	-	-	-	-	-	-	-	-	24.5
Contingency (15%)	-	-	0.1	0.1	1.7	2.0	-	-	-	-	-	-	-	-	3.9
Sub Total	-	-	0.9	0.5	13.1	15.3	-	-	-	-	-	-	-	-	29.8
Land Acquisition	-	-	-	-	12.0	6.4	-	-	-	-	-	-	-	-	18.4
Total	-	-	0.9	0.5	25.1	21.7	-	-	-	-	-	-	-	-	48.2
Tax in Civil Works	-	-	-	-	0.3	0.4	-	-	-	-	-	-	-	-	0.7
Tax in Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax in Construction Cost	-	-	-	-	0.3	0.4	-	-	-	-	-	-	-	-	0.7

Table 14 Investment Table: 8, Residential Area (Storm Water Drainage System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	-	3.1	4.4	-	-	-	-	-	-	-	-	7.5
(1) Civil Works	-	-	-	-	3.1	4.4	-	-	-	-	-	-	-	-	7.5
(2) Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consulting Services (B)	-	-	-	0.4	0.2	0.2	-	-	-	-	-	-	-	-	0.8
(1) Design	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	0.4
(2) Supervision	-	-	-	-	0.2	0.2	-	-	-	-	-	-	-	-	0.4
(A) + (B)	-	-	-	0.4	3.3	4.6	-	-	-	-	-	-	-	-	8.3
Contingency (15%)	-	-	-	0.1	0.5	0.7	-	-	-	-	-	-	-	-	1.3
Sub Total	-	-	-	0.5	3.8	5.3	-	-	-	-	-	-	-	-	9.6
Land Acquisition	-	-	-	-	1.1	0.2	-	-	-	-	-	-	-	-	1.3
Total	-	-	-	0.5	4.9	5.5	-	-	-	-	-	-	-	-	10.9
Tax in Civil Works	-	-	-	-	0.1	0.1	-	-	-	-	-	-	-	-	0.2
Tax in Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax in Construction Cost	-	-	-	-	0.1	0.1	-	-	-	-	-	-	-	-	0.2

Table 15 Investment Table: 9, Tourism Area (Storm Water Drainage System)
Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	-	7.1	8.3	-	-	-	-	-	-	-	-	15.4
(1) Civil Works	-	-	-	-	7.1	8.3	-	-	-	-	-	-	-	-	15.4
(2) Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consulting Services (B)	-	-	0.8	-	0.4	0.4	-	-	-	-	-	-	-	-	1.6
(1) Design	-	-	0.8	-	-	-	-	-	-	-	-	-	-	-	0.8
(2) Supervision	-	-	-	-	0.4	0.4	-	-	-	-	-	-	-	-	0.8
(A) + (B)	-	-	0.8	-	8.1	8.7	-	-	-	-	-	-	-	-	17.6
Contingency (15%)	-	-	0.1	-	1.2	1.3	-	-	-	-	-	-	-	-	2.6
Sub Total	-	-	0.9	-	9.3	10.0	-	-	-	-	-	-	-	-	20.2
Land Acquisition	-	-	-	-	10.9	6.2	-	-	-	-	-	-	-	-	17.1
Total	-	-	0.9	-	20.2	16.2	-	-	-	-	-	-	-	-	37.3
Tax in Civil Works					0.2	0.3									0.5
Tax in Equipment															
Tax in Construction Cost					0.2	0.3									0.5

Table 16 Investment Table: IO, Tourism and Residential Area (Solid Waste Disposal System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987 - 1986	1997 - 2006	Total
Construction Cost (A)	-	-	-	10.2	2.7	0.6	0.6	-	1.8	3.8	5.6-5.6	7.2-7.2	147.7
(1) Civil Works	-	-	-	-	-	-	-	-	-	-	-	-	-
(2) Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-
Consulting Services (B)	-	-	0.8	0.5	0.3	0.2	-	-	-	-	0	0	1.8
(1) Design (4%)	-	-	0.8	-	-	-	-	-	-	-	0	0	0.8
(2) Supervision (5%)	-	-	-	0.5	0.3	0.2	-	-	-	-	0	0	1.0
(A) + (B)	-	-	0.8	10.7	3.0	0.8	0.6	-	1.8	3.8	5.6-5.6	7.2-7.2	149.5
Contingency (15%)	-	-	0.1	1.6	0.5	0.1	0.1	-	0.3	0.6	0.8-0.8	1.1-1.1	22.3
Sub Total	-	-	0.9	12.3	3.5	0.9	0.7	-	2.1	4.4	6.4-6.4	8.3-8.3	171.8
Land Acquisition	-	-	-	0.6	-	-	-	-	-	-	1.5	1997 2.0	4.1
Total	-	-	0.9	12.9	3.5	0.9	0.7	-	2.1	4.4	1987 7.9	1997 10.3	175.9
Tax in Civil Works	-	-	-	1.3	0.3	0.1	0.1	0	0.4	0.8	1988-1996 6.4-6.4	1.1-1.1	22.0
Tax in Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax in Construction Cost	-	-	-	1.3	0.3	0.1	0.1	-	0.4	0.8	0.8-0.8	1.1-1.1	22.0

Table 17 Investment Table: 11, Residential Area (Solid Waste Disposal System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987 - 1996	1997 - 2006	Total
Construction Cost (A)	-	-	-	7.3	0.4	0.4	0.4	-	1.1	2.4	3.3-3.3	4.3-4.3	88.0
(1) Civil Works	-	-	-	-	-	-	-	-	-	-	-	-	-
(2) Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-
Consulting Services (B)	-	-	0.6	0.4	0.2	0.1	-	-	-	-	0	0	1.3
(1) Design	-	-	0.6	-	-	-	-	-	-	-	0	0	0.6
(2) Supervision	-	-	-	0.4	0.2	0.1	0	0	0	0	0	0	0.7
(A) + (B)	-	-	0.6	7.7	0.6	0.5	0.4	-	1.1	2.4	3.3-3.3	4.3-4.3	89.3
Contingency (15%)	-	-	-	1.2	0.1	0.1	0.1	-	0.2	0.4	0.5-0.5	0.6-0.6	13.1
Sub Total	-	-	0.6	8.9	0.7	0.6	0.5	-	1.3	2.8	3.8-3.8	4.9-4.9	102.4
Land Acquisition	-	-	-	0.4	-	-	-	-	-	-	1987 1.1	1997 1.5	3.0
Total	-	-	0.6	9.3	0.7	0.6	0.5	-	1.3	2.8	1987 4.9	1997 6.4	105.4
Tax in Civil Works	-	-	-	-	-	-	-	-	-	-	1988-1996 3.8-3.8	1997-2006 4.9-4.9	-
Tax in Equipment	-	-	-	0.9	0.1	0.1	0.1	0	0.3	0.5	0.5-0.5	0.7-0.7	14.0
Tax in Construction Cost	-	-	-	0.9	0.1	0.1	0.1	0	0.3	0.5	0.5-0.5	0.7-0.7	14.0

Table 18 Investment Table: 12, Tourism Area (Solid Waste Disposal Area)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987 - 1996	1997 - 2006	Total
Construction Cost (A)	-	-	-	3.0	2.3	0.2	0.2	0	0.7	1.4	2.2-2.2	2.9-2.9	58.8
(1) Civil Works	-	-	-	-	-	-	-	-	-	-	-	-	-
(2) Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-
Consulting Services (B)	-	-	0.2	0.1	0.1	0.1	-	-	-	-	0	0	0.5
(1) Design	-	-	0.2	-	-	-	-	-	-	-	0	0	0.2
(2) Supervision	-	-	-	0.1	0.1	0.1	0	0	0	0	0	0	0.3
(A) + (B)	-	-	0.2	3.1	2.4	0.3	0.2	-	0.7	1.4	2.2-2.2	2.9-2.9	59.3
Contingency (15%)	-	-	-	0.5	0.4	0	0	-	0.1	0.2	0.3-0.3	0.4-0.4	8.2
Sub Total	-	-	0.2	3.6	2.8	0.3	0.2	-	0.8	1.6	2.5-2.5	3.3-3.3	67.5
Land Acquisition	-	-	-	0.2	-	-	-	-	-	-	1987 0.4	1997 0.5	1.1
Total	-	-	0.2	3.8	2.8	0.3	0.2	-	0.8	1.6	1987 2.9 1988-1996 2.5-2.5	1997 3.8 1998-2006 3.3-3.3	68.6
Tax in Civil Works	-	-	-	0.4	0.2	0	0	0	0.1	0.3	0.3-0.3	0.4-0.4	8.0
Tax in Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax in Construction Cost	-	-	-	0.4	0.2	0	0	0	0.1	0.3	0.3-0.3	0.4-0.4	8.0

Table 19 Investment Table: 13, Tourism Area (Port Facilities)

Unit: Million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	28.6	21.2	3.9	-	-	-	-	-	-	-	-	53.7
(1) Civil Works	-	-	-	28.6	21.2	3.9	-	-	-	-	-	-	-	-	53.7
(2) Equipment	-	-	-	-	0	-	-	-	-	-	-	-	-	-	0
Consulting Services (B)	-	-	2.7	1.4	1.1	0.2	-	-	-	-	-	-	-	-	5.4
(1) Design	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-	2.7
(2) Supervision	-	-	-	1.4	1.1	0.2	-	-	-	-	-	-	-	-	2.7
(A) + (B)	-	-	2.7	30.0	22.3	4.1	-	-	-	-	-	-	-	-	59.1
Contingency (15%)	-	-	0.4	4.5	3.6	0.6	-	-	-	-	-	-	-	-	9.1
Sub Total	-	-	3.1	34.5	25.9	4.7	-	-	-	-	-	-	-	-	68.2
Land Acquisition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	3.1	34.5	25.9	4.7	-	-	-	-	-	-	-	-	68.2
Tax in Civil Works	-	-	-	0.9	1.0	0.1	-	-	-	-	-	-	-	-	2.0
Tax in Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax in Construction Cost	-	-	-	0.9	1.0	0.1	-	-	-	-	-	-	-	-	2.0

Table 20 Investment Table: 14, Tourism and Residential Area (Water Supply System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	309.3	4.0	4.1	1.4	0.8	2.3	0.5					322.4
(1) Civil Works	-	-	-	309.3	4.0	4.1	1.4	0.8	2.3	0.5					322.4
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	12.9	15.5	0.3	0.3	0.2	0.2	0.1	-					29.5
(1) Design	-	-	12.9	-	-	-	-	-	-	-					12.9
(2) Supervision	-	-	-	15.5	0.3	0.3	0.2	0.2	0.1	0					16.6
(A) + (B)	-	-	12.9	324.8	4.3	4.4	1.6	1.0	2.4	0.5					351.9
Contingency (15%)	-	-	1.9	48.7	0.6	0.6	0.2	0.2	0.4	0.1					52.7
Sub Total	-	-	14.8	373.5	4.9	5.0	1.8	1.2	2.8	0.6					404.6
Land Acquisition	-	-	-	2.2	-	-	-	-	-	-					2.2
Total	-	-	14.8	375.7	4.9	5.0	1.8	1.2	2.8	0.6					406.8
Tax in Civil Works															
Tax in Equipment															
Tax in Construction Cost															

Table 21 Investment Table: 15, Residential Area (Water Supply System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	229.9	0.8	1.6	0.8	0	1.7	0					234.8
(1) Civil Works	-	-	-	229.9	0.8	1.6	0.8	0	1.7	0					234.8
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	9.4	11.5	0.3	0.2	0.2	0	0	-					21.6
(1) Design	-	-	9.4	-	-	-	-	-	-	-					9.4
(2) Supervision	-	-	-	11.5	0.3	0.2	0.2	0	0	0					12.2
(A) + (B)	-	-	9.4	241.4	1.1	1.8	1.0	0	1.7	0					256.4
Contingency (15%)	-	-	1.4	36.2	0.2	0.1	0.1	0	0.3	0					38.3
Sub Total	-	-	10.8	277.6	1.3	1.9	1.1	0	1.7	0					294.4
Land Acquisition	-	-	-	1.7	-	-	-	-	-	-					1.7
Total	-	-	10.8	279.3	1.3	1.9	1.1	0	1.7	0					296.1
Tax in Civil Works				23.1	0.1	0.2	0.1	-	0.2	-					23.7
Tax in Equipment															
Tax in Construction Cost				23.1	0.1	0.2	0.1	-	0.2	-					23.7

Table 22 Investment Table: 16, Tourism Area (Water Supply System)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	79.5	3.2	2.4	0.6	0.8	0.5	0.5					87.5
(1) Civil Works	-	-	-	79.5	3.2	2.4	0.6	0.8	0.5	0.5					87.5
(2) Equipment	-	-	-	-	-	-	-	-	-	-					-
Consulting Services (B)	-	-	3.5	4.0	0.2	0.1	0.1	0.1	-	-					8.0
(1) Design	-	-	3.5	-	-	-	-	-	-	-					3.5
(2) Supervision	-	-	-	4.0	0.2	0.1	0.1	0.1	0	0					4.5
(A) + (B)	-	-	3.5	83.5	3.4	2.5	0.7	0.9	0.5	0.5					95.5
Contingency (15%)	-	-	0.5	12.5	0.5	0.4	0.1	0.1	0.1	0.1					14.3
Sub Total	-	-	4.0	96.0	3.9	2.9	0.8	1.0	0.6	0.6					109.8
Land Acquisition	-	-	-	0.5	-	-	-	-	-	-					0.5
Total	-	-	4.0	96.5	3.9	2.9	0.8	1.0	0.6	0.6					110.3
Tax in Civil Works				8.1	0.4	0.3	0.1	0.1	0.1	0.1					9.2
Tax in Equipment															
Tax in Construction Cost				8.1	0.4	0.3	0.1	0.1	0.1	0.1					9.2

Table 23 Investment Table: 17, Tourism Area (Amenity Core)

Main Amenity Core, Northern Core, Inland Activity
Zones and Beach Facility

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	6.2	8.4	26.8	23.8	20.9	21.8	22.1					130.0
(1) Civil Works				2.0	4.0	2.0	1.0	1.0	1.0	0					13.0
(2) Equipment			2.0	2.0	2.0										6.0
Consulting Services (B)			2.0	2.0	0	2.0	1.0	1.0	1.0	0					7.0
(1) Design				8.2	12.4	28.8	24.8	21.9	22.8	22.1					143.0
(2) Supervision			0.3	1.2	1.9	4.3	3.7	3.3	3.4	3.3					21.4
(A) + (B)			2.3	9.4	14.3	33.1	28.5	25.2	26.2	25.4					164.4
Contingency (15%)			-	15.9	16.1	45.2	45.2	45.2	45.2	45.2					258.0
Sub Total															
Land Acquisition			2.3	26.3	30.4	78.3	72.7	70.4	71.4	70.6					422.4
Total															
Tax in Civil Works				0.2	0.3	0.8	0.7	0.6	0.6	0.7					3.9
Tax in Equipment															
Tax in Construction Cost				0.2	0.3	0.8	0.7	0.6	0.6	0.7					3.9

Table 24 Investment Table: 18, Tourism Area (Hotels and Restaurants)
(Private Investment.)

Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	2.3	2.4	2.4	125.3	124.7	204.0	43.6	43.6	43.7	3.8					595.8
(1) Civil Works															
(2) Equipment															
Consulting Services (B)			7.0	12.0	15.0	19.0	2.0	2.0	2.0	3.0					62.0
(1) Design			7.0	7.0	7.0	7.0									28.0
(2) Supervision				5.0	8.0	12.0	2.0	2.0	2.0	3.0					34.0
(A) + (B)	2.3	2.4	9.4	137.3	139.7	223.0	45.6	45.6	45.7	7.8					658.8
Contingency (15%)	0.3	0.4	1.4	19.7	30.9	33.4	7.8	6.8	5.9	0					106.6
Sub Total	2.6	2.8	10.8	157.0	170.6	256.4	53.4	52.4	52.6	7.8					766.4
Land Acquisition	19.7	19.7	19.7	57.2	19.8	19.8	19.8	19.8	19.8	19.8					235.1
Total	22.3	22.5	30.5	214.2	190.4	276.2	73.2	72.2	72.4	27.6					1001.5
Tax in Civil Works	0.1	0.1	0.1	10.1	10.1	16.7	3.4	3.4	3.4	0.1					47.5
Tax in Equipment															
Tax in Construction Cost	0.1	0.1	0.1	10.1	10.1	16.7	3.4	3.4	3.4	0.1					47.5

Table 25 Investment Table: 19, Residential Area (Social Infrastructure)
 School, Community Facilities and Open Space. (Public Investment) Unit: million Baht

Item	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Total
Construction Cost (A)	-	-	-	94.3	106.5	20.1	10.2	1.8	1.2	1.2					235.3
(1) Civil Works															
(2) Equipment															
Consulting Services (B)	-	-	3.0	10.0	5.0	3.0	0	0	0	0					21.0
(1) Design			3.0	7.0											10.0
(2) Supervision				3.0	5.0	3.0	0	-	-	-					11.0
(A) + (B)	-	-	3.0	104.3	111.5	23.1	10.2	1.8	1.2	1.2					256.3
Contingency (15%)	-	-	0.5	15.6	16.7	3.5	1.6	0.3	0.2	0.2					38.6
Sub Total	-	-	3.5	119.9	118.2	26.6	11.8	2.1	1.4	1.4					284.9
Land Acquisition	-	-	-	60.9	18.4	14.2	11.5	11.0	12.3	12.3					140.6
Total	-	-	3.5	180.8	136.6	40.8	23.3	13.1	13.7	13.7					425.5
Tax in Civil Works				9.4	10.6	2.0	1.0	0.2	0.1	0.1					23.4
Tax in Equipment															
Tax in Construction Cost				9.4	10.6	2.0	1.0	0.2	0.1	0.1					23.4

Table 26 Investment Cost in Tourism and Residential Area (only for Public Investment)

		Unit: million Baht										Total	Total
No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Amenity Core	Social Infra-structure	Total *	Total **		
1	1977	-	-	-	-	-	-	-	-	-	-	-	
2	1978	-	-	-	-	-	-	-	-	-	-	-	
3	1979	6.0	7.4	0.9	0.9	3.1	14.8	2.3	3.5	33.1	38.9	38.9	
4	1980	171.3	146.0	0.5	12.9	34.5	375.7	26.3	180.8	740.9	948.0	948.0	
5	1981	78.9	16.0	25.1	3.5	25.9	4.9	30.4	136.6	154.3	321.3	321.3	
6	1982	28.7	9.8	21.7	0.9	4.7	5.0	78.3	40.8	70.8	189.9	189.9	
7	1983	17.8	9.8	-	0.7	-	1.8	72.7	23.3	30.1	126.1	126.1	
8	1984	35.0	2.1	-	-	-	1.2	70.4	13.1	38.3	121.8	121.8	
9	1985	6.5	27.1	-	2.1	-	2.8	71.4	13.7	38.5	123.6	123.6	
10	1986	-	-	-	4.4	-	0.6	70.6	13.7	5.0	89.3	89.3	
11	1987				7.8					7.8	7.8	7.8	
12	1988				6.4					6.4	6.4	6.4	
13	1989												
14	1990												
15	1991												
16	1992												
17	1993												
18	1994												
19	1995												
20	1996												
21	1997			..	10.3					10.3	10.3	10.3	
22	1998				8.3					8.3	8.3	8.3	
23	1999												
24	2000												
25	2001												
26	2002												
27	2003												
28	2004												
29	2005												
30	2006												
Total		344.2	218.2	48.2	175.8	68.2	406.8	422.4	425.5	1,261.4	2,109.3	2,109.3	

Note: * For Financial Evaluation, ** For Economic Evaluation excluding Investment Cost of Private Sector.

Table 27 Investment Cost in Residential Area
(only for Public Investment)

No.	Year	Unit: million Baht										Total			
		Road	Sewerage	Storm Water	Water	Solid Waste	Water Supply	Infrastructure	Social	Total	Total				
1	1977	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1979	2.9	4.7	-	-	0.6	10.8	-	-	-	3.5	-	22.5	22.5	(19.0)*
4	1980	85.5	108.2	0.5	279.3	9.3	279.3	-	-	-	180.8	-	663.6	663.6	(482.8)
5	1981	17.4	5.8	4.9	1.3	0.7	1.3	-	-	-	136.6	-	166.7	166.7	(30.1)
6	1982	28.7	5.2	5.5	1.9	0.6	1.9	-	-	-	40.8	-	82.7	82.7	(41.9)
7	1983	17.6	3.0	-	1.1	0.5	1.1	-	-	-	23.3	-	45.5	45.5	(22.2)
8	1984	23.4	0	-	0	-	0	-	-	-	13.1	-	36.5	36.5	(23.4)
9	1985	6.5	15.8	-	1.7	1.3	1.7	-	-	-	13.7	-	39.0	39.0	(25.3)
10	1986	-	0	-	0	2.8	0	-	-	-	13.7	-	16.5	16.5	(2.8)
11	1987					4.9							4.9	4.9	(4.9)
12	1988					3.8							3.8	3.8	(3.8)
13	1989														
14	1990														
15	1991														
16	1992														
17	1993														
18	1994														
19	1995														
20	1996														
21	1997					6.4							6.4	6.4	(6.4)
22	1998					4.9							4.9	4.9	(4.9)
23	1999														
24	2000														
25	2001														
26	2002														
27	2003														
28	2004														
29	2005														
30	2006														
	Total	182.0	142.7	10.9	296.1	105.4	296.1	425.5	1,162.6	1,162.6	737.1		1,162.6	1,162.6	(737.1)

Note: * Excluding School & Hospital.

Table 28 Investment Cost in Tourism Area
(only for Public Investment)

Unit: million Baht

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Amenity Core	Total	Total *
1	1977	-	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-	-
3	1979	3.0	2.7	0.9	0.2	3.1	4.0	2.3	16.2	13.9
4	1980	85.9	37.2	-	3.8	34.5	96.5	26.3	284.2	257.9
5	1981	61.5	11.8	20.2	2.8	25.9	3.9	30.4	156.5	126.1
6	1982	0.1	5.2	16.2	0.3	4.7	2.9	78.3	107.7	29.4
7	1983	0.2	7.3	-	0.2	-	0.8	72.7	81.2	8.5
8	1984	11.6	2.2	-	-	-	1.0	70.4	85.2	14.8
9	1985	1.0	10.6	-	0.8	-	0.6	71.4	84.4	13.0
10	1986	-	-	-	1.6	-	0.6	70.6	72.8	2.2
11	1987				2.9				2.9	2.9
12	1988				2.5				2.5	2.5
13	1989									
14	1990									
15	1991									
16	1992									
17	1993									
18	1994									
19	1995									
20	1996									
21	1997				3.8				3.8	3.8
22	1998				3.3				3.3	3.3
23	1999									
24	2000									
25	2001									
26	2002									
27	2003									
28	2004									
29	2005									
30	2006									
	Total	163.3	77.0	37.3	68.6	68.2	110.3	422.4	947.1	524.7

Note: * Excluding Amenity Core.

**ANNEX 8. TAX, UNSKILLED LABOR PORTION AND
ADMINISTRATION COST**

資料 8. 税金、未熟練労働者用賃金（社会的労働費用）
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ANNEX 8. TAX, UNSKILLED LABOR PORTION AND
ADMINISTRATION COST

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Unit: million Baht

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Amenity*2 Core Infrastructure	Social*1	Private*3	Total
1	1977	-	-	-	-	-	-	-	-	0.1	0.1
2	1978	-	-	-	-	-	-	-	-	0.1	0.1
3	1979	-	-	-	-	-	-	-	-	0.1	0.1
4	1980	2.7	6.5	-	1.3	0.9	31.3	0.2	9.4	10.1	62.4
5	1981	1.3	0.8	0.3	0.3	1.0	0.5	0.3	10.6	10.1	25.2
6	1982	0.6	0.4	0.4	0.1	0.1	0.5	0.8	2.0	16.7	21.6
7	1983	0.2	0.3	-	0.1	0	0.2	0.7	1.0	3.4	5.9
8	1984	0.8	0	-	0	0	0.1	0.6	0.2	3.4	5.1
9	1985	0.1	1.0	-	0.4	0	0.3	0.6	0.1	3.4	5.9
10	1986	0	0	-	0.8	0	0.1	0.7	0.1	0.1	1.8
11	1987	0	0	0	0.8	0	0	0	0	0	0.8
12	1988										
13	1989										
14	1990										
15	1991										
16	1992										
17	1993										
18	1994										
19	1995										
20	1996										
21	1997				1.1						1.1
22	1998										
23	1999										
24	2000										
25	2001										
26	2002										
27	2003										
28	2004										
29	2005										
30	2006	0	0	0	1.1	0	0	0	0	0	1.1
	Total	5.7	9.0	0.7	22.0	2.0	33.0	3.9	23.4	47.5	147.2

Note
*1. Social Infrastructure, refer to Annex 6. Table 3.7 which include school, Community Facilities and Open Space.
*2. Amenity Core, refer to Annex 6. Table 3.12 to 3.15 which include, Main Amenity Core, Northern Core, Inland Activity Zones and Beach Facilities.
*3. Private Sector, refer to Annex 6. Table 3.16 to 3.18 which include Private Hotels and Restaurants.

Table 2. Tax in Investment Cost : Residential Area

		(only for Public Investment)						Unit: million Baht	
No.	Year	Road	Sewerage	Storm Water	Solid Waste	Water Supply	Social Infrastructure	Total	
1	1977	-	-	-	-	-	-	-	
2	1978	-	-	-	-	-	-	-	
3	1979	-	-	-	-	-	-	-	
4	1980	0.8	4.8	-	0.9	23.1	9.4	39.0	
5	1981	0.2	0.3	0.1	0.1	0.1	10.6	11.4	
6	1982	0.6	0.2	0.1	0.1	0.2	2.0	3.2	
7	1983	0.2	0.1	-	0.1	0.1	1.0	1.5	
8	1984	0.4	-	-	0	0	0.2	0.6	
9	1985	0.1	0.6	-	0.3	0.2	0.1	1.3	
10	1986	-	0	-	0.5	0	0.1	0.6	
11	1987				0.5			0.5	
12	1988								
13	1989								
14	1990								
15	1991								
16	1992								
17	1993								
18	1994								
19	1995								
20	1996								
21	1997				0.7			0.7	
22	1998								
23	1999								
24	2000								
25	2001								
26	2002								
27	2003								
28	2004								
29	2005								
30	2006								
Total		2.3	6.0	0.2	14.0	23.7	23.4	69.6	

Table 3. Tax In Investment Cost: Tourism Area
(Only for Public Investment)

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Amenity Core	Total
1	1977	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-
3	1979	-	-	-	-	-	-	-	-
4	1980	1.9	1.7	-	0.4	0.9	8.1	0.2	13.2
5	1981	1.1	0.5	0.2	0.2	1.0	0.4	0.3	3.7
6	1982	0	0.2	0.3	0	0.1	0.3	0.8	1.7
7	1983	0	0.2	-	0	-	0.1	0.7	1.0
8	1984	0.4	0	-	0	-	0.1	0.6	1.1
9	1985	0	0.4	-	0.1	-	0.1	0.6	1.2
10	1986	0	0	-	0.3	-	0.1	0.7	1.1
11	1987				0.3				0.3
12	1988								
13	1989								
14	1990								
15	1991								
16	1992								
17	1993								
18	1994								
19	1995								
20	1996				0.3				0.3
21	1997								
22	1998				0.4				0.4
23	1999								
24	2000								
25	2001								
26	2002								
27	2003								
28	2004								
29	2005								
30	2006				0.4				0.4
	Total	3.4	3.0	0.5	8.0	2.0	9.2	3.9	30.6

Table 4. Unskilled Labor Portion: Tourism and Residential Area

Unit: million Baht

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Amenity Core Infrastructure	Social Infrastructure	Private Sector	Total
1	1977	-	-	-	-	-	-	-	-	0.1	0.1
2	1978	-	-	-	-	-	-	-	-	0.1	0.1
3	1979	-	-	-	-	-	-	-	-	0.1	0.1
4	1980	5.4	5.9	0	0.3	-	6.8	0.8	4.7	6.8	30.7
5	1981	2.1	1.0	0.4	0.1	0.3	0.3	0.9	5.3	6.7	17.1
6	1982	1.4	0.5	0.4	0.1	0.2	0.3	2.2	1.0	11.0	17.1
7	1983	0.4	0.4	0	0	0.3	0.1	1.6	0.5	2.4	5.7
8	1984	2.3	0	0	0	-	0	1.4	0.1	2.4	6.2
9	1985	0.3	1.3	0	0	-	0.1	1.4	0.1	2.4	5.6
10	1986	0	-	0	0	-	0	1.4	0.1	0.2	1.7
11	1987	0	0	0	0.2	0	0	0	0	0	0.2
12	1988										
13	1989										
14	1990										
15	1991										
16	1992										
17	1993										
18	1994										
19	1995										
20	1996										
21	1997				0.2						0.2
22	1998										
23	1999										
24	2000										
25	2001										
26	2002										
27	2003										
28	2004										
29	2005										
30	2006	0	0	0	0.2	0	0	0	0	0	0.2
Total		11.9	9.1	0.8	4.5	0.8	7.6	9.7	11.8	31.8	88.4

Table 5. Unskilled Labor Portion: Residential Area

Unit: million Baht

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Water Supply	Social Infrastructure	Total
1	1977	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-
3	1979	-	-	-	-	-	-	-
4	1980	1.7	4.4	0	0.2	4.9	4.7	15.9
5	1981	0.5	0.4	0.1	-	0	5.3	6.3
6	1982	1.4	0.3	0.2	0	0.1	1.0	3.0
7	1983	0.3	0.1	0	0	0	0.5	0.9
8	1984	1.2	-	-	0	0	0.1	1.3
9	1985	0.3	0.7	-	0	0.1	0.1	1.2
10	1986	0	-	-	0	0	0.1	0.1
11	1987	0	0	-	0.1	0	-	0.1
12	1988	-	-	-	-	-	-	-
13	1989	-	-	-	-	-	-	-
14	1990	-	-	-	-	-	-	-
15	1991	-	-	-	-	-	-	-
16	1992	-	-	-	-	-	-	-
17	1993	-	-	-	-	-	-	-
18	1994	-	-	-	-	-	-	-
19	1995	-	-	-	-	-	-	-
20	1996	-	-	-	-	-	-	-
21	1997	-	-	-	-	-	-	-
22	1998	-	-	-	-	-	-	-
23	1999	-	-	-	-	-	-	-
24	2000	-	-	-	-	-	-	-
25	2001	-	-	-	-	-	-	-
26	2002	-	-	-	-	-	-	-
27	2003	-	-	-	-	-	-	-
28	2004	-	-	-	-	-	-	-
29	2005	-	-	-	-	-	-	-
30	2006	-	-	-	-	-	-	-
	Total	5.4	5.9	0.3	2.2	5.1	11.8	30.7

Table 6. Unskilled Labor Portion: Tourism Area

No.	Year	Unit: million Baht							Total
		Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Amenity Core	
1	1977	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-
3	1979	-	-	-	-	-	-	-	-
4	1980	3.6	1.5	-	0.1	-	1.8	0.9	7.9
5	1981	1.7	0.6	0.3	0.1	0.3	0.3	1.1	4.4
6	1982	0.1	0.2	0.3	0.1	0.2	0.2	2.2	3.3
7	1983	0	0.3	0	0	0.3	0	1.6	2.2
8	1984	1.1	0	0	0	-	0	1.4	2.5
9	1985	0	0.6	0	0	-	0	1.5	2.1
10	1986	0	-	0	0	-	0	1.5	1.5
11	1987	0	0	0	0.1	0	0	0	0.1
12	1988								
13	1989								
14	1990								
15	1991								
16	1992								
17	1993								
18	1994								
19	1995								
20	1996								
21	1997				0.1				0.1
22	1998								
23	1999								
24	2000								
25	2001								
26	2002								
27	2003								
28	2004								
29	2005								
30	2006								
Total		6.5	3.2	0.6	2.3	0.8	2.3	10.2	25.9

Table 7. Administration Cost (1), Tourism and Residential Area

No.	Year	Unit: million Baht									
		(1) Road	(2) Sewerage	(3) Storm Water	(4) Solid Waste	(5) Marine & Port	(6) Water Supply	(7) Amenity Core	(8=1-6) Total for FA *2	(9=1-7) Total for EA *3	
1	1977	-	-	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-	-	-
3	1979	0.8	0.6	0.2	0.4	0.2	0.8	3.0 (2.2)	3.9 (3.1)*1		
4	1980	1.0	0.8	0.2	0.5	0.2	1.1	3.8 (2.7)	5.1 (4.0)		
5	1981	1.2	1.0	0.2	0.7	0.3	1.5	4.9 (3.4)	6.5 (5.0)		
6	1982	1.4	1.1	0.2	0.7	0.3	1.6	5.3 (3.7)	7.1 (5.5)		
7	1983	↓	↓	↓	↓	↓	↓	↓	↓		
8	1984	↓	↓	↓	↓	↓	↓	↓	↓		
9	1985	↓	↓	↓	↓	↓	↓	↓	↓		
10	1986	1.4	1.1	0.2	0.7	0.3	1.6	5.3 (3.7)	7.1 (5.5)		
11	1987	0.8	0.6	0.2	0.4	0.2	0.8	3.0 (2.2)	3.9 (3.1)		
12	1988	↓	↓	↓	↓	↓	↓	↓	↓		
13	1989	↓	↓	↓	↓	↓	↓	↓	↓		
14	1990	↓	↓	↓	↓	↓	↓	↓	↓		
15	1991	↓	↓	↓	↓	↓	↓	↓	↓		
16	1992	↓	↓	↓	↓	↓	↓	↓	↓		
17	1993	↓	↓	↓	↓	↓	↓	↓	↓		
18	1994	↓	↓	↓	↓	↓	↓	↓	↓		
19	1995	↓	↓	↓	↓	↓	↓	↓	↓		
20	1996	↓	↓	↓	↓	↓	↓	↓	↓		
21	1997	↓	↓	↓	↓	↓	↓	↓	↓		
22	1998	↓	↓	↓	↓	↓	↓	↓	↓		
23	1999	↓	↓	↓	↓	↓	↓	↓	↓		
24	2000	↓	↓	↓	↓	↓	↓	↓	↓		
25	2001	↓	↓	↓	↓	↓	↓	↓	↓		
26	2002	↓	↓	↓	↓	↓	↓	↓	↓		
27	2003	↓	↓	↓	↓	↓	↓	↓	↓		
28	2004	↓	↓	↓	↓	↓	↓	↓	↓		
29	2005	↓	↓	↓	↓	↓	↓	↓	↓		
30	2006	0.8	0.6	0.2	0.4	0.2	0.8	3.0 (2.2)	3.9 (3.1)		
Total		26.0	19.9	5.6	13.1	6.2	27.4	98.2 (70.8)	129.0 (101.6)		

Note: *1 Figures in the parenthesis show the cost excluding cost of water supply system.
 *2, FA: Cost for Financial Analysis *3, EA: Cost for Economic Analysis

Table 8. Administration Cost(2) Residential Area

Unit: million Baht

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Water Supply	Total for FA	Total for EA
1	1977	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-
3	1979	0.4	0.2	0.1	0.2	0.6	1.5 (0.9)	1.5 (0.9)
4	1980	0.5	0.3	0.1	0.2	0.8	1.9 (1.1)	1.9 (1.1)
5	1981	0.6	0.4	0.1	0.3	1.1	2.5 (1.4)	2.5 (1.4)
6	1982	0.7	0.4	0.1	0.3	1.2	2.7 (1.5)	2.7 (1.5)
7	1983	↓	↓	↓	↓	↓	↓	↓
8	1984	↓	↓	↓	↓	↓	↓	↓
9	1985	↓	↓	↓	↓	↓	↓	↓
10	1986	0.7	0.4	0.1	0.3	1.2	2.7 (1.5)	2.7 (1.5)
11	1987	0.4	0.2	0.1	0.2	0.6	1.5 (0.9)	1.5 (0.9)
12	1988	↓	↓	↓	↓	↓	↓	↓
13	1989	↓	↓	↓	↓	↓	↓	↓
14	1990	↓	↓	↓	↓	↓	↓	↓
15	1991	↓	↓	↓	↓	↓	↓	↓
16	1992	↓	↓	↓	↓	↓	↓	↓
17	1993	↓	↓	↓	↓	↓	↓	↓
18	1994	↓	↓	↓	↓	↓	↓	↓
19	1995	↓	↓	↓	↓	↓	↓	↓
20	1996	↓	↓	↓	↓	↓	↓	↓
21	1997	↓	↓	↓	↓	↓	↓	↓
22	1998	↓	↓	↓	↓	↓	↓	↓
23	1999	↓	↓	↓	↓	↓	↓	↓
24	2000	↓	↓	↓	↓	↓	↓	↓
25	2001	↓	↓	↓	↓	↓	↓	↓
26	2002	↓	↓	↓	↓	↓	↓	↓
27	2003	↓	↓	↓	↓	↓	↓	↓
28	2004	↓	↓	↓	↓	↓	↓	↓
29	2005	↓	↓	↓	↓	↓	↓	↓
30	2006	0.4	0.2	0.1	0.2	0.6	1.5 (0.9)	1.5 (0.9)
Total		13.0	6.9	2.8	6.2	20.5	49.4 (28.9)	49.4 (28.9)

Note: * Figures in the parenthesis show the cost excluding cost of water supply system.

Table 9. Administration Cost of Tourism Area

No.	Year	Unit: million Baht							(9=1-7) Total for EA
		(1) Road	(2) Sewerage	(3) Storm Water	(4) Solid Waste	(5) Marine & Port	(6) Water Supply	(7) Amenity Core	
1	1977	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-
3	1979	0.4	0.4	0.1	0.2	0.2	0.2	1.5 (1.3)	2.4 (2.2)
4	1980	0.5	0.5	0.1	0.3	0.2	0.3	1.9 (1.6)	3.2 (2.9)
5	1981	0.6	0.6	0.1	0.4	0.3	0.4	2.4 (2.0)	4.0 (3.6)
6	1982	0.7	0.7	0.1	0.4	0.3	0.4	2.6 (2.2)	4.4 (4.0)
7	1983	↓	↓	↓	↓	↓	↓	↓	↓
8	1984	↓	↓	↓	↓	↓	↓	↓	↓
9	1985	↓	↓	↓	↓	↓	↓	↓	↓
10	1986	0.7	0.7	0.1	0.4	0.3	0.4	2.6 (2.2)	4.4 (4.0)
11	1987	0.4	0.4	0.1	0.2	0.2	0.2	1.5 (1.3)	2.4 (2.2)
12	1988	↓	↓	↓	↓	↓	↓	↓	↓
13	1989	↓	↓	↓	↓	↓	↓	↓	↓
14	1990	↓	↓	↓	↓	↓	↓	↓	↓
15	1991	↓	↓	↓	↓	↓	↓	↓	↓
16	1992	↓	↓	↓	↓	↓	↓	↓	↓
17	1993	↓	↓	↓	↓	↓	↓	↓	↓
18	1994	↓	↓	↓	↓	↓	↓	↓	↓
19	1995	↓	↓	↓	↓	↓	↓	↓	↓
20	1996	↓	↓	↓	↓	↓	↓	↓	↓
21	1997	↓	↓	↓	↓	↓	↓	↓	↓
22	1998	↓	↓	↓	↓	↓	↓	↓	↓
23	1999	↓	↓	↓	↓	↓	↓	↓	↓
24	2000	↓	↓	↓	↓	↓	↓	↓	↓
25	2001	↓	↓	↓	↓	↓	↓	↓	↓
26	2002	↓	↓	↓	↓	↓	↓	↓	↓
27	2003	↓	↓	↓	↓	↓	↓	↓	↓
28	2004	↓	↓	↓	↓	↓	↓	↓	↓
29	2005	↓	↓	↓	↓	↓	↓	↓	↓
30	2006	0.4	0.4	0.1	0.2	0.2	0.2	1.5 (1.3)	2.4 (2.2)
Total		13.0	13.0	2.8	6.9	6.2	30.8	48.8 (41.9)	79.6 (72.7)

Note: * Figures in the parenthesis show the cost excluding cost of water supply system.

Table 10. Tax and Unskilled Labor Portion in Other Facilities

No.	Year	Category B												Total	
		Social Infrastructure		Amenity Cores		Activity Zones and Beach Facilities				Hotels		Restaurants			
		Tax	U.L	Tax	U.L	Tax	U.L	Tax	U.L	Tax	U.L	Tax	U.L		
1	1977	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.1
2	1978	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.1
3	1979	-	-	-	-	-	-	-	-	-	-	0.1	0.1	0.1	0.1
4	1980	9.4	4.7	0.2	0.8	-	-	10.0	6.6	0.1	0.2	0.1	0.2	19.7	12.3
5	1981	10.6	5.3	0.2	0.7	0.1	0.2	10.0	6.5	0.1	0.2	0.1	0.2	21.0	12.9
6	1982	2.0	1.0	0.2	0.8	0.6	1.4	16.6	10.8	0.1	0.2	0.1	0.2	19.5	14.2
7	1983	1.0	0.5	0.1	0.2	0.6	1.4	3.3	2.2	0.1	0.2	0.1	0.2	5.1	4.5
8	1984	0.2	0.1	0.1	0.2	0.5	1.2	3.3	2.2	0.1	0.2	0.1	0.2	4.2	3.9
9	1985	0.1	0.1	0.1	0.2	0.5	1.2	3.3	2.2	0.1	0.2	0.1	0.2	4.1	3.9
10	1986	0.1	0.1	0.1	0.2	0.6	1.2	-	-	0.1	0.2	0.1	0.2	0.9	1.7
Total		23.4	11.8	1.0	3.1	2.9	6.6	46.5	30.5	1.0	1.7	74.8	53.7		

Note: U.L shows unskilled laborer's wages in construction cost.

**ANNEX 9 REVENUE BY INFRASTRUCTURE AND
PROFIT AND LOSS STATEMENT**

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**ANNEX 9 REVENUE BY INFRASTRUCTURE AND
PROFIT AND LOSS STATEMENT**

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2. Profit and Loss Statement

Table 2.1 Profit and Loss Statement for Infrastructure:

		Residential and Tourism Area ...	9-25
2.2	do	:	
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2.3	do	:	
		Tourism Area	9-27
2.4	do	:	
		Tourism Area	9-28
		(Excluding Water Supply System)	
2.5	do	:	
		Residential Area	9-29
2.6	do	:	
		Residential Area	9-30
		(Excluding Water Supply System)	

Table 1-a Total Revenue (1) Residential and Tourism Area

unit: x 10³ Baht

No. Year	Road and Street Sewerage Storm Water Drainage Solid Waste Disposal Port Facilities (A)			Water Supply (B)			Road and Steet Sewerage, Storm Water Drainage, Solid Waste Disposal, Water Supply Port Facilities (A+B)		
	A.C	S.C	S.T	A.C	S.C	S.T	A.C	S.C	S.T
4 1980	1,422	2,198	3,620	-	-	-	1,422	2,198	3,620
5 1	2,125	11,215	13,340	309	13,016	13,325	2,434	24,231	26,665
6 2	7,943	15,942	23,885	1,874	20,194	22,068	9,817	36,136	45,953
7 3	14,043	16,303	30,346	4,052	22,190	26,242	18,095	38,493	56,588
8 4	23,845	17,703	41,548	4,236	23,651	27,887	28,081	41,354	69,435
9 5	30,858	19,407	50,265	4,236	24,340	28,576	35,094	43,749	78,841
10 6	46,267	21,495	67,762	4,992	27,059	32,051	51,259	48,554	99,813
11 7									
12 8									
13 9									
14 90									
15 1									
16 2									
17 3									
18 4									
19 5									
20 6									
21 7									
22 8									
23 9									
24 2000									
25 1									
26 2									
27 3									
28 4									
29 5									
30 6	46,267	21,495	67,762	4,992	27,059	32,051	51,259	48,554	99,813
Total	1,051,843	534,163	1,586,006	119,539	671,630	791,169	1,171,382	1,205,793	2,377,175

Notes: A.C : Annual charge S.C : Service charge S.T : Sub-total

Table 1-b Total Revenue (2) Residential and Tourism Area, by Type of Charges

unit: x 10³ Baht

No. Year	Road and Street		Sewerage		Storm Water Drainage			Solid Waste Disposal			Post Facilities		Water Supply		Grand Total	
	R AC	T ¹ AC&SC	R ² SC	T ³ AC&SC	R AC	T AC	ST	R SC	T ³ AC&SC	ST	T(S.T.) AC&SC	Total	R ² SC	T ³ AC&SC		ST
4 1980	-	-	-	-	-	-	-	1,092	2,568	3,620	-	3,620	-	-	-	
5 1	2,300	2,300	3,387	1,088	-	-	-	1,141	3,112	4,253	2,312	13,340	10,190	3,135	13,325	
6 2	2,800	2,800	3,692	5,942	-	-	-	1,249	4,598	5,847	5,604	23,88	10,800	11,268	23,068	
7 3	3,300	3,300	4,085	7,745	-	-	-	1,361	7,344	8,705	6,501	30,336	11,869	14,373	26,242	
8 4	4,416	6,520	4,355	8,141	552	1,250	1,802	1,481	8,213	9,694	6,621	41,549	12,843	15,044	27,887	
9 5	7,056	10,270	4,471	8,159	941	1,883	2,824	1,603	9,211	10,814	6,621	50,215	13,503	15,073	28,576	
10 6	9,984	18,676	4,620	9,773	1,248	4,557	5,805	1,731	10,036	11,767	7,137	67,762	14,302	17,749	32,051	
11 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29 5	9,984	18,676	28,660	4,620	9,773	14,393	5,805	1,248	4,557	11,767	7,137	67,762	14,302	17,749	32,051	
30 6	221,136	417,386	638,522	117,010	236,308	353,318	27,701	98,830	126,531	44,238	245,802	290,040	1,585,947	359,547	431,622	791,169
Total																2,377,116

Notes: R : for Residents T : for Tourism industries S.C.: Service Charge
S.T.: Sub total A.C.: Annual charge

*1: including revenue from parking and concession on Baht-Bus.
*2: including revenue from other industries such as Tapioca factories.
*3: including revenue from residents in Kolan Island.

Table 2. Total Revenue (3) Tourism Area

unit: x 10³ Baht

No. Year	Road and Street Sewerage Storm Water Drainage Solid Waste Disposal Port Facilities (A)			Water Supply (B)			Road and Street Sewerage Storm Water Drainage, Solid Waste Disposal, Water Supply Port Facilities (A+B)		
	A.C	S.C	S.T	A.C	S.C	S.T	A.C	S.C	S.T
4 1980	1,422	1,146	2,568	-	-	-	1,422	1,146	2,568
5 1	2,125	6,687	8,812	309	2,826	3,135	2,434	9,513	11,947
6 2	7,943	11,001	18,944	1,874	9,394	11,268	9,817	20,395	30,212
7 3	14,043	10,857	24,900	4,052	10,321	14,373	18,095	21,178	39,273
8 4	18,877	11,867	30,744	4,236	10,808	15,044	23,113	22,675	45,788
9 5	22,861	13,333	36,194	4,236	10,837	15,073	27,097	24,170	51,267
10 6	35,035	15,144	50,179	4,992	12,757	17,749	40,027	27,901	67,928
11 7									
12 8									
13 9									
14 90									
15 1									
16 2									
17 3									
18 4									
19 5									
20 6									
21 7									
22 8									
23 9									
24 2000									
25 1									
26 2									
27 3									
28 4									
29 5									
30 6	35,035	15,144	50,179	4,992	12,757	17,749	40,027	27,901	67,928
Total	803,006	372,915	1,175,921	119,539	312,083	431,622	922,545	684,998	1,607,543

Notes: A.C : Annual charge S.C : Service charge S.T : Sub-total

Table 3. Total Revenue (4) Residential Area

unit: x 10³ Baht

No. Year	Road and Street Sewerage Storm Water Drainage Solid Waste Disposal			Water Supply (B) S.C(S.T)	Road and Street Sewerage Storm Water Drainage, Solid Waste Disposal, Water Supply		
	(A)				(A+B)		
	A.C	S.C	S.T		A.C	S.C	S.T
4 1980	-	1,052	1,052	-	-	1,052	1,052
5 1	-	4,528	4,528	10,190	-	14,718	14,718
6 2	-	4,941	4,941	10,800	-	15,741	15,741
7 3	-	5,446	5,446	11,869	-	17,315	17,315
8 4	4,968	5,836	10,804	12,843	4,968	18,679	23,647
9 5	7,997	6,074	14,071	13,503	7,997	19,577	27,574
10 6	11,232	6,351	17,583	14,302	11,232	20,653	31,885
11 7							
12 8							
13 9							
14 90							
15 1							
16 2							
17 3							
18 4							
19 5							
20 6							
21 7							
22 8							
23 9							
24 2000							
25 1							
26 2							
27 3							
28 4							
29 5							
30 6	11,232	6,351	17,583	14,302	11,232	20,653	31,885
Total	248,837	161,248	410,085	359,547	248,837	520,795	769,632

Notes: A.C : Annual charge S.C : Service charge S.T : Sub-total

Table 4 Revenue Generating from Residential Area Service and Annual Charges for Infrastructure

unit: x10³ Baht

No. Year	1		2		3		4		5		6		7		8		9		10		11		12		13		14		
	Road Residents		Storm Water Drainage		Sewerage		Sub-Total		Residents		Solid Waste Disposal		Water Supply		Water Supply		Sub-Total		1+4+5+6+9 Total		6 +2+7		Allocation by Users		11+12		Others		
	A.C.	S.C	Residents	A.C	Industries	S.C	Residents	S.C	Residents	S.C	Residents	S.C	Residents	S.C	Other Industries	S.C	Sub-Total	Industries	S.C	1+4+5+6+9 Total	S.C	A.C	Residents	A.C	Sub-Total	S.C	S.C	S.C	
4 1980																													
5 81		825	2,562				3,387					1,052	1,650		8,540		10,190		14,718		1,052	3,616		1,052	3,616		11,102		
6 82		1,130	2,562				3,692					1,141	2,260		8,540		10,800		15,741		14,718	4,639		4,639	4,639		11,102		
7 83		1,523	2,562				4,085					1,249	3,351		8,540		11,869		17,337		15,741	6,235		6,235	6,235		11,102		
8 84		4,416	2,562				4,355					1,361	4,303		8,540		12,843		23,647		17,337	7,577		4,968	12,565		11,102		
9 85		7,056	2,562				4,471					1,481	4,963		8,540		13,503		27,574		23,647	8,475		7,997	16,472		11,102		
10 86		9,984	2,562				4,620					1,603	5,762		8,540		14,302		31,885		27,574	9,551		11,232	20,783		11,102		
11 87												1,731			8,540						31,885								
12 88																													
13 89																													
14 90																													
15 91																													
16 92																													
17 93																													
18 94																													
19 95																													
20 96																													
21 97																													
22 98																													
23 99																													
24 2000																													
25 1																													
26 2																													
27 3																													
28 4																													
29 5																													
30 6		9,984	2,562				4,620					1,731	5,762		8,540		14,302		31,885		11,232	9,551		11,232	20,783		11,102		
Total		221,136	66,612				117,010				46,238	137,529		222,060		359,547		769,654		769,654		248,837	232,165		481,002		288,652		

Table 5 Revenue Generating from Tourism Area :
Hotel, Restaurant and Other Tourism Industries
Service and Annual Charge for Infrastructure

No Year	Unit $\times 10^3$ Baht.																																									
	1	1'	2	3	4=1+1'+2+3	5	6	7	8	9	10=5+6+7+8+9	11	12	13=11+12	14	15	16	17	18	19=16+15+16+17+18	20	21	22	23=20+21+22	24	25	26	27	28	29=26+25+26+27+28	30=5+14+24	31=1+6+11+13+22+25	32=7+16+26	33=1'+6+12+17+27	34=9+18+28	35=2+8+20+21	36=4+10+13+19+23+29	Total				
	Road and Street System					Sewerage System						Storm Water Drainage System			Solid Waste Disposal System					Port Facilities			Water Supply System					Allocation by Users														
	Hotel	Rest.	Parking	Concession on Baht - Bus	Total	Hotel		Restaurant		Ko Lan Island	Total	Hotel	Rest.	Total	Hotel		Restaurant		Ko Lan Island	Total	Boat	Rental	Hotel	Total	Hotel		Restaurant		Ko Lan Island	Total	Hotel		Restaurant		Ko Lan Island	Parking Baht-bus Boat Rental						
A.C	A.C	S.C	S.C		S.C	A.C	S.C	A.C	S.C		A.C	A.C		S.C	A.C	S.C	A.C	S.C		S.C	S.C	A.C		S.C	A.C	S.C	A.C	S.C		S.C	A.C	S.C	A.C	S.C		$\times 10^3$ Baht						
1980																																										
5 1981			700	1,600	2,300	740	74	140	56	78	1,088																															2,568
1982			800	2,000	2,800	4,720	744	140	56	82	5,942																															1,112
1983			910	2,400	3,310	5,170	2,068	300	120	87	7,745																															1,668
1984	2,460	60	1,000	3,000	6,520	5,440	2,176	310	124	91	8,141	1,230	20	1,250	1,809	5,427	228	684	64	64	8,213	1,032	1,159	2,460	6,621	10,270	4,108	320	128	218	15,044	17,519	17,861	858	1,016	373	6,161	45,788	1,032			
1985	4,920	150	1,200	4,000	10,270	5,440	2,176	320	128	95	8,159	1,845	88	1,883	2,028	6,084	258	774	67	67	9,211	1,002	1,159	2,460	6,621	10,270	4,108	320	128	247	15,073	17,738	21,593	898	1,268	409	9,361	51,267	1,002			
10 1986	11,904	372	1,400	5,000	18,676	6,580	2,632	330	132	99	9,773	4,464	93	4,557	2,214	6,642	276	828	76	76	10,036	1,002	1,159	2,976	7,137	12,150	4,860	330	132	277	17,749	20,944	33,478	936	1,557	452	10,561	67,928	1,002			
1987																																										
1988																																										
1989																																										
1990																																										
15 1991																																										
1992																																										
1993																																										
1994																																										
1995																																										
20 1996																																										
1997																																										
1998																																										
1999																																										
2000																																										
25 2001																																										
2002																																										
2003																																										
2004																																										
2005																																										
30 2006																																										
	257,364	8,022	74,000	138,000	417,386	139,690	62,710	8,140	3,256	2,312	236,308	96,819	2,011	98,830	55,597	160,436	6,969	20,907	1,893	245,802	76,218	29,426	71,892	177,516	297,140	116,279	8,150	1,260	6,793	331,622	512,426	765,500	23,259	37,506	11,198	257,654	1,607,563					

Table 6 Revenue Generating (Tourism-1)

S.C: Service charge
A.C: Annual charge
Baht-bus: Concession on Baht-bus

Tourism Area: Road and Street System

No. Year	Consumption				Parking Lots		Hotel		Restaurant		Baht-bus		Total X10 B	
	Parking Lot	Hotel Room	Restau- rant	Baht- bus unit	*1 S.C.	X10 ³ B	A.C	X10 ³ B	A.C.	X10 ³ B	*2 S.C	X10 ³ B		
1	1977													
2	78													
3	79													
4	80					B/year						B/year		
5	81	350			200	2,000	700					8,000	1,600	2,300
6	82	400			200	2,000	800					10,000	2,000	2,800
7	83	450			220	2,000	900					11,000	2,400	3,300
8	84	500	2,050	100	230	2,000	1,000	1,200	2,460	600	60	13,000	3,000	6,520
9	85	600	2,050	125	240	2,000	1,200	2,400	4,920	1,200	150	17,000	4,000	10,270
10	86	700	2,050	155	250	2,000	1,400	4,800	11,904	2,400	372	20,000	5,000	18,676
11	87													
12	88													
13	89													
14	90													
15	91													
16	92													
17	93													
18	94													
19	95													
20	96													
21	97													
22	98													
23	99													
24	2000													
25	1													
26	2													
27	3													
28	4													
29	5													
30	6	700	2,480	155	250	2,000	1,400	4,800	11,904	2,400	372	20,000	5,000	18,676
Total		17,000	56,180	3,480	6,340	-	34,000	-	257,364	-	8,022	-	118,000	417,386

Note: *1. Parking charge = 90% x 365 days x 3 Baht x 2 times = 2,000 Baht/lot.year

*2. Concession on Baht-bus = 85% x 365 days x 25 Baht = 8,000 Baht/bus.year (1981)
= 85% x 365 days x 65 Baht = 20,000 Baht/bus.year (1986)

Table 7 Revenue Generating (Tourism-2)

Year	Tourism Area: Sewerage System												S.C : Service charge A.C : Annual charge						
	Consumption (unit: X10 ³ m ³)			Hotel			Restaurant			Kolan Island			Breakdown						
	Hotel	Res- tau- rant	Sub- Total	S.C B/m ³	① X10 ³ B	A.C B/m ³	*1	② X10 ³ B	Sub- Total X10 ³ B	S.C B/m ³	③ X10 ³ B	A.C B/m ³	④ X10 ³ B	Sub- Total X10 ³ B	S.C B/m ³	⑤ X10 ³ B	Total X10 ³ B	S.C ①+③	A.C ②+④+⑤
1 1977																			
2 78																			
3 79																			
4 80																			
5 81	74	14	88	10	740	1	74	814	10	140	4	56	196	1	78	1,088	880	208	
6 82	472	14	486	10	4,720	2	944	7,664	10	140	4	56	196	1	82	5,942	4,860	1,082	
7 83	512	30	547	10	5,170	4	2,068	7,238	10	300	4	120	420	1	87	7,745	5,470	2,275	
8 84	544	31	575	10	5,440	4	2,176	7,616	10	310	4	124	434	1	91	8,141	5,570	2,391	
9 85	544	32	576	10	5,440	4	2,176	7,616	10	320	4	128	448	1	95	8,159	5,760	2,399	
10 86	658	33	691	10	6,580	4	2,632	9,212	10	330	4	132	462	1	99	9,773	6,910	2,863	
11 87																			
12 88																			
13 89																			
14 90																			
15 91																			
16 92																			
17 93																			
18 94																			
19 95																			
20 96																			
21 97																			
22 98																			
23 99																			
24 2000																			
25 1																			
26 2																			
27 3																			
28 4																			
29 5																			
30 6																			
Total	15,969	814	16,783	2,512	159,690	-	62,710	222,400	-	8,140	-	3,256	11,396	-	2,512	236,308	167,830	68,478	

Note: *1. Annual Fixed Charge as = 1 B/m³ x 365 days x 0.85 m³/day = 310 Baht/room year. (1981)

Table 8. Revenue Generating (Tourism-3)

S.C: Service charge
A.C: Annual charge

Tourism Area: Storm Water Drainage System

Year		Consumption		Hotel		Restaurant		Total X10 ³ B
		Hotel Rooms	Restau- rant	A.C B/room	X10 ³ B	A.C B/shop	X10 ³ B	
1	1977							
2	78							
3	79							
4	80							
5	81							
6	82							
7	83							
8	84	2,050	100	600	1,230	200	20	1,250
9	85	2,050	125	900	1,845	300	38	1,883
10	86	2,480	155	1,800	4,464	600	93	4,557
11	87							
12	88							
13	89							
14	90							
15	91							
16	92							
17	93							
18	94							
19	95							
20	96							
21	97							
22	98							
23	99							
24	2000							
25	1							
26	2							
27	3							
28	4							
29	5							
30	6	2,480	155	1,800	4,464	600	93	4,557
Total		56,180	3,480	-	96,819	-	20.11	98,830

Table 9 Revenue Generating (Tourism-4)

S.C: Service charge
A.C: Annual charge

Tourism Area: Solid Waste Collection and Disposal System

Year	Consumption (unit: t/y)			Hotel				Restaurant				Kolan Island			Breakdown			
	Hotel	Res- taurant	Sub- Total	① X10 ³ B	A.C B/kg	S.C B/kg	② X10 ³ B	Sub- Total X10 ³ B	S.C B/kg	③ X10 ³ B	A.C B/kg	④ X10 ³ B	Sub- Total X10 ³ B	S.C B/kg	⑤ X10 ³ B	Sub- Total X10 ³ B	S.C ①+③+④ X10 ³ B	A.C ②+⑤ X10 ³ B
1 1977																		
2 78																		
3 79																		
4 80	3,360	460	3,820	1,008	0.3	0.30	1,008	2,016	0.30	138	0.9	414	552	0.1	-	2,568	1,146	1,442
5 81	4,060	520	4,580	1,218	0.3	0.30	1,218	2,436	0.30	156	0.9	468	624	0.1	52	3,112	1,426	1,686
6 82	4,750	620	5,370	1,426	0.5	0.30	2,375	3,800	0.30	186	0.9	528	744	0.1	54	4,598	1,665	2,933
7 83	5,380	690	6,070	1,614	0.9	0.30	4,842	6,456	0.30	207	0.9	621	828	0.1	60	7,344	1,881	5,463
8 84	6,030	760	6,790	1,809	0.9	0.30	5,427	7,236	0.30	228	0.9	684	912	0.1	64	8,213	2,102	6,111
9 85	6,760	860	7,620	2,028	0.9	0.30	6,084	8,112	0.30	258	0.9	774	1,032	0.1	67	9,211	2,353	6,858
10 86	7,380	920	8,300	2,214	0.9	0.30	6,642	8,856	0.30	276	0.9	828	1,104	0.1	76	10,036	2,566	7,470
11 87																		
12 88																		
13 89																		
14 90																		
15 91																		
16 92																		
17 93																		
18 94																		
19 95																		
20 96																		
21 97																		
22 98																		
23 99																		
24 2000																		
25 1																		
26 2																		
27 3																		
28 4																		
29 5																		
30 6																		
Total	185,320	23,230	208,550	18,930	-	-	55,597	216,033	-	6,969	-	20,907	27,876	-	1,893	245,802	64,459	181,444

Note: *1. Annual fixed charge as = 0.3 B/kg x 365 x 1.4 kg/room.day = 153 Baht/room.year (1990)

Table 10. Revenue Generating (Tourism-5)

Tourism Area : Port Facilities

S.C: Service charge
A.C: Annual charge

Year	Consumption			Hire of *1 pier		Rental *2 Charge		Hotel		Total X10 ³ B	
	Boats	Rental Area (m ³)	Hotel Rooms	S.C X10 ³ B/B	X10 ³ B	S.C ₂ B/m ²	X10 ³ B	A.C B/room	X10 ³ B		
1	1977										
2	78										
3	79										
4	80										
5	81	100	3,500	-	16.68	1,668	184	644	-	-	2,312
6	82	150	5,250	1,780	16.68	2,502	184	966	1,200	2,136	5,604
7	83	180	6,300	1,950	16.68	3,002	184	1,159	1,200	2,340	6,501
8	84	180	6,300	2,050	16.68	3,002	184	1,159	1,200	2,460	6,621
9	85	180	6,300	2,050	16.68	3,002	184	1,159	1,200	2,460	6,621
10	86	180	6,300	2,480	16.68	3,002	184	1,159	1,200	2,976	7,137
11	87										
12	88										
13	89										
14	90										
15	91										
16	92										
17	93										
18	94										
19	95										
20	96										
21	97										
22	98										
23	99										
24	2000										
25	1										
26	2										
27	3										
28	4										
29	5										
30	6	180	6,300	2,480	16.68	3,002	184	1,159	1,200	2,976	7,137
Total		4,570	159,950	59,910	-	76,218	-	29,426	1,200	71,892	177,536

Notes: *1 : Hire of pier ----- 16,680 Baht/boat year.
*2 : Rental charge of land ----- 184 Baht/m².year

Table 11 Revenue Generating (Tourism-6)

S.C: Service charge
A.C: Annual charge

Tourism Area: Water Supply System

Year	Consumption (unit: 10 ³ m ³)		Hotel		Restaurant		Kolan Island		Total X10 ³ B	S.C X10 ³ B ①+③+⑤	A.C X10 ³ B ②+④+⑥							
	Hotel	Res- tau- rant	Sub- Total	Kolan	S.C B/m ³	① X10 ³ B	* A.C B/m ³	② X10 ³ B				S.C B/m ³	③ X10 ³ B	④ X10 ³ B	⑤ X10 ³ B			
1 1977																		
2 78																		
3 79																		
4 80																		
5 81	253	14	267	78	10	2,530	1.0	253	10	140	4	56	196	2	156	2,826	309	
6 82	909	14	923	82	10	9,090	2.0	1,818	10	140	4	56	196	2	164	9,394	1,874	
7 83	983	30	1,013	87	10	9,830	4	3,932	10	300	4	120	420	2.4	191	10,321	4,052	
8 84	1,027	32	1,059	91	10	10,270	4	4,108	10	320	4	128	448	2.4	218	10,808	4,236	
9 85	1,027	32	1,059	95	10	10,270	4	4,108	10	320	4	128	448	2.6	247	15,073	4,236	
10 86	1,215	33	1,248	99	10	12,150	4	4,860	10	330	4	132	462	2.8	277	17,749	4,992	
11 87																		
12 88																		
13 89																		
14 90																		
15 91																		
16 92																		
17 93																		
18 94																		
19 95																		
20 96																		
21 97																		
22 98																		
23 99																		
24 2000																		
25 1																		
26 2																		
27 3																		
28 4																		
29 5																		
30 6																		
Total	29,714	815	30,529	2,512	-	297,140	-	116,279	413,418	8,150	-	3,260	11,416	-	1,793	431,622	312,083	119,539

Note: * Annual fixed charge as = 1.0 Baht/m³ x 365 days x 1.40 m³/room.day = 511 Baht/room Year

Table 12. Revenue Generating (Residential-1)

Residential Area: Road and Street System

A.C: Annual charge

Year		Consumption		A.C	
		Population	Household	Baht/year a household	X103 B
1	1977				
2	78				
3	79				
4	80				
5	81				
6	82				
7	83				
8	84	46,000	9,200	480	4,416
9	85	49,000	9,800	720	7,056
10	86	52,000	10,400	960	9,984
11	87				
12	88				
13	89				
14	90				
15	91				
16	92				
17	93				
18	94				
19	95				
20	96				
21	97				
22	98				
23	99				
24	2000				
25	1				
26	2				
27	3				
28	4				
29	5				
30	6	52,000	10,400	960	9,984
Total		1,187,000	237,400	-	221,136

Table 13. Revenue Generating (Residential-2)

Residential Area: Sewerage System

S.C: Service charge

Year	Consumption (unit: $\times 10^3 \text{ m}^3$)				Residents		Industry		Total $\times 10^3 \text{ B}$	
	Pattaya	Na Klua	Sub- Total	Indus- try *	S.C B/ m^3	$\times 10^3 \text{ B}$	S.C B/ m^3	$\times 10^3 \text{ B}$		
1	1977									
2	78									
3	79									
4	80									
5	81	255	570	825	854	1	825	3	2,562	3,387
6	82	412	718	1,130	854	1	1,130	3	2,562	3,692
7	83	655	818	1,473	854	1	1,523	3	2,562	4,085
8	84	810	983	1,793	854	1	1,793	3	2,562	4,355
9	85	891	1,018	1,909	854	1	1,909	3	2,562	4,471
10	86	1,005	1,053	2,058	854	1	2,058	3	2,562	4,620
11	87									
12	88									
13	89									
14	90									
15	91									
16	92									
17	93									
18	94									
19	95									
20	96									
21	97									
22	98									
23	99									
24	2000									
25	1									
26	2									
27	3									
28	4									
29	5									
30	6									
Total		24,128	26,220	50,348	22,204	-	50,398	-	66,612	117,010

Note: * Mainly from tapioca factories (only second grade factories)

Table 14. Revenue Generating (Residential-3)

Residential Area: Storm Water Drainage System

A.C: Service charge

Year	Consumption		A.C B/year a household	X10 ³ B	
	Population	Households			
1	1977				
2	78				
3	79				
4	80				
5	81				
6	82				
7	83				
8	84	46,000	9,200	60	552
9	85	49,000	9,800	96	941
10	86	52,000	10,400	120	1,248
11	87				
12	88				
13	89				
14	90				
15	91				
16	92				
17	93				
18	94				
19	95				
20	96				
21	97				
22	98				
23	99				
24	2000				
25	1				
26	2				
27	3				
28	4				
29	5				
30	6	52,200	10,400	120	1,248
Total		1,187,000	237,400	-	27,701

Table 15. Revenue Generating (Residential-4)

S.C: Service charge

Residential Area: Solid Waste Disposal System

Year		Consumption (unit: t/y)			S.C B/kg	X10 ³ B
		Pattaya	Na Klua	Sub- total		
1	1977					
2	78					
3	79					
4	80	5,340	5,180	10,520	0.1	1,052
5	81	5,780	5,630	11,410	0.1	1,141
6	82	6,340	6,150	12,490	0.1	1,249
7	83	6,900	6,710	13,610	0.1	1,361
8	84	7,510	7,300	14,810	0.1	1,481
9	85	8,130	7,300	16,030	0.1	1,603
10	86	8,780	8,530	17,310	0.1	1,731
11	87					
12	88					
13	89					
14	90					
15	91					
16	92					
17	93					
18	94					
19	95					
20	96					
21	97					
22	98					
23	99					
24	2000					
25	1					
26	2					
27	3					
28	4					
29	5					
30	6					
Total		224,380	218,000	442,380	-	44,238

Table 16 Revenue Generating (Residential-5)

Residential Area: Water Supply System

S.C: Service charge

Year	Consumption (unit: $\times 10^3 \text{ m}^3$)				Pattaya/Na Klua			Industry			Total $\times 10^3 \text{ B}$	
	Pattaya	Na Klua	Sub-Total	Industry	S.C B/m ³	$\times 10^3 \text{ B}$	Sub-Total $\times 10^3 \text{ B}$	S.C B/m ³	$\times 10^3 \text{ B}$	Sub-Total $\times 10^3 \text{ B}$		
1	1977											
2	78											
3	79											
4	80											
5	81	255	570	825	854	2	1,650	1,650	10	8,540	8,540	10,190
6	82	412	718	1,130	854	2	2,260	2,260	10	8,540	8,540	10,800
7	83	655	868	1,523	854	2.2	3,351	3,329	10	8,540	8,540	11,869
8	84	810	983	1,793	854	2.4	4,303.2	4,303	10	8,540	8,540	12,843
9	85	890	1,018	1,909	854	2.6	4,963.4	4,963	10	8,540	8,540	13,503
10	86	1,005	1,053	2,058	854	2.8	5,762	5,762	10	8,540	8,540	14,302
11	87											
12	88											
13	89											
14	90											
15	91											
16	92											
17	93											
18	94											
19	95											
20	96											
21	97											
22	98											
23	99											
24	2000											
25	1											
26	2											
27	3											
28	4											
29	5											
30	6	24,128	26,270	50,398	22,204	-	13,752.9	137,507	-	222,040	222,040	359,547

Table 17 Annual Consumption Table (Tourism-1) Road and Street System

No	Year	Parking Area					Concession on Baht-bus												
		Basic figure lot	% in planning	Unit demand	Quantity in planning *3	Efficiency in %	Chargable consumption lot *4	Basic figure unit	% in planning	Unit demand	Quantity in planning	Efficiency in %	Chargable consumption unit	Basic figure	% in planning	Unit demand	Quantity in planning	Efficiency in %	Chargable consumption
4	1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	1981	700	-	-	-	50	350	295	-	-	-	68	200	-	-	-	-	-	-
6	1982	700	-	-	-	60	400	295	-	-	-	68	200	-	-	-	-	-	-
7	1983	700	-	-	-	65	450	295	-	-	-	75	220	-	-	-	-	-	-
8	1 84	700	-	-	-	70	500	295	-	-	-	79	230	-	-	-	-	-	-
9	1985	700	-	-	-	85	600	295	-	-	-	81	240	-	-	-	-	-	-
10	1986	700	-	-	-	100	700	295	-	-	-	85	250	-	-	-	-	-	-
	Sub total *1	4,200	-	-	-	71	3,000	1,770	-	-	-	75	1,340	-	-	-	-	-	-
	11 ~ 30 *2 1987~2006	14,000	-	-	-	100	14,000	5,900	-	-	-	85	5,000	-	-	-	-	-	-
	Total	18,200	-	-	-	93	17,000	7,670	-	-	-	83	6,340	-	-	-	-	-	-

NOTES: *1. Sub total shows total consumption upto 1986 (phase-1).

*2. *2 shows total consumption from 1987 to 2006 (phase-2).

*3. Quantity in planning = Basic Figure x % in planning x Unit demand

*4. Chargable consumption = Quantity in planning x Efficiency

Table 1.8 Annual Consumption Table, Tourism (2) Sewerage System

No	Year	Hotel						Restaurants *5						Ko Lan Island					
		Basic Figure Room	% in planning	Daily unit demand m ³ /room	Quantity in planning m ³ /year *3	Efficiency in %	Chargable consumption m ³ /year *4	Basic Figure visitor	% in planning	Unit demand m ³ /visitor	Quantity in planning m ³ /year	Efficiency in %	Chargable consumption m ³ /year	Basic Figure capita	% in planning	Unit demand m ³ /capita	Quantity in planning m ³ /year	Efficiency in %	Chargable consumption m ³ /year
4	1980	280	95	0.85	83 × 10 ³	90	74 × 10 ³	2,090	100	0.02	15 × 10 ³	90	14 × 10 ³	2,080	100	0.137	104 × 10 ³	75	78 × 10 ³
5	1981	1,780			525		2,180				16		14	2,168		0.139	110		82
6	1982	1,950			575		4,530				33		30	2,256		0.141	116		87
7	1983	2,050			604		4,710				34		31	2,344		0.142	121		91
8	1984	2,050			604		4,890				36		32	2,432		0.143	127		95
9	1985	2,480			731		5,060				37		33	2,520		0.144	132		99
10	1986	10,590			3,122		23,460				171		154	13,800		-	710		532
Sub total *1		49,600	-	-	14,620		101,200	-	-	-	740		660	50,400	-	-	2,640		1,980
1987~2006 *2		60,190	-	-	17,742		124,660	-	-	-	911		814	64,200	-	-	3,350		2,512
Total																			

Note: *1. Sub total shows total consumption upto 1986 (phase-1).

*2. *2 shows total consumption from 1987 to 2006 (phase-2). where *2 = 20 x Figure at 1986.

*3. Quantity in planning = Basic Figure x % in planning x Unit demand.

*4. Chargable consumption = Quantity in planning x Efficiency.

*5. This figure is not included demand by restaurants in Ko Lan Island.

Table 19 Annual Consumption Table, Tourism (3) Solid Waste Disposal System

No	Year	Hotel						Restaurant						Ko Lan Island					
		Basic figure	% in planning	Unit demand	Quantity in planning ton/year *3	Efficiency in %	Chargable consumption ton/year *4	Basic figure	% in planning	Unit demand	Quantity in planning ton/year	Efficiency in %	Chargable consumption ton/year	Basic figure	% in planning	Unit demand	Quantity in planning ton/year	Efficiency in %	Chargable consumption ton/year
4	1980				3,540	95	3,360				510	90	460				-	-	-
5	1981				4,270		4,060				580		520				648	80	520
6	1982				5,000		4,750				690		620				693	78	540
7	1983				5,660		5,380				770		690				772	70	600
8	1984				6,350		6,030				840		760				818	78	640
9	1985				7,120		6,760				950		860				859	78	670
10	1986				7,770		7,380				1,020		920				973	78	760
	Sub total *1				39,710		37,720				5,360		4,830				4,763	78	3,730
	11 ~ 30 *2 1987~2006				155,400		147,600				20,400		18,400				19,460	78	15,200
	Total				195,110		185,320				25,760		23,230				24,223	78	18,930

NOTES: *1. Sub total shows total consumption upto 1986 (phase-1).

*2. *2 shows total consumption from 1987 to 2006 (phase-2). where *2 = 20 x Figure at 1986.

*3. Quantity in planning = Basic Figure x % in planning x Unit demand

*4. Chargable consumption = Quantity in planning x Efficiency

Table 20 Annual Consumption Table, Tourism (4) Water Supply System

No	Year	Hotel						Restaurant						Ko Lan Island						
		Basic figure room	% in planning	Daily Unit demand m ³ /room	Quantity in planning m ³ /year *3	Efficiency in %	Chargable consumption m ³ /year *4	Basic figure visitor	% in planning	Unit demand m ³ /visitor	Quantity in planning m ³ /year	Efficiency in %	Chargable consumption m ³ /year	Basic figure Capita	% in planning	Daily Unit demand m ³ /capita	Quantity in planning m ³ /year	Efficiency in %	Chargable consumption m ³ /year	
4	1980	580	95	1.40	282	90	253	2,090	100	0.02	15	90	14	2,080	100	0.137	104	75	78	
5	1981	2,080			1,010		909	2,180			16		14	2,168		0.139	110		82	
6	1982	2,250			1,092		983	4,530			33		30	2,256		0.141	116		87	
7	1983	2,350			1,141		1,027	4,710			34		31	2,344		0.142	121		91	
8	1984	2,350			1,141		1,027	4,890			36		32	2,432		0.143	127		95	
9	1985	2,780			1,350		1,215	5,060			37		33	2,520		0.144	132		99	
10	1986	12,390			6,016		5,414	23,460			171		154	13,800		-	710		532	
Sub total *1																				
11 ~ 30 *2 1987~2006		55,600	-	-	27,000		24,300	101,200	-	-	740		660	50,400	-	-	2,640		1,980	
Total		67,990	-	-	33,016		29,714	124,660	-	-	911		814	64,200	-	-	3,350		2,512	

- NOTES: *1. Sub total shows total consumption upto 1986 (phase-1).
 *2. *2 shows total consumption from 1987 to 2006 (phase-2).
 where *2 = 20 x Figure at 1986.
 *3. Quantity in planning = Basic Figure x % in planning x Unit demand
 *4. Chargable consumption = Quantity in planning x Efficiency

Table 21. Annual Consumption Table, Residential Area (1) Sewerage System

No.	Year	Pattaya						Na Klua						Industries					
		Basic Figure Capita	% in planning	Daily unit demand m ³ /capita	Quantity in planning m ³ /year *3	Efficiency in %	Chargable consumption m ³ /year *4	Basic Figure Capita	% in planning	Daily unit demand m ³ /capita	Quantity in planning a year	Efficiency in %	Chargable consumption m ³ /year	Basic Figure m ³ /day	% in planning	Unit demand m ³ /day	Quantity in planning m ³ /year	Efficiency in %	Chargable consumption m ³ /year
4	1980				x10 ³		x10 ³										x10 ³		x10 ³
5	1981	6,810	100	0.137	341	75	255	15,200	100	0.137	760	75	570	5,000	52	2,600	949	90	854
6	1982	10,830		0.139	549		412	18,860		0.139	957		718	5,000		2,600	949		854
7	1983	16,980		0.141	874		655	22,480		0.141	1,157		868	5,000		2,600	949		854
8	1984	20,840		0.142	1,080		810	25,300		0.142	1,311		983	5,000		2,600	949		854
9	1985	22,760		0.143	1,188		891	26,000		0.143	1,357		1,018	5,000		2,600	949		854
10	1986	22,500		0.144	1,340		1,005	26,700		0.144	1,403		1,053	5,000		2,600	949		854
	Sub total *1	100,720		-	5,372		4,028	134,540		-	6,945		5,210	30,000		-	5,694		5,124
	11 ~ 30 1987~2006 *2	450,000		-	26,800		20,100	534,000		-	28,060		21,060	100,000		-	18,980		17,080
	Total	550,720		-	32,172		24,128	668,540		-	35,005		26,270	130,000		-	24,674		22,204

- NOTES: *1. Sub total shows total consumption upto 1986 (phase-1).
*2. *2 shows total consumption from 1987 to 2006 (phase-2). where *2 = 20 x Figure at 1986.
*3. Quantity in planning = Basic Figure x % in planning x Unit demand
*4. Chargable consumption = Quantity in planning x Efficiency
*5. Excluding demand by First grade tapioca factories.

Table 22. Annual Consumption Table, Residents Area: Solid Waste Disposal System

No	Year	Pattaya						Na Klua											
		Basic Figure Capita	% in planning	Daily unit demand kg/capita	Quantity in planning ton/year *3	Efficiency in %	Chargable consumption ton/year *4	Basic Figure capita	% in planning	Unit demand kg/capita	Quantity in planning ton/year	Efficiency in %	Chargable consumption ton/year	Basic Figure	% in planning	Unit demand	Quantity in planning	Efficiency in %	Chargable consumption
4	1980	21,360	100	0.76	5,930	0.90	5,340	20,780	100	0.76	5,760	0.90	5,180						
5	1981	22,000		0.80	6,420		5,780	21,400		0.80	6,250		5,630						
6	1982	22,950		0.84	7,040		6,340	22,310		0.84	6,830		6,150						
7	1983	23,890		0.88	7,670		6,900	23,230		0.88	7,460		6,710						
8	1984	24,830		0.92	8,340		7,510	24,150		0.92	8,110		7,300						
9	1985	25,780		0.96	9,030		8,130	25,060		0.96	8,780		7,900						
10	1986	26,720		1.00	9,750		8,780	25,980		1.00	9,480		8,530						
	Sub total *1	167,530	-	-	54,180		48,780	162,910	-	-	52,670		47,400						
	11 ~ 30 *2 1987~2006	534,400	-	-	195,000		175,600	519,600	-	-	189,600		170,600						
	Total	701,930	-	-	249,180		224,380	682,510	-	-	242,270		218,000						

NOTES: *1. Sub total shows total consumption upto 1986 (phase-1).

*2. *2 shows total consumption from 1987 to 2006 (phase-2). where *2 = 20 x Figure at 1986.

*3. Quantity in planning = Basic Figure x % in planning x Unit demand

*4. Chargable consumption = Quantity in planning x Efficiency

Table 23. Annual Consumption Table, (Residential -3) Water Supply System

No	Year	Pattaya						Na Klua						Industry					
		Basic figure	% in planning	Daily Unit demand	Quantity in planning *3	Efficiency in %	Chargeable consumption *4	Basic figure	% in planning	Daily Unit demand	Quantity in planning	Efficiency in %	Chargeable consumption	Basic figure	% in planning	Unit demand	Quantity in planning	Efficiency in %	Chargeable consumption
4	1980				$\times 10^3$							$\times 10^1$					$\times 10^3$		$\times 10^3$
5	1981	6,810	100	0.137	341	75	255	15,200	100	0.137	760	75	570	5,000	100	5,000	1,825	47	1,643
6	1982	10,830		0.139	549		412	18,860		0.139	957		718	5,000		5,000	1,825		1,643
7	1983	16,980		0.141	874		655	22,480		0.141	1,157		868	5,000		5,000	1,825		1,643
8	1984	20,840		0.142	1,080		810	25,300		0.142	1,311		983	5,000		5,000	1,825		1,643
9	1985	22,760		0.143	1,188		891	26,000		0.143	1,357		1,018	5,000		5,000	1,825		1,643
10	1986	25,500		0.144	1,340		1,005	26,700		0.144	1,403		1,053	5,000		5,000	1,825		1,643
	Sub total *1	103,720	-	-	5,372		4,028	134,540	-	-	6,945		5,210	30,000	-	-	10,950		9,858
	11 ~ 30 *2	510,000	-	-	26,800		20,100	534,000	-	-	28,060		21,060	100,000	-	-	36,500		32,860
	1987~2006	613,720	-	-	32,172		24,128	668,540	-	-	35,005		26,270	130,000	-	-	47,450		42,718

NOTES: *1. Sub total shows total consumption upto 1986 (phase-1).

*2. *2 shows total consumption from 1987 to 2006 (phase-2). where *2 = 20 x Figure at 1986.

*3. Quantity in planning = Basic Figure x % in planning x Unit demand

*4. Chargeable consumption = Quantity in planning x Efficiency

*5. Efficiency = $0.52 \times 0.90 = 0.47$, see annual consumption table of Water Supply on Industries.

Table 2.1 Profit and Loss Statement for Infrastructure:

Unit: million Baht

No.	Year	Revenue		Total (A)	M.&O. Cost	Expenditure		Total (B)	Gross Operating Profit (A) - (B)
		Service Charge	Annual Charge			Administration Cost			
1	1977	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-
3	1979	-	-	-	-	-	-	-	-3.0
4	1980	2.2	1.4	3.6	1.7	3.0	3.0	3.0	-1.9
5	1981	24.2	2.4	26.6	8.6	4.9	4.9	13.5	13.1
6	1982	36.1	9.8	45.9	9.6	5.3	5.3	14.9	31.0
7	1983	38.5	18.1	56.6	10.2			15.5	41.1
8	1984	41.4	28.1	69.5	10.4			15.7	53.8
9	1985	43.7	35.1	78.8	11.0			16.3	62.5
10	1986	48.6	51.3	99.9	11.8	5.3	5.3	17.1	82.8
11	1987				13.1	3.0	3.0	16.1	83.8
12	1988				13.3			16.3	83.6
13	1989				13.4			16.4	83.5
14	1990				13.5			16.5	83.4
15	1991				13.6			16.6	83.3
16	1992				13.7			16.7	83.2
17	1993								
18	1994								
19	1995								
20	1996				13.7			16.7	83.2
21	1997				15.1			18.1	81.8
22	1998								
23	1999								
24	2000								
25	2001								
26	2002								
27	2003								
28	2004								
29	2005								
30	2006								
	Total	1,206.7	1,172.2	2,378.9	349.7	98.2	447.9	1,931.0	

Table 2.2 Profit and Loss Statement for Infrastructure:
(excluding Water Supply System)

Unit: million Baht

No.	Year	Revenue		M.&O. Cost	Expenditure		Gross Operation Profit (A) - (B)
		Service Charge	Annual Charge		Administration Cost	Total (B)	
1	1977	-	-	-	-	-	-
2	1978	-	-	-	-	-	-
3	1979	-	-	-	2.2	2.2	-2.2
4	1980	2.2	1.4	1.7	2.7	4.4	-0.8
5	1981	11.2	2.1	4.1	3.4	7.5	5.8
6	1982	15.9	7.9	5.0	3.7	8.7	15.1
7	1983	16.3	14.0	5.5	↓	9.2	21.1
8	1984	17.7	23.8	5.7	↓	9.4	32.1
9	1985	19.4	30.9	6.2	↓	9.9	40.4
10	1986	21.5	46.3	7.0	3.7	10.7	57.1
11	1987			8.3	2.2	10.5	57.3
12	1988			8.5	↓	10.7	57.1
13	1989			8.6	↓	10.8	57.0
14	1990			8.7	↓	10.9	56.9
15	1991			8.8	↓	11.0	56.8
16	1992			8.9	↓	11.1	56.7
17	1993			↓	↓	↓	↓
18	1994			↓	↓	↓	↓
19	1995			8.9	↓	11.1	56.7
20	1996			↓	↓	↓	↓
21	1997			10.3	↓	12.5	55.3
22	1998			↓	↓	↓	↓
23	1999			↓	↓	↓	↓
24	2000			↓	↓	↓	↓
25	2001			↓	↓	↓	↓
26	2002			↓	↓	↓	↓
27	2003			↓	↓	↓	↓
28	2004			↓	↓	↓	↓
29	2005			↓	↓	↓	↓
30	2006	21.5	46.3	10.3	2.2	12.5	55.3
Total		534.2	1,052.4	225.6	70.8	296.4	1,290.2

Table 2.3 Profit and Loss Statement for Infrastructure: Tourism Area

Unit: million Baht

No.	Year	Revenue		Total (A)	Expenditure			Gross Operating Profit (A) - (B)
		Service Charge	Annual Charge		M.&O. Cost	Administration Cost	Total (B)	
1	1977	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-
3	1979	-	-	-	-	1.5	-	-1.5
4	1980	1.1	1.4	2.5	0.5	1.9	2.4	0.1
5	1981	9.5	2.4	11.9	3.5	2.4	5.9	6.0
6	1982	20.4	9.8	30.2	4.1	2.6	6.7	23.5
7	1983	21.2	18.0	39.2	4.4	-	7.0	32.2
8	1984	22.7	23.1	45.8	4.6	-	7.2	38.6
9	1985	24.2	27.1	51.3	4.8	-	7.4	43.9
10	1986	27.9	40.0	67.9	5.2	2.6	7.8	60.1
11	1987				5.7	1.5	7.2	60.7
12	1988							
13	1989							
14	1990							
15	1991				5.7		7.2	60.7
16	1992				5.8		7.3	60.6
17	1993							
18	1994							
19	1995							
20	1996				5.8		7.3	60.6
21	1997				6.4		7.9	60.0
22	1998							
23	1999							
24	2000							
25	2001							
26	2002							
27	2003							
28	2004							
29	2005							
30	2006							
	Total	685.0	921.8	1,606.8	148.6	48.8	197.4	1,409.4

Table 2.4 Profit and Loss Statement for Infrastructure: Tourism Area
(excluding Water Supply System)

Unit: million Baht

No.	Year	Revenue		Total (A)	Expenditure		Total (B)	Gross Operation Profit (A) - (B)
		Service Charge	Annual Charge		M.&O. Cost	Administration Cost		
1	1977	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-
3	1979	-	-	-	1.3	1.3	1.3	-1.3
4	1980	1.1	1.4	2.5	0.5	1.6	2.1	0.4
5	1981	6.7	2.1	8.8	1.8	2.0	3.8	5.0
6	1982	11.0	8.0	19.0	2.4	2.2	4.6	14.4
7	1983	10.9	14.0	24.9	2.7	-	4.9	20.0
8	1984	11.9	18.8	30.7	2.9	-	5.1	25.6
9	1985	13.3	22.9	36.2	3.1	-	5.3	30.9
10	1986	15.1	35.0	50.1	3.5	2.2	5.7	44.4
11	1987	-	-	-	4.0	1.3	5.3	44.8
12	1988	-	-	-	-	-	-	-
13	1989	-	-	-	-	-	-	-
14	1990	-	-	-	4.0	-	5.3	44.8
15	1991	-	-	-	4.1	-	5.4	44.7
16	1992	-	-	-	-	-	-	-
17	1993	-	-	-	-	-	-	-
18	1994	-	-	-	-	-	-	-
19	1995	-	-	-	4.1	-	5.4	44.7
20	1996	-	-	-	4.7	-	6.0	44.1
21	1997	-	-	-	-	-	-	-
22	1998	-	-	-	-	-	-	-
23	1999	-	-	-	-	-	-	-
24	2000	-	-	-	-	-	-	-
25	2001	-	-	-	-	-	-	-
26	2002	-	-	-	-	-	-	-
27	2003	-	-	-	-	-	-	-
28	2004	-	-	-	-	-	-	-
29	2005	-	-	-	4.7	1.3	6.0	44.1
30	2006	15.1	35.0	50.1	-	-	-	-
Total		372.0	802.2	1,174.2	104.4	41.9	146.3	1,027.9

Table 2.5 Profit and Loss Statement for Infrastructure: Residential Area

No.	Year	Revenue			Expenditure			Gross Operating Profit (A) - (B)
		Service Charge	Annual Charge	Total (A)	M.&O. Cost	Administration Cost	Total (B)	
1	1977	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-
3	1979	-	-	-	-	1.5	1.5	-1.5
4	1980	1.1	-	1.1	-	1.9	3.1	-2.0
5	1981	14.7	-	14.7	5.1	2.5	7.6	7.1
6	1982	15.7	-	15.7	5.5	2.7	8.2	7.5
7	1983	17.3	-	17.3	5.8	-	8.5	8.8
8	1984	18.7	5.0	23.7	5.8	-	8.5	15.2
9	1985	19.6	8.0	27.6	6.1	↓	8.8	18.8
10	1986	20.7	11.2	31.9	6.5	2.7	9.2	22.7
11	1987				7.4	1.5	8.9	23.0
12	1988				7.5	-	9.0	22.9
13	1989				7.6	-	9.1	22.8
14	1990				7.7	-	9.2	22.7
15	1991				7.8	-	9.3	22.6
16	1992				↓	-	↓	↓
17	1993				↓	-	↓	↓
18	1994				7.8	-	9.3	22.6
19	1995				↓	-	↓	↓
20	1996				7.8	-	9.3	22.6
21	1997				8.6	-	10.1	21.8
22	1998				↓	-	↓	↓
23	1999				↓	-	↓	↓
24	2000				↓	-	↓	↓
25	2001				↓	-	↓	↓
26	2002				↓	-	↓	↓
27	2003				↓	-	↓	↓
28	2004				↓	-	↓	↓
29	2005				↓	-	↓	↓
30	2006	20.7	11.2	31.9	8.6	1.5	10.1	21.8
Total		521.8	248.2	770.0	199.0	49.4	248.4	521.6

Table 2.6 Profit and Loss Statement of Residential Area
excluding Water Supply System

Unit: million Baht

No.	Year	Revenue		M.&O. Cost	Expenditure		Gross Operating Profit (A) -- (B)
		Service Charge	Annual Charge		Administration Cost	Total (B)	
1	1977	-	-	-	-	-	-
2	1978	-	-	-	-	-	-
3	1979	-	-	-	0.9	-	-0.9
4	1980	1.1	-	1.2	1.1	0.9	-1.2
5	1981	4.5	-	2.3	1.4	2.3	0.8
6	1982	4.9	-	2.6	1.5	4.1	0.8
7	1983	5.4	-	2.8	-	4.3	1.1
8	1984	5.8	5.0	2.8	-	4.3	6.5
9	1985	6.1	8.0	3.0	-	4.5	9.6
10	1986	6.4	11.2	3.4	1.5	4.9	12.7
11	1987	-	-	4.3	0.9	5.2	12.4
12	1988	-	-	4.4	-	5.3	12.3
13	1989	-	-	4.5	-	5.4	12.2
14	1990	-	-	4.6	-	5.5	12.1
15	1991	-	-	4.7	-	5.6	12.0
16	1992	-	-	-	-	-	-
17	1993	-	-	-	-	-	-
18	1994	-	-	-	-	-	-
19	1995	-	-	4.7	-	5.6	12.0
20	1996	-	-	5.5	-	6.4	11.2
21	1997	-	-	-	-	-	-
22	1998	-	-	-	-	-	-
23	1999	-	-	-	-	-	-
24	2000	-	-	-	-	-	-
25	2001	-	-	-	-	-	-
26	2002	-	-	-	-	-	-
27	2003	-	-	-	-	-	-
28	2004	-	-	-	-	-	-
29	2005	6.4	11.2	5.5	0.9	6.4	11.2
30	2006	-	-	-	-	-	-
Total		162.2	248.2	119.1	28.9	148.0	262.4

**ANNEX 10. EXPENDITURE BY HOUSEHOLDS AND HOTEL
INDUSTRY FOR UTILITY CHARGES**

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Table 1. Annual Expenditure : a hotel room

Annual and Service Charge (for a Room Occupied)

Unit: Baht

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Total	Expenditure a day	
1	1977									
2	1978									
3	1979									(US\$)
4	1980				1,534			1,534	4.2	(0.2)
5	1981		5,621		1,534		5,621	12,776	35.0	(1.7)
6	1982		6,132		2,045	1,200	6,132	15,509	42.5	(2.1)
7	1983		7,154		3,067		7,154	18,575	50.9	(2.5)
8	1984	1,200		600				20,375	55.8	(2.8)
9	1985	2,400		900				21,875	59.9	(3.0)
10	1986	4,800		1,800				25,175	69.0	(3.4)
11	1987									
12	1988									
13	1989									
14	1990									
15	1991									
16	1992									
17	1993									
18	1994									
19	1995									
20	1996									
21	1997									
22	1998									
23	1999									
24	2000									
25	2001									
26	2002									
27	2003									
28	2004									
29	2005									
30	2006									
Total		104,400	183,449	41,400	78,721	30,000	183,449	619,319	-	(-)

Table 2. Annual Expenditure : a Hotel Room

Service Charge (for a Room Occupied)

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Total	Unit: Baht	
									Expenditure a day	
1	1977									
2	1978									(US\$)
3	1979									
4	1980				767			767	2.1	(0.1)
5	1981		5,110				5,110	10,987	30.1	(1.5)
6	1982					0				
7	1983									
8	1984	0		0						
9	1985									
10	1986									
11	1987									
12	1988									
13	1989									
14	1990									
15	1991									
16	1992									
17	1993									
18	1994									
19	1995									
20	1996									
21	1997									
22	1998									
23	1999									
24	2000									
25	2001									
26	2002									
27	2003									
28	2004									
29	2005									
30	2006									
Total		0	132,860	0	20,709	0	132,860	286,429	-	(-)

Table 3. Annual Expenditure: a Hotel Room

Annual Charge

Unit: Baht

No.	Year	Road	Sewerage	Storm Water	Solid Waste	Marine & Port	Water Supply	Total	Expenditure a day	
1	1977									
2	1978									(US\$)
3	1979									
4	1980				767			767	2.1	(0.1)
5	1981		511		767		511	1,789	4.9	(0.2)
6	1982		1,022		1,278	1,200	1,022	4,522	12.4	(0.6)
7	1983		2,044		2,300		2,044	7,588	20.8	(1.0)
8	1984	1,200		600				9,388	25.7	(1.3)
9	1985	2,400		900				10,888	29.8	(1.5)
10	1986	4,800		1,800				14,188	38.9	(1.9)
11	1987									
12	1988									
13	1989									
14	1990									
15	1991									
16	1992									
17	1993									
18	1994									
19	1995									
20	1996									
21	1997									
22	1998									
23	1999									
24	2000									
25	2001									
26	2002									
27	2003									
28	2004									
29	2005									
30	2006									
Total		104,400	50,589	41,400	58,012	30,000	50,589	332,890	-	(-)

Table 4. Annual Average Expenditure : a Household
a Household: 5 persons

Unit: Baht

No.	Year	Road A.C	Sew- erage S.C	Storm Water A.C	Solid Waste S.C	Marine & Port	Water Supply S.C	Total			
								Annual		Monthly	
								Baht	US\$	Baht	US\$
1	1977	-	-	-	-	-	-	-	-	-	-
2	1978	-	-	-	-	-	-	-	-	-	-
3	1979	-	-	-	-	-	-	-	-	-	-
4	1980	-	-	-	139	-	-	139	6.7	11.6	0.6
5	1981	-	250	-	146	-	500	896	44.8	74.7	3.7
6	1982	-	254	-	154	-	507	915	45.8	76.3	3.8
7	1983	-	257	-	161	-	566	984	49.2	82.0	4.1
8	1984	480	259	60	168	-	623	1,590	79.5	132.5	6.6
9	1985	720	261	96	176	-	679	1,932	96.6	161.0	8.1
10	1986	960	263	120	183	-	736	2,262	113.1	188.5	9.4
11	1987										
12	1988										
13	1989										
14	1990										
15	1991										
16	1992										
17	1993										
18	1994										
19	1995										
20	1996										
21	1997										
22	1998										
23	1999										
24	2000										
25	2001										
26	2002										
27	2003										
28	2004										
29	2005										
30	2006										
Total		21,360	6,804	2,676	4,787	0	18,331	53,958	2,697.7	4,496.6	224.3

Table 5. Monthly Expenditure for Food, Goods and Services by a Household in Thailand

from 1971 to 1973

unit: Baht

No.	Item	In Municipal Area					In Non-Municipal Area				
		1 Northeast Region 1971	2 Bankok Thon Buri 1972	3 Northern Region 1972	4 Central Region 1973	5 Southern Region 1973	6 Northeast Region 1971	Bangkok Region	7 Northern Region 1972	8 Central Region 1973	9 Southern Region 1973
	Total	2,248.26	2,580.34	1,638.04	2,252.56	1,921.20	632.66	-	972.86	1,395.66	1,065.12
1	All food and Beverages	862.51	1,144.56	722.37	981.76	809.43	259.00	-	398.08	657.39	466.09
2	Food prepared at home	689.42	717.59	583.94	734.16	647.83	236.37	-	353.96	528.55	385.51
3	Rice	130.28	99.35	106.66	177.92	(157.17)	136.01	-	145.76	(219.12)	189.16
4	Food away from home	173.28	426.97	138.43	247.60	161.60	22.63	-	44.12	128.84	80.58
5	Housing, furnishing and household operations	395.62	381.04	257.45	323.99	346.08	117.35	-	129.03	159.12	143.71
6	Clothing and materials	177.75	198.56	143.72	184.90	346.08	72.64	-	123.25	133.31	151.77
7	Transportations expenses	214.92	209.11	118.28	154.08	152.80	33.34	-	68.95	82.90	73.20
8	Recreation expenses	67.62	71.49	58.45	68.64	49.25	9.74	-	17.16	22.57	17.18
9	Education expenses	73.28	117.11	50.73	91.15	68.47	9.27	-	9.86	29.98	19.52
10	Redading expenses	15.75	18.48	14.78	13.29	13.71	0.63	-	1.37	2.14	0.99
11	Medical and personal care	131.66	140.25	97.06	131.39	113.14	47.89	-	76.73	89.03	80.08
12	Tobacco and alcoholic expenses	110.89	133.12	76.09	109.05	78.18	34.56	-	40.95	67.21	44.43
13	Taxes, gifts and contributions and miscellaneous expenses	198.26	166.62	99.11	194.31	156.89	48.24	-	107.48	152.01	68.15

資料 1.1. 住民及び観光産業の公共料金支払い能力

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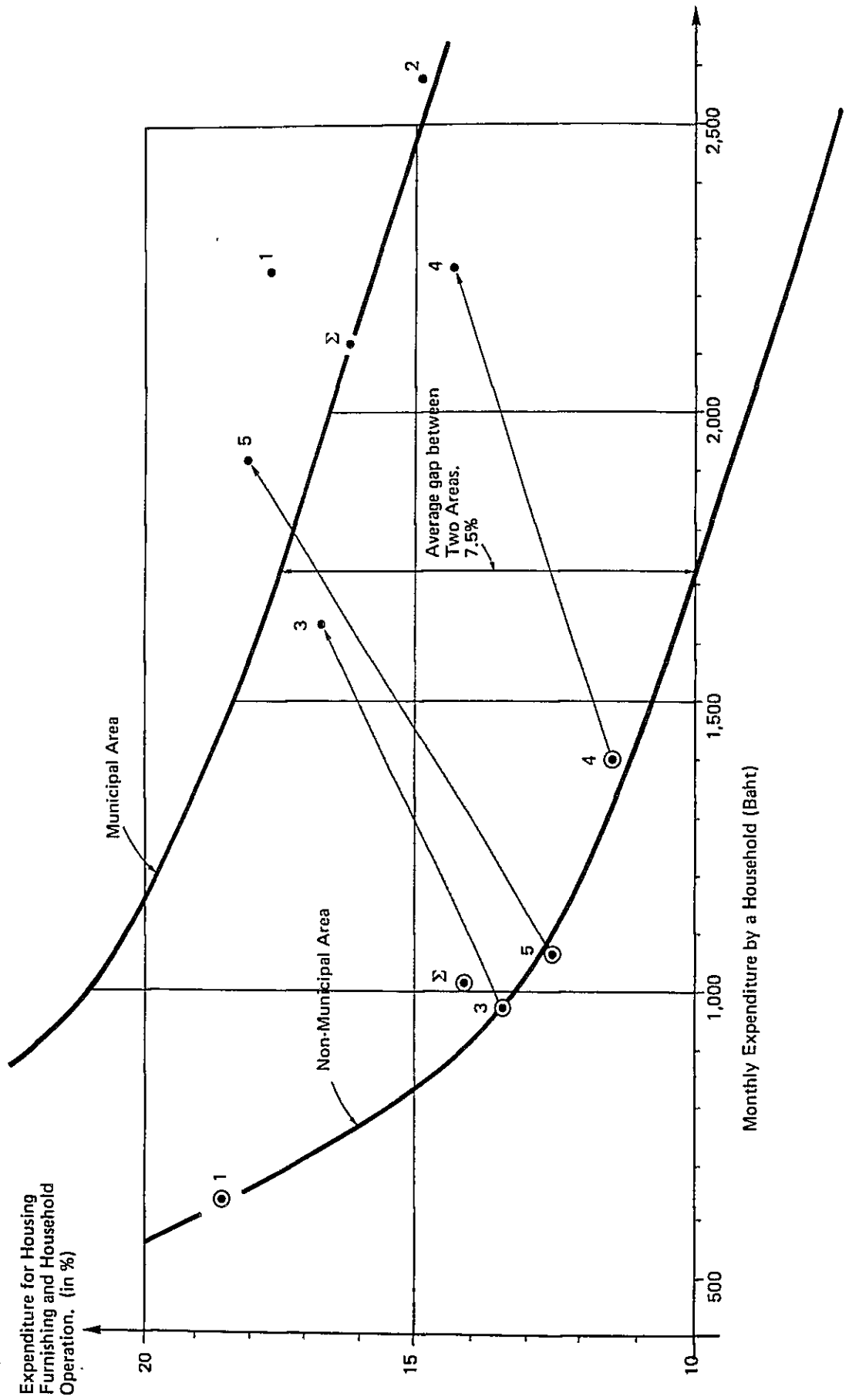
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表一 1. 住民の一家族月当り支出額

単位 パーツ

No.	Item	In Municipal Area					In Non-Municipal Area			
		1 Northeast Region 1971	2 Bangkok Thon Buri 1972	3 Northern Region 1972	4 Central Region 1973	5 Southern Region 1973	6 Northeast Region 1971	Bangkok Region	7 Northern Region 1972	8 Central Region 1973
	Total	2,248.26	2,580.34	1,638.04	2,252.56	1,921.20	632.66	972.86	1,395.66	1,065.12
1	All food and Beverages (2+4)	862.51	1,144.56	722.37	981.76	809.43	259.00	398.08	657.39	466.09
2	Food prepared at home	689.42	717.59	583.94	734.16	647.83	236.37	353.96	528.55	385.51
3	Rice (in item 2.)	130.28	99.35	106.66	177.92	(157.17)	136.01	145.76	(219.12)	189.16
4	Food away from home	173.28	426.97	138.43	247.60	161.60	22.63	44.12	128.84	80.58
5	Housing, furnishing and household operations	395.62	381.04	257.45	323.99	346.08	117.35	129.03	159.12	143.71
6	Clothing and materials	177.75	198.56	143.72	184.90	346.08	72.64	123.25	133.31	151.77
7	Transportations expenses	214.92	209.11	118.28	154.08	152.80	33.34	68.95	82.90	73.20
8	Recreation expenses	67.62	71.49	58.45	68.64	49.25	9.74	17.16	22.57	17.18
9	Education expenses	73.28	117.11	50.73	91.15	68.47	9.27	9.86	29.98	19.52
10	Reading expenses	15.75	18.48	14.78	13.29	13.71	0.63	1.37	2.14	0.99
11	Medical and personal care	131.66	140.25	97.06	131.39	113.14	47.89	76.73	89.03	80.08
12	Tobacco and alcoholic expenses	110.89	133.12	76.09	109.05	78.18	34.56	40.95	67.21	44.43
13	Taxes, gifts and contributions and miscellaneous expenses	198.26	166.62	99.11	194.31	156.89	48.24	107.48	152.01	68.15

図一 1. 市部と郡部間の住宅、家具、光熱費等費用の支出比較 (1971 ~ 1973)



1.1.2 観光産業の公共料金支払い能力

観光産業の公共料金支払い能力に関する判断は、料金負担が観光産業の粗営業利益におよぼす影響を評価する手法で行った。まず初めに、前節で述べたように住民の公共料金負担能力を考慮に入れてプロジェクトの財務的健全性を確保するよう計かり、次に提案された公共料金が観光産業により支払われる事が可能かどうか評価するものとした。

資料-9「公共料金収入と損益計算」に示されるように、観光産業に課せられる公共料金の単価は、それぞれの施設に対して使用料金 (Service Charge) と基本料金 (Annual Charge) の2本建てで提案した。

ホテル産業への年間公共料金は資料10に概算したごとく、使用料金は常に客が満室の状態と仮定した時、室当たり11,000パーツ (110,000円) で、基本料金は室当たり14,200パーツ (142,000円) となる。

表-3 ホテル産業の年間室当り経費*3.

R : 室利用率		単位 千パーツ (1万円)		
項 目	基盤整備を行なう時	基盤整備を行なわない時	利益の増分	
売 上 高	2531R	2531R		
運 転 経 費 *2	636+856R	636+856R		
新規公共料金*1.	142+11.0R	-		
経費と料金の計	77.8+966R	636+856R		
粗 営 業 利 益	1565R-77.8	1675R-636		
	R=80%で +47.4	R=32%で -10.0	=57.4	

- 注
- 1 資料10の表-1を参照されたい。
 - 2 現在の公共料金相当額を含む。(原水購入費、私設下水処理施設、運転費等)
 - 3 資料4を参照されたい。

開発が実施された後(つまり公共料金を支払いつつ)、現状程度の営業状態で有るには、当然室の利用率が高まらなければならない。その限界利用率は表-3に示される数値より、

$$156.5R - 77.8 = -10.0$$

$$\text{故に } 0.43 (43\%)$$

となる。

計画第1期(1986年)までに、新規の公共料金は、年間室当たり2万3千パーツとなり、年間室当たり粗営業利益は、4万7千7百パーツとなるものと見込まれる。一方現在は、年間室当たり1万パーツの営業赤字であるような、きわめて営業状態は悪く、この状態はもしプロジェクトが施行されなければ、いぜんとして継続するものと推定される。故に、プロジェクトによって得られる利益の増加分は、それらの差額として年間室当たり5万7千4百パーツと推定される。つまりホテル産業は、同産業が公共料金として支払の額の約2.5倍の利益増を得る事になる。

室の利用率が損益分岐点上の利用率より低い時には、同産業は公共料金支払いが困難である。この限界的室利用率は約50%であって、図-2に示すごとくである。年度の室当り公共料金の合計額は次に示すように毎年増加し、1986年以降は一定額となる。

表4 ホテル産業の公共料金の経年変化(年・室当り)

年	室占有率 (R)	基本料金	使用料金	計 (A)	売上高 (B) × 3	料金の売上 高に占める 割合 (%) C=A/B	単位:千パーツ/室・年	
							既往の料金 (D)(%) ※1	新規の公共 料金による 増加額 ※2 A-D
1977	31.2%	-	-	-	79.0	-	5.2	-
1978	34.0	-	-	-	86.1	-	5.4	-
1979	40.0	-	-	-	101.2	-	5.6	-
1980	45.4	0.7	0.3	1.0	114.9	0.9%	5.8	-
1981	50.3	1.8	5.5	7.3	127.3	5.7	6.0	1.3
1982	55.3	4.5	6.1	10.6	140.0	7.6	6.2	4.4
1983	58.3	7.6	6.4	14.0	147.6	9.5	6.3	7.7
1984	65.7	9.4	7.2	16.6	166.3	10.0	6.6	10.0
1985	72.6	10.9	8.0	18.9	183.8	10.3	6.9	12.0
1986	80.0	14.2	8.8	23.0	202.5	11.4	7.2	15.8

ノート1) 既往の料金は売上高の約3%と推定される。

つまり、	-	観光客の平均支出:	460パーツ/人・夜	=	736パーツ/室・夜
	-	既往の料金	上水道		10パーツ/室・夜
			下水道		10パーツ/室・夜
			ごみ処理、他		2パーツ/室・夜
			計		22パーツ/室・夜
					(1.1米ドル/室・夜)

比率: $22 \div 736 = 0.03$

2) 室一日当りの料金の増加分は1.6米ドルとなる。

即ち、新規の料金	2.7米ドル/室・夜
既往の料金	1.1米ドル/室・夜
増加分	1.6米ドル/室・夜

ここに、部屋の占有率は50%と仮定した。

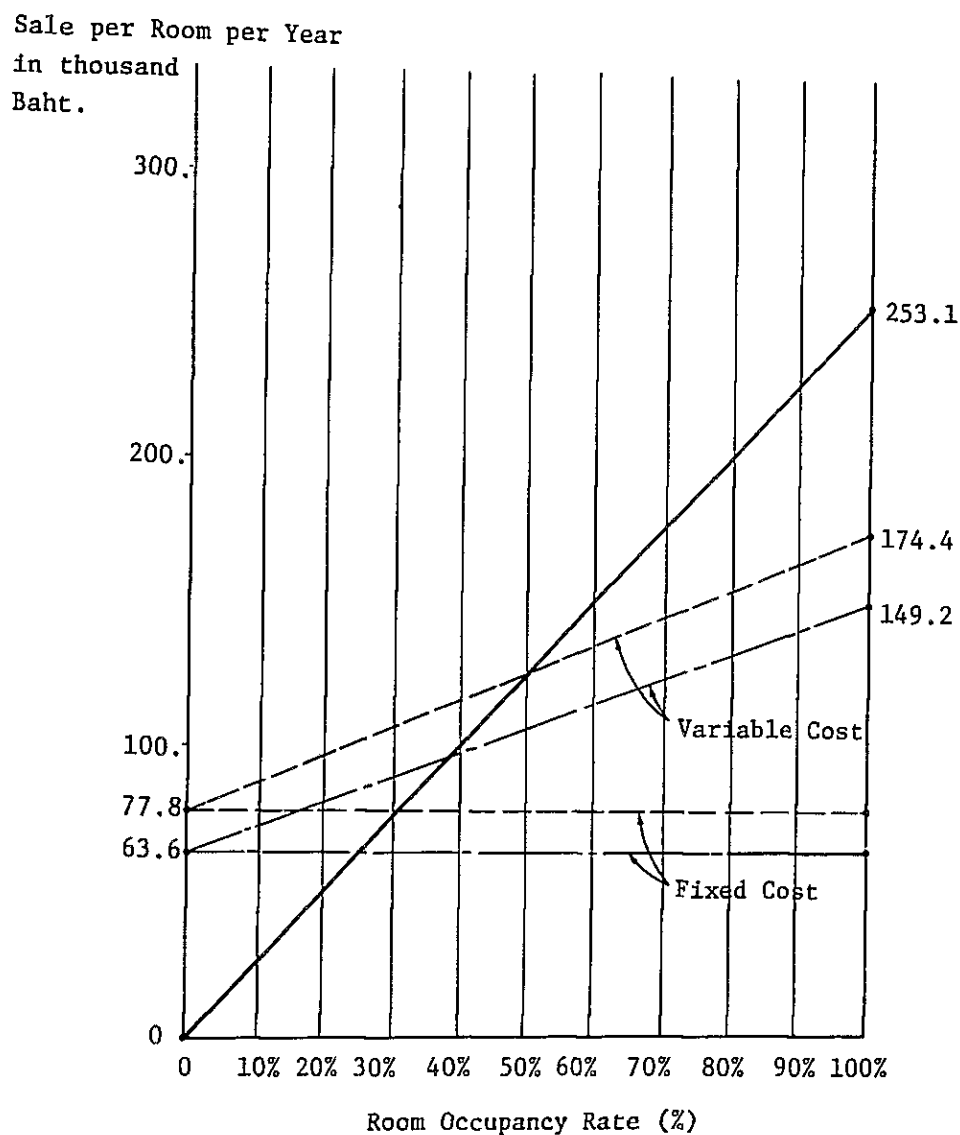
3) 室年当り売上高(資料4の事例研究より)

国際観光客	150.7×0.74 (30年間の全宿泊者数比率)
国内観光客	106.0×0.26 (")
	= 139.2百万パーツ/550室・夜
	= 253.1千パーツ/室・年
	= 6930 パーツ/室・夜
	= 433.0 パーツ/客・夜

他の観光関連産業の公共料金は、資料-9に示してある。ホテル産業と同一の料金が関連産業つまり商店、レストランその他に課せられる。

ホテル産業と関連産業の1986年の税引前の純利益率はそれぞれ187%及び34%である。プロジェクトの実施がなされない場合のホテル産業の純利益率はマイナス30%程度に低迷する可能性がある。この詳細は資料12「観光産業の営業状況」に示してある。これらの理由により、観光産業は公共料金を支払いうるものと推定された。

図2. 年間室当り売上高と運転経費



Legends: ————— Sale
 - - - - - With Development
 - · - - - Without Development

資料1 2. 観光産業の損益計算（営業状況）

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ANNEX 12 PROFIT AND LOSS STATEMENT OF TOURISM INDUSTRIES

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Table 1 Expenditure and Receipt with Development

Year	Expenditure and Receipt With Development															
	Visitors (Persons) Phase 1				Visitors (Persons) Phase 2				Expenditure (Baht)				Receipt (million Baht)			
	Foreign Tourists	Domestic Tourists	Total	One-day Visitors	Foreign Tourists	Domestic Tourists	Total	Average Length of Stay (nights)	Foreign Tourists	Domestic Tourists	One-day Visitors	Foreign Tourists	Domestic Tourists	One-day Visitors	Total	
1977	233,020	200,580	433,600	324,400	233,020	200,580	433,600	1.7	890	651	130.0	356.2	169.8	42.2	568.2	
1978	258,412	211,610	470,022	357,800	258,412	211,600	470,022	1.7	890	651		391.0	179.1	46.5	616.6	
1979	286,414	223,090	509,504	391,200	286,414	223,090	509,504	1.8	880	644		453.7	201.1	50.9	705.7	
1980	317,290	235,012	522,302	424,600	317,290	235,012	522,302	1.9	870	637		524.5	224.6	55.2	804.3	
1981	352,000	248,000	600,000	458,000	352,000	248,000	600,000	2.0	860	630		605.4	250.0	59.5	914.9	
1982	377,720	257,680	635,400	491,400	377,720	257,680	635,400	2.2	850	630		706.3	259.7	63.9	1,029.9	
1983	405,170	267,719	672,889	524,800	405,170	267,719	672,889	2.4	840	630		816.8	269.9	68.2	1,154.9	
1984	434,640	277,949	712,589	558,200	434,640	277,949	712,589	2.6	830	623		938.0	294.4	72.6	1,305.0	
1985	466,110	288,522	754,632	591,600	466,110	288,522	754,632	2.8	820	623		1,070.2	305.6	76.9	1,432.7	
1986	500,000	300,000	800,000	625,000	500,000	300,000	800,000	3.0	810	623		1,215.0	317.7	81.3	1,614.0	
1987	516,300	320,500	836,800	668,750	516,300	320,500	836,800	3.2	800	623		1,200.0	299.0	81.3	1,580.3	
1988	533,010	342,283	875,293	707,837	533,010	342,283	875,293	3.4	800	616		1,200.0	295.7		1,577.0	
1989	550,120	365,436	915,556	751,103	550,120	365,436	915,556	3.6	790	616		1,185.0	295.7		1,562.0	
1990	567,630	390,042	957,672	780,000	567,630	390,042	957,672	3.8	780	616		1,170.0	295.7		1,587.0	
1991	588,000	412,000	1,000,000	800,000	588,000	412,000	1,000,000	4.0	780	609		1,170.0	292.3		1,543.6	
1992	601,730	435,270	1,037,000	825,000	601,730	435,270	1,037,000	4.1	770	609		1,155.0	292.3		1,528.6	
1993	615,650	459,719	1,075,369	850,000	615,650	459,719	1,075,369	4.2	770	609		1,155.0	292.3		1,528.6	
1994	629,760	485,398	1,115,158	880,000	629,760	485,398	1,115,158	4.3	770	609		1,155.0	292.3		1,533.9	
1995	644,040	512,379	1,156,419	910,000	644,040	512,379	1,156,419	4.4	770	602		1,155.0	297.6		1,533.9	
1996	660,000	540,000	1,200,000	940,000	660,000	540,000	1,200,000	4.5	760	602		1,140.0	297.6		1,518.9	
1997																
1998																
1999																
2000																
2001																
2002																
2003																
2004																
2005																
2006	660,000	540,000	1,200,000	940,000	660,000	540,000	1,200,000	4.5	760	602	130.0	1,140.0	297.6	81.3	1,518.9	
Total	16,137,016	12,173,189	28,380,205	17,247,000	10,806,506	7,493,044	18,299,550					30,162.1	8,398.4	2,241.2	40,803.7	
Share	57%	43%	100%									74%	21%	5%	100%	

Table 2 Expenditure and Receipt without Development

Year	Expenditure and Receipt Without Development													
	Visitors (Persons)					Average Length of Stay (nights)			Expenditure (Baht)		Receipt (million Baht)			
	Foreign Tourists	Domestic Tourists	Total	One-day Visitors	Foreign Tourists	Domestic Tourists	Foreign Tourists	Domestic Tourists	Foreign Tourists	Domestic Tourists	One-day Visitors	Foreign Tourists	Domestic Tourists	One-day Visitors
1977	210,000	190,000	400,000	324,400	1.7	1.3	890	651.0	130.0	317.7	160.8	42.2	520.7	
1978														
1979														
1980														
1981														
1982														
1983														
1984														
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2000														
2001														
2002														
2003														
2004														
2005														
2006	210,000	190,000	400,000	324,400	1.7	1.3	890	651.0	130.0	317.7	160.8	42.2	520.7	
Total	6,300,000	5,700,000	12,000,000	9,732,000						9,531.0	4,824.0	1,266.0	15,621.0	
Share	53%	47%	100%							61%	31%	8%	100%	

Table 3 Breakdown of Expenditure by Tourism Industries: With Development

Unit: million Baht

No. Year	Allocation in Hotel		Expenditure in Hotel		Expenditure for Other Tourism Industries				Total
	Foreign Tourists	Domestic Tourists	Foreign Tourists	Domestic Tourists	Foreign Tourists	Domestic Tourists	One-day Visitors		
1 1977	57.5%	55.5%	204.8	94.2	151.4	75.6	42.2	269.2	
2 78	57.5	55.5	224.8	99.4	166.2	79.7	46.5	292.4	
3 79	58.0	56.0	263.2	112.6	190.5	88.5	50.9	329.9	
4 80	58.5	56.5	306.8	126.9	217.7	97.7	55.2	370.6	
5 81	59.0	57.0	357.2	142.5	248.2	107.5	59.5	415.2	
6 82	59.5	57.0	420.3	148.0	286.0	111.7	63.9	461.6	
7 83	60.0	57.0	490.1	153.8	326.7	116.1	68.2	511.0	
8 84	60.5	57.5	567.5	169.3	370.5	125.1	72.6	568.2	
9 85	61.0	57.5	562.8	175.7	417.4	129.9	76.9	624.2	
10 86	61.5	57.5	747.2 (4,234.7)	182.7 (1,405.1)	467.8 (2,842.4)	135.0 (1,066.8)	81.3	684.1	
11 87	61.7	57.5	740.4	171.9	459.6	127.1		668.0	
12 88	62.0	58.0	744.0	171.5	456.0	124.2		661.5	
13 89	62.5	58.0	740.6	171.5	444.4	124.2		649.9	
14 90	62.7	58.0	733.6	171.5	436.4	124.2		641.9	
15 91	62.9	58.5	735.9	171.0	434.1	121.3		636.7	
16 92	63.0	58.5	727.7	171.0	427.3	121.3		629.9	
17 93	63.2	58.5	730.0	171.0	425.0	121.3		627.6	
18 94	63.3	58.5	731.1	171.0	423.9	121.3		626.5	
19 95	63.4	59.0	732.3	170.5	422.7	118.5		622.5	
20 96	63.5	59.0	723.9 (7,339.5)	170.5 (1,711.4)	416.1 (4,345.5)	118.5 (1,221.9)		615.9	
30 2006			18,813.2	4,821.5	11,348.9	3,473.7	2,243.2	17,065.8 (40,700.5)	
Total									
Share			79.6%	20.4%	66.5%	20.4%	13.1%	100.0%	
			46.2%	11.9%	27.9%	8.5%	5.5%	(41.9%)	

Table 4 Breakdown of Expenditure by Tourism Industries: Without Development

Unit: million Baht

No.	Year	Hotel Revenue by			Other Tourism Industries Revenue by			
		Foreign Tourists	Domestic Tourists	Total	Foreign Tourists	Domestic Tourists	Day Visitors	Total
1	1977	184.3	89.2	273.5	133.4	71.6	42.2	247.2
2	1978							
3	1979							
4	1980							
5	1981							
6	1982							
7	1983							
8	1984							
9	1985							
10	1986							
11	1987							
12	1988							
13	1989							
14	1990							
15	1991							
16	1992							
17	1993							
18	1994							
19	1995							
20	1996							
21	1997							
22	1998							
23	1999							
24	2000							
25	2001							
26	2002							
27	2003							
28	2004							
29	2005	↓	↓	↓	↓	↓	↓	↓
30	2006	184.3	89.2	273.5	133.4	71.6	42.2	247.2
Total		5,529.0	2,676.0	8,205.0	4,002.0	2,148.0	1,266.0	7,416.0 15,621.0
Share of Revenue for 30 years		67%	33%	100%	54%	29%	17%	100%
		(36%)	(17%)	53%	(25%)	(14%)	(8%)	47%

Table 5 Profit and Loss Statement: Hotel Industry: With Development

No.	Year	of which		(A - B) Sales (C)	(A × 20%) Sales Cost (D)	Payroll & Other Depart- ment Expenses (E) *1	Administra- tion & Management Fees (F) *1	Utility Charge for new Project (G) *2	of which		(D+E+F+G) Cost Sub Total (H)	(C - H) Gross Operating Profit (I)	(C × 10%) Non-Operating Cost Including Depreciation & Interest (J)	(I - J) Net Profit before Tax (K)	(K × 25%) Corporate Income Tax
		Receipts (A)	(A × 7%) Business Tax (B)						(H × 10%) Foreign Portion	(H × 5%) Tax Portion					
1	1977	299.0	20.9	278.1	55.6	149.3	112.9	-	31.8	15.9	317.8	-39.7	27.8	-67.5	0
2	1978	324.2	22.7	301.5	60.3	151.1	113.4	-	32.5	16.2	324.8	-23.3	30.2	-53.5	0
3	1979	375.8	26.3	349.5	69.9	154.1	113.9	-	33.8	16.9	337.9	11.6	35.0	-23.4	0
4	1980	433.7	30.4	403.3	80.7	161.3	116.6	2.0	36.1	18.0	360.6	42.7	40.3	2.4	0.6
5	1981	499.7	35.0	464.7	92.9	171.9	125.0	6.0	39.6	19.8	395.8	68.9	46.5	22.4	5.6
6	1982	568.3	39.8	528.5	105.7	183.0	129.0	22.5	44.0	22.0	440.2	88.3	52.9	35.4	8.9
7	1983	643.9	45.1	598.8	119.8	200.0	140.1	29.8	49.0	24.5	489.7	109.1	59.9	49.2	12.3
8	1984	736.8	51.6	685.2	137.0	210.4	144.6	35.4	52.7	26.4	527.4	157.8	68.5	89.3	22.3
9	1985	828.5	58.0	770.5	154.1	221.9	150.2	39.3	56.6	28.3	565.5	205.0	77.1	127.9	32.0
10	1986	929.9	65.1	864.8	173.0	233.5	155.7	54.4	61.7	30.8	616.6	248.2	86.5	161.7	40.4
11	1987	912.3	63.9	848.4	169.7	231.6	154.4	-	61.0	30.5	610.1	238.3	84.8	153.5	38.4
12	1988	915.5	64.1	851.4	170.3	232.4	155.0	-	61.2	30.6	612.1	239.3	85.1	154.2	-38.6
13	1989	912.1	63.8	848.3	169.7	231.6	154.4	-	61.0	30.5	610.1	238.2	84.8	153.4	38.4
14	1990	905.1	63.4	841.7	168.3	229.8	153.2	-	60.6	30.3	606.7	236.0	84.2	151.8	38.0
15	1991	906.9	63.5	843.4	168.7	230.2	153.5	-	60.7	30.3	606.8	236.6	84.3	152.3	38.1
16	1992	898.7	62.9	835.8	167.2	228.2	152.1	-	60.2	30.1	601.9	233.9	83.6	150.3	37.6
17	1993	901.0	63.1	837.9	167.6	228.8	152.5	-	60.3	30.2	603.3	234.6	83.8	150.8	37.7
18	1994	902.1	63.1	839.0	167.8	229.0	152.7	-	60.4	30.2	603.9	235.1	83.9	151.2	37.8
19	1995	902.8	63.2	839.6	167.9	229.2	152.8	-	60.4	30.2	604.3	235.3	84.0	151.3	37.8
20	1996	894.4	62.6	831.8	166.4	227.1	151.4	-	59.9	30.0	599.3	232.5	83.2	149.3	37.3
21	1997														
22	1998														
23	1999														
24	2000														
25	2001														
26	2002														
27	2003														
28	2004														
29	2005														
30	2006														
Total		23,634.7	1,654.5	21,980.2	4,396.6	6,405.4	4,347.4	1,277.4	1,642.5	821.7	16,426.8	5,553.4	2,198.4	3,355.0	874.8

Notes: 1) For these expenses, refer to Table 10. on Annex 4. "Profitability of Tourism Industry".

2) For the utility charges, refer to Table 5. on Annex 9. and Table 1. on Annex 10.

Table 6 Profit and Loss Statement: Hotel Industry: Without Development

No.	Year	Receipts		(A - B) Sales (C)	(C x 20%) Sales Cost (D)	(C x 54.7%) Payroll & Other Depart- ment Expense (E)	(C x 45.7%) Administra- tion & Management Fees (F)	Utility Charge for new Project (G)	of which		(D+E+F+G) Cost Sub Total (H)	of which		(C - H) Gross Operating Profit (I)	(C x 10%) Non-Operating Cost Including Depreciation & Interest (J)	(I - J) Net Profit before Tax (K)	Unit: million Baht (K x 20%) Corporate Income Tax
		(A)	(A x 7%) Business Tax (B)						(H x 10%) Foreign Portion	(H x 5%) Tax Portion							
1	1977	273.5	19.1	254.4	50.9	137.9	116.3	-	-	305.1	30.5	15.3	-50.7	25.4	-76.1	0	
2	1978																
3	1979																
4	1980																
5	1981																
6	1982																
7	1983																
8	1984																
9	1985																
10	1986																
11	1987																
12	1988																
13	1989																
14	1990																
15	1991																
16	1992																
17	1993																
18	1994																
19	1995																
20	1996																
21	1997																
22	1998																
23	1999																
24	2000																
25	2001																
26	2002																
27	2003																
28	2004																
29	2005																
30	2006	273.5	19.1	254.4	50.9	137.9	116.3	-	-	305.1	30.5	15.3	-50.7	25.4	-76.1	0	
Total		8,205.0	573.0	7,632.0	1,527.0	4,137.0	3,489.0	-	-	9,153.0	915.0	459.0	-1,521.0	762.0	-2,283.0	0	

Table 7 Profit and Loss Statement: Other Tourism: With Development

No.	Year	of which		(A - B) Sales (C)	(C×36%) Sales Cost (D)	(C×40%) Payroll & Other Depart- ment Expenses (E)	(C×10%) Administra- tion & Management Fees (F)	Utility Charge (G)	of which		(D+E+F+G) Cost Sub Total (H)	of which (H×10%) Foreign Portion	(H×5%) Tax Portion	(C - H) Gross Operating Profit (I)	(C × 10%) Non-Operating Cost Including Depreciation & Interest (J)	(I - J) Net Profit before Tax (K)	(K×20%) Corporate Income Tax
		Receipts (A)	(A×5.5%) Business Tax (B)						Annual Charge	(H×10%) Foreign Portion							
1	1977	269.2	14.8	254.4	91.6	101.8	25.4	-	-	218.8	21.9	10.9	35.6	25.4	10.2	2.0	
2	1978	292.4	16.1	276.3	99.5	110.5	27.6	-	-	237.6	23.8	11.9	38.7	27.6	11.1	2.2	
3	1979	329.9	18.1	311.8	112.2	124.7	31.2	-	-	268.1	26.8	13.4	43.7	31.2	12.5	2.5	
4	1980	370.6	20.4	350.2	126.1	140.1	35.0	0.5	0.4	301.7	30.2	15.1	48.5	35.0	13.5	2.7	
5	1981	415.2	22.8	392.4	141.3	157.0	39.2	1.0	0.6	338.5	33.9	16.9	53.9	39.2	14.7	2.9	
6	1982	461.6	25.4	436.2	157.0	174.5	43.6	1.1	0.7	376.2	37.6	18.8	60.0	43.6	16.4	3.3	
7	1983	511.0	28.1	482.9	173.8	193.2	48.3	1.7	0.9	417.0	41.7	20.9	65.9	48.3	17.6	3.5	
8	1984	568.2	31.3	536.9	193.3	214.8	53.7	1.9	1.0	463.7	46.4	23.2	73.2	53.7	19.5	3.9	
9	1985	624.2	34.3	589.9	212.4	236.0	59.0	2.2	1.3	509.6	51.0	25.5	80.3	59.0	21.3	4.3	
10	1986	684.1	37.6	646.5	232.7	258.6	64.7	2.5	1.6	558.5	55.9	27.9	88.0	64.7	23.3	4.7	
11	1987	668.0	36.7	631.3	227.3	252.5	63.1	-	-	545.5	54.5	27.0	85.9	63.1	22.8	4.6	
12	1988	661.5	36.4	625.1	225.0	250.0	62.5	-	-	540.0	54.0	27.0	85.1	62.5	22.6	4.5	
13	1989	649.9	35.7	614.2	221.1	245.7	61.4	-	-	530.7	53.1	26.5	83.5	61.4	22.1	4.4	
14	1990	641.9	35.3	606.6	218.4	242.6	60.7	-	-	524.2	52.4	26.2	82.4	60.7	21.7	4.3	
15	1991	636.7	35.0	601.7	216.6	240.7	60.2	-	-	520.0	52.0	26.0	81.7	60.2	21.5	4.3	
16	1992	629.9	34.6	595.3	214.3	238.1	59.5	-	-	514.4	51.4	25.7	80.9	59.5	21.4	4.3	
17	1993	627.6	34.5	593.1	213.5	237.2	59.3	-	-	512.5	51.3	25.6	80.6	59.3	21.3	4.3	
18	1994	626.5	34.5	592.0	213.1	236.8	59.2	-	-	511.6	51.2	25.6	80.4	59.2	21.2	4.2	
19	1995	622.5	34.2	588.3	211.8	235.3	58.8	-	-	508.4	50.8	25.4	79.9	58.8	21.1	4.2	
20	1996	615.9	33.9	582.0	209.5	232.8	58.2	-	-	503.0	50.3	25.2	79.0	58.2	20.8	4.2	
21	1997																
22	1998																
23	1999																
24	2000																
25	2001																
26	2002																
27	2003																
28	2004																
29	2005																
30	2006	615.9	33.9	582.0	209.5	232.8	58.2	2.5	1.6	503.0	50.3	25.2	79.0	58.2	20.8	4.2	
Total		17,065.8	938.7	16,127.1	5,805.5	6,450.9	1,612.6	60.9	38.5	13,929.9	1,393.2	697.0	2,197.2	1,612.6	584.6	117.3	

Table 8 Profit and Loss Statement: Other Tourism Industries: Without Development

No.	Year	Receipts (A)	of which		(A - B) Sales (C)	(C×36%) Sales Cost (D)	(C×40%) Payroll & Other Department Expenses (E)	(C×10%) Administration & Management Fees (F)	Utility Charge for new Project	of which		(D+E+F+G) Cost Sub Total (H)	of which		(C - H) Gross Operating Profit (I)	(C × 10%) Non-Operating Cost Including Depreciation & Interest (J)	(I - J) Net Profit before Tax (K)	(K×20%) Corporate Income Tax
			(A×5.5%) Business Tax (B)	Receipts						(A×5.5%) Business Tax (B)	(H×10%) Foreign Portion		(H×5%) Tax Portion					
1	1977	247.2	13.6	233.6	84.1	93.4	23.4	-	-	20.1	10.1	200.9	20.1	10.1	32.7	23.4	9.3 (4%)	1.9
2	1978																	
3	1979																	
4	1980																	
5	1981																	
6	1982																	
7	1983																	
8	1984																	
9	1985																	
10	1986																	
11	1987																	
12	1988																	
13	1989																	
14	1990																	
15	1991																	
16	1992																	
17	1993																	
18	1994																	
19	1995																	
20	1996																	
21	1997																	
22	1998																	
23	1999																	
24	2000																	
25	2001																	
26	2002																	
27	2003																	
28	2004																	
29	2005																	
30	2006	247.2	13.6	233.6	84.1	93.4	23.4	-	-	20.1	10.1	200.9	20.1	10.1	32.7	23.4	9.3	1.9
Total		7,416.0	408.0	7,008.0	2,523.0	2,802.0	702.0	-	-	603.0	303.0	6,027.0	603.0	303.0	981.0	702.0	279.0	57.0

Table 9 Guests Nights and Room Occupancy Rate

No.	Year	Hotel Users (persons)		Average Length of Stay		Guest Nights (Unit: 1,000)			Room Number	Double Occupancy Rate	Room Capacity Guests/year	Room Occupancy Rate
		Foreign Tourists	Domestic Tourists	Foreign	Domestic	Foreign	Domestic	Total				
1	1977	233,020	200,580	1.7	1.3	396	261	657	3,600	1.6	2,102,400	31.2%
2	78	258,412	211,610	1.7	1.3	439	275	714				34.0
3	79	286,414	233,090	1.8	1.4	516	326	842				40.0
4	80	317,290	235,012	1.9	1.5	603	353	955				45.4
5	81	352,000	248,000	2.0	1.6	704	397	1,101	3,750		2,190,000	50.3
6	82	377,720	257,680	2.2		831	412	1,243	3,850		2,248,400	55.3
7	83	405,170	267,719	2.4		972	428	1,401	4,112		2,401,408	58.3
8	84	434,640	277,949	2.6	1.7	1,130	473	1,603	4,174		2,437,616	65.7
9	85	466,110	288,522	2.8		1,305	490	1,796	4,234		2,472,656	72.6
10	86	500,000	300,000	3.0		1,500	510	2,010	4,300		2,511,200	80.0
11	87	468,750	282,353	3.2		1,500	480	1,980				78.8
12	88	441,170	266,667	3.4	1.8	1,500	480	1,980				78.8
13	89	416,667		3.6		1,500	480	1,980				78.8
14	90	394,737		3.8		1,500	480	1,980				78.8
15	91	375,000	252,632	4.0	1.9	1,500	480	1,980				78.8
16	92	365,854		4.1		1,500	480	1,980				78.8
17	93	357,143		4.2		1,500	480	1,980				78.8
18	94	348,837		4.3		1,500	480	1,980				78.8
19	95	340,909	240,000	4.4	2.0	1,500	480	1,980				78.8
20	96	333,333		4.5		1,500	480	1,980				78.8
21	97											
22	98											
23	99											
24	2000											
25	01											
26	02											
27	03											
28	04											
29	05											
30	06	333,333	240,000	4.5	2.0	1,500	480	1,980	4,300	1.6	2,511,200	78.8
Total		10,806,506	7,493,044	3.5*	1.8*	38,396	13,525	51,922	124,820	1.6*	72,894,880	70.3*

* Figures with * mark show the average for 30 years.

資料 1.3. 雇傭効果

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資料 1.3. 雇 傭 効 果

1.3.1 観 光 産 業 と 地 域 社 会

1976年の計画地域内の人口は、42,500人で次に示すように3地域に分布している。

表 1 現 在 人 口

地 域	人 口
バンラムン (Bang Lamung)	6,481
ナクラア (Na Klua)	20,842
ノンブルー (Nong Pleu)	15,208
計	42,531人

1977年のバンラムン郡役所 (Bang Lamung Amphoe Office)で行われた調査によれば、一世帯当りの構成人数は約6名で、全体人口に対する就業率は、約40% (1976年)であった。1976年の調査によれば、15才から59才までのグループは全人口の60.5%であった。本プロジェクトは、地域住民に雇傭機会を与えるので、地域の安定に貢献する事になる。雇傭構造は、農林水産に1.7%、でサービス産業が87.1%である。当対象地域の経済はほとんど観光産業に依存しており、公共部門の直接的効果よりむしろ民間部門の間接効果により大きな効果があるであろう。

パタヤの将来発展を考えれば、サービス産業の占める割合は、よりいっそうその重要性を増すであろう。地域開発の観点より見れば、パタヤ観光開発は次に述べるような大きな経済上の波及効果をもたらすと期待される。

- 観光客の入込数が増加すれば、観光関連の各種のサービス (Tourist Service Function)の需要が増大する。
それにともなって、地域社会の生活関連サービスの重要性が次第に高まり、経済的にかつ利用しやすい比較的高度な発展が期待される。
- 観光開発が進展するについて、労働力の需要が高まり雇傭の機会が更に増加することになる。現在ホテル産業で雇傭されている労働力の約80%はバンコクよりパタヤにもたらされているが、新しい雇傭需要の増大は結果として、地域住民の生活安定を促がし、観光産業より派生する便益に預る事になる。
- 地域社会の経済的基盤は、観光産業にたよらざるをえない故、開発によってもたらされる人口集中を要領良く処理するためには、新たな市街地開発が促進されねばならない。

当地域社会は、観光産業に大きく依存しており、増加人口を社会開発によって対処していくために、次の2つの目的を整備の方向とする必要がある。

- ① 観光地区と居住地区の間の混乱をさける。
- ② 計画的に快適なコミュニティを創造する。

このようなコミュニティの整備は、観光開発と2本の柱となり相乗効果を生みつつ社会の発展に寄与するものと考えられる。

1.3.2 将来人口の推計

将来人口推計のフローチャートは図-1に示してあるが、雇用機会の増大のメリットを地域に波及すべく、地元雇用率を高くし、人口の社会減を除く考え方とする。また、サービス部門以外の就業者に関しては、次のように考える。

- 1) 現在、1,900人程度の農業、漁業従事者いると考えられるが、観光開発に伴って漸次減少するものと思われ、1996年には1,000人程度と考える。
- 2) 一方加工産業では、約300人の労働者がタピオカ工場で雇われている。タピオカ工場の生発水の持つパタヤ観光開発に与える悪影響を考慮すれば、早急に必要な工場排水処理施設を設け、同時に雇傭が継続される事が望ましい。

これらの将来人口予測の手法は表-2に示すとうりである。

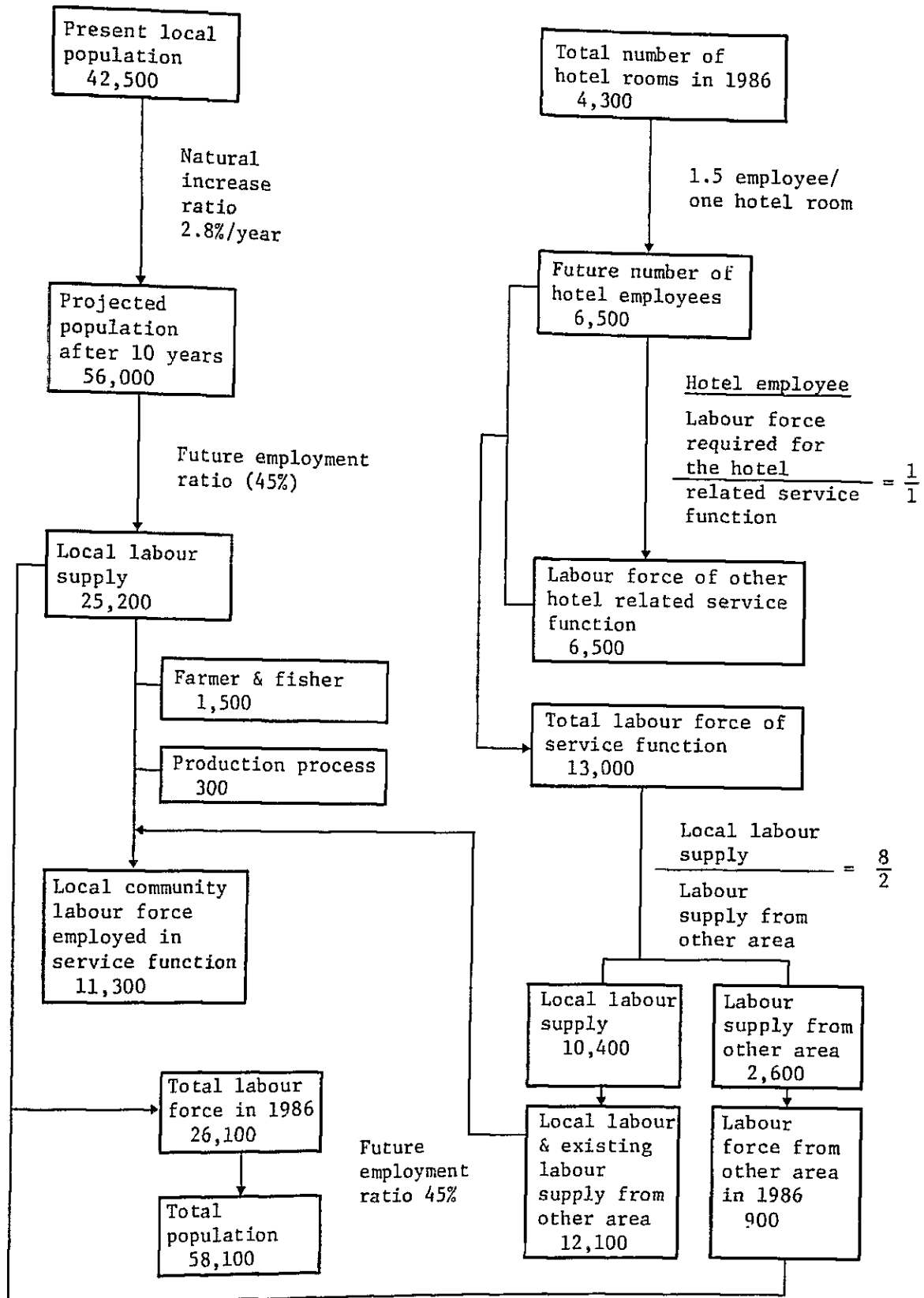
本プロジェクトが施行され、観光産業が活発に運営される1986年の時点では、本プロジェクトによって、新たに直接的に又間接的に少くとも9,100人の雇傭が創出されることになり、これらは1976年の雇傭人口の53.5%にも達するであろう。

表-2 地域社会の将来人口予測

<u>Items</u>	<u>1976</u>	<u>1986</u>	<u>1996</u>
Total population (persons)	42,500	58,100	80,200
Total employed population	17,000	26,100	40,100
Farmers & fishermen	1,900	1,500	
Production process workers	300	300	
Service workers for local community	14,800	11,300	
Service workers for tourists		13,000	

Note: The employment ratio for 1986 is assumed at 45% and that for 1996 at 50%.

图-1 将来雇傭構造予測・手法



ANNEX 14. OTHER DATA IN THE ANALYSIS

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注：表の数値の単位は10万パーツである。

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Notes 1) Base Case means the project including six works as specified category "A".

2) Unit: hundred thousand Baht.

1. Financial Analysis

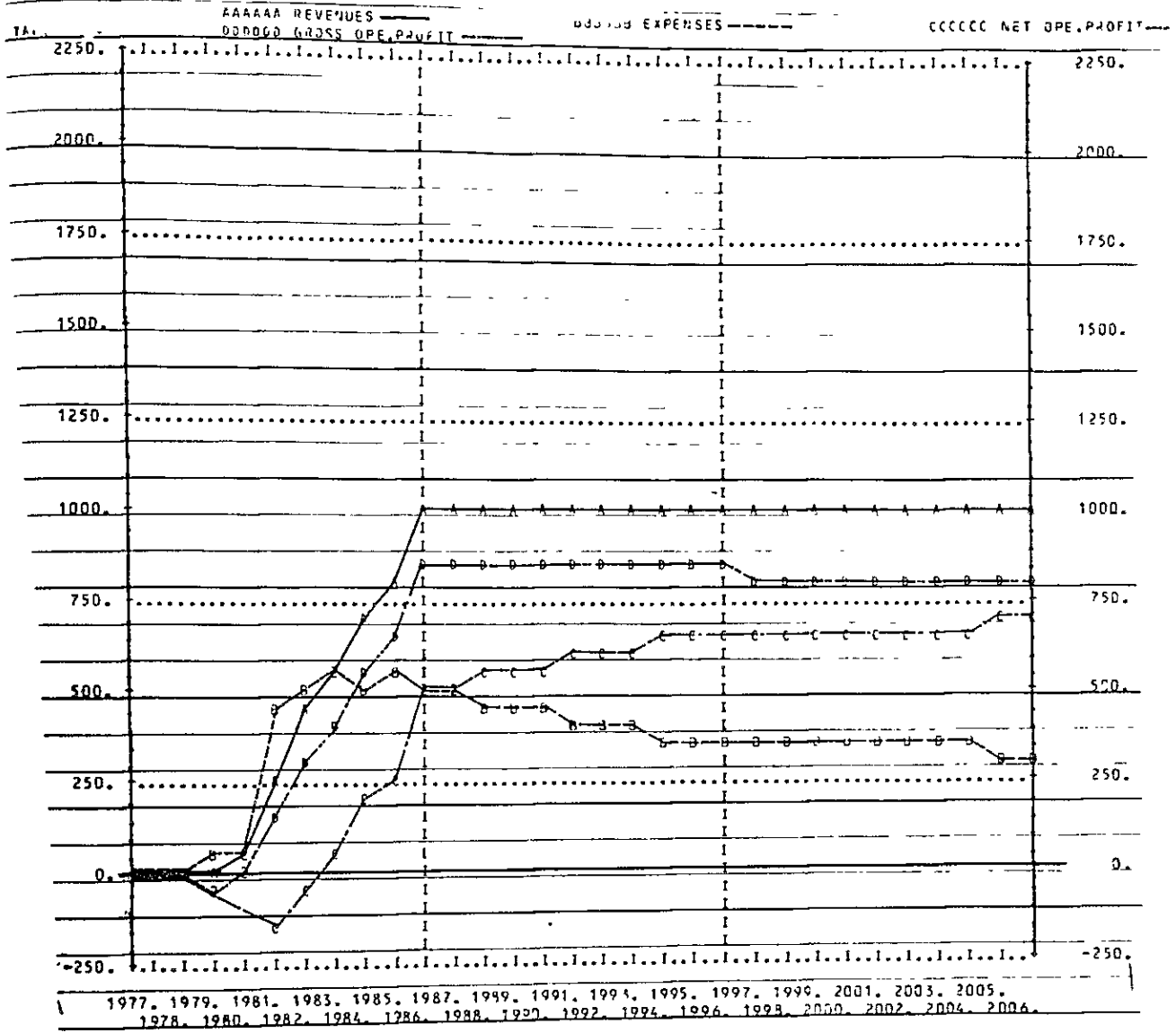
*** FINANCIAL CASH FLOW *** a-1. Base Case, without Loan

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL	
SOURCES	5	0.	0.	-30.	-19.	131.	308.	415.	538.	628.	830.	2799.
NET OPE. PROFIT	5	0.	0.	-30.	-19.	-175.	-41.	39.	178.	265.	479.	698.
DEPRECIATION	5	0.	0.	0.	0.	504.	349.	374.	360.	363.	351.	2101.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
APPLICATIONS	5	0.	0.	330.	7407.	1543.	714.	307.	382.	385.	49.	11117.
INVESTMENTS	5	0.	0.	330.	7407.	1543.	714.	307.	382.	385.	49.	11117.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BALANCE BY YEAR	5	7.	0.	-361.	-7475.	-1412.	-406.	105.	156.	243.	791.	-8518.
ACCUMULATED	5	0.	0.	-361.	-7796.	-9197.	-9603.	-7477.	-9341.	-7098.	-5919.	-65270.

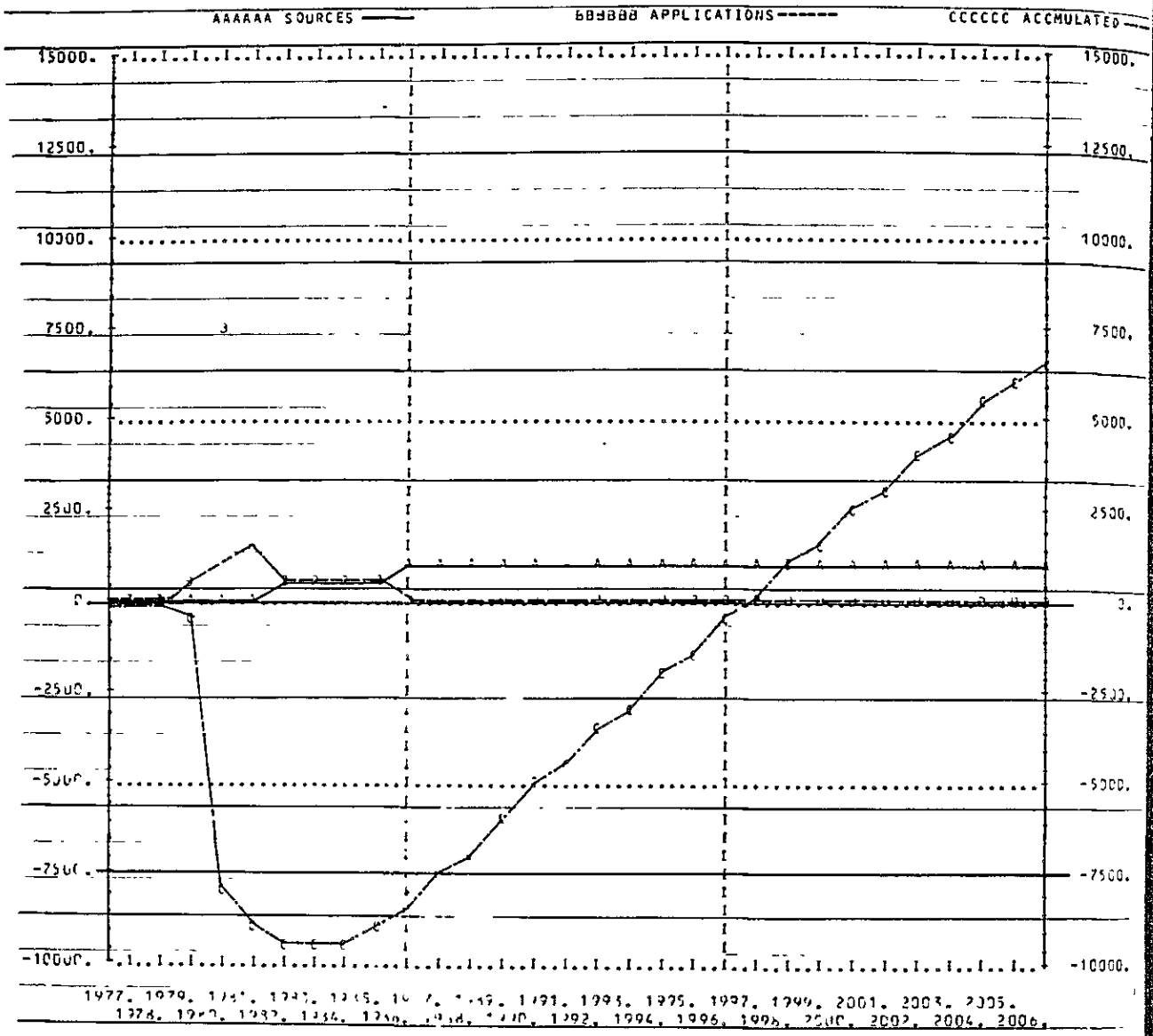
	11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL	
SOURCES	5	139.	575.	877.	835.	525.	834.	734.	834.	854.	8355.	
NET OPE. PROFIT	5	515.	547.	555.	571.	537.	504.	517.	531.	542.	5911.	
DEPRECIATION	5	724.	771.	767.	765.	745.	730.	717.	703.	692.	6444.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	75.	55.	77.	63.	67.	67.	64.	63.	63.	646.	
INVESTMENTS	5	75.	55.	77.	63.	67.	67.	64.	63.	63.	646.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	761.	775.	774.	773.	772.	771.	771.	771.	771.	7706.	
ACCUMULATED	5	-7557.	-6732.	-5907.	-5236.	-4464.	-3693.	-2922.	-2157.	-1381.	-610.	-40830.

	21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL	
SOURCES	5	420.	427.	421.	427.	423.	420.	420.	420.	420.	4230.	19354.	
NET OPE. PROFIT	5	645.	657.	657.	659.	664.	667.	670.	674.	676.	6641.	13250.	
DEPRECIATION	5	175.	165.	163.	161.	157.	153.	150.	146.	144.	142.	1559.	6104.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	103.	83.	67.	83.	81.	83.	85.	85.	83.	83.	348.	12612.
INVESTMENTS	5	103.	83.	67.	83.	81.	83.	85.	85.	83.	83.	648.	12612.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	717.	737.	737.	737.	737.	737.	737.	737.	737.	737.	7352.	6742.
ACCUMULATED	5	107.	844.	1582.	2319.	3056.	3793.	4530.	5268.	6005.	6742.	34266.	-59759.

*** PROFIT AND LOSS STATEMENT *** a-2, Base Case, without Loan



*** FINANCIAL CASH FLOW GRAPH *** a-3. Base Case, without Loan



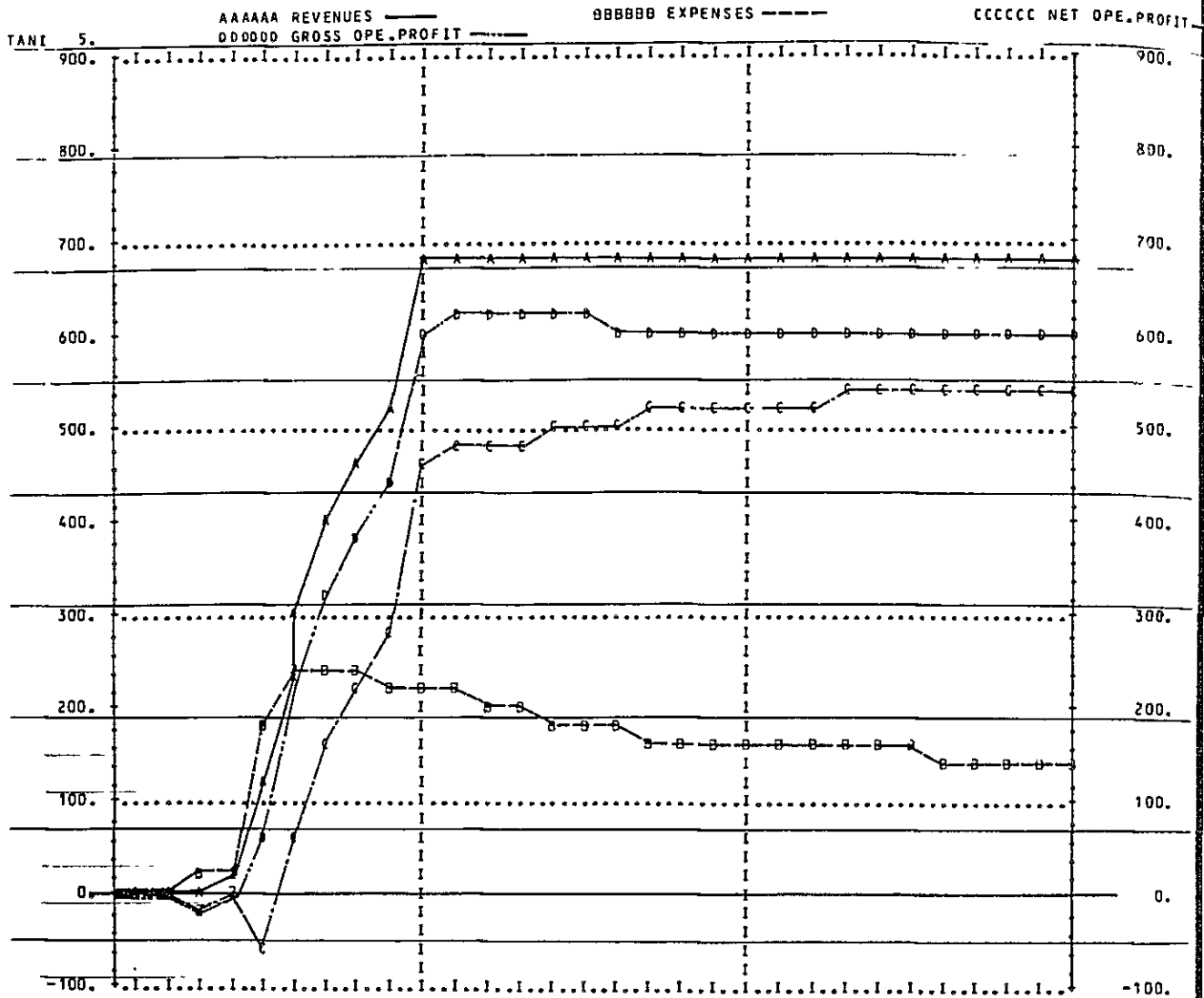
*** FINANCIAL CASH FLOW *** b-1, Base Case, without Loans in Tourism Area

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL	
SOURCES	5	0.	0.	-15.	1.	60.	233.	324.	386.	440.	604.	2033.
NET OPE. PROFIT	5	0.	0.	-15.	1.	-62.	68.	158.	228.	287.	455.	1120.
DEPRECIATION	5	0.	0.	0.	0.	122.	165.	166.	158.	153.	149.	913.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
APPLICATIONS	5	0.	0.	139.	2579.	1242.	294.	85.	143.	130.	22.	4640.
INVESTMENTS	5	0.	0.	139.	2579.	1242.	294.	85.	148.	130.	22.	4640.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BALANCE BY YEAR	5	0.	0.	-154.	-2578.	-1182.	-61.	239.	238.	310.	582.	-2607.
ACCUMULATED	5	0.	0.	-154.	-2732.	-3914.	-3976.	-3737.	-3499.	-3189.	-2607.	-23809.

	11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL	
SOURCES	5	610.	610.	610.	610.	609.	609.	609.	609.	609.	6095.	
NET OPE. PROFIT	5	472.	482.	489.	496.	503.	509.	515.	520.	525.	5040.	
DEPRECIATION	5	139.	128.	121.	114.	107.	103.	94.	89.	84.	1055.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	29.	25.	25.	25.	25.	25.	25.	25.	25.	257.	
INVESTMENTS	5	29.	25.	25.	25.	25.	25.	25.	25.	25.	257.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	581.	535.	585.	585.	585.	584.	584.	594.	584.	584.	5838.
ACCUMULATED	5	-2026.	-1442.	-857.	-272.	313.	896.	1480.	2064.	2647.	3231.	6033.

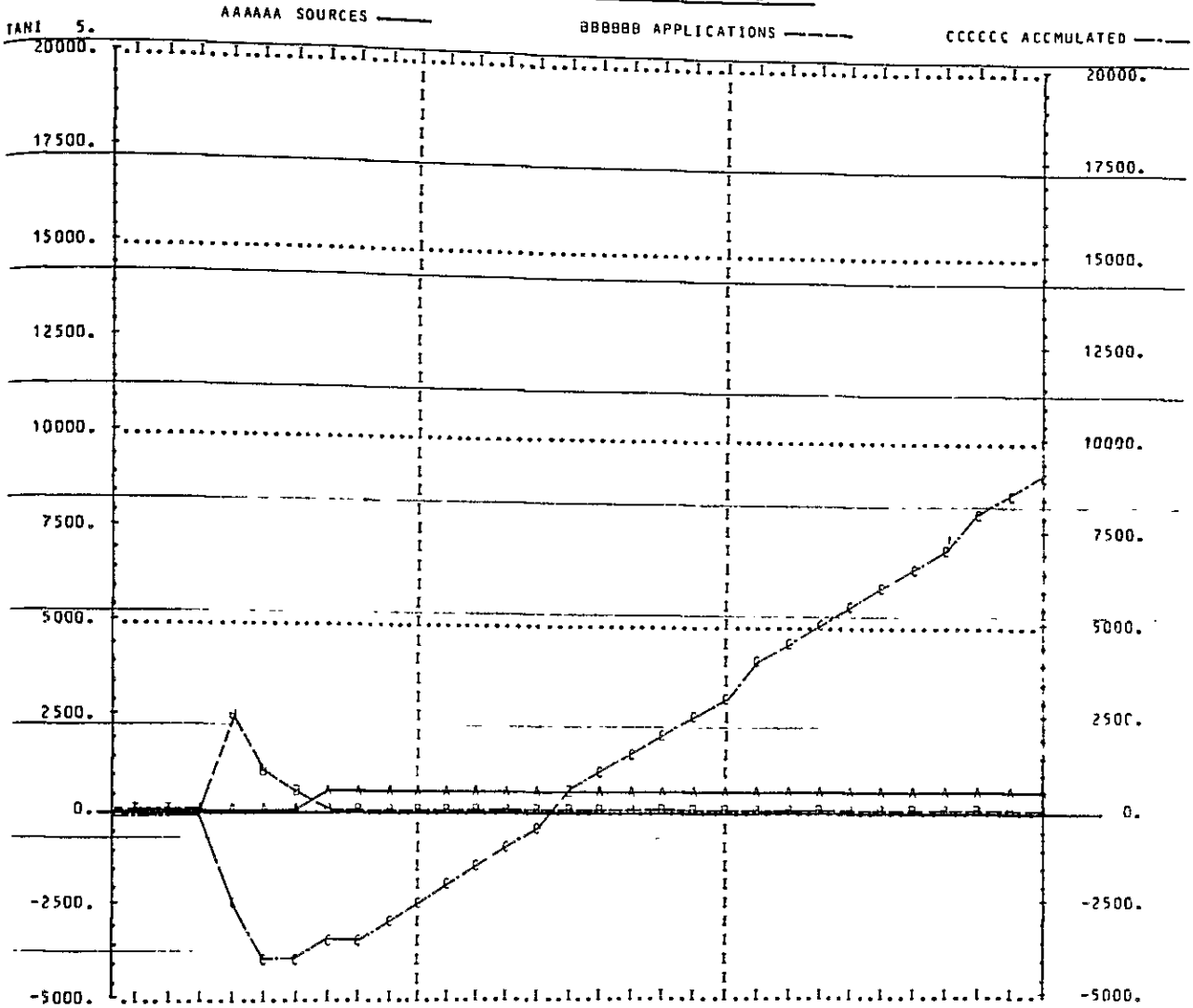
	21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL	
SOURCES	5	603.	603.	603.	603.	603.	603.	603.	603.	603.	6030.	14158.	
NET OPE. PROFIT	5	526.	529.	531.	531.	532.	534.	535.	537.	539.	5331.	11491.	
DEPRECIATION	5	77.	74.	72.	72.	71.	69.	68.	66.	66.	64.	699.	2667.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	38.	33.	33.	33.	33.	33.	33.	33.	33.	338.	5235.	
INVESTMENTS	5	38.	33.	33.	33.	33.	33.	33.	33.	33.	338.	5235.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	565.	570.	570.	570.	570.	570.	570.	570.	570.	5692.	8923.	
ACCUMULATED	5	3796.	4365.	4935.	5505.	6074.	6644.	7214.	7783.	8353.	8923.	63591.	45816.

*** PROFIT LOSS STATEMENT *** b-2, Base Case, without Loan: in Tourism Area



1977, 1979, 1981, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005.
1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006.

*** FINANCIAL CASH FLOW GRAPH *** b-3, Base Case, without Loan: in Tourism Area



1977, 1979, 1981, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005,
1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006.

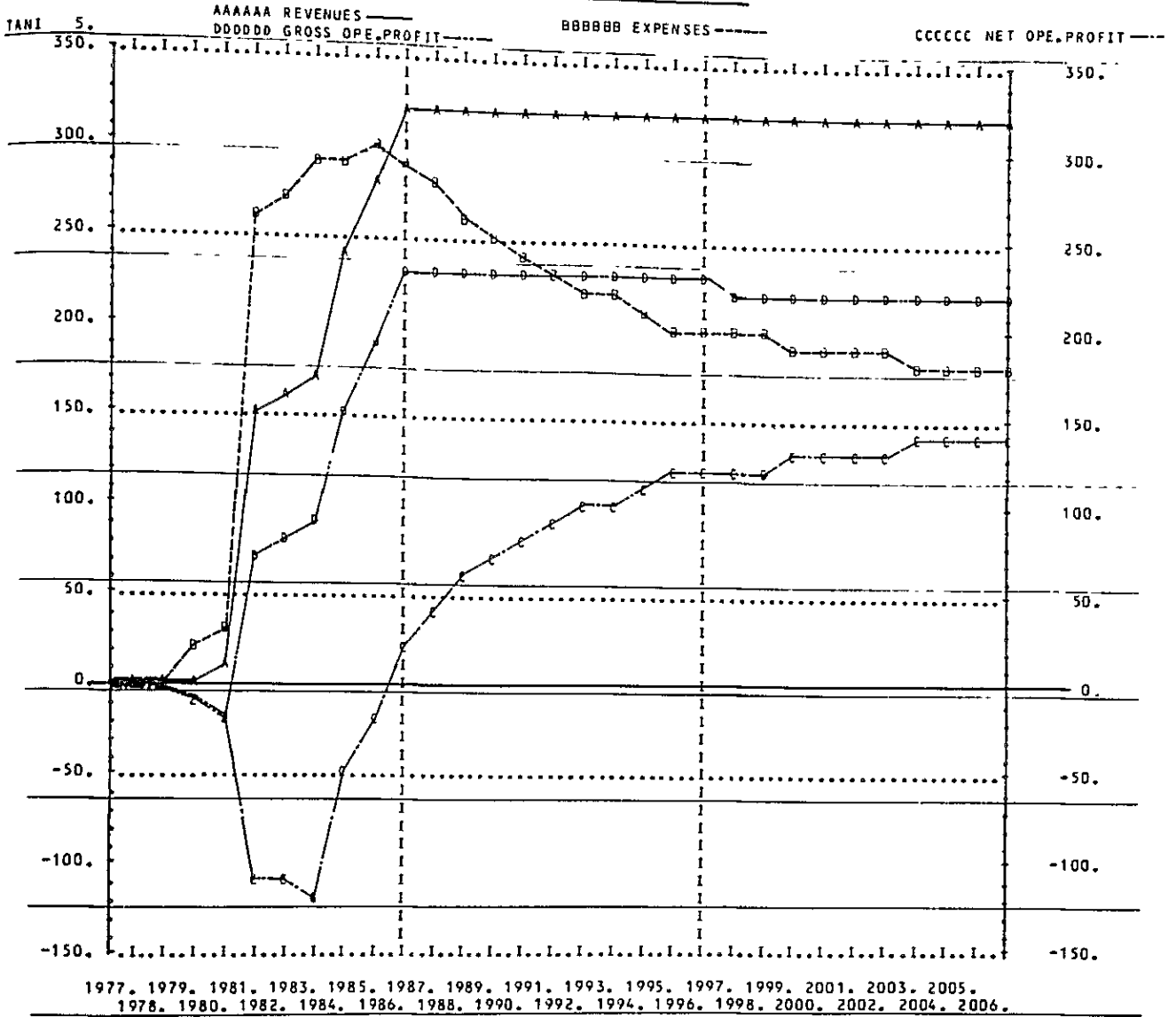
*** FINANCIAL CASH FLOW *** c-1. Base Case, without Loan, In Residential Area

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL	
SOURCES	5	0.	0.	-15.	-20.	71.	75.	89.	152.	188.	226.	766.
NET OPE. PROFIT	5	0.	0.	-15.	-20.	-111.	-109.	-119.	-50.	-22.	24.	-422.
DEPRECIATION	5	0.	0.	0.	0.	182.	184.	208.	202.	210.	202.	1188.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
APPLICATIONS	5	0.	0.	191.	4828.	300.	420.	222.	234.	255.	28.	6477.
INVESTMENTS	5	0.	0.	191.	4828.	300.	420.	222.	234.	255.	28.	6477.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BALANCE BY YEAR	5	0.	0.	-206.	-4848.	-229.	-345.	-133.	-82.	-67.	198.	-5711.
ACCUMULATED	5	0.	0.	-206.	-5054.	-5283.	-5628.	-5760.	-5842.	-5909.	-5711.	-39392.

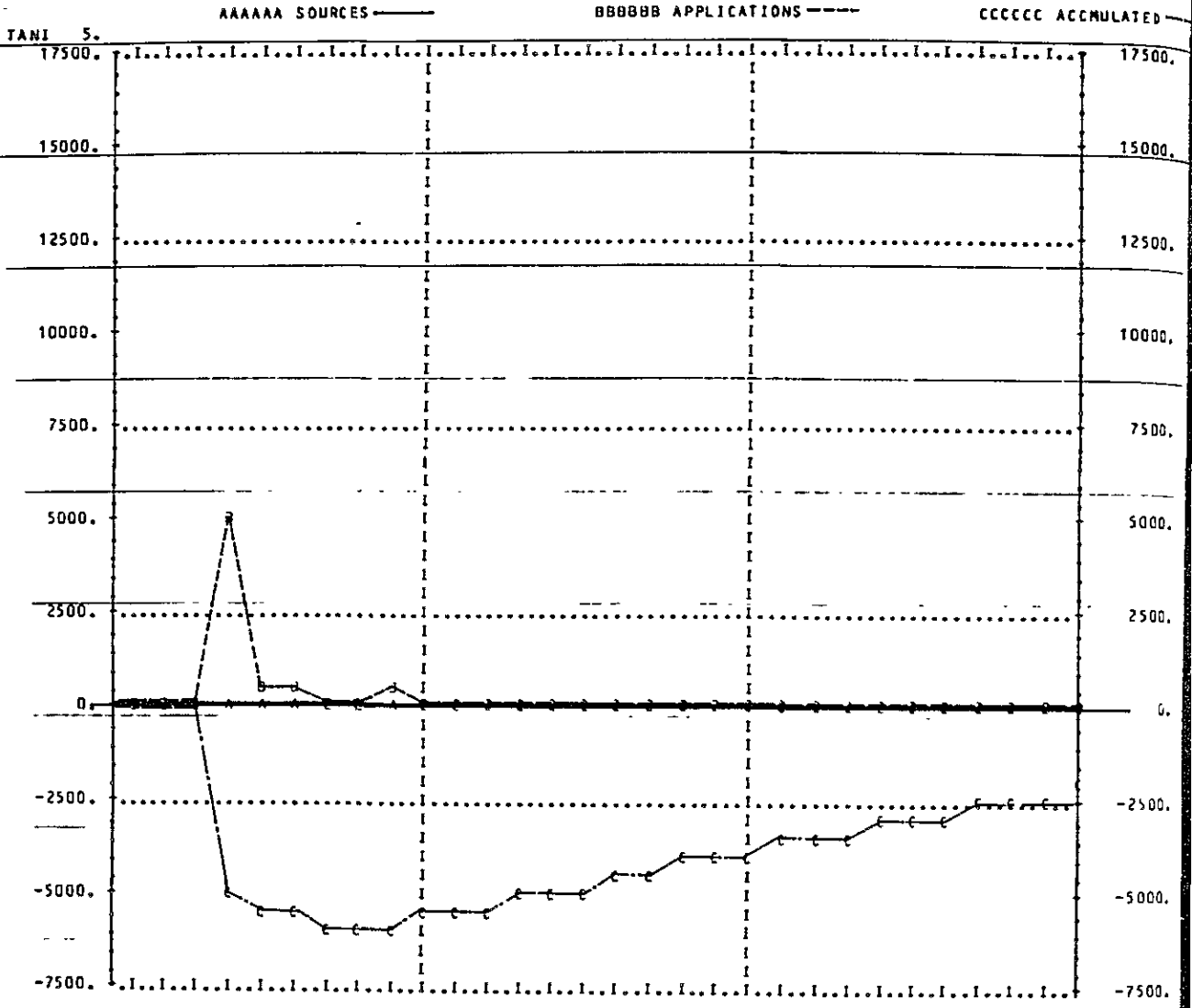
	11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL	
SOURCES	5	227.	226.	227.	226.	225.	225.	225.	225.	225.	2260.	
NET OPE. PROFIT	5	43.	55.	66.	75.	86.	95.	102.	111.	117.	873.	
DEPRECIATION	5	186.	173.	161.	151.	139.	130.	123.	114.	108.	1387.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	49.	38.	38.	38.	38.	36.	36.	38.	38.	391.	
INVESTMENTS	5	49.	38.	38.	38.	38.	36.	36.	38.	38.	391.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	180.	190.	189.	188.	187.	187.	187.	187.	187.	1870.	
ACCUMULATED	5	-5531.	-5340.	-5151.	-4963.	-4776.	-4589.	-4402.	-4215.	-4028.	-3841.	-46836.

	21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL
SOURCES	5	217.	217.	217.	217.	217.	217.	217.	217.	217.	2170.	5196.
NET OPE. PROFIT	5	119.	123.	126.	128.	131.	133.	135.	137.	139.	139.	1310.
DEPRECIATION	5	96.	94.	91.	89.	86.	84.	82.	80.	78.	78.	860.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
APPLICATIONS	5	64.	49.	49.	49.	49.	49.	49.	49.	49.	510.	7377.
INVESTMENTS	5	64.	49.	49.	49.	49.	49.	49.	49.	49.	510.	7377.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BALANCE BY YEAR	5	153.	168.	168.	168.	168.	168.	168.	168.	168.	1661.	-2181.
ACCUMULATED	5	-3689.	-3521.	-3353.	-3186.	-3018.	-2851.	-2683.	-2516.	-2348.	-2181.	-29345.

*** PROFIT LOSS STATEMENT *** c-2, Base Case, without Loan: in Residential Area



*** FINANCIAL CASH FLOW GRAPH *** c-3, Base Case, without Loan: in Residential Area



1977, 1979, 1981, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005.
 1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006.

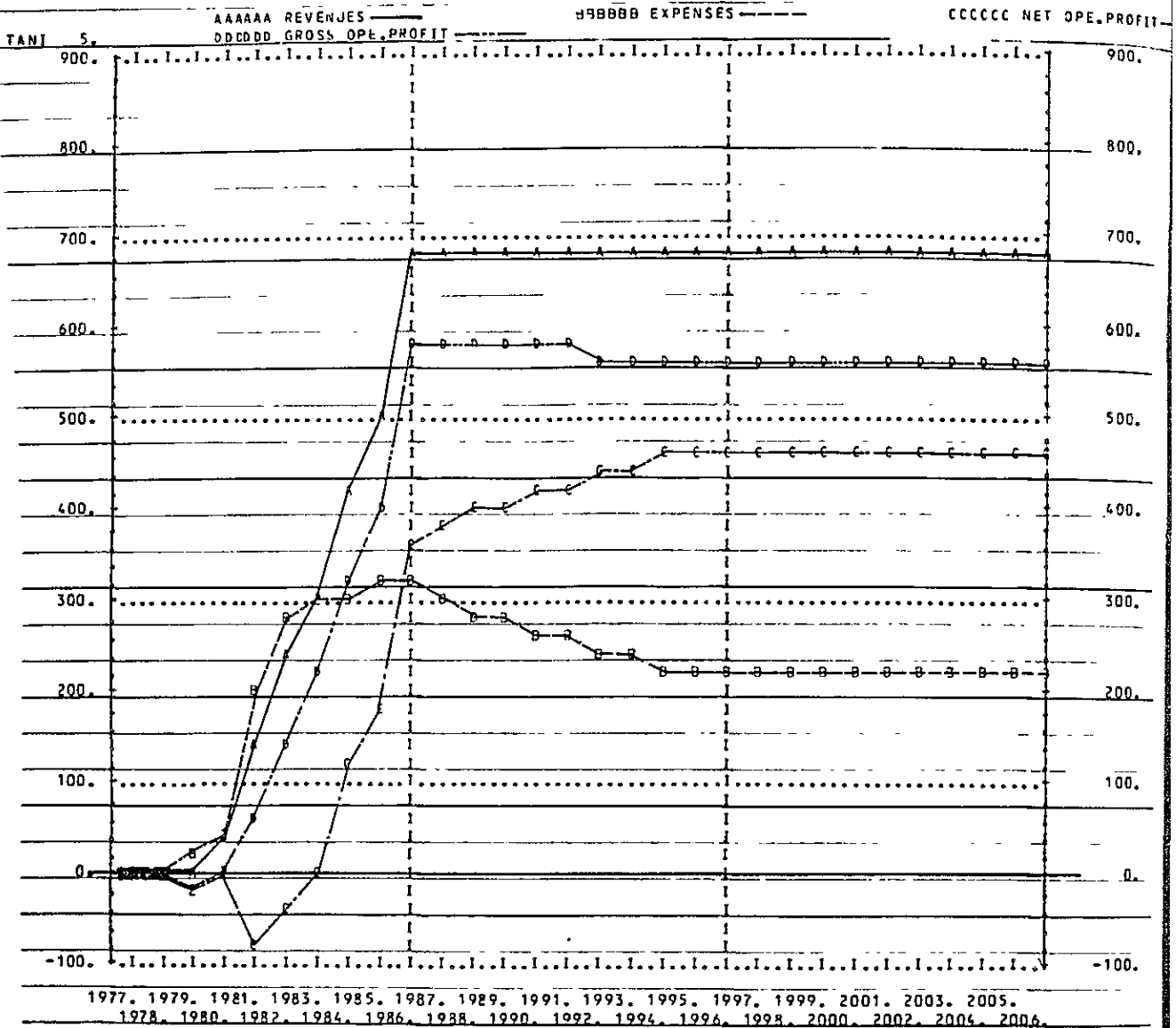
*** FINANCIAL CASH FLOW *** d-1, Excluding Water Supply System, without Loan

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL	
SOURCES	5	0.	0.	-22.	-8.	58.	149.	213.	323.	407.	573.	1693.
NET OPE. PROFIT	5	0.	0.	-22.	-8.	-73.	-34.	-2.	114.	187.	358.	520.
DEPRECIATION	5	0.	0.	0.	0.	131.	183.	215.	209.	220.	215.	1173.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
APPLICATIONS	5	0.	0.	182.	3648.	1491.	665.	287.	372.	359.	44.	7048.
INVESTMENTS	5	0.	0.	182.	3648.	1491.	665.	287.	372.	359.	44.	7048.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BALANCE BY YEAR	5	0.	0.	-204.	-4656.	-1435.	-516.	-74.	-49.	48.	529.	-5355.
ACCUMULATED	5	0.	0.	-204.	-3860.	-5293.	-5807.	-5883.	-5932.	-5884.	-5355.	-38218.

	11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL	
SOURCES	5	574.	573.	572.	571.	570.	569.	569.	569.	569.	5705.	
NET OPE. PROFIT	5	379.	393.	404.	415.	426.	435.	443.	451.	458.	4267.	
DEPRECIATION	5	195.	180.	168.	156.	144.	134.	125.	118.	111.	1438.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	79.	63.	63.	63.	63.	63.	63.	63.	63.	648.	
INVESTMENTS	5	79.	63.	63.	63.	63.	63.	63.	63.	63.	648.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	495.	510.	509.	508.	507.	506.	506.	506.	506.	5058.	
ACCUMULATED	5	-4859.	-6349.	-3840.	-3333.	-2826.	-2320.	-1814.	-1309.	-803.	-297.	-23751.

	21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL	
SOURCES	5	555.	555.	555.	555.	555.	555.	555.	555.	555.	5550.	12948.	
NET OPE. PROFIT	5	453.	456.	457.	455.	456.	456.	455.	457.	456.	4558.	9345.	
DEPRECIATION	5	102.	99.	98.	100.	99.	99.	99.	98.	99.	992.	3603.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	103.	83.	83.	83.	83.	83.	83.	83.	83.	848.	8543.	
INVESTMENTS	5	103.	83.	83.	83.	83.	83.	83.	83.	83.	848.	8543.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	457.	472.	472.	472.	472.	472.	472.	472.	472.	4702.	4405.	
ACCUMULATED	5	155.	627.	1099.	1572.	2044.	2516.	2988.	3460.	3933.	4405.	22799.	-41169.

*** PROFIT AND LOSS STATEMENT *** d-2, Excluding Water Supply System, without Loan

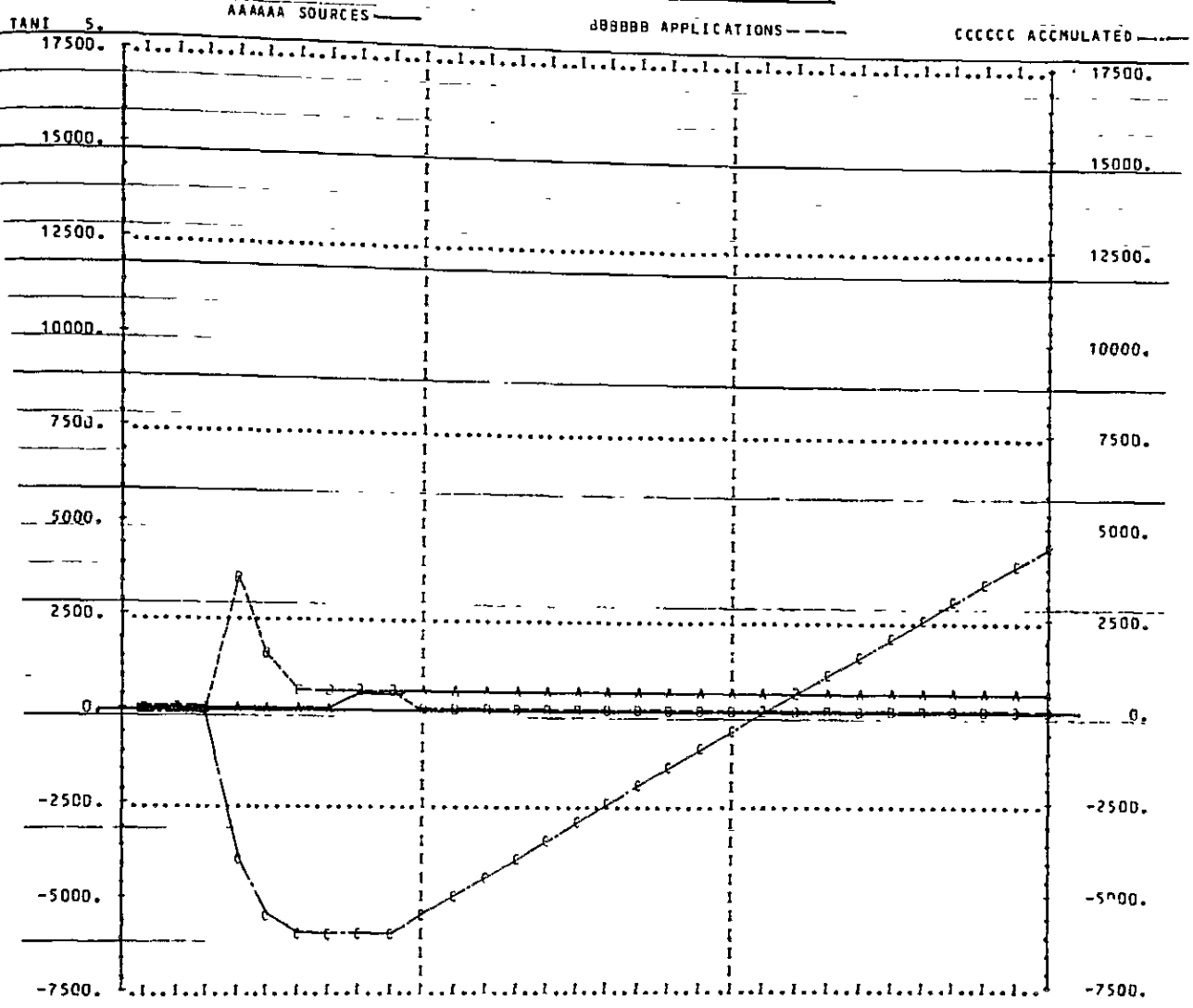


SIMPLE VERSION 0

PATTAYA PROJECT TUJI-SHIMADA

1978-12- SE

*** FINANCIAL CASH FLOW GRAPH *** d-3, Excluding Water Supply System, without Loan



1977, 1979, 1981, 1985, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005,
1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006.

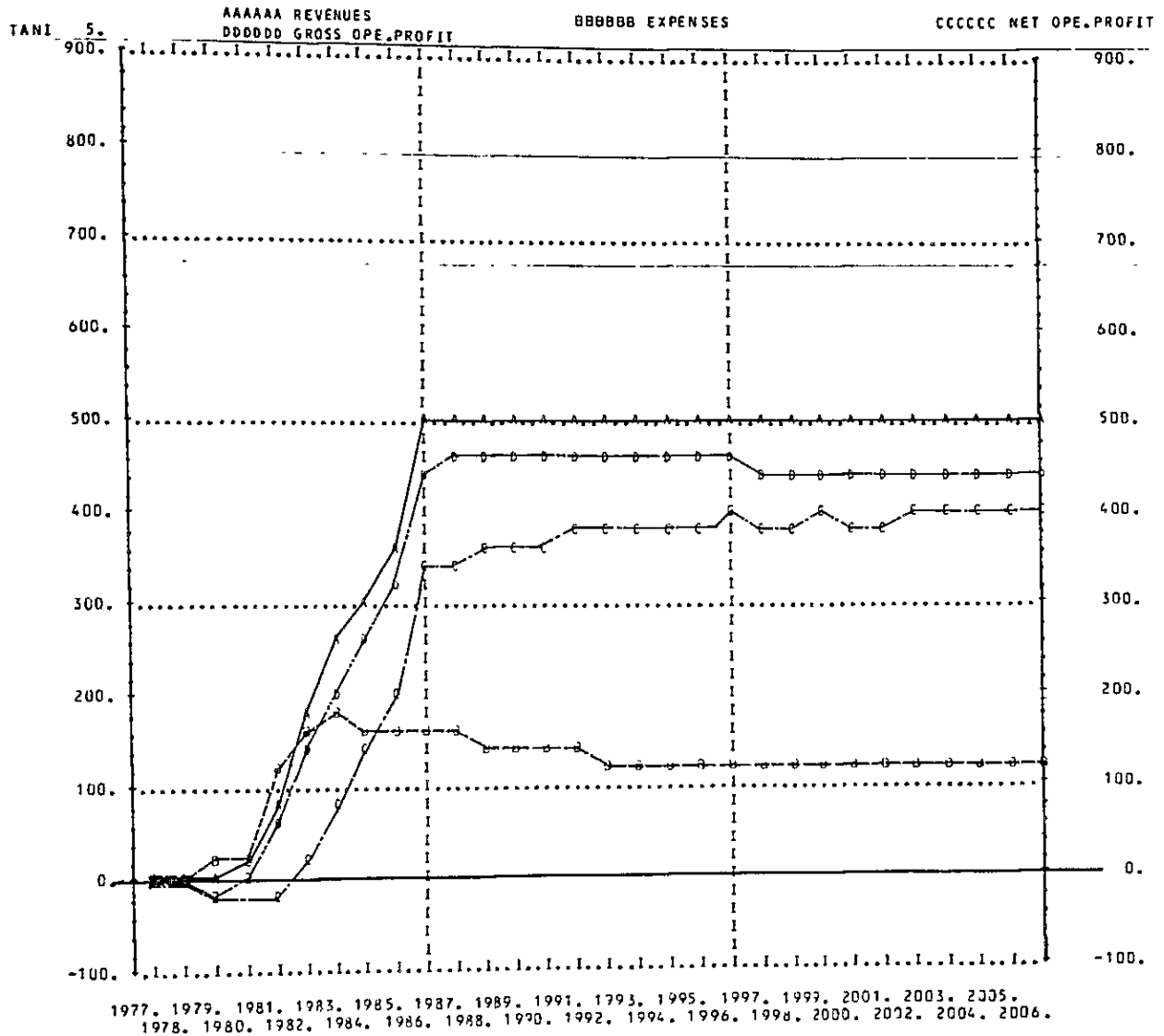
*** FINANCIAL CASH FLOW *** e-1. Excluding Water Supply system, without Loan in Tourism Area

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL	
SOURCES	5	0.	0.	-13.	4.	50.	141.	201.	257.	311.	447.	1398.
NET OPE. PROFIT	5	0.	0.	-13.	4.	-28.	20.	78.	140.	197.	335.	733.
DEPRECIATION	5	0.	0.	0.	0.	78.	121.	123.	117.	114.	112.	665.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
APPLICATIONS	5	0.	0.	99.	1614.	1203.	266.	77.	138.	124.	16.	3537.
INVESTMENTS	5	0.	0.	99.	1614.	1203.	266.	77.	138.	124.	16.	3537.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BALANCE BY YEAR	5	0.	0.	-11.	-1610.	-1153.	-125.	124.	117.	187.	431.	-2139.
ACCUMULATED	5	0.	0.	-11.	-1722.	-2875.	-2999.	-2675.	-2756.	-2570.	-2139.	-18068.

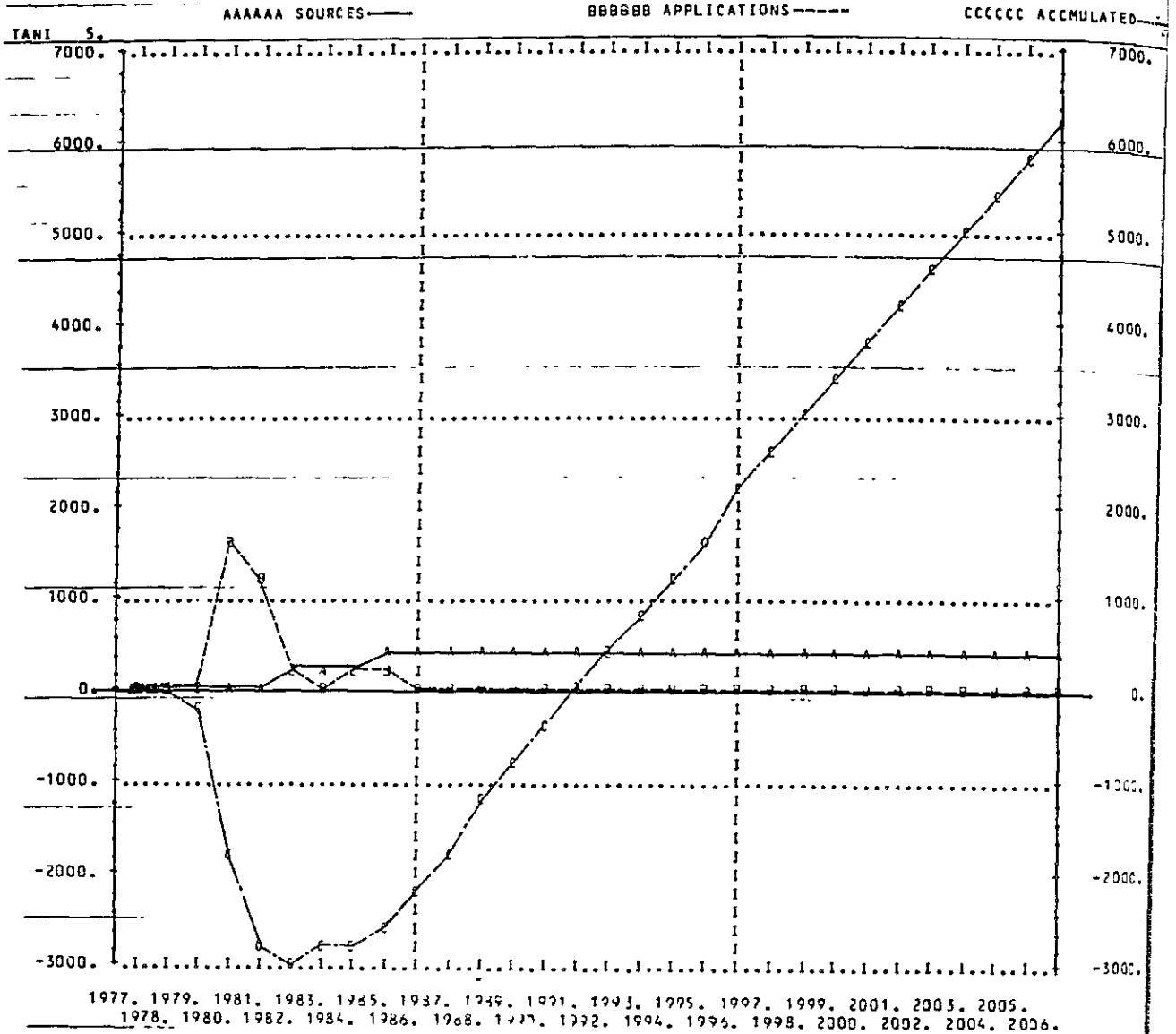
	11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL	
SOURCES	5	451.	451.	451.	451.	450.	450.	450.	450.	450.	4505.	
NET OPE. PROFIT	5	346.	356.	361.	367.	372.	376.	381.	384.	388.	3724.	
DEPRECIATION	5	103.	95.	97.	84.	79.	74.	59.	66.	62.	781.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	29.	25.	25.	25.	25.	25.	25.	25.	25.	257.	
INVESTMENTS	5	29.	25.	25.	25.	25.	25.	25.	25.	25.	257.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	422.	426.	426.	426.	426.	425.	425.	425.	425.	4248.	
ACCUMULATED	5	-1717.	-1291.	-866.	-440.	-14.	410.	835.	1260.	1685.	2109.	1971.

	21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL	
SOURCES	5	444.	444.	444.	444.	444.	444.	444.	444.	444.	4440.	10363.	
NET OPE. PROFIT	5	387.	389.	390.	389.	389.	390.	391.	390.	392.	3877.	8354.	
DEPRECIATION	5	57.	55.	54.	55.	55.	54.	54.	53.	54.	543.	1989.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	36.	33.	33.	33.	33.	33.	33.	33.	33.	336.	4132.	
INVESTMENTS	5	36.	33.	33.	33.	33.	33.	33.	33.	33.	336.	4132.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	406.	411.	411.	411.	411.	411.	411.	411.	411.	4102.	6211.	
ACCUMULATED	5	2515.	2926.	3336.	3747.	4158.	4568.	4979.	5389.	5800.	6211.	43628.	27551.

*** PROFIT LOSS STATEMENT *** e-2, Excluding Water Supply System, without Loan in Tourism Area



*** FINANCIAL CASH FLOW GRAPH *** e-3, Excluding Water Supply System, without Loan in Tourism Area



SIMPLE VERSION D

PATTAYA PROJECT

TUJI-SHIMADA

1978-12-

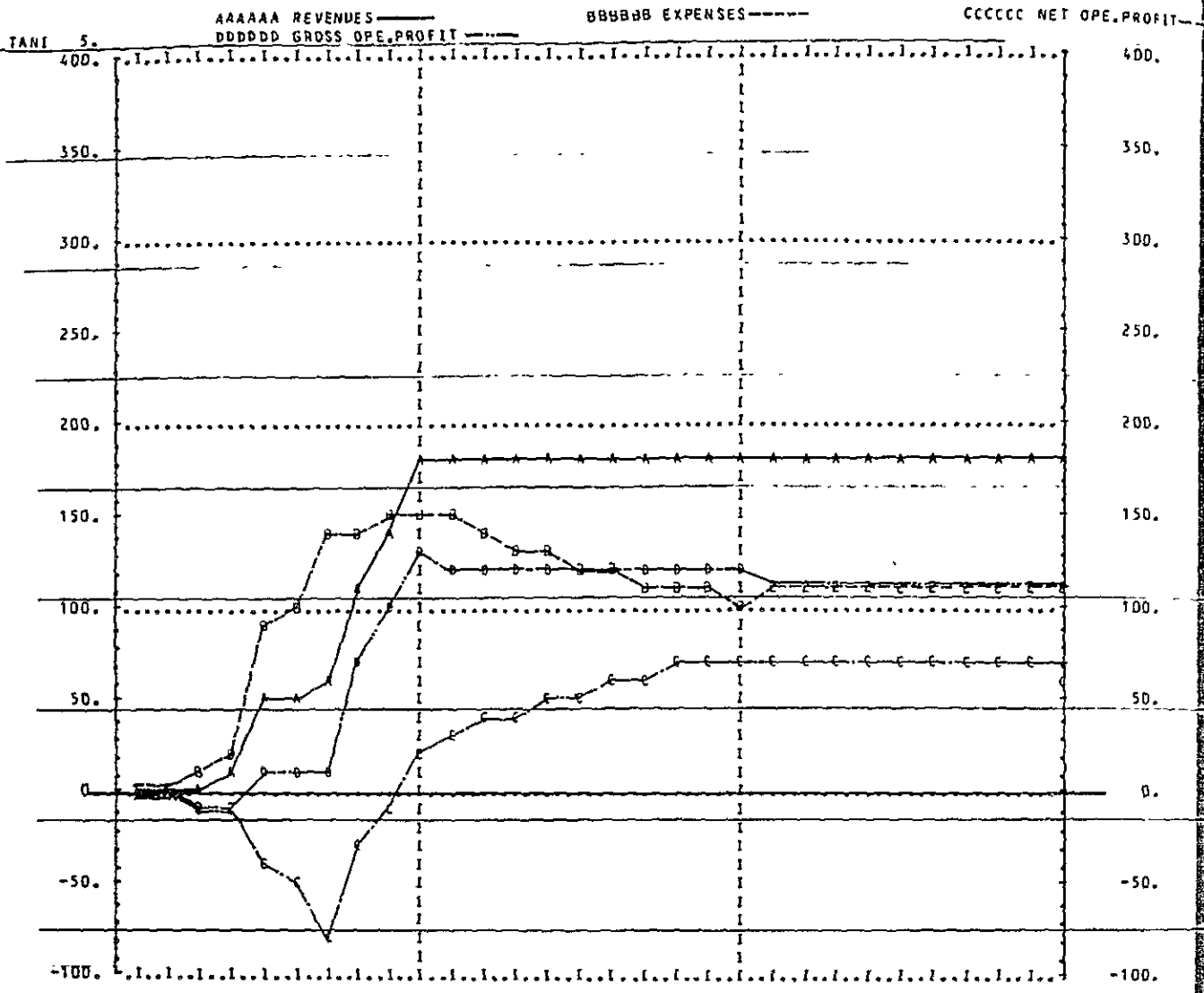
*** FINANCIAL CASH FLOW *** F-1, Excluding Water Supply System, without Loan in Residential Area

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL	
SOURCES	5	0.	0.	-9.	-12.	8.	8.	12.	66.	96.	126.	295.
NET OPE. PROFIT	5	0.	0.	-9.	-12.	-45.	-54.	-80.	-26.	-10.	23.	-213.
DEPRECIATION	5	0.	0.	0.	0.	53.	62.	92.	92.	106.	103.	508.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
APPLICATIONS	5	0.	0.	83.	2035.	288.	399.	210.	234.	235.	28.	3511.
INVESTMENTS	5	0.	0.	83.	2035.	288.	399.	210.	234.	235.	28.	3511.
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BALANCE BY YEAR	5	0.	0.	-92.	-2047.	-280.	-391.	-198.	-168.	-139.	98.	-3216.
ACCUMULATED	5	0.	0.	-92.	-2138.	-2418.	-2809.	-3007.	-3175.	-3314.	-3216.	-20170.

	11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL	
SOURCES	5	123.	122.	121.	120.	119.	119.	119.	119.	119.	1200.	
NET OPE. PROFIT	5	30.	37.	41.	48.	54.	59.	62.	67.	70.	543.	
DEPRECIATION	5	93.	85.	78.	72.	65.	60.	57.	52.	49.	657.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	49.	38.	38.	38.	38.	38.	38.	38.	38.	391.	
INVESTMENTS	5	49.	38.	38.	38.	38.	38.	38.	38.	38.	391.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	74.	84.	83.	82.	81.	81.	81.	81.	81.	810.	
ACCUMULATED	5	-3142.	-3058.	-2975.	-2893.	-2812.	-2731.	-2650.	-2569.	-2488.	-2406.	-27722.

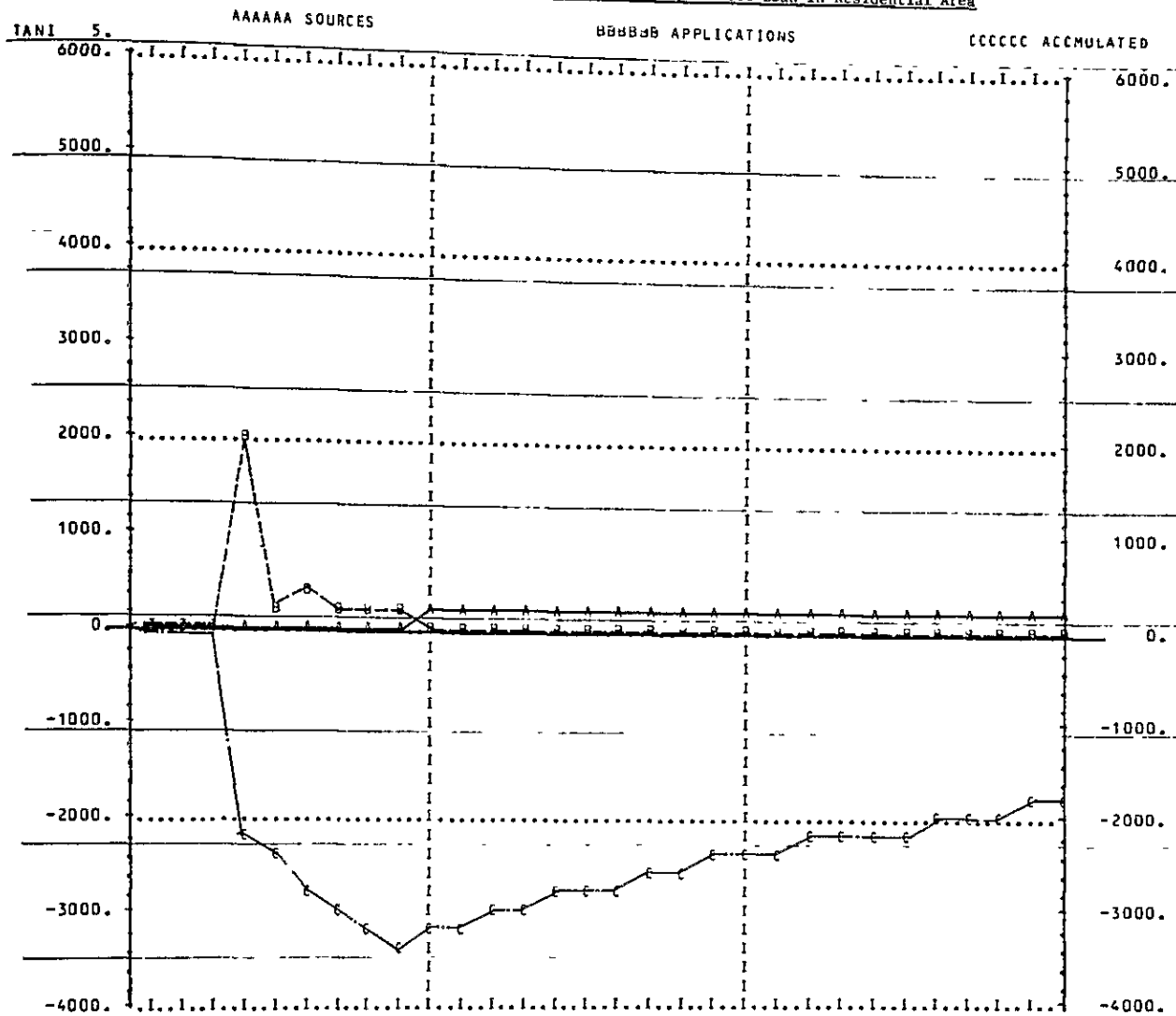
	21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL	
SOURCES	5	111.	111.	111.	111.	111.	111.	111.	111.	111.	1110.	2605.	
NET OPE. PROFIT	5	66.	67.	67.	66.	67.	66.	66.	66.	64.	661.	991.	
DEPRECIATION	5	45.	44.	44.	45.	44.	45.	45.	45.	47.	449.	1614.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	64.	49.	49.	49.	49.	49.	49.	49.	49.	510.	4411.	
INVESTMENTS	5	64.	49.	49.	49.	49.	49.	49.	49.	49.	510.	4411.	
DEBT SERVICES	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
BALANCE BY YEAR	5	47.	62.	62.	62.	62.	62.	62.	62.	62.	601.	-1806.	
ACCUMULATED	5	-2360.	-2298.	-2237.	-2175.	-2114.	-2052.	-1991.	-1929.	-1868.	-1806.	-20829.	-68721.

*** PROFIT LOSS STATEMENT *** f-2, Excluding Water Supply System, without Loan in Residential Area



1977, 1979, 1981, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005.
1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006.

*** FINANCIAL CASH FLOW GRAPH *** f-3, Excluding Water Supply System, without Loan in Residential Area

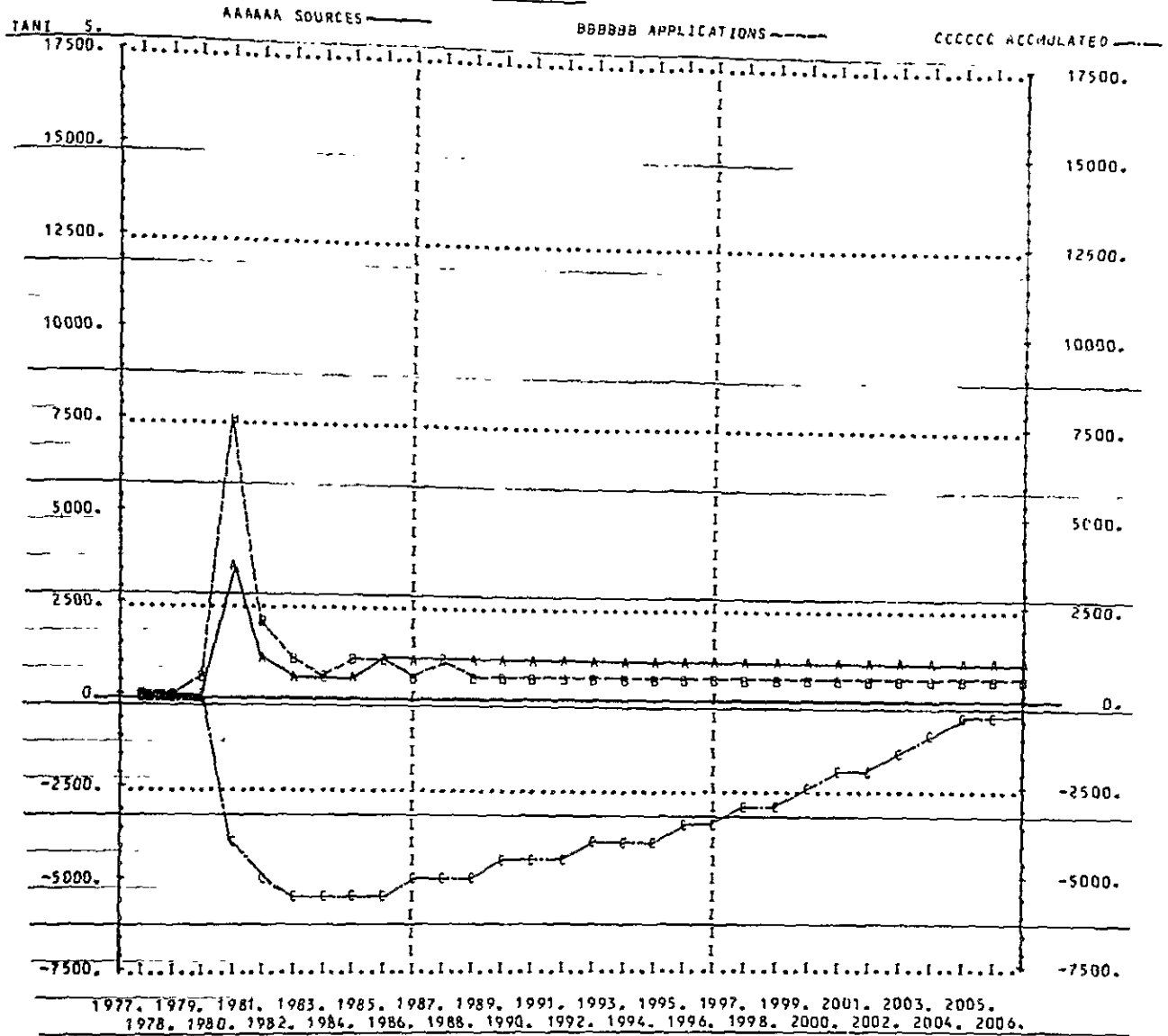


1977, 1979, 1981, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005,
1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006.

*** FINANCIAL CASH FLOW *** g-1, Base Case, with Loan

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL		
SOURCES	5	0.	0.	135.	3684.	902.	665.	566.	229.	820.	855.	8357.	
NET OPE. PROFIT	5	0.	0.	-30.	-19.	-173.	-41.	39.	178.	265.	479.	698.	
DEPRECIATION	5	0.	0.	0.	0.	304.	349.	374.	360.	363.	351.	2101.	
LOANS	5	0.	0.	165.	3703.	771.	357.	153.	191.	192.	25.	5558.	
APPLICATIONS	5	0.	0.	330.	7419.	1833.	1062.	681.	769.	785.	464.	13344.	
INVESTMENTS	5	0.	0.	330.	7407.	1543.	714.	307.	382.	385.	49.	11117.	
DEBT SERVICES	5	0.	0.	0.	12.	290.	348.	375.	386.	401.	415.	2227.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	12.	290.	348.	375.	386.	401.	415.	2227.	
BALANCE BY YEAR	5	0.	0.	-195.	-5735.	-930.	-397.	-115.	-39.	35.	390.	-4986.	
ACCUMULATED	5	0.	0.	-195.	-1930.	-4860.	-7257.	-5372.	-5412.	-5377.	-4986.	-35389.	
		11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL	
SOURCES	5	839.	838.	837.	836.	835.	834.	834.	834.	834.	834.	8355.	
NET OPE. PROFIT	5	515.	537.	555.	571.	587.	604.	617.	631.	642.	652.	5911.	
DEPRECIATION	5	324.	301.	282.	265.	245.	230.	217.	201.	192.	182.	2444.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	773.	737.	716.	696.	675.	654.	633.	612.	591.	570.	6657.	
INVESTMENTS	5	78.	63.	63.	63.	63.	63.	63.	63.	63.	63.	648.	
DEBT SERVICES	5	675.	674.	652.	632.	611.	591.	570.	549.	526.	507.	6010.	
LOAN REPAYMENT	5	278.	278.	278.	278.	278.	278.	278.	278.	278.	278.	2779.	
INTEREST PAYMENT	5	417.	396.	375.	354.	333.	313.	292.	271.	250.	229.	3231.	
BALANCE BY YEAR	5	56.	101.	121.	140.	167.	180.	201.	223.	243.	264.	1698.	
ACCUMULATED	5	-4929.	-4820.	-4699.	-4558.	-4398.	-4218.	-4017.	-3795.	-3552.	-3289.	-42266.	
		21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL
SOURCES	5	820.	820.	820.	820.	820.	820.	820.	820.	820.	820.	8200.	24912.
NET OPE. PROFIT	5	645.	652.	657.	659.	663.	667.	670.	674.	676.	678.	6641.	13250.
DEPRECIATION	5	175.	168.	163.	161.	157.	153.	150.	146.	144.	142.	1559.	6104.
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5558.
APPLICATIONS	5	589.	548.	527.	507.	486.	465.	444.	423.	402.	382.	4774.	24775.
INVESTMENTS	5	103.	83.	83.	83.	83.	83.	83.	83.	83.	83.	848.	12612.
DEBT SERVICES	5	486.	466.	445.	424.	403.	382.	361.	340.	320.	299.	3926.	12162.
LOAN REPAYMENT	5	278.	278.	278.	278.	278.	278.	278.	278.	278.	278.	2779.	5558.
INTEREST PAYMENT	5	208.	185.	167.	146.	125.	104.	83.	63.	42.	21.	1146.	6604.
BALANCE BY YEAR	5	231.	272.	293.	313.	334.	355.	376.	397.	418.	438.	3426.	158.
ACCUMULATED	5	-3058.	-2786.	-2494.	-2180.	-1846.	-1491.	-1115.	-718.	-301.	138.	-13831.	-93506.

*** FINANCIAL CASH FLOW GRAPH *** g-2, Base Case, with Loan



SIMPLE VERSION 0

PATIATA PROJECT

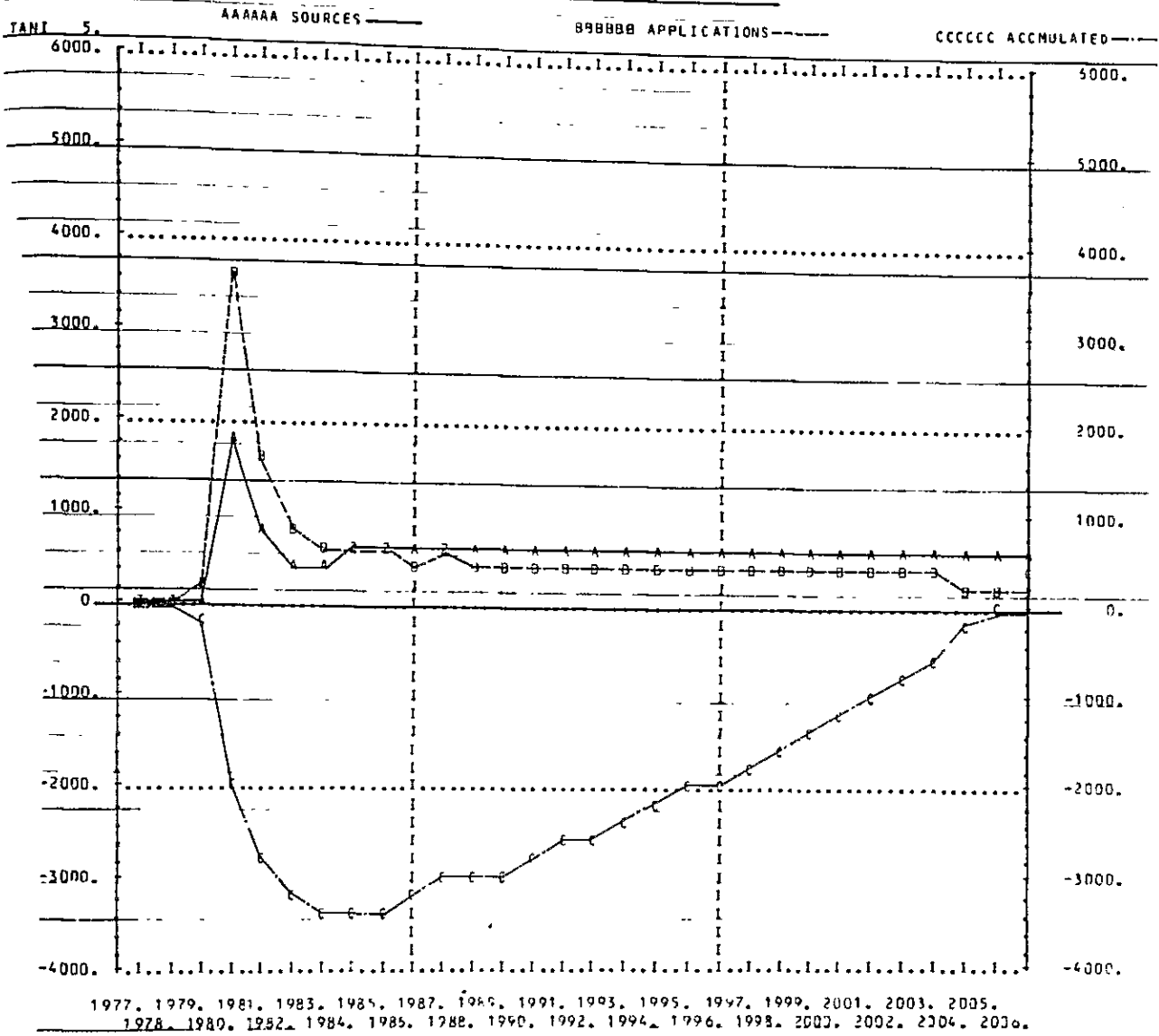
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*** FINANCIAL CASH FLOW *** h-1, Excluding Water Supply System, with Loan

	1(1977)	2(1978)	3(1979)	4(1980)	5(1981)	6(1982)	7(1983)	8(1984)	9(1985)	10(1986)	SUBTOTAL		
SOURCES	5	0.	0.	69.	1816.	803.	481.	357.	509.	587.	595.	5217.	c
NET OPE. PROFIT	5	0.	0.	-22.	-8.	-73.	-34.	-2.	114.	187.	358.	520.	
DEPRECIATION	5	0.	0.	0.	0.	131.	183.	215.	209.	220.	215.	1173.	
LOANS	5	0.	0.	91.	1824.	745.	332.	144.	186.	180.	22.	3524.	
APPLICATIONS	5	0.	0.	182.	3655.	1634.	866.	512.	607.	609.	306.	8369.	
INVESTMENTS	5	0.	0.	162.	3648.	1491.	665.	287.	372.	359.	44.	7048.	
DEBT SERVICES	5	0.	0.	0.	7.	144.	200.	224.	235.	249.	253.	1321.	
LOAN REPAYMENT	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
INTEREST PAYMENT	5	0.	0.	0.	7.	144.	200.	224.	235.	249.	261.	1321.	
BALANCE BY YEAR	5	0.	0.	-113.	-1837.	-831.	-383.	-155.	-98.	-22.	219.	-3152.	
ACCUMULATED	5	0.	0.	-113.	-1952.	-2783.	-3165.	-3321.	-3419.	-3441.	-3152.	-21346.	
	11(1987)	12(1988)	13(1989)	14(1990)	15(1991)	16(1992)	17(1993)	18(1994)	19(1995)	20(1996)	SUBTOTAL		
SOURCES	5	576.	573.	572.	571.	570.	569.	569.	569.	569.	569.	5705.	
NET OPE. PROFIT	5	378.	193.	404.	415.	426.	435.	443.	451.	458.	464.	4267.	
DEPRECIATION	5	196.	180.	158.	156.	144.	134.	126.	118.	111.	105.	1438.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
APPLICATIONS	5	519.	491.	477.	464.	451.	438.	424.	411.	398.	385.	4458.	
INVESTMENTS	5	78.	63.	63.	63.	63.	63.	63.	63.	63.	63.	648.	
DEBT SERVICES	5	440.	427.	414.	401.	388.	374.	361.	349.	335.	322.	3810.	
LOAN REPAYMENT	5	176.	176.	176.	176.	176.	176.	176.	176.	176.	176.	1762.	
INTEREST PAYMENT	5	264.	251.	238.	225.	211.	198.	185.	172.	159.	145.	2048.	
BALANCE BY YEAR	5	55.	92.	95.	107.	119.	131.	145.	158.	171.	184.	1247.	
ACCUMULATED	5	-3097.	-3015.	-2920.	-2813.	-2694.	-2562.	-2418.	-2260.	-2089.	-1925.	-25773.	
	21(1997)	22(1998)	23(1999)	24(2000)	25(2001)	26(2002)	27(2003)	28(2004)	29(2005)	30(2006)	SUBTOTAL	TOTAL	
SOURCES	5	555.	555.	555.	555.	555.	555.	555.	555.	555.	5550.	16472.	
NET OPE. PROFIT	5	453.	456.	457.	455.	456.	456.	457.	456.	456.	4558.	9345.	
DEPRECIATION	5	102.	99.	98.	100.	99.	99.	99.	98.	99.	992.	3603.	
LOANS	5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3524.	
APPLICATIONS	5	411.	378.	365.	351.	338.	325.	312.	299.	285.	272.	3337.	16164.
INVESTMENTS	5	103.	83.	83.	83.	83.	83.	83.	83.	83.	83.	848.	8543.
DEBT SERVICES	5	308.	295.	282.	269.	255.	242.	229.	216.	203.	189.	2489.	7620.
LOAN REPAYMENT	5	176.	176.	176.	176.	176.	176.	176.	176.	176.	176.	1762.	3524.
INTEREST PAYMENT	5	132.	119.	106.	93.	79.	66.	53.	40.	26.	13.	727.	4096.
BALANCE BY YEAR	5	144.	177.	190.	204.	217.	230.	243.	256.	270.	283.	2213.	308.
ACCUMULATED	5	-1761.	-1584.	-1394.	-1190.	-974.	-744.	-500.	-244.	26.	308.	-8057.	-55176.

*** FINANCIAL CASH FLOW GRAPH *** h-2, Excluding Water Supply System, with Loan



YEAR	GROSS-OPER PROFIT (I)	LOANS (H)	CASH INFLOW (K) (+H)	INVESTMENT COST (A + J)	DEBT SERVICE (M)	CASH OUTFLOW (Y=A+B+M)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET		VALUE 8.00 %	10.00 %
									3.00 %	5.00 %		
1977	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	3.	3.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	3.
1979	-30.	165.	135.	330.	0.	330.	-195.	-195.	-178.	-168.	-155.	-147.
1980	-19.	170.	1485.	2407.	0.	2407.	-3723.	-3918.	-5307.	-5063.	-2736.	-2543.
1981	131.	271.	902.	1542.	0.	1542.	-640.	-4558.	-552.	-501.	-436.	-397.
1982	308.	257.	655.	714.	0.	714.	-49.	-4607.	-41.	-37.	-31.	-28.
1983	413.	154.	567.	307.	0.	307.	260.	-4347.	211.	184.	151.	133.
1984	579.	191.	729.	382.	0.	382.	347.	-4000.	274.	235.	187.	162.
1985	679.	193.	821.	385.	0.	385.	436.	-3565.	334.	281.	218.	185.
1986	939.	25.	855.	50.	0.	50.	805.	-2760.	599.	494.	373.	310.
1987	839.	0.	839.	78.	278.	156.	481.	-2276.	349.	282.	207.	169.
1988	839.	0.	838.	61.	278.	141.	497.	-1779.	349.	277.	197.	158.
1989	837.	0.	837.	63.	278.	141.	496.	-1283.	338.	263.	182.	144.
1990	836.	0.	836.	61.	278.	141.	495.	-788.	327.	250.	169.	130.
1991	835.	0.	835.	63.	278.	141.	494.	-294.	317.	238.	156.	118.
1992	834.	0.	834.	65.	278.	141.	493.	199.	307.	226.	144.	107.
1993	834.	0.	834.	63.	278.	141.	493.	692.	294.	215.	133.	98.
1994	834.	0.	834.	63.	278.	141.	493.	1185.	290.	205.	123.	89.
1995	834.	0.	834.	63.	278.	141.	493.	1678.	281.	195.	114.	81.
1996	834.	0.	834.	63.	278.	141.	493.	2171.	273.	186.	105.	73.
1997	820.	0.	820.	102.	278.	380.	440.	2611.	237.	158.	57.	59.
1998	820.	0.	820.	87.	278.	360.	460.	3071.	240.	157.	85.	57.
1999	820.	0.	820.	82.	278.	360.	460.	3531.	233.	150.	78.	51.
2000	820.	0.	820.	82.	278.	360.	460.	3992.	226.	143.	73.	47.
2001	820.	0.	820.	82.	278.	360.	460.	4452.	220.	136.	67.	42.
2002	820.	0.	820.	82.	278.	360.	460.	4912.	213.	129.	62.	39.
2003	820.	0.	820.	82.	278.	360.	460.	5372.	207.	123.	58.	35.
2004	820.	0.	820.	82.	278.	360.	460.	5832.	201.	117.	53.	32.
2005	820.	0.	820.	82.	278.	360.	460.	6292.	195.	112.	49.	29.
2006	820.	0.	820.	82.	278.	360.	460.	6752.	190.	106.	46.	26.
1935c.	\$559.	\$559.	24913.	12602.	5556.	18161.	6752.	18373.	2630.	1094.	-238.	-719.

**FINANCIAL-CASH-FLOW ** 1-2, Base Case, with Loan and Government Subsidy

(100,000 BANT)

YEAR	GROSS-OPER PROFIT (1)	LOANS (N)	CASH INFLOW (X=I+M)	INVESTMENT COST (A+B)	DEBT SERVICE (U)	CASH OUTFLOW (Y=A+B+U)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	91.	69.	182.	0.	182.	-113.	-113.	-103.	-98.	-92.	-85.
1980	-8.	1825.	1817.	3649.	0.	3649.	-1833.	-1946.	-1628.	-1508.	-1347.	-1252.
1981	58.	746.	804.	1491.	0.	1491.	-888.	-2633.	-593.	-539.	-468.	-427.
1982	149.	333.	482.	665.	0.	665.	-184.	-2817.	-154.	-137.	-116.	-104.
1983	213.	144.	357.	287.	0.	287.	70.	-2747.	57.	49.	41.	36.
1984	323.	186.	509.	372.	0.	372.	137.	-2610.	108.	93.	74.	64.
1985	407.	180.	587.	359.	0.	359.	228.	-2383.	174.	147.	114.	96.
1986	573.	22.	595.	44.	0.	44.	551.	-1832.	410.	338.	255.	212.
1987	574.	0.	574.	78.	176.	254.	320.	-1512.	231.	187.	157.	112.
1988	573.	0.	573.	63.	176.	239.	354.	-1178.	234.	186.	133.	106.
1989	572.	0.	572.	63.	176.	239.	333.	-845.	227.	176.	122.	96.
1990	571.	0.	571.	63.	176.	239.	332.	-513.	219.	168.	113.	87.
1991	570.	0.	570.	63.	176.	239.	331.	-183.	212.	159.	104.	79.
1992	569.	0.	569.	63.	176.	239.	330.	147.	206.	151.	95.	72.
1993	569.	0.	569.	63.	176.	239.	330.	477.	200.	144.	89.	65.
1994	569.	0.	569.	63.	176.	239.	330.	807.	194.	137.	83.	59.
1995	569.	0.	569.	63.	176.	239.	330.	1136.	188.	131.	76.	49.
1996	569.	0.	569.	63.	176.	239.	330.	1466.	183.	124.	71.	49.
1997	555.	0.	555.	102.	176.	278.	277.	1743.	149.	99.	55.	37.
1998	555.	0.	555.	82.	176.	258.	297.	2040.	155.	101.	55.	36.
1999	555.	0.	555.	82.	176.	258.	297.	2337.	150.	97.	51.	33.
2000	555.	0.	555.	82.	176.	258.	297.	2633.	146.	92.	47.	30.
2001	555.	0.	555.	82.	176.	258.	297.	2930.	142.	88.	43.	27.
2002	555.	0.	555.	82.	176.	258.	297.	3227.	138.	83.	40.	25.
2003	555.	0.	555.	82.	176.	258.	297.	3524.	134.	79.	37.	23.
2004	555.	0.	555.	82.	176.	258.	297.	3820.	130.	74.	34.	21.
2005	555.	0.	555.	82.	176.	258.	297.	4117.	126.	72.	32.	19.
2006	555.	0.	555.	82.	176.	258.	297.	4414.	122.	69.	29.	17.
	12948.	3525.	16473.	8534.	3525.	12058.	4414.	13509.	1754.	765.	-89.	-609.

2. Sensitivity Tests in Financial Analysis

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-a-1. Sensitivity Test. Base Case. without Loan

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+3)	DEBT SERVICE (M)	CASH OUTFLOW (Y=A+B+D)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	0.	-30.	330.	0.	330.	-360.	-360.	-329.	-311.	-286.	-270.
1980	-19.	0.	-19.	7407.	0.	7407.	-7426.	-7786.	-6598.	-6109.	-5458.	-5072.
1981	131.	0.	131.	1542.	0.	1542.	-1411.	-9197.	-1217.	-1106.	-957.	-876.
1982	308.	0.	308.	714.	0.	714.	-406.	-9603.	-340.	-303.	-256.	-229.
1983	413.	0.	413.	307.	0.	307.	106.	-9497.	86.	75.	62.	54.
1984	538.	0.	538.	382.	0.	382.	156.	-9347.	123.	106.	84.	73.
1985	628.	0.	628.	385.	0.	385.	243.	-9098.	186.	157.	122.	103.
1986	830.	0.	830.	50.	0.	50.	790.	-8518.	580.	479.	361.	301.
1987	839.	0.	839.	78.	0.	78.	761.	-7557.	550.	445.	326.	267.
1988	838.	0.	838.	63.	0.	63.	775.	-6782.	544.	432.	308.	247.
1989	837.	0.	837.	63.	0.	63.	774.	-6008.	527.	410.	285.	224.
1990	836.	0.	836.	63.	0.	63.	773.	-5235.	527.	390.	263.	204.
1991	835.	0.	835.	63.	0.	63.	772.	-4463.	496.	371.	243.	185.
1992	834.	0.	834.	63.	0.	63.	771.	-3692.	480.	353.	225.	168.
1993	834.	0.	834.	63.	0.	63.	771.	-2921.	466.	336.	208.	153.
1994	834.	0.	834.	63.	0.	63.	771.	-2150.	453.	320.	193.	139.
1995	834.	0.	834.	63.	0.	63.	771.	-1379.	440.	305.	179.	126.
1996	834.	0.	834.	63.	0.	63.	771.	-608.	427.	291.	165.	115.
1997	820.	0.	820.	102.	0.	102.	718.	110.	388.	258.	143.	97.
1998	820.	0.	820.	82.	0.	82.	738.	848.	385.	252.	136.	91.
1999	820.	0.	820.	82.	0.	82.	738.	1585.	374.	240.	126.	82.
2000	820.	0.	820.	82.	0.	82.	738.	2324.	374.	240.	126.	82.
2001	820.	0.	820.	82.	0.	82.	738.	3062.	363.	229.	116.	75.
2002	820.	0.	820.	82.	0.	82.	738.	3800.	352.	218.	108.	68.
2003	820.	0.	820.	82.	0.	82.	738.	4538.	342.	208.	100.	62.
2004	820.	0.	820.	82.	0.	82.	738.	5276.	332.	198.	92.	56.
2005	820.	0.	820.	82.	0.	82.	738.	6014.	323.	188.	86.	51.
2006	820.	0.	820.	82.	0.	82.	738.	6752.	313.	179.	79.	47.
	19354.	0.	19354.	12602.	0.	12602.	6752.	-69685.	860.	-1218.	-2877.	-3420.

**FINANCIAL-CASH-FLOW ** 2-a-2 Sensitivity Test, without Loan, +10% Construction Costs

(100,000 BAHT)

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X-I +N)	INVESTMENT COST (A + B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	0.	-30.	363.	0.	363.	-393.	-393.	-360.	-339.	-312.	-295.
1980	-21.	0.	-21.	8028.	0.	8028.	-8049.	-8442.	-7151.	-6622.	-5916.	-5498.
1981	122.	0.	122.	1638.	0.	1638.	-1516.	-9958.	-1308.	-1188.	-1032.	-941.
1982	298.	0.	298.	769.	0.	769.	-471.	-10429.	-594.	-551.	-297.	-266.
1983	403.	0.	403.	326.	0.	326.	77.	-10352.	63.	55.	65.	40.
1984	528.	0.	528.	407.	0.	407.	121.	-10231.	96.	82.	65.	56.
1985	617.	0.	617.	422.	0.	422.	195.	-10036.	149.	126.	98.	83.
1986	818.	0.	818.	55.	0.	55.	763.	-9273.	568.	468.	353.	294.
1987	826.	0.	826.	84.	0.	84.	742.	-8531.	536.	434.	318.	260.
1988	825.	0.	825.	69.	0.	69.	756.	-7775.	530.	421.	300.	241.
1989	824.	0.	824.	69.	0.	69.	755.	-7020.	514.	400.	278.	219.
1990	823.	0.	823.	69.	0.	69.	754.	-6266.	498.	381.	257.	199.
1991	821.	0.	821.	69.	0.	69.	752.	-5514.	483.	362.	237.	180.
1992	820.	0.	820.	69.	0.	69.	751.	-4763.	468.	344.	219.	163.
1993	820.	0.	820.	69.	0.	69.	751.	-4012.	454.	328.	203.	149.
1994	820.	0.	820.	69.	0.	69.	751.	-3261.	441.	312.	188.	135.
1995	820.	0.	820.	69.	0.	69.	751.	-2510.	428.	297.	174.	123.
1996	820.	0.	820.	69.	0.	69.	751.	-1759.	416.	283.	161.	112.
1997	805.	0.	805.	110.	0.	110.	695.	-1064.	374.	249.	138.	94.
1998	805.	0.	805.	90.	0.	90.	715.	-349.	373.	244.	132.	88.
1999	805.	0.	805.	90.	0.	90.	715.	366.	362.	233.	122.	80.
2000	805.	0.	805.	90.	0.	90.	715.	1081.	352.	222.	113.	73.
2001	805.	0.	805.	90.	0.	90.	715.	1796.	341.	211.	104.	66.
2002	805.	0.	805.	90.	0.	90.	715.	2511.	332.	201.	97.	60.
2003	805.	0.	805.	90.	0.	90.	715.	3226.	322.	192.	90.	55.
2004	805.	0.	805.	90.	0.	90.	715.	3941.	313.	182.	83.	50.
2005	805.	0.	805.	90.	0.	90.	715.	4656.	303.	174.	77.	45.
2006	19004.	0.	19004.	13633.	0.	13633.	5371.	-98990.	295.	165.	71.	41.
									-203.	-2135.	-3635.	-4097.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-a-3, Sensitivity Test, without Loan, -10% Construction Costs

YEAR	GROSS- PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 5.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	0.	-30.	297.	0.	297.	-327.	-327.	-282.	-260.	-246.	-246.
1980	-17.	0.	-17.	6786.	0.	6786.	-6803.	-7130.	-6044.	-5597.	-5000.	-4647.
1981	140.	0.	140.	1446.	0.	1446.	-1306.	-8436.	-1127.	-1023.	-889.	-811.
1982	318.	0.	318.	659.	0.	659.	-341.	-8777.	-286.	-254.	-192.	-192.
1983	423.	0.	423.	288.	0.	288.	135.	-8642.	110.	96.	79.	69.
1984	548.	0.	548.	357.	0.	357.	191.	-8451.	151.	129.	103.	89.
1985	639.	0.	639.	348.	0.	348.	291.	-8160.	223.	188.	145.	123.
1986	842.	0.	842.	45.	0.	45.	797.	-7363.	563.	456.	369.	307.
1987	852.	0.	852.	72.	0.	72.	780.	-6583.	557.	442.	335.	273.
1988	851.	0.	851.	57.	0.	57.	794.	-5789.	557.	442.	315.	253.
1989	850.	0.	850.	57.	0.	57.	793.	-4996.	540.	421.	292.	230.
1990	849.	0.	849.	57.	0.	57.	792.	-4204.	526.	400.	270.	209.
1991	848.	0.	848.	57.	0.	57.	791.	-3413.	508.	380.	249.	189.
1992	848.	0.	848.	57.	0.	57.	791.	-2622.	493.	362.	231.	172.
1993	848.	0.	848.	57.	0.	57.	791.	-1831.	479.	345.	214.	156.
1994	848.	0.	848.	57.	0.	57.	791.	-1040.	465.	329.	198.	142.
1995	848.	0.	848.	57.	0.	57.	791.	-249.	451.	313.	183.	129.
1996	848.	0.	848.	57.	0.	57.	791.	542.	438.	298.	170.	118.
1997	835.	0.	835.	94.	0.	94.	741.	1283.	398.	266.	147.	100.
1998	835.	0.	835.	74.	0.	74.	761.	2044.	397.	260.	140.	93.
1999	835.	0.	835.	74.	0.	74.	761.	2805.	386.	248.	130.	85.
2000	835.	0.	835.	74.	0.	74.	761.	3566.	374.	236.	120.	77.
2001	835.	0.	835.	74.	0.	74.	761.	4327.	363.	225.	111.	70.
2002	835.	0.	835.	74.	0.	74.	761.	5088.	353.	214.	103.	64.
2003	835.	0.	835.	74.	0.	74.	761.	5849.	343.	204.	95.	58.
2004	835.	0.	835.	74.	0.	74.	761.	6610.	333.	194.	88.	53.
2005	835.	0.	835.	74.	0.	74.	761.	7371.	323.	185.	82.	48.
2006	835.	0.	835.	74.	0.	74.	761.	8132.	316.	176.	76.	44.
	19703.	0.	19703.	11571.	0.	11571.	8132.	-40396.	1921.	-301.	-2119.	-2742.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-a-4, Sensitivity Test, without Loan, +10% Revenue

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + H)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z= X -Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	0.	-30.	330.	0.	330.	-360.	-360.	-329.	-311.	-286.	-270.
1980	-16.	0.	-16.	7407.	0.	7407.	-7423.	-7783.	-6595.	-6107.	-5456.	-5070.
1981	158.	0.	158.	1542.	0.	1542.	-1384.	-9167.	-1194.	-1084.	-948.	-859.
1982	354.	0.	354.	714.	0.	714.	-360.	-9527.	-301.	-269.	-227.	-203.
1983	470.	0.	470.	307.	0.	307.	163.	-9364.	133.	116.	95.	84.
1984	608.	0.	608.	382.	0.	382.	226.	-9138.	178.	153.	122.	105.
1985	707.	0.	707.	385.	0.	385.	322.	-8816.	247.	208.	161.	137.
1986	930.	0.	930.	50.	0.	50.	880.	-7936.	655.	540.	408.	339.
1987	939.	0.	939.	78.	0.	78.	861.	-7075.	622.	503.	369.	302.
1988	938.	0.	938.	63.	0.	63.	875.	-6200.	614.	487.	347.	279.
1989	937.	0.	937.	63.	0.	63.	874.	-5226.	595.	464.	321.	253.
1990	936.	0.	936.	63.	0.	63.	873.	-4453.	577.	441.	297.	230.
1991	935.	0.	935.	63.	0.	63.	872.	-3581.	560.	419.	275.	209.
1992	934.	0.	934.	63.	0.	63.	871.	-2710.	543.	399.	254.	190.
1993	934.	0.	934.	63.	0.	63.	871.	-1839.	527.	380.	235.	172.
1994	934.	0.	934.	63.	0.	63.	871.	-968.	512.	362.	218.	157.
1995	934.	0.	934.	63.	0.	63.	871.	-97.	497.	345.	202.	142.
1996	934.	0.	934.	63.	0.	63.	871.	774.	482.	328.	187.	129.
1997	920.	0.	920.	102.	0.	102.	818.	1592.	440.	294.	163.	111.
1998	920.	0.	920.	82.	0.	82.	838.	2430.	437.	286.	154.	103.
1999	920.	0.	920.	82.	0.	82.	838.	3268.	425.	273.	143.	94.
2000	920.	0.	920.	82.	0.	82.	838.	4106.	412.	260.	132.	85.
2001	920.	0.	920.	82.	0.	82.	838.	4944.	400.	247.	122.	77.
2002	920.	0.	920.	82.	0.	82.	838.	5782.	389.	236.	113.	70.
2003	920.	0.	920.	82.	0.	82.	838.	6620.	377.	224.	105.	64.
2004	920.	0.	920.	82.	0.	82.	838.	7458.	366.	214.	97.	58.
2005	920.	0.	920.	82.	0.	82.	838.	8296.	356.	204.	90.	53.
2006	920.	0.	920.	82.	0.	82.	838.	9134.	345.	194.	83.	48.
	21736.	0.	21736.	12602.	0.	12602.	9134.	-39936.	2268.	-194.	-2215.	-2913.

(100,000 BAHT)

FINANCIAL-CASH-FLOW 2-a-5, Sensitivity Test, without Loan, -10% Revenue

YEAR	GROSS-OPRE PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (J)	CASH OUTFLOW (Y=A+B+J)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0
1979	-30	0	-30	330	0	330	-360	-360	-329	-311	-286	-270
1980	-22	0	-22	7407	0	7407	-7789	-7789	-6601	-6112	-5461	-5074
1981	105	0	105	1342	0	1542	-1437	-9226	-1240	-1126	-978	-892
1982	262	0	262	714	0	714	-452	-9678	-379	-337	-285	-255
1983	356	0	356	307	0	307	49	-9629	40	35	29	25
1984	468	0	468	382	0	382	86	-9543	68	58	46	40
1985	549	0	549	385	0	385	164	-9379	125	106	92	70
1986	730	0	730	50	0	50	680	-8099	206	177	144	110
1987	739	0	739	78	0	78	675	-8038	478	386	283	232
1988	738	0	738	63	0	63	674	-7363	459	357	248	195
1989	737	0	737	63	0	63	672	-6689	445	340	229	177
1990	736	0	736	63	0	63	671	-6016	431	323	212	161
1991	735	0	735	63	0	63	670	-5344	418	307	193	146
1992	734	0	734	63	0	63	671	-4673	405	293	181	133
1993	734	0	734	63	0	63	671	-4002	394	279	168	121
1994	734	0	734	63	0	63	671	-3331	382	266	155	110
1995	734	0	734	63	0	63	671	-2660	372	253	144	100
1996	734	0	734	63	0	63	671	-1989	352	222	123	84
1997	720	0	720	102	0	102	618	-1371	333	218	117	78
1998	720	0	720	82	0	82	638	-735	323	208	109	71
1999	720	0	720	82	0	82	638	-95	314	198	101	65
2000	720	0	720	82	0	82	638	543	305	188	93	59
2001	720	0	720	82	0	82	638	1181	295	179	86	54
2002	720	0	720	82	0	82	638	1819	287	171	80	49
2003	720	0	720	82	0	82	638	2457	279	163	74	44
2004	720	0	720	82	0	82	638	3095	271	155	68	40
2005	720	0	720	82	0	82	638	3733	263	148	63	37
2006	720	0	720	82	0	82	638	4371	256	140	58	34
	1673	0	1673	1202	0	1202	4371	-99408	-568	-2240	-3538	-3926

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-b-1. Sensitivity Test, with Loan, Base Case

YEAR	GROSS-OPE PROFIT (L)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 5.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	165.	135.	330.	0.	330.	-195.	-195.	0.	0.	0.	0.
1980	-19.	370.	365.	740.	12.	7419.	-3735.	-3930.	-178.	-168.	-155.	-147.
1981	131.	771.	902.	1542.	290.	1832.	-930.	-4860.	-3318.	-3073.	-2745.	-2551.
1982	308.	357.	665.	714.	348.	1062.	-397.	-5257.	-802.	-729.	-633.	-578.
1983	413.	154.	567.	307.	375.	682.	-115.	-5372.	-332.	-296.	-250.	-224.
1984	538.	191.	729.	382.	386.	768.	-39.	-5411.	-94.	-82.	-67.	-59.
1985	628.	193.	821.	385.	401.	786.	35.	-5377.	-31.	-27.	-21.	-18.
1986	830.	25.	855.	50.	415.	465.	390.	-4987.	27.	23.	17.	15.
1987	839.	0.	839.	78.	695.	773.	66.	-4920.	290.	239.	181.	150.
1988	838.	0.	838.	63.	674.	737.	101.	-4819.	4d.	39.	28.	23.
1989	837.	0.	837.	63.	653.	716.	121.	-4698.	71.	56.	40.	32.
1990	836.	0.	836.	63.	632.	695.	141.	-4558.	82.	64.	44.	35.
1991	835.	0.	835.	63.	611.	674.	161.	-4397.	93.	71.	48.	37.
1992	834.	0.	834.	63.	591.	654.	180.	-4217.	103.	77.	51.	38.
1993	834.	0.	834.	63.	570.	633.	201.	-4016.	112.	83.	53.	39.
1994	834.	0.	834.	63.	549.	612.	222.	-3793.	122.	88.	54.	40.
1995	834.	0.	834.	63.	528.	591.	243.	-3550.	130.	92.	56.	40.
1996	834.	0.	834.	63.	507.	570.	264.	-3287.	139.	96.	56.	40.
1997	820.	0.	820.	102.	486.	588.	232.	-2783.	146.	99.	57.	39.
1998	820.	0.	820.	82.	466.	548.	272.	-2489.	125.	83.	46.	31.
1999	820.	0.	820.	82.	445.	527.	293.	-2175.	142.	93.	50.	33.
2000	820.	0.	820.	82.	424.	506.	314.	-1840.	149.	95.	50.	33.
2001	820.	0.	820.	82.	403.	485.	335.	-1484.	155.	97.	50.	32.
2002	820.	0.	820.	82.	382.	464.	356.	-1108.	160.	99.	49.	31.
2003	820.	0.	820.	82.	361.	443.	377.	-710.	165.	100.	48.	30.
2004	820.	0.	820.	82.	340.	422.	398.	-292.	170.	101.	47.	29.
2005	820.	0.	820.	82.	299.	402.	418.	148.	174.	101.	46.	28.
2006	820.	0.	820.	82.	299.	381.	439.	148.	178.	102.	45.	26.
	19354.	5559.	24913.	12802.	12163.	24763.	148.	-93432.	181.	102.	44.	25.
									-1796.	-2373.	-2712.	-2749.

**FINANCIAL-CASH-FLOW ** 2-b-s. Sensitivity Test, with Loan +10% Construction Costs

(100,000 BAHT)

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (C)	CASH OUTFLOW (Y=A+B+C)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	192.	152.	363.	0.	363.	-212.	-212.	-192.	-183.	-168.	-159.
1980	-21.	4014.	3993.	8028.	14.	8042.	-4049.	-4265.	-3597.	-3331.	-2976.	-2765.
1981	122.	819.	941.	1638.	315.	1953.	-1012.	-5272.	-873.	-793.	-689.	-628.
1982	298.	395.	683.	769.	376.	1145.	-463.	-5734.	-387.	-345.	-292.	-261.
1983	403.	163.	566.	326.	405.	731.	-165.	-5899.	-154.	-117.	-96.	-85.
1984	528.	204.	732.	407.	417.	824.	-93.	-5992.	-134.	-63.	-50.	-43.
1985	617.	211.	828.	422.	432.	854.	-26.	-6018.	-20.	-17.	-13.	-11.
1986	818.	28.	846.	55.	448.	503.	342.	-5676.	255.	210.	159.	132.
1987	826.	0.	826.	84.	751.	835.	-9.	-5685.	-6.	-5.	-4.	-3.
1988	828.	0.	828.	825.	728.	797.	23.	-5657.	20.	16.	11.	9.
1989	823.	0.	824.	69.	705.	774.	50.	-5607.	34.	26.	18.	14.
1990	823.	0.	823.	69.	683.	752.	71.	-5536.	47.	36.	24.	19.
1991	821.	0.	821.	69.	660.	729.	92.	-5444.	59.	44.	29.	22.
1992	820.	0.	820.	69.	638.	707.	113.	-5331.	70.	52.	33.	25.
1993	820.	0.	820.	69.	615.	684.	136.	-5196.	82.	59.	37.	27.
1994	820.	0.	820.	69.	593.	662.	158.	-5038.	93.	66.	40.	28.
1995	820.	0.	820.	69.	570.	639.	181.	-4857.	103.	71.	42.	30.
1996	820.	0.	820.	69.	548.	617.	203.	-4654.	112.	77.	44.	30.
1997	805.	0.	805.	110.	525.	635.	170.	-4484.	91.	61.	34.	23.
1998	805.	0.	805.	90.	503.	593.	212.	-4272.	111.	73.	39.	26.
1999	805.	0.	805.	90.	480.	570.	235.	-4037.	119.	76.	40.	26.
2000	805.	0.	805.	90.	458.	548.	257.	-3780.	127.	80.	41.	26.
2001	805.	0.	805.	90.	435.	525.	280.	-3501.	134.	83.	41.	26.
2002	805.	0.	805.	90.	413.	503.	302.	-3198.	140.	85.	41.	25.
2003	805.	0.	805.	90.	390.	480.	325.	-2874.	146.	87.	41.	25.
2004	805.	0.	805.	90.	368.	458.	347.	-2526.	152.	89.	40.	24.
2005	805.	0.	805.	90.	345.	435.	370.	-2157.	157.	90.	40.	23.
2006	805.	0.	805.	90.	323.	413.	392.	-1764.	162.	91.	39.	22.
	19004.	6004.	25008.	13633.	13139.	26772.	-1764.	-124661.	-3072.	-3383.	-3457.	-3373.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-b-3. Sensitivity Test, with Loan, -10% Construction Costs

YEAR	GROSS-OPR PROFIT (I)	LOANS (N)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X -Y)	ACCUMULATED BALANCE	NET 3.00 X	PRESENT 5.00 X	VALUE 8.00 X	10.00 X
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	297.	0.	297.	-179.	-179.	-163.	-154.	-142.	0.
1979	-30.	149.	119.	6786.	11.	6797.	-3421.	-3600.	-3040.	-2815.	-2515.	-2337.
1980	-17.	3393.	3376.	1466.	266.	1712.	-869.	-4448.	-732.	-665.	-578.	-527.
1981	140.	723.	863.	1466.	320.	979.	-331.	-4780.	-277.	-247.	-209.	-187.
1982	318.	330.	648.	659.	345.	633.	-66.	-4845.	-53.	-47.	-38.	-34.
1983	423.	144.	567.	288.	355.	712.	14.	-4831.	11.	10.	8.	7.
1984	548.	179.	727.	357.	369.	717.	96.	-4735.	74.	62.	48.	41.
1985	639.	174.	813.	348.	382.	427.	438.	-4297.	326.	269.	203.	169.
1986	842.	23.	865.	45.	639.	711.	141.	-4156.	102.	82.	60.	49.
1987	852.	0.	852.	72.	620.	677.	174.	-3982.	122.	97.	69.	55.
1988	851.	0.	851.	57.	601.	658.	193.	-3790.	131.	102.	71.	56.
1989	850.	0.	850.	57.	582.	639.	210.	-3579.	139.	106.	72.	55.
1990	849.	0.	849.	57.	562.	619.	229.	-3351.	147.	110.	72.	55.
1991	848.	0.	848.	57.	543.	600.	243.	-3103.	154.	113.	72.	54.
1992	848.	0.	848.	57.	524.	581.	267.	-2836.	161.	116.	72.	53.
1993	848.	0.	848.	57.	505.	562.	286.	-2550.	168.	119.	72.	51.
1994	848.	0.	848.	57.	486.	543.	305.	-2245.	174.	121.	71.	50.
1995	848.	0.	848.	57.	467.	524.	324.	-1920.	180.	122.	70.	48.
1996	848.	0.	848.	57.	447.	502.	344.	-1627.	186.	122.	68.	46.
1997	835.	0.	835.	74.	428.	483.	363.	-1294.	174.	114.	61.	41.
1998	835.	0.	835.	74.	409.	464.	382.	-942.	178.	115.	59.	39.
1999	835.	0.	835.	74.	390.	445.	401.	-571.	183.	115.	57.	38.
2000	835.	0.	835.	74.	371.	426.	420.	-181.	186.	115.	55.	36.
2001	835.	0.	835.	74.	352.	406.	439.	229.	190.	115.	54.	34.
2002	835.	0.	835.	74.	332.	387.	458.	657.	193.	114.	52.	33.
2003	835.	0.	835.	74.	294.	349.	496.	1105.	196.	113.	50.	31.
2004	835.	0.	835.	74.	275.	329.	515.	1572.	198.	112.	48.	29.
2005	835.	0.	835.	74.	255.	309.	535.	2058.	200.	112.	46.	28.
2006	835.	0.	835.	74.	235.	289.	555.	2584.	202.	112.	44.	26.
19703.		5113.	24816.	11571.	11137.	22753.	2059.	-62219.	-521.	-1364.	-1968.	-2126.

(100,000 BAHT)

2. FINANCIAL CASH FLOW ** 2-b-4, Sensitivity Test, with Loan, +10% Revenue

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	165.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	0.	135.	330.	0.	330.	-195.	-195.	-178.	-168.	-155.	-147.
1980	-16.	3704.	3688.	7407.	12.	7419.	-3732.	-3927.	-3316.	-3070.	-2743.	-2549.
1981	138.	771.	929.	1542.	290.	1832.	-903.	-4830.	-779.	-708.	-615.	-561.
1982	356.	357.	711.	714.	348.	1062.	-351.	-5181.	-294.	-262.	-221.	-198.
1983	470.	154.	624.	307.	375.	682.	-58.	-5239.	-47.	-41.	-34.	-30.
1984	608.	191.	799.	382.	386.	768.	31.	-5208.	24.	21.	17.	14.
1985	707.	193.	900.	385.	401.	786.	114.	-5095.	87.	73.	57.	48.
1986	930.	25.	955.	50.	415.	465.	490.	-4605.	365.	301.	227.	189.
1987	939.	0.	939.	78.	695.	773.	166.	-4438.	120.	97.	71.	58.
1988	938.	0.	938.	63.	674.	737.	201.	-4237.	141.	112.	80.	64.
1989	937.	0.	937.	63.	653.	716.	221.	-4016.	150.	117.	81.	64.
1990	936.	0.	936.	63.	632.	695.	241.	-3776.	159.	122.	82.	63.
1991	935.	0.	935.	63.	611.	674.	261.	-3515.	167.	125.	82.	62.
1992	934.	0.	934.	63.	591.	654.	280.	-3235.	175.	128.	82.	61.
1993	934.	0.	934.	63.	570.	633.	301.	-2934.	182.	131.	81.	60.
1994	934.	0.	934.	63.	549.	612.	322.	-2611.	189.	134.	81.	58.
1995	934.	0.	934.	63.	528.	591.	343.	-2268.	196.	136.	79.	56.
1996	934.	0.	934.	63.	507.	570.	364.	-1905.	201.	137.	78.	54.
1997	920.	0.	920.	102.	486.	588.	332.	-1573.	178.	119.	66.	45.
1998	920.	0.	920.	82.	466.	548.	372.	-1201.	194.	127.	69.	46.
1999	920.	0.	920.	82.	445.	527.	393.	-807.	199.	128.	67.	44.
2000	920.	0.	920.	82.	424.	506.	414.	-393.	204.	128.	65.	42.
2001	920.	0.	920.	82.	403.	485.	435.	42.	208.	128.	64.	40.
2002	920.	0.	920.	82.	382.	464.	456.	498.	211.	128.	62.	38.
2003	920.	0.	920.	82.	361.	443.	477.	974.	215.	128.	60.	36.
2004	920.	0.	920.	82.	340.	422.	498.	1472.	217.	127.	58.	35.
2005	920.	0.	920.	82.	320.	402.	518.	1990.	220.	126.	56.	33.
2006	920.	0.	920.	82.	299.	381.	539.	2530.	222.	125.	54.	31.
	2136.	559.	2795.	1262.	12163.	24765.	2530.	-65683.	-388.	-1350.	-2031.	-2242.

**FINANCIAL-CASH-FLOW ** 2-b-5, Sensitivity Test, with Loan, -10% Revenue

(100,000 BAHF)

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (*)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	165.	135.	330.	0.	330.	-195.	-195.	-168.	-155.	-147.	-147.
1980	-22.	370.	3682.	7407.	12.	7419.	-3732.	-3933.	-3321.	-3075.	-2747.	-2553.
1981	105.	771.	876.	1542.	290.	1832.	-956.	-4889.	-825.	-749.	-651.	-594.
1982	262.	357.	619.	714.	348.	1062.	-443.	-5332.	-371.	-331.	-279.	-250.
1983	356.	154.	510.	307.	375.	682.	-172.	-5504.	-140.	-122.	-100.	-88.
1984	468.	191.	659.	382.	386.	768.	-107.	-5613.	-86.	-74.	-59.	-51.
1985	549.	193.	742.	385.	401.	786.	-44.	-5658.	-34.	-28.	-22.	-19.
1986	730.	25.	755.	50.	415.	465.	290.	-5368.	216.	178.	134.	112.
1987	739.	0.	739.	78.	695.	773.	-34.	-5401.	-24.	-20.	-15.	-12.
1988	738.	0.	738.	63.	674.	737.	1.	-5400.	1.	1.	0.	0.
1989	737.	0.	737.	63.	653.	716.	21.	-5379.	14.	11.	8.	6.
1990	736.	0.	736.	63.	632.	695.	41.	-5339.	27.	21.	14.	11.
1991	735.	0.	735.	63.	611.	674.	61.	-5278.	39.	29.	19.	14.
1992	734.	0.	734.	63.	591.	654.	80.	-5198.	50.	37.	23.	17.
1993	734.	0.	734.	63.	570.	633.	101.	-5097.	61.	44.	27.	20.
1994	734.	0.	734.	63.	549.	612.	122.	-4976.	72.	51.	31.	22.
1995	734.	0.	734.	63.	528.	591.	143.	-4831.	82.	57.	33.	23.
1996	734.	0.	734.	63.	507.	570.	164.	-4668.	91.	62.	35.	24.
1997	720.	0.	720.	102.	486.	588.	132.	-4536.	71.	47.	26.	18.
1998	720.	0.	720.	82.	466.	548.	172.	-4364.	90.	59.	32.	21.
1999	720.	0.	720.	82.	445.	527.	193.	-4170.	98.	63.	33.	22.
2000	720.	0.	720.	82.	424.	506.	214.	-3956.	105.	66.	34.	22.
2001	720.	0.	720.	82.	403.	485.	235.	-3721.	112.	59.	34.	22.
2002	720.	0.	720.	82.	382.	464.	256.	-3465.	119.	52.	35.	21.
2003	720.	0.	720.	82.	361.	443.	277.	-3189.	125.	44.	35.	21.
2004	720.	0.	720.	82.	340.	422.	298.	-2891.	130.	36.	34.	21.
2005	720.	0.	720.	82.	320.	402.	318.	-2573.	135.	27.	34.	21.
2006	720.	0.	720.	82.	299.	381.	339.	-2233.	140.	18.	34.	19.
	16973.	5559.	22532.	12602.	12163.	24765.	-2233.	-123155.	-3204.	-3396.	-3373.	-3256.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-b-6. Sensitivity Test, with Loan, Interest Rate 7.5 + 1.0%

YEAR	GROSS- PROFIT (I)	LOANS (H)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z= X -Y)	ACCUMULATED BALANCE	NET 3.00 X	PRESENT 5.00 X	VALUE 8.00 X	10.00 X
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	165.	135.	330.	0.	330.	-195.	-195.	-168.	-155.	-147.	-147.
1980	-19.	3704.	3685.	7407.	14.	7421.	-3737.	-3932.	-3074.	-2746.	-2552.	-2552.
1981	131.	771.	902.	1542.	329.	1871.	-969.	-4900.	-836.	-759.	-659.	-602.
1982	308.	357.	665.	714.	394.	1108.	-443.	-5344.	-371.	-331.	-279.	-250.
1983	413.	154.	567.	307.	425.	732.	-165.	-5509.	-134.	-117.	-96.	-85.
1984	538.	191.	729.	382.	438.	820.	-91.	-5600.	-72.	-61.	-49.	-42.
1985	628.	193.	821.	385.	454.	839.	-18.	-5618.	-14.	-12.	-9.	-8.
1986	830.	25.	855.	50.	470.	520.	335.	-5283.	249.	205.	155.	129.
1987	839.	0.	839.	78.	750.	828.	11.	-5273.	8.	6.	5.	4.
1988	838.	0.	838.	63.	727.	790.	48.	-5225.	34.	27.	19.	15.
1989	837.	0.	837.	63.	703.	766.	71.	-5154.	48.	38.	26.	21.
1990	836.	0.	836.	63.	680.	743.	93.	-5060.	62.	47.	32.	25.
1991	835.	0.	835.	63.	656.	719.	116.	-4944.	75.	56.	37.	28.
1992	834.	0.	834.	63.	632.	695.	139.	-4806.	86.	64.	40.	32.
1993	834.	0.	834.	63.	609.	672.	162.	-4643.	98.	71.	44.	33.
1994	834.	0.	834.	63.	585.	648.	186.	-4457.	109.	77.	47.	33.
1995	834.	0.	834.	63.	561.	624.	210.	-4248.	120.	83.	49.	34.
1996	834.	0.	834.	63.	538.	601.	233.	-4014.	129.	88.	50.	35.
1997	820.	0.	820.	102.	514.	616.	204.	-3811.	110.	73.	40.	28.
1998	820.	0.	820.	82.	491.	573.	247.	-3563.	129.	85.	46.	30.
1999	820.	0.	820.	82.	467.	549.	271.	-3292.	137.	88.	46.	30.
2000	820.	0.	820.	82.	443.	525.	295.	-2997.	145.	91.	46.	30.
2001	820.	0.	820.	82.	420.	502.	318.	-2679.	152.	94.	46.	29.
2002	820.	0.	820.	82.	396.	478.	342.	-2337.	159.	96.	46.	29.
2003	820.	0.	820.	82.	372.	454.	366.	-1971.	165.	98.	46.	28.
2004	820.	0.	820.	82.	349.	431.	389.	-1582.	170.	99.	45.	27.
2005	820.	0.	820.	82.	325.	407.	413.	-1169.	175.	100.	44.	26.
2006	820.	0.	820.	82.	302.	384.	436.	-733.	180.	101.	43.	25.
1993-2006	19334.	5559.	24913.	12602.	13043.	25645.	-733.	-108340.	-2386.	-2835.	-3042.	-3018.

2-b-7, Sensitivity Test, with Loan, Interest Rate 7.5 - 1.0%

(100,000 BAHT)

YEAR	GROSS-OPER PROFIT (T)	LOANS (N)	CASH INFLOW (X+I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (Q)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-30.	165.	135.	330.	0.	330.	-195.	-195.	-168.	-155.	-147.	-147.
1980	-19.	3704.	3685.	7407.	11.	7418.	-3733.	-3928.	-3317.	-3071.	-2744.	-2550.
1981	131.	771.	902.	1542.	251.	1793.	-891.	-4820.	-769.	-698.	-607.	-594.
1982	308.	357.	665.	714.	302.	1016.	-351.	-5170.	-294.	-262.	-221.	-198.
1983	413.	154.	567.	307.	325.	632.	-65.	-5236.	-53.	-46.	-38.	-33.
1984	538.	191.	729.	382.	335.	717.	12.	-5223.	10.	8.	7.	6.
1985	628.	193.	821.	385.	347.	732.	88.	-5135.	68.	57.	44.	37.
1986	830.	25.	855.	50.	360.	410.	122.	-4690.	331.	273.	206.	172.
1987	839.	0.	839.	78.	639.	717.	122.	-4568.	88.	71.	52.	43.
1988	838.	0.	838.	63.	621.	684.	154.	-4414.	108.	86.	61.	49.
1989	837.	0.	837.	63.	603.	666.	171.	-4243.	116.	91.	63.	50.
1990	836.	0.	836.	63.	585.	648.	188.	-4055.	124.	95.	64.	49.
1991	835.	0.	835.	63.	567.	630.	205.	-3850.	132.	99.	65.	49.
1992	834.	0.	834.	63.	549.	612.	222.	-3628.	138.	102.	65.	48.
1993	834.	0.	834.	63.	531.	594.	240.	-3388.	145.	105.	65.	48.
1994	834.	0.	834.	63.	513.	576.	258.	-3130.	152.	107.	65.	46.
1995	834.	0.	834.	63.	495.	558.	276.	-2853.	158.	109.	64.	45.
1996	834.	0.	834.	63.	477.	540.	294.	-2559.	163.	111.	63.	44.
1997	820.	0.	820.	102.	459.	561.	259.	-2300.	139.	93.	52.	35.
1998	820.	0.	820.	82.	441.	523.	297.	-2002.	155.	102.	55.	37.
1999	820.	0.	820.	82.	422.	504.	316.	-1686.	160.	103.	54.	35.
2000	820.	0.	820.	82.	404.	486.	334.	-1353.	164.	103.	53.	34.
2001	820.	0.	820.	82.	386.	468.	352.	-1001.	168.	104.	51.	32.
2002	820.	0.	820.	82.	368.	450.	370.	-631.	171.	104.	50.	31.
2003	820.	0.	820.	82.	350.	432.	388.	-244.	175.	104.	49.	30.
2004	820.	0.	820.	82.	332.	414.	406.	162.	177.	104.	47.	28.
2005	820.	0.	820.	82.	314.	396.	424.	586.	180.	103.	46.	27.
2006	820.	0.	820.	82.	296.	378.	442.	1028.	182.	102.	44.	25.
19954.		5559.	24913.	12602.	11282.	23884.	1028.	-78525.	-1226.	-1911.	-2382.	-2481.

(100,000 SAHT)

FINANCIAL CASH-FLOW ** 2-c-1. Sensitivity Test, without Loan, Base Case

YEAR	GROSS- PROFIT (I)	LOANS (N)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z= X -Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	182.	-204.	-204.	-187.	-176.	-162.	-153.
1979	-22.	0.	-22.	182.	0.	3649.	-3661.	-3861.	-3249.	-3009.	-2688.	-2498.
1980	-8.	0.	-8.	3649.	0.	1491.	-1433.	-5294.	-1236.	-1123.	-975.	-890.
1981	58.	0.	54.	1491.	0.	665.	-516.	-5810.	-432.	-385.	-325.	-291.
1982	149.	0.	149.	287.	0.	287.	-74.	-5884.	-60.	-53.	-43.	-38.
1983	213.	0.	213.	372.	0.	372.	-49.	-5933.	-39.	-33.	-26.	-23.
1984	323.	0.	407.	359.	0.	44.	44.	-5885.	37.	31.	26.	20.
1985	407.	0.	573.	44.	0.	78.	529.	-5356.	394.	325.	245.	204.
1986	573.	0.	574.	78.	0.	496.	496.	-4860.	358.	290.	213.	174.
1987	574.	0.	573.	63.	0.	63.	510.	-4350.	347.	284.	203.	163.
1988	573.	0.	572.	63.	0.	63.	509.	-3841.	336.	270.	187.	147.
1989	572.	0.	571.	63.	0.	63.	508.	-3333.	328.	257.	173.	134.
1990	571.	0.	570.	63.	0.	63.	507.	-2826.	315.	244.	160.	121.
1991	570.	0.	569.	63.	0.	63.	506.	-2320.	306.	232.	148.	110.
1992	569.	0.	569.	63.	0.	63.	506.	-1814.	297.	221.	137.	100.
1993	569.	0.	569.	63.	0.	63.	506.	-1308.	289.	210.	127.	91.
1994	569.	0.	569.	63.	0.	63.	506.	-802.	280.	200.	117.	83.
1995	569.	0.	569.	63.	0.	63.	506.	-296.	280.	191.	109.	75.
1996	569.	0.	569.	63.	0.	63.	506.	157.	280.	183.	100.	61.
1997	555.	0.	555.	102.	0.	102.	453.	157.	247.	162.	87.	58.
1998	555.	0.	555.	82.	0.	82.	473.	630.	240.	154.	81.	53.
1999	555.	0.	555.	82.	0.	82.	473.	1103.	240.	147.	75.	48.
2000	555.	0.	555.	82.	0.	82.	473.	1576.	233.	140.	69.	44.
2001	555.	0.	555.	82.	0.	82.	473.	2049.	226.	133.	64.	40.
2002	555.	0.	555.	82.	0.	82.	473.	2522.	213.	127.	59.	36.
2003	555.	0.	555.	82.	0.	82.	473.	2995.	207.	121.	55.	33.
2004	555.	0.	555.	82.	0.	82.	473.	3468.	201.	115.	51.	30.
2005	555.	0.	555.	82.	0.	82.	473.	3941.	195.	109.	47.	27.
2006	555.	0.	555.	82.	0.	82.	473.	4414.	682.	-655.	-1702.	-2041.
1977-2006	12948.	0.	12948.	4334.	0.	4334.	4414.	-4122.	682.	-655.	-1702.	-2041.

** FINANCIAL-CASH-FLOW ** 2-c-2, Sensitivity Test, without loan, +10% Construction Cost

(100,000 BART)

YEAR	GROSS- PROFIT (I)	LOANS (N)	CASH INFLOW (X=L+M)	INVESTMENT COST (A+B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	0.	-22.	200.	0.	200.	-222.	-222.	-203.	-192.	-176.	-167.
1980	-10.	0.	-10.	3896.	0.	3896.	-3906.	-4128.	-3470.	-3213.	-2871.	-2668.
1981	54.	0.	54.	1582.	0.	1582.	-1528.	-5656.	-1318.	-1197.	-1040.	-949.
1982	144.	0.	144.	715.	0.	715.	-571.	-6227.	-478.	-426.	-362.	-322.
1983	207.	0.	207.	304.	0.	304.	-97.	-6324.	-428.	-362.	-302.	-268.
1984	317.	0.	317.	396.	0.	396.	-79.	-6403.	-62.	-53.	-43.	-37.
1985	401.	0.	401.	393.	0.	393.	8.	-6395.	-62.	-53.	-43.	-37.
1986	566.	0.	566.	48.	0.	48.	518.	-5877.	385.	318.	240.	200.
1987	566.	0.	566.	84.	0.	84.	482.	-5395.	348.	282.	207.	169.
1988	565.	0.	565.	69.	0.	69.	496.	-4899.	348.	276.	197.	158.
1989	563.	0.	563.	69.	0.	69.	496.	-4605.	336.	262.	182.	143.
1990	562.	0.	562.	69.	0.	69.	493.	-3912.	326.	249.	168.	130.
1991	561.	0.	561.	69.	0.	69.	492.	-3420.	316.	237.	155.	118.
1992	560.	0.	560.	69.	0.	69.	491.	-2929.	306.	225.	143.	107.
1993	560.	0.	560.	69.	0.	69.	491.	-2438.	297.	214.	133.	97.
1994	560.	0.	560.	69.	0.	69.	491.	-1947.	288.	204.	123.	88.
1995	560.	0.	560.	69.	0.	69.	491.	-1456.	280.	194.	114.	80.
1996	560.	0.	560.	69.	0.	69.	491.	-965.	272.	185.	105.	73.
1997	545.	0.	545.	110.	0.	110.	435.	-530.	234.	156.	86.	59.
1998	545.	0.	545.	90.	0.	90.	455.	-75.	237.	156.	86.	56.
1999	545.	0.	545.	90.	0.	90.	455.	380.	231.	148.	77.	51.
2000	545.	0.	545.	90.	0.	90.	455.	835.	224.	141.	72.	46.
2001	545.	0.	545.	90.	0.	90.	455.	1290.	217.	134.	66.	42.
2002	545.	0.	545.	90.	0.	90.	455.	1745.	211.	128.	62.	38.
2003	545.	0.	545.	90.	0.	90.	455.	2200.	205.	122.	57.	35.
2004	545.	0.	545.	90.	0.	90.	455.	2655.	199.	116.	53.	32.
2005	545.	0.	545.	90.	0.	90.	455.	3110.	193.	111.	49.	29.
2006	545.	0.	545.	90.	0.	90.	455.	3565.	187.	105.	45.	26.
	12724.	0.	12724.	9159.	0.	9159.	3565.	-57823.	36.	-1183.	-2125.	-2413.

(100,000 BAHT)

**FINANCIAL CASH FLOW ** 2-c-3, Sensitivity Test, without Loan, -10% Construction Costs

YEAR	GROSS-OPER PROFIT (L)	LOANS (H)	CASH INFLOW (X=I+H)	INVESTMENT COST (A+H)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+D)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 X	PRESENT 5.00 X	VALUE 8.00 X	10.00 X
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	0.	-22.	164.	0.	164.	-186.	-186.	-170.	-161.	-148.	-140.
1980	-6.	0.	-6.	3402.	0.	3402.	-3408.	-3594.	-3028.	-2804.	-2505.	-2328.
1981	62.	0.	62.	1400.	0.	1400.	-1338.	-4932.	-1154.	-1048.	-911.	-831.
1982	154.	0.	154.	615.	0.	615.	-661.	-5393.	-386.	-344.	-291.	-260.
1983	218.	0.	218.	270.	0.	270.	-52.	-5445.	-42.	-37.	-30.	-27.
1984	329.	0.	329.	348.	0.	348.	-19.	-5464.	-15.	-13.	-10.	-9.
1985	413.	0.	413.	325.	0.	325.	88.	-5376.	67.	57.	44.	37.
1986	580.	0.	580.	40.	0.	40.	540.	-4836.	402.	332.	250.	208.
1987	582.	0.	582.	72.	0.	72.	510.	-4326.	358.	298.	219.	179.
1988	581.	0.	581.	57.	0.	57.	524.	-3802.	368.	292.	208.	167.
1989	580.	0.	580.	57.	0.	57.	523.	-3279.	356.	277.	192.	151.
1990	580.	0.	580.	57.	0.	57.	523.	-2756.	346.	264.	178.	138.
1991	579.	0.	579.	57.	0.	57.	522.	-2234.	335.	251.	165.	125.
1992	578.	0.	578.	57.	0.	57.	521.	-1713.	325.	239.	152.	113.
1993	578.	0.	578.	57.	0.	57.	521.	-1192.	315.	227.	141.	103.
1994	578.	0.	578.	57.	0.	57.	521.	-671.	306.	216.	130.	94.
1995	578.	0.	578.	57.	0.	57.	521.	-150.	297.	206.	121.	85.
1996	578.	0.	578.	57.	0.	57.	521.	371.	288.	196.	112.	77.
1997	565.	0.	565.	94.	0.	94.	471.	842.	253.	169.	94.	64.
1998	565.	0.	565.	74.	0.	74.	491.	1333.	256.	168.	80.	60.
1999	565.	0.	565.	74.	0.	74.	491.	1824.	249.	160.	84.	55.
2000	565.	0.	565.	74.	0.	74.	491.	2315.	242.	152.	77.	50.
2001	565.	0.	565.	74.	0.	74.	491.	2806.	235.	145.	72.	45.
2002	565.	0.	565.	74.	0.	74.	491.	3297.	228.	138.	66.	41.
2003	565.	0.	565.	74.	0.	74.	491.	3788.	221.	132.	61.	37.
2004	565.	0.	565.	74.	0.	74.	491.	4279.	215.	125.	57.	34.
2005	565.	0.	565.	74.	0.	74.	491.	4770.	208.	119.	53.	31.
2006	565.	0.	565.	74.	0.	74.	491.	5261.	202.	114.	49.	28.
	13176.	0.	13176.	7919.	0.	7909.	5261.	-24463.	1286.	-129.	-1280.	-1670.

(100,000 BAHIT)

** FINANCIAL-CASH-FLOW ** 2-c-4, Sensitivity Test, without Loan, +10% Revenue

YEAR	GROSS-OP PROFIT (I)	LOANS (H)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + B)	DEBT SERVICE (J)	CASH OUTFLOW (Y=A+B+J)	ANNUAL BALANCE (Z=X -Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	0.	-22.	182.	0.	182.	-204.	-204.	-187.	-176.	-162.	-153.
1980	-5.	0.	-5.	3649.	0.	3649.	-3858.	-3858.	-3247.	-3006.	-2686.	-2496.
1981	72.	0.	72.	1491.	0.	1491.	-1419.	-5277.	-1224.	-1112.	-966.	-881.
1982	173.	0.	173.	665.	0.	665.	-492.	-5769.	-412.	-367.	-310.	-278.
1983	244.	0.	244.	287.	0.	287.	-43.	-5812.	-35.	-31.	-25.	-22.
1984	365.	0.	365.	372.	0.	372.	-7.	-5819.	-6.	-5.	-4.	-3.
1985	458.	0.	458.	359.	0.	359.	99.	-5720.	76.	64.	50.	42.
1986	641.	0.	641.	44.	0.	44.	597.	-5123.	444.	367.	277.	230.
1987	642.	0.	642.	78.	0.	78.	564.	-4559.	407.	330.	242.	198.
1988	641.	0.	641.	63.	0.	63.	578.	-3931.	405.	322.	230.	184.
1989	640.	0.	640.	63.	0.	63.	577.	-3404.	393.	306.	212.	167.
1990	639.	0.	639.	63.	0.	63.	576.	-2828.	381.	291.	196.	152.
1991	638.	0.	638.	63.	0.	63.	575.	-2253.	369.	277.	181.	138.
1992	637.	0.	637.	63.	0.	63.	574.	-1679.	358.	263.	168.	125.
1993	637.	0.	637.	63.	0.	63.	574.	-1105.	347.	250.	155.	114.
1994	637.	0.	637.	63.	0.	63.	574.	-531.	337.	239.	144.	103.
1995	637.	0.	637.	63.	0.	63.	574.	43.	327.	227.	133.	94.
1996	637.	0.	637.	63.	0.	63.	574.	617.	318.	216.	123.	85.
1997	623.	0.	623.	102.	0.	102.	521.	1138.	280.	187.	103.	70.
1998	623.	0.	623.	82.	0.	82.	541.	1679.	282.	185.	100.	66.
1999	623.	0.	623.	82.	0.	82.	541.	2220.	274.	176.	92.	60.
2000	623.	0.	623.	82.	0.	82.	541.	2761.	266.	168.	85.	55.
2001	623.	0.	623.	82.	0.	82.	541.	3302.	258.	160.	79.	50.
2002	623.	0.	623.	82.	0.	82.	541.	3843.	251.	152.	73.	45.
2003	623.	0.	623.	82.	0.	82.	541.	4384.	244.	145.	68.	41.
2004	623.	0.	623.	82.	0.	82.	541.	4925.	236.	138.	63.	38.
2005	623.	0.	623.	82.	0.	82.	541.	5466.	230.	131.	58.	34.
2006	623.	0.	623.	82.	0.	82.	541.	6007.	223.	125.	54.	31.
	14561.	0.	14561.	8534.	0.	8534.	6007.	-21537.	1598.	21.	-1268.	-1710.

** FINANCIAL-CASH-FLOW ** 2-c-5, Sensitivity Test, without Loan, -10% Revenue

(100,000 BAHT)

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (D)	CASH OUTFLOW (Y=A+B+D)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE A.00 %	10.00 %
1977	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0
1979	-22	0	-22	182	0	182	-204	-204	-167	-176	-162	-153
1980	-11	0	-11	3649	0	3649	-3660	-3864	-3252	-3011	-2690	-2500
1981	45	0	45	1491	0	1491	-1446	-5310	-1247	-1133	-984	-898
1982	125	0	125	665	0	665	-540	-5850	-452	-403	-340	-305
1983	183	0	183	287	0	287	-104	-5954	-85	-74	-61	-53
1984	281	0	281	372	0	372	-91	-6045	-72	-62	-49	-42
1985	356	0	356	359	0	359	-3	-6048	-2	-2	-2	-1
1986	506	0	506	44	0	44	462	-5586	344	284	214	178
1987	507	0	507	78	0	78	429	-5157	310	251	184	150
1988	506	0	506	63	0	63	443	-4714	311	247	176	141
1989	505	0	505	63	0	63	442	-4272	301	234	163	128
1990	504	0	504	63	0	63	441	-3831	292	223	150	116
1991	503	0	503	63	0	63	440	-3391	282	212	139	105
1992	502	0	502	63	0	63	439	-2952	274	201	128	96
1993	502	0	502	63	0	63	439	-2513	266	192	119	87
1994	502	0	502	63	0	63	439	-2074	258	182	110	79
1995	502	0	502	63	0	63	439	-1635	250	174	102	72
1996	502	0	502	63	0	63	439	-1196	243	165	94	65
1997	488	0	488	102	0	102	386	-810	207	139	77	52
1998	488	0	488	82	0	82	406	-404	212	139	75	50
1999	488	0	488	82	0	82	406	2	206	132	69	45
2000	488	0	488	82	0	82	406	408	200	126	64	41
2001	488	0	488	82	0	82	406	814	194	120	59	37
2002	488	0	488	82	0	82	406	1220	188	114	55	34
2003	488	0	488	82	0	82	406	1626	183	109	51	31
2004	488	0	488	82	0	82	406	2032	177	104	47	28
2005	488	0	488	82	0	82	406	2438	172	99	44	26
2006	488	0	488	82	0	82	406	2844	167	94	40	23
	11378	0	11378	8534	0	8534	2844	-60426	-260	-1322	-2130	-2367

(100,000 BAHT)

** FINANCIAL-CASH-FLOW ** 2-d-1, Sensitivity Test, with Loan Base Case

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + M)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+H+W)	ANNUAL BALANCE (Z= X -Y)	ACCUMULATED BALANCE	NET 5.00 X	PRESENT 5.00 X	VALUE 8.00 X	10.00 X
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	182.	-113.	-113.	0.	-98.	-90.	-85.
1979	-22.	91.	69.	182.	0.	3656.	-1839.	-1952.	-1513.	-1352.	-1256.	-1256.
1980	-8.	1825.	1817.	3649.	7.	1635.	-831.	-2783.	-651.	-566.	-516.	-516.
1981	58.	746.	804.	1491.	144.	865.	-383.	-3167.	-286.	-241.	-216.	-216.
1982	149.	333.	432.	665.	200.	512.	-155.	-3420.	-110.	-90.	-80.	-80.
1983	213.	144.	337.	287.	235.	607.	-94.	-3442.	-67.	-53.	-46.	-46.
1984	323.	186.	509.	372.	249.	608.	-22.	-3153.	-14.	-11.	-9.	-9.
1985	407.	180.	587.	359.	283.	307.	284.	-3098.	177.	134.	111.	111.
1986	573.	22.	595.	44.	263.	519.	55.	-3015.	32.	24.	19.	19.
1987	574.	0.	574.	78.	441.	490.	83.	-2920.	46.	33.	26.	26.
1988	573.	0.	573.	53.	427.	477.	95.	-2813.	50.	35.	27.	27.
1989	572.	0.	572.	63.	414.	464.	107.	-2694.	54.	36.	28.	28.
1990	571.	0.	571.	63.	401.	451.	119.	-2562.	57.	38.	29.	29.
1991	570.	0.	570.	63.	388.	437.	132.	-2418.	60.	39.	29.	29.
1992	569.	0.	569.	63.	374.	424.	145.	-2260.	63.	40.	28.	28.
1993	569.	0.	569.	63.	361.	411.	158.	-2089.	66.	40.	28.	28.
1994	569.	0.	569.	63.	348.	398.	171.	-1904.	68.	40.	27.	27.
1995	569.	0.	569.	63.	335.	385.	184.	-1760.	69.	40.	27.	27.
1996	569.	0.	569.	63.	322.	372.	197.	-1582.	78.	40.	27.	27.
1997	555.	0.	555.	102.	303.	410.	145.	-1391.	102.	52.	33.	33.
1998	555.	0.	555.	82.	295.	377.	178.	-1186.	93.	61.	33.	33.
1999	555.	0.	555.	82.	282.	364.	191.	-969.	62.	62.	32.	32.
2000	555.	0.	555.	82.	269.	351.	204.	-738.	63.	63.	32.	32.
2001	555.	0.	555.	82.	256.	339.	217.	-494.	64.	64.	32.	32.
2002	555.	0.	555.	82.	242.	324.	231.	-237.	65.	65.	31.	31.
2003	555.	0.	555.	82.	229.	311.	244.	33.	65.	65.	31.	31.
2004	555.	0.	555.	82.	216.	298.	257.	33.	66.	66.	30.	30.
2005	555.	0.	555.	82.	203.	285.	270.	317.	66.	66.	29.	29.
2006	12948.	3525.	16473.	8534.	7622.	16156.	317.	-5132.	-977.	-1366.	-1601.	-1633.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-d-2, Sensitivity Test, with Loan +10% Construction Costs

YEAR	GROSS- PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+G)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALJE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	100.	78.	200.	0.	200.	-122.	-122.	-112.	-105.	-97.	-92.
1980	-10.	1948.	1938.	3896.	8.	3904.	-1966.	-2088.	-1746.	-1617.	-1445.	-1342.
1981	54.	791.	845.	1582.	154.	1736.	-891.	-2978.	-768.	-698.	-606.	-553.
1982	144.	358.	502.	715.	213.	928.	-426.	-3405.	-318.	-259.	-178.	-153.
1983	207.	152.	359.	304.	240.	544.	-185.	-3589.	-150.	-131.	-108.	-95.
1984	317.	198.	515.	396.	251.	647.	-132.	-3721.	-104.	-89.	-71.	-62.
1985	401.	197.	598.	393.	266.	659.	-61.	-3783.	-47.	-40.	-31.	-26.
1986	566.	24.	590.	48.	291.	329.	261.	-3522.	194.	160.	121.	101.
1987	566.	0.	566.	84.	471.	555.	11.	-3510.	8.	7.	5.	4.
1988	565.	0.	565.	69.	457.	526.	39.	-3471.	28.	22.	16.	13.
1989	563.	0.	563.	69.	443.	512.	51.	-3420.	35.	27.	19.	15.
1990	562.	0.	562.	69.	428.	497.	65.	-3355.	43.	33.	22.	17.
1991	561.	0.	561.	69.	414.	483.	78.	-3278.	50.	37.	24.	19.
1992	560.	0.	560.	69.	400.	469.	91.	-3187.	57.	42.	29.	20.
1993	560.	0.	560.	69.	386.	455.	105.	-3082.	63.	46.	28.	21.
1994	560.	0.	560.	69.	372.	441.	119.	-2963.	70.	49.	30.	21.
1995	560.	0.	560.	69.	358.	427.	133.	-2830.	76.	53.	31.	22.
1996	560.	0.	560.	69.	344.	413.	147.	-2683.	82.	56.	32.	22.
1997	545.	0.	545.	90.	330.	400.	160.	-2577.	87.	58.	33.	22.
1998	545.	0.	545.	90.	315.	385.	175.	-2438.	91.	60.	34.	21.
1999	545.	0.	545.	90.	301.	371.	190.	-2284.	95.	62.	35.	21.
2000	545.	0.	545.	90.	287.	357.	205.	-2116.	98.	64.	36.	20.
2001	545.	0.	545.	90.	273.	343.	220.	-1934.	101.	66.	37.	19.
2002	545.	0.	545.	90.	259.	329.	235.	-1738.	104.	68.	38.	18.
2003	545.	0.	545.	90.	245.	315.	250.	-1528.	107.	70.	39.	17.
2004	545.	0.	545.	90.	231.	301.	265.	-1304.	110.	72.	40.	16.
2005	545.	0.	545.	90.	217.	287.	280.	-1066.	113.	74.	41.	15.
2006	545.	0.	545.	90.	203.	273.	295.	-813.	116.	76.	42.	14.
	12724.	3767.	16491.	9159.	8143.	17304.	-813.	-72786.	-1713.	-1942.	-2017.	-1977.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-d-3, Sensitivity Test, with Loan, -10% Construction Costs

YEAR	GROSS- PROFIT (I)	LOANS (N)	CASH INFLOW (X=I+N)	INVESTMENT COST (A+B)	DEBT SERVICE (M)	CASH OUTFLOW (Y=A+B+M)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 X	PRESENT 5.00 X	VALUE 8.00 X	13.00 X
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	82.	60.	164.	0.	164.	-104.	-104.	-90.	-83.	-78.	-78.
1980	-6.	1701.	1695.	3402.	6.	3408.	-1713.	-1817.	-1409.	-1259.	-1170.	-1170.
1981	62.	700.	762.	1400.	134.	1534.	-777.	-2589.	-605.	-525.	-479.	-479.
1982	154.	308.	462.	815.	186.	801.	-340.	-2929.	-254.	-214.	-192.	-192.
1983	218.	135.	353.	270.	209.	479.	-126.	-3055.	-90.	-74.	-65.	-65.
1984	329.	174.	503.	348.	219.	567.	-64.	-3119.	-44.	-35.	-30.	-30.
1985	413.	163.	576.	325.	232.	557.	18.	-3101.	12.	9.	8.	8.
1986	580.	20.	600.	40.	245.	285.	315.	-2786.	194.	146.	122.	122.
1987	582.	0.	582.	72.	410.	482.	100.	-2686.	72.	58.	43.	35.
1988	581.	0.	581.	57.	398.	455.	126.	-2560.	88.	70.	50.	40.
1989	580.	0.	580.	57.	386.	443.	137.	-2423.	94.	73.	51.	40.
1990	580.	0.	580.	57.	373.	430.	150.	-2273.	99.	76.	51.	39.
1991	579.	0.	579.	57.	361.	418.	161.	-2112.	103.	77.	51.	39.
1992	578.	0.	578.	57.	349.	406.	172.	-1940.	107.	79.	50.	37.
1993	578.	0.	578.	57.	336.	393.	185.	-1755.	112.	81.	50.	37.
1994	578.	0.	578.	57.	324.	381.	197.	-1558.	116.	82.	49.	35.
1995	578.	0.	578.	57.	312.	369.	209.	-1349.	119.	83.	48.	34.
1996	578.	0.	578.	57.	299.	356.	222.	-1128.	123.	83.	48.	33.
1997	565.	0.	565.	94.	287.	381.	184.	-944.	99.	66.	37.	25.
1998	565.	0.	565.	74.	275.	349.	216.	-728.	113.	74.	40.	27.
1999	565.	0.	565.	74.	263.	337.	228.	-499.	116.	74.	39.	26.
2000	565.	0.	565.	74.	250.	324.	241.	-258.	118.	75.	38.	24.
2001	565.	0.	565.	74.	238.	312.	253.	-5.	121.	75.	37.	23.
2002	565.	0.	565.	74.	226.	300.	265.	260.	123.	75.	36.	22.
2003	565.	0.	565.	74.	213.	287.	278.	538.	125.	74.	35.	21.
2004	565.	0.	565.	74.	201.	275.	290.	828.	127.	74.	34.	20.
2005	565.	0.	565.	74.	199.	263.	302.	1130.	128.	73.	32.	19.
2006	565.	0.	565.	74.	176.	250.	315.	1445.	130.	73.	31.	18.
	13170.	3282.	16452.	7909.	7098.	15007.	1445.	-37519.	-243.	-791.	-1186.	-1290.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-d-4, Sensitivity Test, with Loan, +10% Revenue

YEAR	GROSS-OPER PROFIT (I)	LOANS (N)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + B)	DEBT SERVICE (J)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	91.	69.	182.	0.	182.	-113.	-113.	-103.	-98.	-90.	-85.
1980	-5.	1825.	1820.	3649.	7.	3656.	-1836.	-1949.	-1632.	-1511.	-1350.	-1254.
1981	72.	746.	818.	1491.	144.	1635.	-817.	-2766.	-705.	-640.	-556.	-507.
1982	173.	333.	506.	665.	200.	865.	-3126.	-3126.	-301.	-268.	-226.	-203.
1983	244.	144.	388.	287.	225.	512.	-124.	-3250.	-101.	-88.	-72.	-64.
1984	365.	186.	551.	372.	235.	607.	-56.	-3306.	-44.	-38.	-32.	-26.
1985	458.	180.	638.	359.	249.	608.	29.	-3277.	22.	19.	15.	12.
1986	641.	22.	663.	44.	263.	307.	356.	-2920.	265.	219.	165.	137.
1987	642.	0.	642.	78.	441.	519.	123.	-2797.	89.	72.	53.	43.
1988	641.	0.	641.	63.	427.	490.	151.	-2646.	106.	84.	63.	48.
1989	640.	0.	640.	63.	414.	477.	163.	-2483.	111.	86.	60.	47.
1990	639.	0.	639.	63.	401.	464.	175.	-2308.	116.	88.	60.	46.
1991	638.	0.	638.	63.	388.	451.	187.	-2121.	120.	90.	59.	45.
1992	637.	0.	637.	63.	374.	437.	200.	-1921.	124.	91.	58.	43.
1993	637.	0.	637.	63.	361.	424.	213.	-1709.	129.	93.	57.	42.
1994	637.	0.	637.	63.	348.	411.	226.	-1483.	133.	94.	57.	41.
1995	637.	0.	637.	63.	335.	398.	239.	-1244.	136.	95.	55.	39.
1996	637.	0.	637.	63.	322.	385.	252.	-991.	140.	95.	54.	38.
1997	623.	0.	623.	102.	308.	410.	213.	-779.	114.	76.	42.	29.
1998	623.	0.	623.	82.	295.	377.	246.	-533.	128.	84.	45.	30.
1999	623.	0.	623.	82.	282.	364.	259.	-274.	131.	84.	44.	29.
2000	623.	0.	623.	82.	269.	351.	272.	-1.	134.	84.	43.	28.
2001	623.	0.	623.	82.	256.	338.	285.	284.	136.	84.	42.	26.
2002	623.	0.	623.	82.	242.	324.	299.	583.	139.	84.	40.	25.
2003	623.	0.	623.	82.	229.	311.	312.	895.	140.	84.	39.	24.
2004	623.	0.	623.	82.	216.	298.	325.	1220.	142.	83.	38.	23.
2005	623.	0.	623.	82.	203.	285.	338.	1558.	144.	82.	36.	21.
2006	623.	0.	623.	82.	189.	271.	352.	1910.	145.	81.	35.	20.
	14541.	3525.	18066.	8534.	7682.	16156.	1910.	-35347.	-61.	-689.	-1167.	-1302.

(100,000 BAHT)

** FINANCIAL-CASH-FLOW ** 2-d-5, Sensitivity Test, with Loan, -10% Revenue.

YEAR	GROSS-PROFIT (I)	LOANS (N)	CASH INFLOW (X=L+M)	INVESTMENT COST (A+B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	91.	69.	182.	0.	182.	-113.	-103.	-98.	-90.	-85.	-85.
1980	-11.	1825.	1814.	3649.	7.	3656.	-1842.	-1637.	-1516.	-1356.	-1258.	-1258.
1981	45.	746.	791.	1491.	144.	1635.	-844.	-728.	-661.	-575.	-524.	-524.
1982	125.	333.	458.	665.	200.	865.	-407.	-3207.	-304.	-257.	-230.	-230.
1983	183.	144.	327.	287.	225.	512.	-185.	-3392.	-131.	-108.	-95.	-95.
1984	281.	186.	467.	372.	235.	607.	-140.	-3532.	-95.	-76.	-65.	-65.
1985	356.	180.	536.	359.	249.	508.	-73.	-3605.	-47.	-36.	-31.	-31.
1986	506.	22.	528.	44.	263.	307.	221.	-3383.	136.	103.	85.	85.
1987	507.	0.	507.	78.	441.	519.	-12.	-3395.	-7.	-5.	-4.	-4.
1988	506.	0.	506.	63.	427.	490.	16.	-3379.	9.	6.	5.	5.
1989	505.	0.	505.	63.	414.	477.	29.	-3351.	15.	10.	8.	8.
1990	504.	0.	504.	53.	401.	464.	40.	-3311.	27.	20.	14.	11.
1991	503.	0.	503.	53.	388.	451.	52.	-3259.	34.	25.	16.	13.
1992	502.	0.	502.	63.	374.	437.	65.	-3194.	40.	30.	19.	14.
1993	502.	0.	502.	63.	361.	424.	78.	-3117.	47.	34.	21.	15.
1994	502.	0.	502.	63.	348.	411.	91.	-3026.	53.	38.	23.	16.
1995	502.	0.	502.	63.	335.	398.	104.	-2922.	59.	41.	24.	17.
1996	502.	0.	502.	63.	322.	385.	117.	-2804.	65.	44.	25.	17.
1997	488.	0.	488.	102.	308.	410.	78.	-2727.	72.	48.	28.	18.
1998	488.	0.	488.	82.	295.	377.	111.	-2616.	78.	50.	30.	19.
1999	488.	0.	488.	82.	282.	364.	124.	-2492.	83.	52.	32.	20.
2000	488.	0.	488.	82.	269.	351.	137.	-2354.	89.	54.	34.	21.
2001	488.	0.	488.	82.	256.	338.	150.	-2204.	95.	56.	36.	22.
2002	488.	0.	488.	82.	242.	324.	164.	-2040.	101.	58.	38.	23.
2003	488.	0.	488.	82.	229.	311.	177.	-1863.	107.	60.	40.	24.
2004	488.	0.	488.	82.	216.	298.	190.	-1673.	113.	62.	42.	25.
2005	488.	0.	488.	82.	203.	285.	203.	-1470.	119.	64.	44.	26.
2006	488.	0.	488.	82.	189.	271.	217.	-1253.	125.	66.	46.	27.
	11378.	3525.	14903.	8334.	7622.	16156.	-1253.	-74436.	-1899.	-2033.	-2029.	-1959.

(100,000 BART)

**FINANCIAL-CASH-FLOW ** 2-d-6, Sensitivity Test, with Loan, Interest Rate 7.5 + 1.0%

YEAR	GROSS-OPER PROFIT (I)	LOANS (H)	CASH INFLOW (X=I +H)	INVESTMENT COST (A + B)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+B+W)	ANNUAL BALANCE (Z=X -Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1979	-22.	91.	69.	182.	0.	182.	-113.	-103.	-98.	-90.	-85.	-85.
1980	-8.	1825.	1817.	3649.	8.	3657.	-1840.	-1635.	-1514.	-1353.	-1257.	-1257.
1981	58.	746.	804.	1491.	163.	1654.	-850.	-2804.	-2733.	-2579.	-2328.	-2328.
1982	149.	333.	482.	665.	226.	891.	-410.	-3213.	-343.	-258.	-231.	-231.
1983	213.	144.	357.	287.	254.	541.	-185.	-3398.	-150.	-131.	-108.	-95.
1984	323.	180.	509.	372.	267.	639.	-130.	-3528.	-132.	-88.	-70.	-60.
1985	407.	180.	587.	359.	282.	641.	-55.	-3583.	-42.	-23.	-23.	-23.
1986	573.	22.	595.	44.	298.	342.	253.	-3329.	188.	155.	117.	98.
1987	574.	0.	574.	78.	476.	554.	20.	-3309.	15.	12.	9.	7.
1988	573.	0.	573.	63.	461.	524.	49.	-3260.	34.	27.	20.	16.
1989	572.	0.	572.	63.	446.	509.	63.	-3197.	43.	33.	23.	18.
1990	571.	0.	571.	63.	431.	494.	77.	-3120.	51.	39.	26.	20.
1991	570.	0.	570.	63.	416.	479.	91.	-3029.	58.	44.	29.	22.
1992	569.	0.	569.	63.	401.	464.	105.	-2924.	65.	48.	31.	23.
1993	569.	0.	569.	63.	386.	449.	120.	-2804.	73.	52.	32.	24.
1994	569.	0.	569.	63.	371.	434.	135.	-2669.	79.	56.	34.	24.
1995	569.	0.	569.	63.	356.	419.	150.	-2519.	86.	59.	35.	25.
1996	569.	0.	569.	63.	341.	404.	165.	-2354.	91.	62.	35.	25.
1997	555.	0.	555.	102.	326.	428.	127.	-2227.	68.	48.	25.	17.
1998	555.	0.	555.	82.	311.	393.	162.	-2065.	85.	55.	30.	20.
1999	555.	0.	555.	82.	296.	378.	177.	-1888.	90.	58.	30.	20.
2000	555.	0.	555.	82.	281.	363.	192.	-1695.	94.	60.	30.	19.
2001	555.	0.	555.	82.	266.	348.	207.	-1499.	99.	61.	30.	19.
2002	555.	0.	555.	82.	251.	333.	222.	-1267.	103.	62.	30.	19.
2003	555.	0.	555.	82.	236.	318.	237.	-1030.	107.	63.	30.	18.
2004	555.	0.	555.	82.	221.	303.	252.	-778.	110.	64.	29.	17.
2005	555.	0.	555.	82.	206.	288.	267.	-511.	113.	65.	29.	17.
2006	555.	0.	555.	82.	191.	273.	282.	-230.	114.	65.	28.	16.
	12928.	3525.	16673.	8534.	8168.	16702.	-230.	-64284.	-1341.	-1650.	-1803.	-1796.

(100,000 BAHT)

**FINANCIAL-CASH-FLOW ** 2-d-7, Sensitivity Test, with Loan, Interest Rate 7.5 - 1.0%

YEAR	GROSS-OPRE PROFIT (I)	LOANS (H)	CASH INFLOW (X=I +N)	INVESTMENT COST (A + D)	DEBT SERVICE (W)	CASH OUTFLOW (Y=A+D+W)	ANNUAL BALANCE (Z= X -Y)	ACCUMULATED BALANCE	NET 3.00 %	PRESENT 5.00 %	VALUE 8.00 %	VALUE 10.00 %
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1978	0.	0.	0.	182.	0.	182.	-113.	-113.	-103.	-98.	-90.	-85.
1979	-22.	91.	69.	3649.	6.	3655.	-1838.	-1951.	-1633.	-1512.	-1351.	-1256.
1980	-8.	1825.	1817.	1491.	125.	1616.	-812.	-2763.	-700.	-636.	-553.	-504.
1981	58.	746.	804.	665.	173.	838.	-356.	-3120.	-299.	-266.	-225.	-201.
1982	149.	333.	482.	287.	195.	482.	-125.	-3245.	-102.	-89.	-73.	-64.
1983	213.	144.	357.	372.	204.	576.	-67.	-3312.	-53.	-45.	-35.	-31.
1984	323.	186.	509.	359.	216.	575.	12.	-3300.	9.	7.	6.	5.
1985	407.	180.	587.	44.	228.	272.	323.	-2977.	241.	199.	152.	125.
1986	573.	22.	595.	78.	405.	483.	91.	-2886.	66.	53.	39.	32.
1987	574.	0.	574.	63.	394.	457.	116.	-2770.	81.	65.	46.	37.
1988	573.	0.	573.	63.	367.	445.	127.	-2644.	86.	67.	47.	37.
1989	572.	0.	572.	63.	371.	434.	137.	-2507.	91.	69.	47.	36.
1990	571.	0.	571.	63.	371.	434.	137.	-2359.	95.	71.	46.	35.
1991	570.	0.	570.	63.	368.	422.	148.	-2201.	98.	72.	46.	34.
1992	569.	0.	569.	63.	337.	400.	169.	-2032.	102.	74.	46.	34.
1993	569.	0.	569.	63.	325.	389.	181.	-1851.	106.	75.	45.	33.
1994	569.	0.	569.	63.	314.	377.	192.	-1659.	110.	76.	45.	31.
1995	569.	0.	569.	63.	302.	365.	204.	-1455.	113.	77.	44.	30.
1996	569.	0.	569.	102.	291.	393.	162.	-1293.	87.	58.	32.	22.
1997	555.	0.	555.	82.	279.	361.	194.	-1099.	101.	66.	36.	24.
1998	555.	0.	555.	82.	268.	350.	205.	-894.	104.	67.	35.	23.
1999	555.	0.	555.	82.	256.	338.	217.	-677.	107.	67.	34.	22.
2000	555.	0.	555.	82.	245.	327.	228.	-449.	109.	67.	33.	21.
2001	555.	0.	555.	82.	233.	315.	240.	-210.	111.	67.	33.	20.
2002	555.	0.	555.	82.	222.	304.	251.	41.	113.	67.	31.	19.
2003	555.	0.	555.	82.	211.	293.	262.	304.	115.	67.	30.	18.
2004	555.	0.	555.	82.	199.	281.	274.	578.	116.	67.	29.	17.
2005	555.	0.	555.	82.	188.	270.	285.	863.	118.	66.	28.	16.
2006	12948.	3525.	16473.	8534.	7075.	15609.	863.	-45980.	-613.	-1081.	-1400.	-1470.

3. Sensitivity Tests in Economic Analysis

(100,000 BAHT)

3-a-1. Sensitivity Test, without Loan, Base Case

** ECONOMIC-RESOURCE-FLOW

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE INFLOW (X=E + H)	ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED	NET PRESENT VALUE		
									10.00 %	15.00 %	20.00 %
1977	182.	0.	182.	222.	0.	222.	-40.	-67.	-36.	-35.	-33.
1978	421.	0.	421.	224.	0.	224.	197.	157.	153.	149.	137.
1979	898.	0.	898.	752.	0.	752.	165.	323.	125.	109.	96.
1980	1349.	0.	1349.	11066.	0.	11066.	-9717.	-9394.	-6637.	-5556.	-4686.
1981	1771.	0.	1771.	5016.	0.	5016.	-3245.	-12639.	-2015.	-1613.	-1304.
1982	2141.	0.	2141.	4612.	0.	4612.	-2471.	-15110.	-1395.	-1068.	-828.
1983	2534.	0.	2534.	2107.	0.	2107.	427.	-14683.	219.	161.	119.
1984	3233.	0.	3233.	2064.	0.	2064.	1169.	-13514.	545.	382.	272.
1985	3912.	0.	3912.	2082.	0.	2082.	1830.	-11684.	776.	520.	355.
1986	4574.	0.	4574.	1340.	0.	1340.	3234.	-8450.	1247.	799.	522.
1987	4421.	0.	4421.	240.	0.	240.	4181.	-4269.	1465.	999.	563.
1988	4423.	0.	4423.	228.	0.	228.	4195.	-74.	1337.	784.	473.
1989	4380.	0.	4380.	229.	0.	229.	4151.	4077.	1202.	675.	388.
1990	4334.	0.	4334.	230.	0.	230.	4104.	8181.	1081.	580.	320.
1991	4329.	0.	4329.	231.	0.	231.	4098.	12279.	981.	504.	266.
1992	4279.	0.	4279.	232.	0.	232.	4047.	16326.	881.	432.	219.
1993	4284.	0.	4284.	232.	0.	232.	4052.	20378.	802.	377.	183.
1994	4287.	0.	4287.	232.	0.	232.	4055.	24433.	729.	328.	152.
1995	4280.	0.	4280.	232.	0.	232.	4048.	28481.	662.	284.	127.
1996	4230.	0.	4230.	232.	0.	232.	3998.	32479.	594.	244.	104.
1997	4230.	0.	4230.	282.	0.	282.	3948.	36427.	533.	210.	85.
1998	4230.	0.	4230.	262.	0.	262.	3968.	40395.	487.	183.	72.
1999	4230.	0.	4230.	262.	0.	262.	3968.	44363.	443.	159.	60.
2000	4230.	0.	4230.	262.	0.	262.	3968.	48331.	403.	139.	50.
2001	4230.	0.	4230.	262.	0.	262.	3968.	52299.	366.	121.	42.
2002	4230.	0.	4230.	262.	0.	262.	3968.	56267.	333.	105.	35.
2003	4230.	0.	4230.	262.	0.	262.	3968.	60235.	303.	91.	29.
2004	4230.	0.	4230.	262.	0.	262.	3968.	64203.	275.	79.	24.
2005	4230.	0.	4230.	262.	0.	262.	3968.	68171.	250.	69.	20.
2006	4230.	0.	4230.	262.	0.	262.	3968.	72139.	227.	60.	17.
	106562.	0.	106562.	34423.	0.	34423.	72139.	600087.	6348.	170.	-2125.

** ECONOMIC-RESOURCE-FLOW ** 3-a-2, Sensitivity Test, without Loan 4% down of Room Occupancy Rate (74.8%) (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE INFLOW (X+E+N)	ECONOMIC COST (F)	DEBT SERVICE (J)	RESOURCE OUTFLOW (Y=F+J)	ANNUAL BALANCE (Z=X-Y)	ACCUMULATED	NET		
									10.00 %	15.00 %	20.00 %
1977	182	0	182	222	0	222	-40	-40	-36	-35	-33
1978	421	0	421	224	0	224	197	157	163	149	137
1979	898	0	898	730	0	730	165	323	125	109	96
1980	1349	0	1349	11066	0	11066	-9717	-9394	-6637	-5556	-4686
1981	1771	0	1771	5016	0	5016	-3245	-12639	-2015	-1613	-1304
1982	2141	0	2141	4612	0	4612	-2471	-15110	-1395	-1068	-828
1983	2534	0	2534	2107	0	2107	427	-14683	219	161	119
1984	3233	0	3233	2064	0	2064	1169	-13514	545	382	272
1985	3912	0	3912	2082	0	2082	1830	-11684	776	520	355
1986	4316	0	4316	1340	0	1340	2976	-8708	1147	736	481
1987	4171	0	4171	240	0	240	3931	-4777	1378	845	529
1988	4262	0	4262	229	0	229	4034	-743	1295	754	452
1989	4228	0	4228	229	0	229	3996	3253	1157	649	373
1990	4180	0	4180	230	0	230	3950	7203	1040	558	308
1991	4176	0	4176	231	0	231	3879	11145	944	485	256
1992	4111	0	4111	232	0	232	3879	15027	844	415	210
1993	4131	0	4131	232	0	232	3899	18926	771	362	176
1994	4135	0	4135	232	0	232	3903	22820	702	315	147
1995	4129	0	4129	232	0	232	3897	26726	637	274	122
1996	4082	0	4082	232	0	232	3800	30576	574	235	100
1997	4082	0	4082	232	0	232	38195	34374	513	202	83
1998	4082	0	4082	232	0	232	3820	38195	469	176	69
1999	4082	0	4082	232	0	232	3820	42016	427	153	58
2000	4082	0	4082	232	0	232	3820	45836	389	133	48
2001	4082	0	4082	232	0	232	3820	49656	353	116	40
2002	4082	0	4082	232	0	232	3820	53476	321	101	33
2003	4082	0	4082	232	0	232	3820	57296	291	88	28
2004	4082	0	4082	232	0	232	3820	61116	265	76	23
2005	4082	0	4082	232	0	232	3820	64936	241	66	19
2006	4082	0	4082	232	0	232	3820	68756	219	58	14
	103179	0	13179	16637	0	34423	48756	567536	5711	-152	-2301

** ECONOMIC-RESOURCE-FLOW ** 3-a-3, Sensitivity Test, without Loan, 9% down of Room Occupancy Rate (69.8%) (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (H)	RESOURCE INFLOW (X=E + N)	ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED			NET PRESENT VALUE		
								10.00 %	15.00 %	20.00 %	10.00 %	15.00 %	20.00 %
1977	182.	0.	182.	222.	0.	222.	-60.	-40.	-35.	-36.	-35.	-33.	
1978	421.	0.	421.	224.	0.	224.	107.	157.	149.	163.	149.	137.	
1979	898.	0.	898.	732.	0.	732.	166.	323.	109.	125.	109.	96.	
1980	1349.	0.	1349.	11066.	0.	11066.	-9717.	-9394.	-5556.	-6637.	-5556.	-4686.	
1981	1771.	0.	1771.	5016.	0.	5016.	-3245.	-12639.	-1613.	-2015.	-1613.	-1304.	
1982	2141.	0.	2141.	4612.	0.	4612.	-2471.	-15110.	-1068.	-1395.	-1068.	-828.	
1983	2534.	0.	2534.	2107.	0.	2107.	427.	-14683.	161.	219.	161.	119.	
1984	3233.	0.	3233.	2064.	0.	2064.	1169.	-13514.	382.	545.	382.	272.	
1985	3776.	0.	3776.	2082.	0.	2082.	1694.	-11820.	482.	718.	482.	328.	
1986	3829.	0.	3829.	1340.	0.	1340.	2489.	-9331.	615.	960.	615.	402.	
1987	3808.	0.	3808.	240.	0.	240.	3568.	-5763.	767.	767.	767.	480.	
1988	3805.	0.	3805.	228.	0.	228.	3577.	-2186.	401.	1140.	669.	401.	
1989	3770.	0.	3770.	229.	0.	229.	3541.	1355.	576.	576.	576.	331.	
1990	3728.	0.	3728.	230.	0.	230.	3493.	4853.	494.	921.	494.	272.	
1991	3724.	0.	3724.	231.	0.	231.	3493.	8346.	429.	836.	429.	227.	
1992	3682.	0.	3682.	232.	0.	232.	3450.	11796.	369.	751.	369.	187.	
1993	3684.	0.	3684.	232.	0.	232.	3450.	15248.	321.	683.	321.	156.	
1994	3688.	0.	3688.	232.	0.	232.	3452.	18704.	279.	622.	279.	130.	
1995	3680.	0.	3680.	232.	0.	232.	3456.	22152.	242.	622.	242.	108.	
1996	3638.	0.	3638.	232.	0.	232.	3448.	25558.	208.	506.	208.	89.	
1997	3638.	0.	3638.	287.	0.	287.	3356.	28914.	178.	453.	178.	73.	
1998	3638.	0.	3638.	262.	0.	262.	3376.	32290.	156.	415.	156.	61.	
1999	3638.	0.	3638.	262.	0.	262.	3376.	35666.	136.	377.	136.	51.	
2000	3638.	0.	3638.	262.	0.	262.	3376.	39042.	118.	343.	118.	42.	
2001	3638.	0.	3638.	262.	0.	262.	3376.	42418.	103.	312.	103.	35.	
2002	3638.	0.	3638.	262.	0.	262.	3376.	45794.	89.	283.	89.	29.	
2003	3638.	0.	3638.	262.	0.	262.	3376.	49170.	78.	258.	78.	25.	
2004	3638.	0.	3638.	262.	0.	262.	3376.	52546.	67.	234.	67.	20.	
2005	3638.	0.	3638.	262.	0.	262.	3376.	55922.	59.	213.	59.	17.	
2006	3638.	0.	3638.	262.	0.	262.	3376.	59298.	51.	193.	51.	14.	
	93721.	0.	93721.	34423.	0.	34423.	59298.	455072.	-987.	4027.	-987.	-2748.	

**. ECONOMIC-RESOURCE-FLOW ** 3-a-4, Sensitivity Test, without Loan, +10% Investment Costs

(100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE		ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED	NET PRESENT VALUE		
			INFLOW (X=E + Y)	OUTFLOW (Y=F + W)						10.00 %	15.00 %	20.00 %
1977	182.	0.	192.	244.	244.	0.	244.	-62.	-56.	-54.	-52.	
1978	421.	0.	421.	246.	246.	0.	246.	113.	145.	132.	122.	
1979	898.	0.	899.	501.	501.	0.	301.	210.	73.	64.	56.	
1980	1349.	0.	1340.	12163.	12163.	0.	12168.	-10609.	-7390.	-6186.	-5217.	
1981	1771.	0.	1771.	5511.	5511.	0.	5511.	-14349.	-2322.	-1859.	-1503.	
1982	2141.	0.	2141.	5056.	5056.	0.	5066.	-17274.	-1651.	-1265.	-980.	
1983	2534.	0.	2534.	2311.	2311.	0.	2311.	-17051.	114.	84.	52.	
1984	3233.	0.	3233.	2263.	2263.	0.	2263.	-16081.	453.	317.	226.	
1985	3912.	0.	3912.	2283.	2283.	0.	2233.	-14452.	691.	463.	316.	
1986	4574.	0.	4574.	1467.	1467.	0.	1467.	-11345.	1198.	768.	502.	
1987	4421.	0.	4421.	360.	360.	0.	260.	-7184.	1458.	894.	560.	
1988	4423.	0.	4423.	247.	247.	0.	247.	-3008.	1331.	781.	468.	
1989	4380.	0.	4380.	248.	248.	0.	248.	1124.	1197.	672.	386.	
1990	4334.	0.	4334.	247.	247.	0.	247.	5209.	1076.	577.	318.	
1991	4329.	0.	4329.	257.	257.	0.	250.	9288.	970.	501.	265.	
1992	4279.	0.	4279.	251.	251.	0.	251.	13316.	877.	430.	218.	
1993	4284.	0.	4284.	251.	251.	0.	251.	17349.	796.	375.	182.	
1994	4287.	0.	4287.	251.	251.	0.	251.	21385.	726.	326.	152.	
1995	4280.	0.	4280.	251.	251.	0.	251.	25414.	659.	283.	126.	
1996	4230.	0.	4230.	251.	251.	0.	251.	29393.	571.	243.	104.	
1997	4230.	0.	4230.	251.	251.	0.	251.	33317.	530.	208.	85.	
1998	4230.	0.	4230.	244.	244.	0.	244.	37263.	485.	182.	71.	
1999	4230.	0.	4230.	244.	244.	0.	244.	41209.	441.	159.	60.	
2000	4230.	0.	4230.	244.	244.	0.	244.	45155.	401.	138.	50.	
2001	4230.	0.	4230.	244.	244.	0.	244.	49101.	304.	120.	41.	
2002	4230.	0.	4230.	244.	244.	0.	244.	53047.	331.	104.	34.	
2003	4230.	0.	4230.	244.	244.	0.	244.	56993.	301.	91.	29.	
2004	4230.	0.	4230.	244.	244.	0.	244.	60939.	274.	79.	24.	
2005	4230.	0.	4230.	244.	244.	0.	244.	64895.	249.	69.	20.	
2006	4230.	0.	4230.	244.	244.	0.	244.	68831.	220.	60.	17.	
	106562.	0.	106562.	37771.	37771.	0.	37751.	43931.	4544.	-1244.	-3259.	

3-a-5. Sensitivity Test, without Loan, -10% Investment Costs (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE INFLOW (X=E + N)	ECONOMIC COST (F)	NET SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED			NET PRESENT VALUE		
								10.00 %	15.00 %	20.00 %	10.00 %	15.00 %	20.00 %
1977	182.	0.	182.	200.	0.	200.	-14.	-18.	-16.	181.	166.	152.	
1978	421.	0.	421.	202.	0.	202.	219.	201.	177.	177.	155.	136.	
1979	898.	0.	898.	663.	0.	663.	235.	436.	155.	155.	136.	136.	
1980	1349.	0.	1349.	9965.	0.	9965.	-8516.	-8180.	-4926.	-5885.	-4926.	-4155.	
1981	1771.	0.	1771.	4521.	0.	4521.	-2750.	-10930.	-1708.	-1708.	-1367.	-1105.	
1982	2141.	0.	2141.	4159.	0.	4158.	-2017.	-12947.	-1139.	-1139.	-872.	-675.	
1983	2534.	0.	2534.	1903.	0.	1903.	671.	-12316.	324.	324.	237.	175.	
1984	3233.	0.	3233.	1865.	0.	1865.	1368.	-10948.	638.	638.	447.	318.	
1985	3912.	0.	3912.	1881.	0.	1881.	2031.	-8917.	861.	861.	577.	394.	
1986	4574.	0.	4574.	1213.	0.	1213.	3361.	-5556.	1296.	1296.	831.	543.	
1987	4421.	0.	4421.	220.	0.	220.	4201.	-1355.	1472.	1472.	923.	565.	
1988	4423.	0.	4423.	209.	0.	209.	4214.	2859.	1343.	1343.	788.	473.	
1989	4380.	0.	4380.	217.	0.	217.	4170.	7029.	1208.	1208.	678.	390.	
1990	4334.	0.	4334.	211.	0.	211.	4123.	11152.	1086.	1086.	583.	321.	
1991	4329.	0.	4329.	212.	0.	212.	4117.	15269.	986.	986.	506.	267.	
1992	4279.	0.	4279.	213.	0.	213.	4066.	19335.	885.	885.	435.	220.	
1993	4284.	0.	4284.	213.	0.	213.	4071.	23406.	805.	805.	378.	183.	
1994	4287.	0.	4287.	213.	0.	213.	4074.	27480.	733.	733.	329.	153.	
1995	4280.	0.	4280.	213.	0.	213.	4067.	31547.	665.	665.	286.	127.	
1996	4230.	0.	4230.	213.	0.	213.	4017.	35564.	597.	597.	245.	105.	
1997	4230.	0.	4230.	258.	0.	258.	3972.	39536.	537.	537.	211.	86.	
1998	4230.	0.	4230.	240.	0.	240.	3990.	43526.	490.	490.	184.	72.	
1999	4230.	0.	4230.	240.	0.	240.	3990.	47516.	446.	446.	160.	60.	
2000	4230.	0.	4230.	240.	0.	240.	3990.	51506.	405.	405.	139.	50.	
2001	4230.	0.	4230.	240.	0.	240.	3990.	55496.	368.	368.	121.	42.	
2002	4230.	0.	4230.	240.	0.	240.	3990.	59486.	335.	335.	105.	35.	
2003	4230.	0.	4230.	240.	0.	240.	3990.	63476.	304.	304.	92.	29.	
2004	4230.	0.	4230.	240.	0.	240.	3990.	67466.	277.	277.	80.	24.	
2005	4230.	0.	4230.	240.	0.	240.	3990.	71456.	252.	252.	69.	20.	
2006	4230.	0.	4230.	240.	0.	240.	3990.	75446.	229.	229.	60.	17.	
	106562.	0.	106562.	3116.	0.	3116.	75446.	678021.	8151.	8151.	1584.	-991.	

(100,000 BAHT)

** ECONOMIC-RESOURCE-FLOW ** 3-b-1. Sensitivity Test, with Loan, Base Case

YEAR	ECONOMIC BENEFIT (E)	LOADS (N)	RESOURCE INFLOW (X=E + N)	ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED			
								10.00 %	15.00 %	20.00 %	
1977	182.	0.	182.	222.	0.	222.	-40.	-56.	-35.	-33.	
1978	421.	0.	421.	224.	0.	224.	197.	163.	149.	137.	
1979	898.	165.	1063.	732.	0.	732.	488.	249.	218.	192.	
1980	1349.	3704.	5053.	11066.	12.	11078.	-6026.	-4116.	-3445.	-2905.	
1981	1771.	771.	2542.	5015.	290.	5306.	-2764.	-1716.	-1374.	-1111.	
1982	2141.	357.	2498.	4612.	348.	4960.	-2462.	-10764.	-1064.	-825.	
1983	2534.	154.	2688.	2107.	375.	2450.	205.	-10558.	77.	57.	
1984	3233.	191.	3424.	2064.	386.	2450.	974.	-9584.	454.	229.	
1985	3912.	193.	4105.	2082.	401.	2483.	1622.	-7963.	318.	314.	
1986	4574.	25.	4599.	1340.	415.	1755.	2844.	-5119.	661.	459.	
1987	4421.	0.	4421.	240.	695.	935.	3486.	-1632.	703.	469.	
1988	4423.	0.	4423.	228.	674.	902.	3521.	1689.	749.	658.	
1989	4380.	0.	4380.	229.	653.	882.	3498.	1013.	569.	395.	
1990	4334.	0.	4334.	230.	632.	862.	3473.	5387.	491.	270.	
1991	4329.	0.	4329.	231.	611.	842.	3487.	8858.	914.	226.	
1992	4279.	0.	4279.	232.	591.	823.	3456.	15801.	428.	187.	
1993	4284.	0.	4284.	232.	570.	802.	3482.	12345.	324.	157.	
1994	4287.	0.	4287.	232.	549.	781.	3506.	19283.	283.	132.	
1995	4280.	0.	4280.	232.	528.	760.	3520.	22790.	247.	110.	
1996	4230.	0.	4230.	232.	507.	739.	3491.	26310.	213.	75.	
1997	4230.	0.	4230.	282.	436.	768.	3462.	29800.	184.	53.	
1998	4230.	0.	4230.	262.	466.	728.	3502.	36764.	162.	63.	
1999	4230.	0.	4230.	262.	445.	707.	3544.	40288.	142.	53.	
2000	4230.	0.	4230.	262.	424.	686.	3544.	43832.	124.	45.	
2001	4230.	0.	4230.	262.	403.	665.	3565.	47397.	108.	37.	
2002	4230.	0.	4230.	262.	382.	644.	3586.	50983.	95.	31.	
2003	4230.	0.	4230.	262.	361.	623.	3607.	54589.	83.	26.	
2004	4230.	0.	4230.	262.	340.	602.	3628.	58217.	72.	22.	
2005	4230.	0.	4230.	262.	320.	582.	3648.	61865.	63.	18.	
2006	4230.	0.	4230.	262.	299.	561.	3669.	65335.	55.	15.	
	106562.	5559.	112121.	34423.	12163.	46586.	65535.	576340.	7018.	1428.	-737.

3-b-2, Sensitivity Test, with Loan, 4% down of Room Occupancy Rate (74.8%) (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE INFLOW (X=E + V)	ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED		
								10.00 %	15.00 %	20.00 %
1977	182.	0.	182.	222.	0.	222.	-40.	-36.	-35.	-33.
1978	421.	0.	421.	224.	0.	224.	197.	163.	149.	137.
1979	898.	165.	1063.	732.	0.	732.	488.	249.	218.	192.
1980	1349.	3704.	5053.	11066.	12.	11078.	-5538.	-4116.	-3445.	-2905.
1981	1771.	771.	2542.	5016.	290.	5306.	-2764.	-1716.	-1374.	-1111.
1982	2141.	357.	2498.	4612.	348.	4960.	-2462.	-1390.	-1064.	-825.
1983	2534.	154.	2688.	2107.	375.	2482.	206.	106.	77.	57.
1984	3233.	191.	3424.	2064.	386.	2450.	974.	454.	318.	226.
1985	3912.	193.	4105.	2082.	401.	2483.	1622.	688.	461.	314.
1986	4316.	25.	4341.	1340.	415.	1755.	2586.	997.	639.	418.
1987	4771.	0.	4771.	240.	695.	935.	3235.	1134.	696.	436.
1988	4262.	0.	4262.	228.	674.	902.	3360.	1071.	628.	377.
1989	4225.	0.	4225.	229.	653.	882.	3343.	968.	543.	312.
1990	4180.	0.	4180.	230.	632.	862.	3319.	874.	469.	258.
1991	4176.	0.	4176.	231.	611.	842.	3334.	798.	410.	216.
1992	4111.	0.	4111.	232.	591.	823.	3288.	716.	351.	178.
1993	4131.	0.	4131.	232.	570.	802.	3289.	659.	309.	150.
1994	4135.	0.	4135.	232.	549.	781.	3354.	603.	271.	126.
1995	4129.	0.	4129.	232.	528.	760.	3369.	551.	237.	105.
1996	4082.	0.	4082.	232.	507.	739.	3343.	497.	204.	87.
1997	4082.	0.	4082.	282.	486.	768.	3314.	448.	176.	72.
1998	4082.	0.	4082.	262.	466.	728.	3354.	412.	155.	61.
1999	4082.	0.	4082.	262.	445.	707.	37941.	377.	136.	51.
2000	4082.	0.	4082.	262.	424.	686.	41337.	345.	119.	43.
2001	4082.	0.	4082.	262.	403.	665.	44754.	315.	104.	35.
2002	4082.	0.	4082.	262.	382.	644.	48192.	288.	91.	30.
2003	4082.	0.	4082.	262.	361.	623.	51650.	264.	79.	25.
2004	4082.	0.	4082.	262.	340.	602.	55130.	241.	69.	21.
2005	4082.	0.	4082.	262.	320.	582.	58630.	221.	61.	18.
2006	4082.	0.	4082.	262.	299.	561.	62152.	202.	53.	15.
	103179.	5559.	108738.	3423.	12163.	46586.	536789.	6381.	1105.	-913.

3-6-3. Sensitivity Test, with Loan, 9% down of Room Occupancy Rate, (69.8%) (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE INFLOW (X=E + N)	ECONOMIC COST (F)	DEBT SERVICE (J)	RESOURCE OUTFLOW (Y=F + J)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED		
								NET 10.00 %	PRESENT 15.00 %	VALUE 20.00 %
1977	182.	0.	182.	222.	0.	222.	-40.	-40.	-35.	-33.
1978	421.	0.	421.	224.	0.	224.	197.	157.	149.	137.
1979	898.	165.	1063.	732.	0.	732.	331.	488.	249.	192.
1980	1349.	3706.	5053.	11066.	12.	11078.	-6226.	-5538.	-3445.	-2905.
1981	1771.	771.	2542.	5016.	290.	5306.	-2764.	-8302.	-1716.	-1111.
1982	2141.	357.	2498.	4612.	348.	4960.	-2462.	-10766.	-1374.	-825.
1983	2534.	154.	2688.	2107.	375.	2482.	206.	-10553.	-1064.	57.
1984	3233.	191.	3424.	2064.	386.	2450.	974.	-9586.	318.	226.
1985	3776.	193.	3969.	2082.	401.	2483.	1486.	-8099.	422.	288.
1986	3829.	25.	3854.	1340.	415.	1755.	2099.	-6000.	519.	339.
1987	3808.	0.	3808.	240.	695.	935.	2873.	-3126.	518.	387.
1988	3805.	0.	3805.	223.	674.	902.	2903.	-223.	543.	326.
1989	3770.	0.	3770.	227.	553.	782.	2988.	2665.	469.	270.
1990	3728.	0.	3728.	230.	632.	862.	2446.	5530.	405.	223.
1991	3724.	0.	3724.	231.	511.	742.	2452.	8412.	354.	187.
1992	3682.	0.	3682.	232.	591.	823.	2859.	11271.	622.	177.
1993	3684.	0.	3684.	232.	570.	802.	2932.	14153.	152.	62.
1994	3688.	0.	3688.	232.	547.	781.	2907.	17061.	268.	130.
1995	3680.	0.	3680.	232.	528.	760.	2920.	19981.	235.	109.
1996	3638.	0.	3638.	262.	507.	739.	2899.	22879.	205.	91.
1997	3638.	0.	3638.	262.	486.	768.	2870.	25749.	177.	76.
1998	3638.	0.	3638.	262.	466.	728.	2910.	28659.	152.	62.
1999	3638.	0.	3638.	262.	445.	707.	2931.	31591.	134.	53.
2000	3638.	0.	3638.	262.	424.	686.	2952.	34543.	118.	44.
2001	3638.	0.	3638.	262.	403.	665.	2973.	37516.	103.	37.
2002	3638.	0.	3638.	262.	382.	644.	2994.	40510.	90.	31.
2003	3638.	0.	3638.	262.	361.	623.	3015.	43524.	79.	26.
2004	3638.	0.	3638.	262.	340.	602.	3036.	46560.	69.	22.
2005	3638.	0.	3638.	262.	320.	582.	3056.	49616.	61.	18.
2006	3638.	0.	3638.	262.	299.	561.	3077.	52694.	53.	15.
	93721.	5559.	99280.	34493.	12163.	46580.	57694.	431323.	4697.	271.
										-1360.

3-b-4. Sensitivity Test, with Loan, +10% Investment Costs (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE INFLOW (X+E + N)	ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED			NET PRESENT VALUE		
								10.00 %	15.00 %	20.00 %	10.00 %	15.00 %	20.00 %
1977	182.	0.	182.	244.	0.	244.	-62.	-56.	-54.	-52.			
1978	421.	0.	421.	246.	0.	246.	113.	145.	132.	122.			
1979	898.	182.	1080.	801.	0.	801.	392.	209.	183.	161.			
1980	1349.	4014.	5363.	12168.	14.	12182.	-6819.	-4657.	-3899.	-3288.			
1981	1771.	819.	2590.	5511.	315.	5826.	-3236.	-2009.	-1609.	-1300.			
1982	2141.	385.	2526.	5066.	376.	5442.	-2917.	-1646.	-1261.	-977.			
1983	2534.	163.	2697.	2311.	405.	2716.	-19.	-10.	-7.	-5.			
1984	3233.	204.	3437.	2263.	417.	2680.	756.	353.	247.	176.			
1985	3912.	211.	4123.	2293.	432.	2715.	1408.	273.	200.	273.			
1986	4574.	28.	4602.	1467.	448.	1715.	2686.	1036.	664.	434.			
1987	4421.	0.	4421.	2601.	751.	1911.	3411.	1195.	733.	459.			
1988	4423.	0.	4423.	247.	723.	975.	3448.	1099.	644.	387.			
1989	4380.	0.	4380.	246.	705.	953.	3427.	993.	557.	320.			
1990	4334.	0.	4334.	249.	683.	932.	3402.	896.	481.	265.			
1991	4329.	0.	4329.	250.	667.	910.	3419.	818.	420.	222.			
1992	4279.	0.	4279.	251.	632.	889.	3390.	738.	362.	183.			
1993	4284.	0.	4284.	251.	615.	866.	3418.	676.	318.	154.			
1994	4287.	0.	4287.	251.	593.	844.	3443.	619.	278.	129.			
1995	4280.	0.	4280.	251.	570.	821.	3459.	566.	243.	108.			
1996	4230.	0.	4230.	251.	548.	799.	3431.	510.	210.	89.			
1997	4230.	0.	4230.	306.	525.	831.	3399.	459.	181.	74.			
1998	4230.	0.	4230.	284.	503.	787.	3354.0.	423.	159.	62.			
1999	4230.	0.	4230.	284.	480.	764.	3680.6.	387.	139.	52.			
2000	4230.	0.	4230.	284.	458.	742.	4029.4.	354.	122.	44.			
2001	4230.	0.	4230.	284.	435.	719.	4380.4.	324.	107.	37.			
2002	4230.	0.	4230.	284.	413.	697.	4733.8.	296.	93.	31.			
2003	4230.	0.	4230.	284.	390.	674.	5069.3.	271.	82.	26.			
2004	4230.	0.	4230.	284.	368.	652.	5447.2.	248.	71.	22.			
2005	4230.	0.	4230.	284.	345.	629.	5807.7.	227.	63.	18.			
2006	4230.	0.	4230.	284.	323.	607.	6169.6.	206.	55.	15.			
	106562.	6004.	112566.	37731.	13139.	50370.	496453.	5268.	115.	-1759.			

(100,000 BAHIT)

** ECONOMIC-RESOURCE-FLOW ** 3-b-5, Sensitivity Test, with Loan, -10% Investment Costs

YEAR	ECONOMIC BENEFIT (E)	LOANS (L)	RESOURCE INFLOW (X=E + M)	ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED	NET PRESENT VALUE		
									10.00 %	15.00 %	20.00 %
1977	182.	0.	132.	200.	0.	200.	-18.	-18.	-15.	-15.	
1978	421.	C.	421.	202.	0.	202.	219.	201.	181.	152.	
1979	89F.	149.	1047.	663.	0.	663.	394.	585.	288.	222.	
1980	1349.	393.	4742.	9965.	11.	9976.	-5234.	-4650.	-3575.	-2524.	
1981	1771.	723.	2494.	4521.	266.	4787.	-2293.	-6942.	-1424.	-921.	
1982	2141.	330.	2471.	4154.	329.	4478.	-2007.	-8950.	-1133.	-672.	
1983	2534.	144.	2678.	1903.	345.	2248.	430.	-8519.	221.	120.	
1984	3233.	179.	3412.	1865.	355.	2220.	1191.	-7328.	339.	277.	
1985	3912.	174.	4036.	1881.	369.	2250.	1536.	-5492.	779.	356.	
1986	4574.	23.	4597.	1213.	382.	1595.	3002.	-2490.	1157.	485.	
1987	4421.	0.	4421.	220.	639.	859.	3562.	1072.	1248.	479.	
1988	4423.	0.	4423.	209.	620.	829.	3594.	4666.	1145.	403.	
1989	4380.	0.	4380.	210.	601.	311.	3569.	8235.	1034.	334.	
1990	4334.	0.	4334.	211.	582.	793.	3541.	11777.	933.	275.	
1991	4329.	0.	4329.	212.	562.	774.	3555.	15331.	851.	231.	
1992	4279.	0.	4279.	213.	543.	756.	3523.	18854.	767.	191.	
1993	4284.	0.	4284.	213.	524.	737.	3547.	22401.	702.	350.	
1994	4287.	0.	4287.	213.	505.	718.	3569.	25970.	642.	288.	
1995	4280.	0.	4280.	213.	486.	699.	3591.	29551.	586.	252.	
1996	4230.	0.	4230.	213.	467.	680.	3550.	33102.	528.	217.	
1997	4230.	0.	4230.	258.	447.	705.	3525.	36626.	476.	187.	
1998	4230.	0.	4230.	240.	428.	668.	3562.	40188.	436.	165.	
1999	4230.	0.	4230.	240.	409.	649.	3581.	43769.	400.	144.	
2000	4230.	0.	4230.	240.	390.	630.	3600.	47369.	366.	126.	
2001	4230.	C.	4230.	240.	371.	611.	3619.	50988.	334.	110.	
2002	4230.	0.	4230.	240.	352.	592.	3638.	54627.	305.	96.	
2003	4230.	0.	4230.	240.	332.	572.	3658.	58284.	279.	84.	
2004	4230.	0.	4230.	240.	313.	553.	3677.	61961.	255.	73.	
2005	4230.	0.	4230.	240.	294.	534.	3696.	65657.	233.	64.	
2006	4230.	0.	4230.	240.	275.	515.	3715.	69373.	213.	56.	
	106562.	5113.	111675.	31116.	11187.	42303.	69373.	656198.	8767.	2740.	284.

3-b-6, Sensitivity Test, with Loan, Interest Rate 7.5 + 1.0% (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	RESOURCE INFLOW (X=E + N)		ECONOMIC COST (F)	DEBT SERVICE (A)	RESOURCE OUTFLOW (Y=F + A)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED			NET PRESENT VALUE		
		LOANS (N)	RESOURCE INFLOW (X=E + N)					10.00 %	15.00 %	20.00 %	10.00 %	15.00 %	20.00 %
1977	182.	0.	182.	222.	0.	222.	-40.	-40.	-30.	-35.	-33.		
1978	421.	0.	421.	224.	0.	224.	197.	157.	163.	149.	137.		
1979	898.	165.	1063.	732.	0.	732.	331.	488.	249.	218.	192.		
1980	1349.	3704.	5053.	11066.	14.	11080.	-6028.	-5540.	-4117.	-3446.	-2907.		
1981	1771.	771.	2542.	5016.	329.	5345.	-2903.	-8342.	-1740.	-1393.	-1126.		
1982	2141.	357.	2498.	4612.	394.	5006.	-2508.	-10851.	-1416.	-1084.	-840.		
1983	2534.	154.	2688.	2107.	425.	2532.	156.	-10695.	80.	59.	43.		
1984	3233.	191.	3424.	2064.	438.	2502.	922.	-9773.	430.	301.	214.		
1985	3912.	193.	4105.	2082.	454.	2536.	1569.	-8204.	665.	446.	304.		
1986	4574.	25.	4599.	1340.	470.	1810.	2789.	-5415.	1075.	689.	450.		
1987	4421.	0.	4421.	240.	750.	990.	3431.	-1985.	1202.	737.	462.		
1988	4423.	0.	4423.	228.	727.	955.	3468.	1483.	1105.	648.	389.		
1989	4380.	0.	4380.	229.	703.	932.	3444.	4931.	999.	560.	322.		
1990	4334.	0.	4334.	230.	680.	910.	3424.	8356.	902.	484.	267.		
1991	4329.	0.	4329.	231.	656.	887.	3442.	11798.	824.	423.	223.		
1992	4279.	0.	4279.	232.	632.	864.	3415.	15212.	743.	365.	185.		
1993	4284.	0.	4284.	232.	609.	841.	3443.	18656.	681.	320.	155.		
1994	4287.	0.	4287.	232.	585.	817.	3470.	22126.	626.	280.	130.		
1995	4280.	0.	4280.	232.	561.	793.	3487.	25612.	570.	245.	109.		
1996	4230.	0.	4230.	233.	534.	770.	3460.	29073.	514.	211.	90.		
1997	4230.	0.	4230.	232.	514.	796.	3434.	32506.	464.	182.	75.		
1998	4230.	0.	4230.	232.	491.	753.	3477.	35984.	427.	161.	63.		
1999	4230.	0.	4230.	262.	467.	729.	3501.	39485.	391.	141.	53.		
2000	4230.	0.	4230.	262.	441.	705.	3525.	43010.	558.	123.	44.		
2001	4230.	0.	4230.	262.	420.	682.	3548.	46558.	327.	108.	37.		
2002	4230.	0.	4230.	262.	396.	655.	3572.	50130.	300.	94.	31.		
2003	4230.	0.	4230.	262.	372.	634.	3596.	53726.	274.	83.	26.		
2004	4230.	0.	4230.	262.	349.	611.	3619.	57345.	251.	72.	22.		
2005	4230.	0.	4230.	262.	325.	587.	3648.	60989.	230.	63.	18.		
2006	4230.	0.	4230.	262.	302.	564.	3666.	64654.	210.	55.	15.		
	10562.	559.	11211.	34423.	1304.	47465.	64654.	561432.	5750.	1260.	-848.		

** ECONOMIC-RESOURCE-FLOW ** 3-b-7, Sensitivity Test, with Loan, Interest Rate 7.5 - 1.0% (100,000 BAHT)

YEAR	ECONOMIC BENEFIT (E)	LOANS (N)	RESOURCE INFLOW (X=E + N)	ECONOMIC COST (F)	DEBT SERVICE (W)	RESOURCE OUTFLOW (Y=F + W)	ANNUAL BALANCE (Z=X - Y)	ACCUMULATED	NET PRESENT VALUE		
									10.00 %	15.00 %	20.00 %
1977	182.	0.	182.	222.	0.	222.	-40.	-40.	-36.	-35.	-33.
1978	421.	0.	421.	224.	0.	224.	197.	157.	163.	149.	137.
1979	898.	165.	1063.	732.	0.	732.	331.	488.	249.	218.	192.
1980	1349.	3704.	5053.	11066.	11.	11077.	-6024.	-5530.	-4115.	-3444.	-2905.
1981	1771.	771.	2542.	5016.	251.	5267.	-2725.	-8262.	-1692.	-1355.	-1095.
1982	2141.	357.	2498.	4612.	302.	4914.	-2416.	-10677.	-1364.	-1044.	-809.
1983	2534.	154.	2688.	2107.	325.	2432.	256.	-10422.	131.	96.	71.
1984	3233.	191.	3424.	2064.	335.	2399.	1025.	-9396.	478.	335.	238.
1985	3912.	193.	4105.	2082.	347.	2429.	1675.	-7721.	711.	476.	325.
1986	4574.	25.	4599.	1340.	360.	1700.	2899.	-4822.	1118.	717.	468.
1987	4421.	0.	4421.	240.	639.	879.	3542.	-1280.	1241.	761.	477.
1988	4423.	0.	4423.	229.	621.	849.	3574.	2294.	1139.	668.	401.
1989	4380.	0.	4380.	229.	603.	832.	3548.	5842.	1028.	577.	332.
1990	4334.	0.	4334.	230.	585.	815.	3517.	9361.	927.	497.	274.
1991	4329.	0.	4329.	231.	567.	798.	3531.	12892.	845.	434.	229.
1992	4279.	0.	4279.	232.	549.	781.	3498.	16390.	761.	374.	189.
1993	4284.	0.	4284.	232.	531.	763.	3521.	19911.	697.	327.	159.
1994	4287.	0.	4287.	232.	513.	745.	3542.	23453.	637.	286.	133.
1995	4280.	0.	4280.	232.	495.	727.	3553.	27007.	581.	250.	111.
1996	4230.	0.	4230.	232.	477.	719.	3521.	30528.	523.	215.	92.
1997	4230.	0.	4230.	287.	459.	741.	3489.	34017.	472.	185.	76.
1998	4230.	0.	4230.	262.	441.	703.	3527.	37545.	433.	163.	64.
1999	4230.	0.	4230.	262.	422.	684.	3546.	41091.	398.	142.	54.
2000	4230.	0.	4230.	262.	404.	666.	3564.	44654.	352.	124.	45.
2001	4230.	0.	4230.	262.	386.	648.	3582.	48236.	331.	109.	38.
2002	4230.	0.	4230.	262.	368.	630.	3600.	51836.	302.	95.	31.
2003	4230.	0.	4230.	262.	350.	612.	3618.	55453.	276.	83.	26.
2004	4230.	0.	4230.	262.	332.	594.	3636.	59089.	252.	73.	22.
2005	4230.	0.	4230.	262.	314.	576.	3654.	62743.	230.	63.	18.
2006	4230.	0.	4230.	262.	296.	558.	3672.	66415.	210.	55.	15.
	106362.	5559.	112121.	34423.	11282.	45705.	66415.	591247.	7286.	1595.	-626.

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