# ANNEX 3. ROOM RATE

# ANNEX 3. ROOM RATE

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#### ANNEX 3. ROOM RATE

#### 3.1 Current Room Rate

Room rate in Pattaya is analysed here using the list of room rates revised by T.O.T. Pattaya Office in December 1977.

Pattaya accommodates first class hotels, economy class hotels, and bungalows. Their present numbers are as below:

		Northern	Southern	Xid-	
Class *3	Total	Pattaya	Pattaya	Pattaya	
First class hotel	2,851 rooms	2,075 <sup>rooms</sup>	orooms	776 <sup>rooms</sup>	
Economy class hotel	450	450	0	0	*1
Bungalow	517 <sup>*2</sup>	376	141	. 0	
	3.818	2,901	141	776	

- \*1 This figure includes those under construction currently.
- \*2 Here 2 bedrooms are counted as 1 room. If 2 bedrooms are counted as 2 rooms, the figure will be 1,034 rooms.
- \*3 Some hotels have both hotel section and bungalow section.
  In such case they are classified into their main sections.

These figures are adjusted based on note \*2 as following:

		Northern	Southern	Mid-
Class	Total	Pattaya	Pattaya	Pattaya
First class hotel	2,851 (66%)	2,075	0	776
Economy class hotel	450 (10%)	450	0	0
Bungalow	1,034 (24%)	752	282	0
	4,335(100%)	3,277	282	776

Table 1 shows the room rate as of December, 1977 classified into three categories above, and their weighted average.

Class	Baht/day	Dollar/day
First class hotel	445	22,25
Economy class hotel	181	9.05
Bangalow	143	7.15 *1
Average	407	20.45

\*1 Rate for 2.5 bedrooms is divided by 2.5 to get the rate for 1 bedroom.

#### 3.2 Room Rate Discounted for Groups

Here it can be assumed the rate of group tourists and individual tourists to be 60:40, and average discount rate for groups to be about 10%.

		Average	Weighted
Tourist		discount rate	average
Group	60%	10%	54.0%
Individual	40	0	40.0
	<del></del>	·	0. 40

Average rate 20.4 x 0.94 = 19.18 US Dollar/Room/day

### 3.3 Room Rate Discounted During Off-Season

Here it can be assumed 10% of the room rate is discounted for both tourist groups and individuals for the tourism off-season (7 months a year).

Off-season 7 month 19.18 x 90.0% = 17.26 Dollar/Room/day In-season 5 19.18 "

Then, annual discount rate will be,

 $10.02 \times 7/12 = 5.82$ 

and the average room rate will be,

19.18 x 94.2% = 18.07 Dollar/Room/day,

Therefore, the current average room rate is estimated of 18 Dollar/Room/day (360 Baht).

### 3.4 Service Charge and Tax

Guests for hotels will spend a sum of the room rate and the following service charge and tax.

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Type of Charge	Rate	Amount Added to Room Charge
Service charge	10%	1.80 Dollar/Room/day
Tax	8.25%	1.49
Total		3.29 "

The room rate including service charge and tax will be,

Basic room rate	18.07 Dollar/Room/day
Added charges	3.29
	21.36

#### 21.3 Dollar/Room/day

### 3.5 Room Rate per Guest Considering Double Occupancy

If it can be assumed the double occupancy rate to be 1.6 persons per room, room rate per guest will be,

21.36 ÷ 1.6 = 13.3 Dollar/Room/day/person. or = 266 Baht/Room/day/person.

Table 1. Accommodation in Pattaya

# 1. First class hotel

	(1)		2	ŧ	3
	No. of	Daily	Rates/Ba		Accumulate
lo.	rooms	Single D	ouble	Suite	(3=(1)×(2)
1.	266	360	440	700	106,400
**	200	440	520	1,100	
			700	1,200	
	Walter Commence	1		1,600	
				2,500	
2.	220	400		1,000	88,000
2.	220	400		1,200	, ,
	4.			2,400	
	•				
3.	360	400	500	1,000	162,000
	The state	440	580	2,000	
• .		480			
4.	78	250	300		21,450
5.	147	380	449	850	60,932
		449		946	
6.	112	340	380	700	40,320
ψ.	116	•	300	800	,
				1,000	
		***	107		81,356
7.	172	449	497	591 71 <b>0</b>	01,550
				710	•
8.	520	450	450	1,000	234,000
٠.	320	580	580	1,400	·
	•			1,800	
		200	350		38,025
9.	117	300	330		-
	84	700) 2 bedroom		•	58,800
		900, 3, 1, 1, 1		4	
		1,000) 3 beatoon			
		1,100 4 bedroom			
10.	276	639	639	1,419	176,364
101	2,0		, <del> /</del>	2,602	-
	· .	• • •	140	1 200	126 060
11.	274	460	460	1,200	126,040
		520 500	520	1,680 1,500-2,080	•
	<u> </u>	580	580		ro be conti

(First Class Hotel)

	No. of	Dail	② ly Rates/Baht		(3) Accumulate
No.	rooms	Single	Double	Suite	
12.	116	390 420	430 500	550 1,100	47,560
13.	113	240 280 320	220 280 360	680	27,120
TOTAL	2,851	Average Rate	444.9 Ba	ht	1,268,367

2. Economy class hotel

1	(1) lo. of	Dail	② y Rates/Bah	t	(3) Accumulate
io. 1	cooms	Single	Double	Suite	$3=1\times2$
1.	46	160 220			7,360
		260			:
2.	8	150	250		1,600
3.	38	250	250		9,500
<b>.</b>					
4.	14	500 2 bedroom 600 3 bedroom	260 360		3,640
	-				
5.	19	60 100	60 100		1,140
6.	10	80	120		1,000
7.	8	120	160		1,120
			:		
8.	30	270	270	360	8,100
9.	26	250	250		6,500
			1 1		
10.	14	100		·	1,400
11.	9	200	200		5,100
11.	8	400 1 bedroon	200		,
				:	
12.	28	80 100	200		3,920
:-	a Elia	150			
10	20	80		rati	2,240
13.	28	100	:	·:	
14.	50	160	200	350	9,000
14.	JU	VOJ	220	320	
15.	24	120	160		3,360
			180.5		64,980

3. Bungalow

	(1)	<u>②</u>	3
	No. of	Daily Rates/Baht	Accumulate
<b>5</b> ,	rooms	Single Double	$3=0\times2$
_			
1.	23	250 <sub>260</sub> ) 2 bedroom	5,750
		260'	
		360 3 bedroom	
: .	· .	Jou J dedition	
2.	42	250 2 bedroom	10,500
		350 3 bedroom	
		600 4 bedroom	
3.	18	250 2 bedroom	4 <b>5</b> 00
<b>J</b> •	10	400.	4,500
	· · · · · · · · · · · · · · · · · · ·	400 500) 3 bedroom	
	•		
4.	31	175	13,175
		200 1 bedroom	
		250 400, 2	
		450) 2 bedroom	
		550 3 bedroom	
		700 4 bedroom	
5.	35	550) 2 bedroon	21,000
		750 850) 3 bedroom	· · · · · · · · · · · · · · · · · · ·
		1,000	
	:	1,000	
6.	10	200 400	2,500
		100 1 bedroom	
		200 200) 2 bedroom	
		300) 2 bedroom 400 3 bedroom	
	A William Commence	doo beatoon	
7.	22	160	3,960
		180	
:	Const.	200	
	10	400) 2 bedroom	4,500
		500, 5 pearoog	
	*		
8.	32	250	9,600
• •		250 300) 1 bedroom	2,000
		350	
		350 <sub>300</sub> ) 2 bedroom	
	en <del>e</del> n ekk	330 500) 3 bedroom	
		500'	TANK MARKA
			o be continued.

(Bur	galow)			
	① No. of	Daily Rate	s/Baht	③ Accumulate
No.	rooms	Single	Double	(3=(1)x(2
9.	7	60		1,100
		100	e la	
	4	200 2 bedroom	· · · · · · · · · · · · · · · · · · ·	
10.	6	700 2 bedroom	4	4,200
10.	V	Moortoon 2 000		4,200
11.	18	550 3 bedroom		9,900
<b>.</b>	10	JJO J DEGLOOM		7,200
12.	24	600 3 bedroom		14,400
				21,100
13.	9	160		1,440
				_,
14.	32	250	250	8,000
		300	300	
		600) 2) 3) bedroom		
		4)		:
		$\frac{1}{2} \left( \frac{1}{2} \right) \right) \right) \right) \right)}{1} \right) \right) \right)} \right) \right) \right) \right) \right) \right) \right)} \right) \right) \right) \right) \right)}$		
15.	16	150	150	3,300
		250	250	•
	6	250 2 bedroom		
			•	•
16.	76	250 2 bedroom		19,000
		400 3 bedroon		
			÷	•
17.	24	390	390	48,000
		460 300 1 bedroom	460	
		450 550) 2 bedroom	÷	
	72	600 700		
		900-1,200) bedroon		

By T.O.T. Pattaya Office, 1977.

# ANNEX 4. PROFITABILITY OF THE TOURISM INDUSTRY

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	:	
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Fig.	1.	Gross Operating Profit (G.O.P.) for Hotel Industry in Pattaya

#### ANNEX 4 PROFITABILITY OF THE TOURISM INDUSTRY

### 4.1 Hotel Industry

In hotel industry, it is generally believed desirable to maintain the room occupancy rate (R.O.R.) at 60% or a minimum of 50%. However, average R.O.R. of main hotels in Pattaya at present (1976) is estimated to be about 32%. If we consider the increase of visitors in the future, R.O.R. in 1980 will rise to 46%, and it will reach 80% in 1986.

Profitability of the hotel industry is analysed using by two factors such as Gross Operating Profit (G.O.P.) and R.O.R.

Present G.O.P. of hotels in Bangkok and Pattaya is shown in Table-1. The G.O.P.s of 2 major hotels in Pattaya are considerably low, but hotels in Bangkok seem to maintain 10% or higher G.O.P. than those in Pattaya.

Estimated G.O.P. of the hotel industry in Pattaya is as estimated model studies as shown in Table-2 and Table-3.

These Tables show the result of Gross Operation Profit Analysis of hotels, for international tourists who are expected to spend about 505 Baht a day in Hotel, and the other is for domestic tourists who will spend about 355 Baht a day in Hotel. The table 4 shows an item-by-item classification of the cost and expense of the industry.

Table 4. Summary of Model Studies

<del></del>		Million Baht/	550 rooms/year
1.7	Items:	Foreign Tourists Hotel	Domestic Tourists Hotel
1	Sales	150.7R	106.5R
2	Sales Cost	30.1R	21.2R
3	Payrol1	20.0	15.9
4	Other Department Expenses	15.1R	10.6R
5	Undistributed Expenses	5.3R + 17.3	3.8R + 13.2
6	Total Cost and Expenses	50.5R + 37.3	35.6R + 29.1
7	Gross Operating Profit	100.2R - 37.3	70.9R - 29.1

Notes:

- \* Expenditure items are estimated based on those for 1983 as shown in Annex 2.
- \* Per 550 rooms.
- \* Unit: million Baht.
- \* R = Room occupancy rate.
- \* Average annual = (150.7R x 0.74 + 106.5R x 0.26) ÷ 550 = 253.1R thousand Baht/room year.

Therefore, the breakeven point of each hotel type can be obtained by solving the following equations:

Foreign Tourists Hotel; 100.2R - 37.3 = 0 thus, R = 0.37 = 37%, Domestic Tourists Hotel; 70.9R - 29.1 = 0 thus, R = 0.41 = 41%. Accordingly, the critical Room Occuapncy Rate is estimated to be 38% in average.

Table 6. Room Occupancy Rate and Gross Operating Profit

R.O.R		30%	40%		60%	70%	80%	90%
G.O.P (%)	Foreign	-16.4	4.7	16.9	25.3	31.0	35.7	38.9
	Domestic							
	Average*	-18.6	2.9	15.5	24.1	30.1	34.7	38.1

<sup>\*</sup> The ratio of foreign and Domestic tourists (night-stay) to Pattaya is estimated to be 74%: 26% in 30 years, and the average described above is obtained by applying the ratio. Refer to Annex 12.

Through these investigations, it is found that when R.O.R. is lower than 50%, G.O.P. rises sharply with the rise of R.O.R., on the other hand, when it becomes higher than 60%, the rise of G.O.P. becomes moderate.

From this finding it seems necessary for hotels in Pattaya to reach at least 50% to 60% of R.O.R., and about 20% of G.O.P in the near future.

### 4.2 Other Tourism Related Industries

In the related industries, tourists will spend money for foods, tourism activities and shopping, etc. Share of these spending is studied at Annex-2.

As spending pattern will fluctuate with a length of stay of tourists, namely the longer stay the less spending on daily expenditure for related tourism industries than hotel.

As the average length of stay of tourist up to the year of 2006 is about 2.8 days (nights), pattern for three day (night) stay is adopted for the analysis of the gross operation profit of the related industries.

An estimated spending pattern for three day (night) stay tourists is as follows:

Table 7. Share of Spending for the Related Industries

· · · · ·	Spending It	ém Share
1.	Restaurants	(food) 31.4%
2.	Amenity and Activities	Inland (tour) 34.6%
3.	Shopping	34.0%
	Total	100.0%

Cost study was made on three items above showing a breakdown with sales costs, operating costs, undistributed expenses and gross operating profit.

Table 8 shows an estimation of gross operating profit in the related industries. In average, a total cost will be about 87% of the total sales of the related industries and a gross operating profit rate will be about 13% of the total sales of the same sources.

It is estimated that expenditure by day trippers will distribute in the same pattern as night-stay visitors.

Table 1 Typical Profit and Loss Statement of Current Hotel Industries in Thailand 1975 to 1977

Notel	"A" Notel in Bangkok	Sangkok	Kocol in	"g" Hotol in Bangkok	Hotel in	Hotel in Bangkok	Hotel in	ip" in Bangkok	HOEGL CO	"E" (n Pattaya	Hotel in	in Pattura
(med)	Intex	Balanco	thdex	Balance	Index	Balance	Indox	Balance	Index	Balance	Index	Balance
Saleai	:											
&com	40.2	14,524	H.97	17.668		1. 1. 2.			47.7	7,902		:
700%	42.8	36,808			85.5	89,794					8.88	620,57
きがせいきくなが	9.3	7,967	8.7.8	18,036			98.7	157,172	7.87	8.017	:	
#PADO	7.8	6.679	5.6	2,063	14.7.	18,481	2,3	2,084	6.6	637	11.2	5,702
Total Sules	100.0%	85,988	100.02	37,767	100.02	105.274	100.02	159,256	100.0%	16,556	100.0 %	50,781
Cost Expenses:		-								De		
20 20 30 30 30 30 30 30 30 30 30 30 30 30 30												
Nook A	17.6	15,124						:			- ** <u>- **</u>	
Beverago	2.4	2.092									4	
Ochen	1:7	1,430		<del></del>								
Sub-Total	21.7	18,655	18.1	6,847	15.9	16,660	· · · · ·	•••	4			
Payroll	15.6	13.392	29.3	11,065	23.2	24.389			9.07	6.728		
Other Department Expenses					!					7. 1.7		
Sub-Fotal of Cost and Expenses	37.3	30.047	4.14	17,912	39.1	41.049	1.09	95,655	• •			
Gross Trooms:							added			•	-1.	
			<u></u>									
				-	<del></del>					1 t	1	
Cochected Skoenes					÷			:			12	
Administration and Manager	00 EJ	3,335	1 - 1, 1									
ment Fees	£.3	3,700	26.7	13,866	* • .		6.8	14,230	1		77.6	39,415
Promocton	4.5	3,858			42.5	44.783					8.90	18,699
Heat, Latht , Power (Utilities)	11.9	10,203	· .	<u></u>		-  -  -  -  -  -	<del></del>					
Maintenance	4.7	4,024									1	
Taxes and Dution	3.2	2,780	3:7	2,174		<del></del>			6.7	1,116		i de la companya de l
Sub-Total of Expenses	¥.0•	35,036	47.0	17,788	42.5	44,783	69.0	14.230				
Total of Cows and Expenses	7.8.1.	65.083	94.4	35.700	81.6	85,832	69.0	109,885	114.6	18,978	(114.4)	(58.114)
Gross Operating Profite (2)	20.12		29.6		2 7.81		31.0%		-14.6%		27.77-	

Estimated Model Study -(1) Room Occupancy Rate and Gross Operating Profit: Foreign Tourists Hotel Table 2

		8	Condition: Dou	Double Occupancy	ancy Rate	incy Rate = 1.6 Tour	11 2	Room	Ann	Annual Sales (full	full occupa	ncy)	1.6 × 505 × 550 × 365 162.1 million Baht
-			T N	Number of Ro	oms = 550	Rooms		• voning.	Bush	Business tax =	7.0%	Unit: m	million Baht
				1 11		**.		. :	. *. . *.			÷.	
		Room Occupancy (%)	30	4	50	3	02	7.5	08	88	8	100	NOTE
		Sales: Expenditure	٠.	Ē.,	a. Al,	:. ·	:		,÷		1	: .	
	**	Коот	20.3	27.1	34.0	+0.7	47.5	50.9	54.2	\$7.6	61.0	8.73	2 x045= 1 x67.8
•	<del>-3</del>	Food	15.8	21.17	797	31.6	36.9	39.5	ei ei	1 2	47.4	52.7	-1
	) vi	Beverage	4.5	6.0	3.6	9.1	9.01	11.3	13.1	12.8	13.6	181	
	•	beso	4.5	6.0	7.6	9.1	10.6	11.3	12.1	12.8	13.6	15.1	3 × 0.10 = 1 × 15.1
	<b>{ &lt;</b> 4	Total Sales	45.1	60.2	75.6	5.06	9'501	113.0	120.6	128.0	135.6	150,7	L x 162,1 x 93% = 150.7
		Cost Expenses: Cost of Sulca		-	:							:	
-	-	Food	6.3	35 4.	9.01	12.6	14.8	15.8	16.9	17.9	0.61	1:1:	05.0 × ±
	oti	Boverago	4	<b>∞</b>	23	2.7	3.2	3.4	3.6	3.8	<u>-</u>	4.5	5 × 0.30
	6	Other	4.1	×.	2.3	ri i	3.2	.4	3,6	38.	7.	4.5	& x 0.30
4	<u> </u>		9.1	12.0	15.2	18.0	21.2	22.6	1.45	25.5	13.45 14.75 14.75	30.1	2 x 0.20 - 1 x 30.1
-5	=	ya.	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	12	Other Department Expenses	2,4	0.9	7.6	9.1	10.6	11.3	0.5	\$6.5	13.6	1.5.1	2 x 0.10 - 1 x 15.1
	1 =	Sub-Total of Cost and Expenses	33.6	38.0	42.8	17.1	81.8	53.9	1.98	58.3	8'09	65.2	20.0 + 1 × 45.2
	1 2	Gross Income:	11.5	22.2	32.8	4.5.4	53.8	59.1	64.5	69.7	74.8	85.5	3-13- Tx 105.5 - 20.7
٠	]	Undistributed Expenses					:		:				
٠	•	Administration and Management Fees	ces 7.5	7.5	7.5	7.5	7.5	7.5	7.5	2.5	7.5	7.5	150.7 × 0.05 = 7.5
	<u> </u>			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	150,7 N 0,02 * 3.0
	14		6.4	5.3	5.7	6.1	6.5	6.7	8.8	7.0	4.	2.6	150.7 × 0.025 + 1 × 0.02 150.7 = 3.8 + 1 × 3.8
	<u>~</u>	Maintegance	3.0	3,0	30	3.0	3.0	3.0	3.0	3.0	3.0	3.0	150.7 x 0.02 = 3.0
	<b>∮</b> ≘		0.5	9.0	8	6.0	111	<u>بر</u> ټه	1.2	1.3	1.4	1.5	1 x 150.7 x 0.01 - 1 x 1.5
	1 8		18.9	19,4	20.0	20.5	21,1	21.3	21.5	8:12	177	22.6	17.3 + 1. × S.3
	7		52.5	57.4	87.8	67.6	72.9	75.2	77.6	80.1	82.9	87.8	SX T +878-81 + 05
	18	Ů	7.4	ais Ci	12.8	22.9	32.7	37.8	43.0	47.9	\$2.7	65.9	2 - 21 - 1 x 1002-37.3
	<b>:</b>	•	.16.4%	4.7%	16.9%	.25,3%	31.0%	33.5%	35.7%	37.4%	38.9%	41.7%	

Estimated Model Study -(2)
Room Occupancy Rate and Gross Operating Profit.: Domestic Tourists Hotel Table 3

	NUMBER OF NO	of Rooms - 550 Rooms	Rooms		-5	Busines	Susiness Tax = 7.0%,	0%. Unit:	mullon Bahts	9	
Room Occupancy (%)	0.30	<b>6</b>	\$0	09	70	27.	08	\$3	8	, 00 1	NOTE
Sales: Expenditure	£ 4	0	23.9	28.6	£.	35.8	38.2	40.5	42.9	47.7	2 x 0.4S = 1 x 47.7
HOOSE STATES	=		9	22.3	26.0	27.8	29.7	31.5	33.4	37.1	
Boverace	3.2	4	5.3	6,4	7.4	8.0	8.8 2.8	0.6	Ş	10.6	2 × 0.10 = 1 × 10.6
Other	CI CI	4 ci	5,3	4,4	7.4	0.8	φ, φ,	9.0	5,6	10,6	
Total Sales	31.8	42.3	53.1	63.7	74.2	29.6	84.9	90.0	95.3	106.0	1 x 113.9 x 93% = 1 x
Cost Exponses: Cost of Sales				:	. !	•		1.	. :		
Food	4	5.9	7.4	8.9	10.4	11.1	11.9	12.6	13,4	14.8	4 × 0.40
Вочетаке	0.1	1.3	1.6	1.9	2.2	4	2.6	2.7	9.5	er er	S × 0.30
Othern	1.0		1.6	1.9	2.2	4.2	5.6	2.7	2,5	32	6 × 0.30
Sub-Total	4.9	8.5	9.01	12.7	14,00	15.9	17.0	18,0	19.1	21.2	2 x 0.20 = 1 x 21.2
Payroll	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	106.0 x 0.15 = 15.9
Other Department Expenses	ci es	4.2	5,3	4.0	7.4	8	8.8	9.0	9.5	10.6	2 x 0.1 = 1 x 10.6
Sub-Total of Cost and Expenses	25.5	28.6	31.8	35.0	38.1	39.8	47.4	42.9	44.5	47.7	15.9+ L x 31.8
Gross-Income:	6.3	13.7	21.3	28.7	36.1	39.8	43.5	47.1	50.8	58.3	2-13 (1 x 742-15.9)
Undistributed Expenses											
Administration and Management Fees		6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	3	106.0 x 0.06 = 6.3
Promotion	77	7	2.1	2.1	1.5	7:7	7	Ţį.	ri ri	77	106.0 × 0.02 = 2.1
Heat, Light, Power (Utilities)	3.5	3,50	4.1	4.3	4.6	4.7	6,4	8,0	S.1	5.4	106.0 × 0.025+ 1 × 0.025 × 1.06.0 = 2.7 + 1 × 2.7
Maintenance	2.1	검	H	 	뒩	7.1	2.1	77	ដ	7.7	1060×0.02=2.1
19 Taxes and Duties	ં	4.0	9.0	0.7	8.0	8.0	6.0	6.0	0.1	ם	1 x 1060 x 0.01 - 1 x 1.1
***	14,3	14,7	15.2	15.5	15.9	16.0	16.3	16.4	16.4	17.0	132+ 1 x 38
Total of Cost and Expenses	39.8	43.3	47.0	\$0.5	54:0	55.8	57.7	59.3	179	6.7	(29.1 + L x 35.6)
Gross Operating Profit:	-8.0	• 1.0	6.1	13.2	20:5	23.8	27.2	30.2	4	42.3	(1 × 70.4 - 29.1)
	3,1,5	24.4	11.5%	20.7%	27.2%	20.0%	32.0%	भू	38.9%	36.68	

Table 5. Sales Cost and Gross Operating Profit

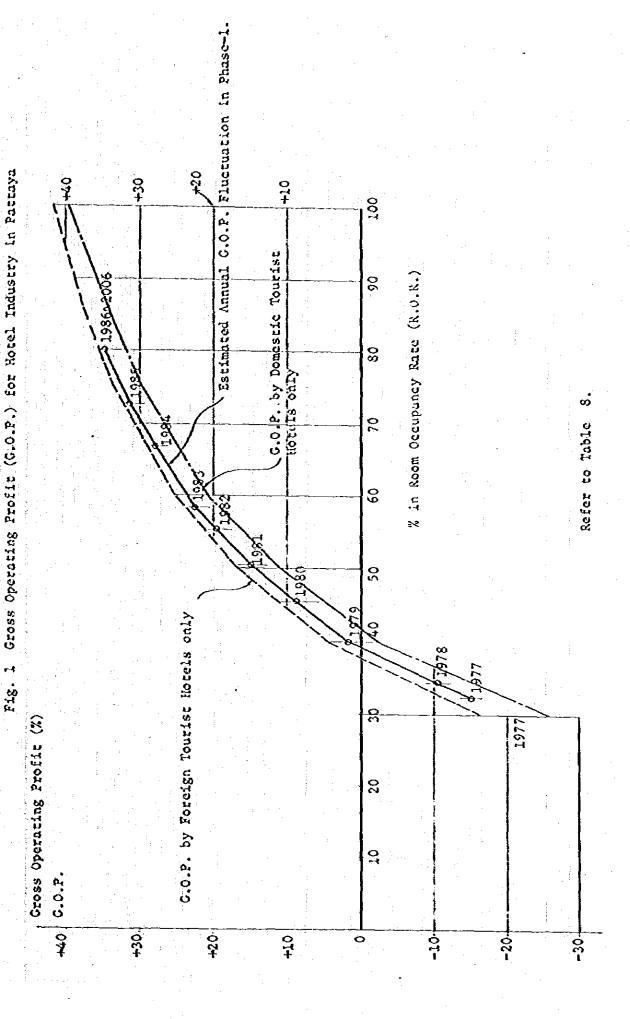
4.44	*	The state of the s	Foreign Tourists	Domestic Tourists	Average
модел	Ş.	1. Com.	Million Baht/ 550 room.year	Milifon Baht/ 550 room, year	Milion Baht/ 550 room year
	ત	Cost of Sales	30.1R	21.2R	
	₩.	Payroll	20.0	15.9	18.9
	 	Other Department Expenses	15.1R	10.6R	17.0R
	7	Subtotal (2 + 3)	20.0 + 15.1R	15.9 + 10.6R	18.9 + 14.0R
for	ĸ	Administration and Management	7.5	6.3	7.2
Hotel	φ	Promotton	3.0	2.1	2.7
Room	7	Utilities	3.8 + 3.88	2.7 + 2.7R	3.5 + 3.5%
<b>\</b>	တ	Maintenance	9.0	7.2	2.7
*.	σ	Tax and duties	1.5R	ZI.	1.48
	07	Subtotal (5 ~ 9)	17.3 + 5.38	13.2 + 3.8R	16.1 + 4.98
	#	Total (4 + 10)	37.3 + 20.4R	29.1 + 14.4R	35.0 + 18.9R
	27	Grand Total( 1 + 11 )	37.3 + 50.5R	29.1 + 35.6R	35.0 + 47.1R
			Thousand Baht/ room.year	Thousand Baht/ room.year	Thousand Baht/ room, year
	н	Cose of Sales	54.7R	38.5R	S1.3R
for	7	Subtotal (2 + 3)	36.4 + 27.5R	28.9 + 19.3R	34.3 + 25.4R
one one	10	Subtotal (5 ~ 9)	31.5 + 9.6R	24.0 + 6.9R	29.3 + 8.9K
E CO	11	Total ( 4 + 10 )	67.9 + 37.1R	52.9 + 26.2R	63.6 + 34.3R
	17	Grand Total(1 + 11)	67.9 + 91.8R	52.9 + 64.7R	63.6 + 85.6R

Note 1) R is room occupancy rate in %. 2) Refer to Table 2 and Table 3.

Table 8 Estimated Gross Operating Profit for Hotel Industry in Pallaya

lo.	Year	Guest Night ( (1) Foreign	unit: 1,000) (2) Domestic	Ratio (1) + ((1) + (2)) %	Room Occupancy Rate %	Gross Operation Profit 2
1 :	1977	396	261	60,3	31.2	-15.0
2	1978	439	275	61.5	34.0	-10.5
3	1979	516	326	61.3	40.0	+ 2.0
4	1980	603	353	63.1	45.4	+ 9.0
5 :	1981	704	397	63.9	50.3	+15.0
6	1982	831	412	66.9	55.3	+20.0
7	1983	972	428	69.4	58.3	+23.0
8	1984	1,130	473	69.3	65.7	+28.0
9	1985	1,305	490	72.7	72.6	+31.0
0 🖹	1986	1,500	510	74.6	80.0	+34.5
1	1987		480		78.8	
2	1988					
3	1989		. 4			
4	1990					
5	1991					
6	1992					
7	1993					
8	1994					
9	1995					
0	1996					
1	1997					
2	1998					
3	1999					
4 5	2000 2001					ACCIA AND
6	2001					To the section of the
7	2002					
8	2003					
9	2004					
10	2006	1,500	480	74.6	78.8	+34.5
	otal	38,396	13,525	73.9	70.3	+28.7

Note: for the Guest Night, Refer to Table 9. Annex 12.



Gross Operating Profit in Related Tourism Industries (%) Table 9

	Res	Restaurants	8)	Amenit	Amenity and Inland Activi	Amenity and Inland Activities		Shops		
Cost Items	*1 Ratio	*2 Spend.	*3 Share	Racto	Spend.	Share	Racio	*1 *2 *3   tatio Spend. Share Ratio Spend. Share Ratio Spend. Share	Share	Average
Sales Cost	20.04	31.4%	12.6%	10.0%	34.6%	40.0% 31.4% 12.6% 10.0% 34.6% 3.5% 60.0% 34.0%	60.0%	34.0%	20.4%	36.5%
Operating Cost	30.0	<b>.</b>	7.6	9.4 65.0	<b>:</b>	22.5	22.5 25.0	£	8.5	7.07
Undistributed Expenses	10.0		3.11	3.1 10.0	£	3°.5	3.5 10.0	<b>*</b>	3.4	10.0
Total Cost	80.0	-		85.0	r	•	- 95.0	E	1	86.9
Gross Operating Profit	20.0%			15.0%	<b>‡</b>		2.0%	<b>≜</b> (.	•	13.1%

Racio for total sales (100%)
Spending a day by a tourist (three days of stay)
Refer Annex-2.
Share of cost for each, (\*1 x \*2) Note

Table 10 Cost Distribution of Sales in Hotel Industry (Model Study)

Room Total Occupancy Sales         Annual Sales and Illion Baht/550 Rooms In Total Baht #1.2         Percentage In Total Sales           31.2% #11ion Baht/550 Rooms In Total Baht #2.4         18.9 + 14.%         Sales Sales           31.2% #3.4         23.3         53.7%           34.0         47.3         23.7         50.1           40.0         55.6         24.5         44.1           40.0         55.6         24.5         44.1           50.3         70.0         25.9         37.0           55.3         76.9         26.6         34.6           55.3         81.1         27.1         33.4           65.7         91.4         28.1         30.7           72.6         101.0         29.1         28.8           80.0         111.3         30.1         27.0           78.7         109.5         29.9         27.3           78.7         109.5         29.9         27.3           78.7         40.0         4         4				Payroll and	and Other		Undistration, Management	men t	Cost of	Total
Occupancy Sales million Baht/550 Rooms Fercentige Rate (R) million 18.9 + 14.R Sales  31.2% 43.4 23.3 53.7% 34.0 47.3 23.7 50.1 40.0 55.6 24.5 44.1 45.5 63.3 70.0 25.9 37.0 50.3 70.0 25.9 37.0 56.3 81.1 27.1 33.4 65.7 91.4 28.1 30.7 72.6 101.0 29.1 28.8 80.0 111.3 30.1 27.0 78.7 109.5 29.9 27.3	Year	1 1	Annual	111111111111111111111111111111111111111	Semador				Sales	Cost and Expenses
#1 Baht #2 18.9 + 14.R Sales  31.2% 43.4 23.3 53.7%  34.0 47.3 23.7 50.1  40.0 55.6 24.5 44.1  45.5 63.3 25.3 40.0  50.3 76.9 26.6 34.6  58.3 81.1 27.1 33.4  65.7 91.4 28.1 30.7  72.6 101.0 29.1 28.8  80.0 111.3 30.1 27.0  78.7 109.5 29.9 27.3		(R)	Sales	_	O ROOMS	Percentage in Total	million Baht/550 Rooms		ል፣	on Total
31.2%       43.4       23.3       53.7%         34.0       47.3       23.7       50.1         40.0       55.6       24.5       44.1         45.5       63.3       25.3       40.0         50.3       70.0       25.9       37.0         50.3       76.9       26.6       34.6         55.3       81.1       27.1       33.4         65.7       91.4       28.1       30.7         72.6       101.0       29.1       28.8         80.0       111.3       30.1       27.0         78.7       109.5       29.9       27.3         78.7       109.5       29.9       27.3		H	Baht *2	+	2	Sales	16.1 + 4.9K	Sales	200	in %
34.0       47.3       23.7       50.1         40.0       55.6       24.5       44.1         45.5       63.3       25.3       40.0         50.3       70.0       25.9       37.0         50.3       76.9       26.6       34.6         58.3       81.1       27.1       33.4         65.7       91.4       28.1       30.7         72.6       101.0       29.1       28.8         80.0       111.3       30.1       27.0         78.7       109.5       29.9       27.3         78.7       109.5       29.9       27.3	1977	31.2%	43.4	23.3		53.7%	17.6	29.07	20.02	114.3
40.0       55.6       24.5       44.1         45.5       63.3       25.3       40.0         50.3       70.0       25.9       37.0         50.3       76.9       26.6       34.6         55.3       76.9       26.6       34.6         58.3       81.1       27.1       33.4         65.7       91.4       28.1       30.7         72.6       101.0       29.1       28.8         80.0       111.3       30.1       27.0         78.7       109.5       29.9       27.3         78.7       109.5       29.9       27.3	78	34.0	47.3	23.7		50.1	17.8	37.6		107.7
45.5       63.3       25.3       40.0         50.3       70.0       25.9       37.0         55.3       76.9       26.6       34.6         58.3       81.1       27.1       33.4         56.7       91.4       28.1       30.7         72.6       101.0       29.1       28.8         80.0       111.3       30.1       27.0         78.7       109.5       29.9       27.3         78.7       109.5       29.9       27.3	79	40.0	55.6	24.5		1.55	18.1	32.6		2-96
50.3       70.0       25.9       37.0         55.3       76.9       26.6       34.6         58.3       81.1       27.1       33.4         65.7       91.4       28.1       30.7         72.6       101.0       29.1       28.8         80.0       111.3       30.1       27.0         78.7       109.5       29.9       27.3         78.7       109.5       29.9       27.3	8	45.5	63.3	25.3		0.04	18.3	28.9		88.9
55.3       76.9       26.6       34.6         58.3       81.1       27.1       33.4         65.7       91.4       28.1       30.7         72.6       101.0       29.1       28.8         80.0       111.3       30.1       27.0         78.7       109.5       29.9       27.3         78.7       109.5       29.9       27.3	87	50.3	70.0	25.9		37.0	18.8	26.9		83.9
58.3     81.1     27.1     33.4       65.7     91.4     28.1     30.7       72.6     101.0     29.1     28.8       80.0     111.3     30.1     27.0       78.7     109.5     29.9     27.3       78.7     109.5     29.9     27.3	82	55.3	76.9	26.6		34.6	8.81	24.4		79.0
65.7 91.4 28.1 30.7 72.6 101.0 29.1 28.8 80.0 111.3 30.1 27.0 78.7 109.5 29.9 27.3	83	58.3	81.1	27.1		33.4	0.61	23.4		76.8
72.6 101.0 29.1 28.8 80.0 111.3 30.1 27.0 78.7 109.5 29.9 27.3	. 84	65.7	91.6	28.1		30.7	19.3	21.1		71.8
80.0 111.3 30.1 27.0 78.7 109.5 29.9 27.3 78.7 109.5 29.9 27.3	88	72.6	101.0	29.1		28.8	19.7	19.5		68.3
78.7 109.5 29.9 27.3	86	80.0	111.3	30.1	<del></del>	27.0	20.0	18.0		65.0
78.7 109.5 29.9 27.3	- 82	78.7	109.5	29.9		27.3	6.61	18.2		65.5
78.7 109.5 29.9 27.3				<b></b>				-		
	2006	78.7	109.5	29.9		27.3	19.9	18.2		65.5

139.1 million Baht/550 Rooms. year Total sales in average: 150.7 x 74% + 106.0 x 26% - 111.5 + 27.6 Refer to Table 7. Note 1) Note 2)

# ANNEX 5. IMPLEMENTATION SCHEDULE OF OTHER FACILITIES: "CATEGORY - B"

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5.		Schedule of Social	5-3
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Implementation Schedule of Facilities in Main Amenity Core Table

	Unit		, E - 3- 1			Sched	ule				:
recalltres	4n m²	1977	1978	1979	1977 1978 1979 1980	1981	1981 1982	1983	1983 1984 1985 1986	1985	1986
Comperchal (Private)	74,900										
Multi Furbose Hall	) (0) (0) (1) (1)	: 	÷	-	•	Process or constitution of the second					
Handlonar I Center	7,200										
	2002		· · · · · · · · · · · · · · · · · · ·					Water to the second	The state of the state of		
Porking Area	5,700			. <del>-</del>							
Landscaping	25,200			- <b>-</b> -							
	716 000										
r gveneral	200	:			to the state of the state of	and the second second	-				
Kenoval of Extsting Bullangs	000	: '									
rurchase of Land (rubine)	000, 40,		- 1								
Authorise OF Land (Fritvate)	204,001										
Cristians (rapidal)	000,400	**		<b>.</b>							
A CONTRACT OF THE CONTRACT OF	2	Winds of a second	A William Co.					And the second state of the second se	1000	A STATE OF THE STA	

Total land required: 17.5 ha.

able 2 Implementation Schedule of Facilities in Northern Core

	ຕົກໄຕ	<u>.</u>				Schee	lule		:	i   .	
אמנודונוטטא	In m2	1977	1977 1978 1979 1980	1979	1980	1981 1982	1982	1983	1982 1983 1984 1985 1986	1982	1986
										l	and the state of t
Commercial	2,000			-							
Beach Facilities	750								.*		
	00% 10										
Sur day or the surface of the surfac	2000										Annual Control
ravenen	43,630										
Purchase of Land	000,74			-							
	,									•	

Total land required: 5.7 ha.

Implementation Schedule of Facilities in Inland Activity Zones

Sport Zone 100,000 1977 1978 1979 1980 1981 1984 1982 1984 1984 1985 Sport Zone 100,000			Unit		:		Schedule			1	·	
Sport Zone         100,000           Natural Zone         700,000           Orchid Garden         40,000           Display         40,000           Animal Park         50,000           Botanical Garden         60,000	イコイコでのな	୍ଦର ଓଡ଼	in at	1977	1978	1979	981 15		1.		1985	9857 7380
Sport Zone 100,000  Natural Zone 700,000  Orchid Garden 40,000  Display Animal Park 50,000  Botanical Garden 60,000						-:			The second section of the sect	4. 3. 4.		
Natural Zone         700,000           Orchid Garden         40,000           Elephant-at-Work         40,000           Animal Park         50,000           Botanical Garden         60,000           Park         400,000	Norhern	Sport Zone	000.001					7		ALE THE SECTION		
Orchid Garden Elephanc-at-Work Display Animal Park Botanical Garden	Zone	Natural Zone	700,000		. !!		1:		An exercise solution		A distribution of the second	1 a
Elephanc-at-Work Display Animal Park Botanical Garden Park	<b>!</b>	Orchid Garden	000,07			-1 	1					
Animal Park Botanical Garden Park	Contral	Elephant-at-Work Display	40,000	4	A common de comm		and the second s	1				d 1
Botanical Garden	Zone	Animal Park	\$0,000						1	:		
3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		Botanical Garden	60,000								1	
	Central	3	400,000				1				A CONTRACTOR OF THE CONTRACTOR	artin.

Implementation Schedule of Facilities in Beach Facility (Ko Lan Island)

Facilities	Under In m	1977	Schedule 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986	979 1980	Schedule 1980 1981	edule 1932	1983	7861	Schedule 1981 1982 1983 1984 1985 1986	986
Earth Work Building	5,000									

Table 5 Implementation Schedule of Social Infrastructures

Facilities School Community Community Fost Of		Unit	6.1.2042	
v v	T. C.	in m	1977 1978 1979 1980 1981 1982 1983 1984 1985	3861
	School Community Facilities			The state of the s
	Communication Center Post Office Police Box Fire Department			
ABB B L	Open Space (City Park   Children Park   Promenade			
Na Klua Town-8	Open Space  Children Park  Promenade			
8 3	School Community Facilities [Communication Center Post Office Police Box Fire Department Hospital Open Space [City Park Children Park Promenade			

Inble 6 Implementation Schedule of Facilities in Hotels by Private Investment

Faciltates	Chite in m <sup>2</sup>	1977 1978 1979 1980	1979	Sch. 1980	Schedule 1981 1982	1983	1983 1984	1985 1986	1986
					No.				1
			• · · · · · · · · · · · · · · · · · · ·					:	
Parking Areas	- 1 - 1 <u>- 1</u>		-					.:	٠
Landscaping									
Facility in Ko Lun Island					A Control of the		The state of the s		

Implementation Schedule of Facilities in Restaurants and Others by Private Investment

	Unit	The second of th		avec the state on	Schedule	 	
	fn m <sup>2</sup>	1977 1978	1979	1980	1977 1978 1979 1980 1981 1982	 1983 1984 1985 1986	1986
					Samples (Co.) to problem the Co. Co. Co. Co.		
FETTED WORKS							2
Cultural name of the control of the				aling the state of	the encoderate of the control of the profit of the appropriate control of the con	Professional and American	

# ANNEX 6. PROJECT COST ESTIMATION

# ANNEX 6. PROJECT COST ESTIMATION

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		Phase-1	
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•	i de la compania de La compania de la co		
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	4.1.2					
	4.1.3			L(3)		
	4.1.4	- , , , , , , , , , , , , , , , , , , ,	do i esta a i zate	-(4)		6-42
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-	; ; ,		(1) 新维克特	(Exclu	ding Park	
	4.1.8		do 1. 4 7470		ty)	
	and the second of	Unit Price-(1)	du Na Banaki Hakis	-(8) Ko Lan	Island	6-45
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•		Compensation	). Instrucent	* * * * * * * * * * * * * * * * * * * *		6-47
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## 1. Total Project Cost

						Unit: 1	Unit: million Baht
Category	Land Acquisttion	Civil Works and Equipment	Consulting Services	Total Physical Facilities	Project Administration	Total Project Cost USS	ofect US\$ million
A: Infrastructure	221.8	706.9	65.3	994.0 (34%)	98.2	1,092.2	54.6
B: Other Facilities *2	633.7	1.196	1.96	1,690.9 (57%)	30.8	1,721.7	86.1
Base Line Cost	855.5	7,668.0	161.4	2,684.9	129.0	2,813.9	140.7
Physical Increase	•	117.0	11.3	128.3 (4%)		128.3	
Price Increase	:	133.7	12.9	146.6 (52)	1	146.6	
Contingencies Sub-Total		250.7	24.2	274.9		274.9	13.8
Total Project Cost	855.5 (29%)	1.918.7	185.6 (62)	2,959.8 (100%)	129.0	3,088.8	154.5

"1 : Public Infrastucture such as Road and Street System, Sewerage System, Storm Water Drainage System, Solid Waste Collection and Disposal, Port Facilities and Water Supply System. Notes:

for Financial and Economic Analysis. \*2 : Other Facilities in Public Sector -- Iourism -- Amenity Core, Inland Activity Facilities. -- Residencial -- School, Hospital and Open space.

Other Facilities in Private Sector -- Tourism -- Hotels and Restaurants for Economic Analysis.

\*3 : No contingecies pur on the land Acquisition.

Total Project Cost of Infrastructure by Major Project Components Category-A Table 1.2

				Category-A	<b>7-</b> A		Unit: mi	Unit: million Baht
	Major Project Components	Land	Civil Works and Foutneent	Consulting Services	Total Physical Facilities	Project Administration	Total Project Cost USS	ject. USS miliion
-								
	Road and Street System	182.5	129.1	11.5	323.1 (29%)	26.0	349.1	27.4
	Severage System	## ##	159.3	14.7	192.1 (172)	19.9	212.0	10.6
:	Storm Water Drainage	18.4	22.9	2.4	(27) (7%)	5.6	49.3	2.5
-	System Solid Waste Disposal	9.0	19.7	8.4	22.1 (2%)	13.1	35.2	o ed
	System Port Facilities	ı	53.6	5.4	(29) 0.65	6.2	65.2	3.2
	Water Supply System *1	2-2	322.3	29.5	354.0 (32%)	27.4	381.4	1.61
6-	Base Line Cost	221.8	706.9	65.3	994.0	98.2	1,092.2	9.75
. h	Physical Increase	:	5.67	9.7	54.1 (5%)	<b>I</b>	24.1	2.7
	Price Increase	. 1	56.6	5.2	61.8 (5%)	ı	61.8	H. 6
	Contingencies Sub-Total		106.1	φ, φ,	115.9		6.811	8.
٠	Total Project Cost	221.8 (20%)	813.0 (73%)	75.1	1,109.9	98.2	1,208.1	7.09

Cost on Water Supply System was estimated tentatively based on the study output by the Masterplan. Note \*1

Table 1.3 Total Project Cost by Other Facilities

Category B.

Unit: million Baht

US\$ militon 21.6 8.0 20.0 44.5 36.1 7:76 Total Project 431.8 399.4 890.5 159.0 74.2 87.8 1,721.7 1,880.7 Cost Administration Project 30.8 30.8 30.8 Total Physical 401.0 (22%) 399.4 (22%) 890.5 (48%) Facilities 84.8 (4%) 74.2 (4%) 1,849.9 (1001) 159.0 1,690.9 Consulting Services 110.5 13.0 23.5 59.6 96.1 7:7 Civil Works Equipment 130.0 235.3 595.8 961.1 67.5 77.1 3.441 1,105.7 (%09) pud Acquistation Land 258.0 9.071 235.1 633.7 633.7 (34%) Social Infrastructure Horel and Rescourant Public Amenicy Core Total Project Cost Major Project Physical Increase Components Base Line Cost Price Increase Contingencies Sub-Total

Inland Activity Zones, and Beach Main Amenicy Core, Northern Core. Facilities. Public Amenity Core .. \* Notes:

Communication Center, Fire Department and Kospital and Open Space as School ant their related facilities, Community Facilities as Ciry Park, Children Play Park and Promenade. Social Infrastructure 

\*3 : Hotel and Restaurant ..... by Privatate Sector.

Table 1.4 Breakdown of Project Cost of Infrastructure in Areas

Category A

		Land		ર્શે 	CLVII WOTH	5	υ,	Consulting		3	Total Physical	Cal		Project		•	Total Project	oject	
	Veg.	Acquistrion	ç	<b>P04</b>	and Equipment	, u	<i>ن</i> ه	Services		<b>4</b>	F&C111646#		Adm	Administration	Top		8		
Arot	13	₿s.	£4	н	gu-	н	ני	Ĕŧ	Ęŧ	11	£4	44	ıı	E.	H	н	£4	ы	USS million
Tourism Area	102.9	- 1	102.9	102.9 216.0 70.3 286.3	70 3	286.3	1	26.3	26.3	318.9	9.96	415.5	8.87		8.84	367.7	9-96	6.797	ន
400	118.9	. 1	118.9	322.7	98.0 420.7	420.7	1	39.0	39.0	442.6	137.0	878.6 878.6	7.67	,	7.67		137.0		31.4
Base Line Cost	221.8	1	221.8	221.8 538.7 168.3 707.0	168.3	707.0		65.3	65.3	760-5	233.6	2.766	98.2	•	98.2	858.7	233.6	233.6 1,092.3	\$4.6
Physical Increase	` ,	•	1	37.7	11.8	49.5	ı	4.6	4.6	37.7	16.4	54.1	,		•	37.7	16.4	7.7	
Price Increase	,	1		43.1	33.5	56.6		5.2	5.2	43.1	18.7	61.8	•	•		43.1	18.7	62.8	
Contingencies Sub-Total	*	1	•	80.8	25.3 106.1	106.1	1	20	8.6	80.8	35.1	115.9	1	1	•	80.8	35.1	115.9	¥
Total Project Cost 221.8	221.8	ı	221.8	619.5 193.6 813.1	193.6	813.1 (732)		75.1	75.1	841.3	268.7 1	268.7 1,110.0	98.2	1	98.2	939.5	268.7 1,208.2	1, 208, 2	4.04

Note: A - Local Currency portion in million Baht

F - Foreign Currency portion in million Baht

T - Total

(					*:		
2.	Constr	uction Cost	and Land C	ost:	Catego	ry A, Infrasi	lructure
			en e				

Table 2.1 Construction Cost: Public Sector: Phase-1
Category A
(excluding Land Cost)

Unit: x103Baht

System	•	Tourism Area	Residential Area	Total
	L	51,961	58,884	110,845
1. Road and Street	F	13,579	4,660	18,239
	T	65,540	63,544	129,084 (18%)
	L	39,928	82,136	122,064
2. Sewerage	F	16,588	20,660	37,248
	Ť	56,516	102,796	159,312 (23%)
*1	Ь	14,453	7,209	21,662
3. Storm Water Drainage	F	940	338	1,278
	T	15,393	7,547	22,940 (3%)
	1.	2,102	3,760	5,862
4. Solid Waste Disposal	P	5,625	8,200	13,825
	T	7,727	11,960	19,687 (3%)
	L	45,618	-	45,618
5. Port Facilities	P	7,986		7,986
	Ť	53,604	-	53,604 (8%)
	L	61,922	170,671	232,593
6. Water Supply	F	25,620	64,130	89,750
	T	87,542	234,801	322,343 (45%)
	L	215, 984 (75%)	322,660 (76%)	538,644 (76%)
	F	70,338(14%)		168,326 (24%)
Total	T	286,322(100%		706, 970(100%)
		(40%)	(60%)	(100%)

## Notes:

- \*1 Cose for collection trucks and other mechanical instrument are put on the operation cost.
- L: Local Currency
- F: Foreign Currency
- T: Total

Table 2.2 Land Cost : Public Sector : Phase-1

Category A Unit: x10<sup>3</sup>Baht
Tourism Residential Total

7 a 5	System	Tourism	Residential	Total
1	Road and Street	80,064	102,427	182,491
2	Sewerage *2	5,016	13,067	18,083
3	Storm Water Drainage	17,137	1,306	18,443
4	Solid Waste Disposal	171	416	587
5	Port Facilities *1	-	-	-
6	Kater Supply *2	549	1,691	2,240
	Total	102,937	118,907	221,844

Note: \*1 Port Facilities will install on the reclaimed land.

12 Piping works such as distribution lines and sewer main etc, will be executed on the right of way of the road and street system.

Table 2.3 Construction Cost (1) : Road and Street System i Phase-1

Works Road Categories		Tourism Area	Residential Area	Unit: x10 <sup>3</sup> Bahı Total
1. T-1 Arterial Tourism Road	L P T	29,238 7,355 36,593 (41,283)*		29,238 7,355 36,593 (41,283)
2. T-2 Tourism Road	L F T	5,838 1,812 7,650 ( 2,275)		5,838 1,812 7,650 ( 2,275)
3. T-3 Beach Promenade	L F T	6,588 3,173 9,761		6,588 3,173 9,761
4. T-4 Park Street	L F T	1,268 249 1,517 ( 749)	-	1,268 249 1,517 ( 749)
5. T-5 Tourism Access Street	L F T	6,442 791 7,233 (20,177)		6,442 791 7,233 (20,177)
6. T-6 Tourism Access Street	L F T	2,124 122 2,246 (15,456)		2,124 122 2,246 (15,456)
7. Ko Lan Island Tourism Promenade	L F T	463 77 540 ( 124)		463 77 540 ( 124)
8. R-1 Main Residential Road	L F T		19,654 2,412 22,066 (13,436)	19,654 2,412 22,066 (13,436)
9. R-2 Collector Street	L F T		39,230 2,248 41,478 (88,991)	39,230 2,248 41,478 (88,991)
Sub-Total	L P T	51,961 13,579 65,540	58,884 4,660 63,544	110,845 18,239 129,084
10. Land Cost	L P T	(80,064) (80,064)	102,427 102,427	(182,491) (182,491)
Total	L P T	132,025 13,579 145,604	161,311 4,660 165,971	293,336 18,239 311,575

L: Local Currency

F: Foreign Currency

T: Total

<sup>\*</sup> Figures in parentheses show Land Cost.

Table 2.4 Construction Cost (2): Sewerage System: Phase-1

Unit: x103Baht

		<del> </del>	<del> </del>	Unit; XIV Bant
Works	-	Tourism Area	Residential Area	Total
	L	23,779	48,844	72,623
1. Sewerage Pipeline	P	4.046	8,962	13,008
I. Denotage Tipozino	7	27,825	57,806	85,631
		5,266	2,911	8,177
2. Pumping Station	F	219	127	ii ₃ 346
	T	5,485	3,038	8,523
	L	8,423	28,215	36,638
3. Treatment Plant	P	2,185	6,431	8,616
	Т	10,608	34,646	45,254
	L	924	1,654	2,578
4. Erectric & Machinary		3,789	5,140	8,929
4. Electic a nacinitary	Ť	4,713	6,794	11,507
		4,715	0,,,,,,	
	lL		512	512
5. Piping System	P	<b>-</b> 1 - 1 - 1 - 1	0	, , 0
	Т	-	512	512
	L	1,536	_	1,536
6. Ko Lan Island	l F	6,349	<u>-</u>	6,349
(Purification Tanks)	T	7,885		7,885
(Iulilication ranks)				<u> </u>
	L	39,928	82,136	122,064
Sub-Total	F	16,588	20,660	37,248
	T	56,516	102,796	159,312
	L	5,016	13,067	18,083
7. Land Cost	P	-		_
7. Edild Cost	T	5,016	13,067	18,083
	L	44,944	95,203	140,147
Total	P	16,588	20,660	37,248
	T	61,532	115,863	177,395

L: Local Currency F: Foreign Currency

T: Total

Construction Cost (3) : Storm Water Drainage System : Phase-1

Works	1	ranger and the second of the s	18 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Unit: x103Bal
MULKS	4-1	Tourism Area	Residential Area	Tótal
1. Open Channel	L P T	6,333 531 6,864	4,462 258 4,720	10,795 789 11,584
2. Box Culvert	L P	2,700 53 2,753	615 12 627	3,315 65 3,380
3. Weir (Spillway)	LPT	696 24 720		696 '24 720
4. Branch Open Channel	LPT	4,265 135 4,400	2,132 68 2,200	6,397 203 6,600
5. Grading of Pond (at Central Park)	L P T	459 197 656		459 197 656
Sub-Total	L P T	14,453 940 15,393	7,209 338 7,547	21,662 1,278 22,940
6. Land Cost	L P T	17,137 17,137	1,306 1,306	18,443 18,443
Total	L P T	31,590 940 32,530	8,515 338 8,853	40,105 1,278 41,383

L: Local Currency
P: Poreign Currency
T: Total

Table 2.6 Construction Cost (4) : Solid Waste Disposal System : Phase-1

	1			Unit: x10 <sup>3</sup> Baht
Works	an A	Tourism Area	Residential Area	Total
1. Pattaya *1	L	1,716	1,893	3,609
	P	3,891	4,116	8,007
	T	5,607	6,009	11,616
2. Na Kiua *2	L P T	<u>-</u> -	1,867 4,084 5,951	1,867 4,084 5,951
3. Ko Lan Island *3	L F T	386 1,734 2,120	<u>-</u> :- :- :-	386 1,734 2,120
Sub-Total	L	2,102	3,760	5,862
	F	5,625	8,200	13,825
	T	7,727	11,960	19,687
4. Land Cost	L	171	416	587
	F	-	-	-
	T	171	416	587
Total	L	2,273	4,176	6,449
	P	5,625	8,200	13,825
	T	7,898	12,376	20,274

Notes:

L: Local Currency
F: Foreign Currency

T: Total

\*1, \*2: Sanitary Landfill method is adopted for Mainland.

\*3 : Incinerators will be installed in Ko Lan Island.

Table 2.7 Construction Cost (5) : Port Facilities : Phase-1 for Pattaya/Ko Lan Piers

Works	-	Tourism Area	Residential Area	Unit: x10 <sup>3</sup> Ba Total
l. Pier	L F	11,605 176 11,781		11,605 176 11,781
2. Revetment [1]+[2]	L P	7,587 41 7,628		7,587 41 7,628
3. Artifitial Beach	L P T	622 622	-	622 622
i. Dredging	L P T	1,345 3,552 4,897		1,345 3,552 4,897
5. Land Reclamation	L F	6,105 1,628 7,733		6,105 1,628 7,733
6. Navigation Aids	L P	215 1,630 1,845		215 1,630 1,845
7. Administration Office	LPT	3,009 3,009		3,009 3,009
8. Park	L P T	771 771		771 771
9. Road and Lighting	L F T	679 757 1,436		679 757 1,436
O. Lunching Way	Ł P T	186 - 186		186 . 186
1. Ko Lan Island (Three Piers)	L F T	13,494 202 13,696		13,494 202 13,696
Total	L P T	45,618 7,986 53,604	<u>-</u>	45,618 7,986 53,604

L: Local Currency
P: Foreign Currency
T: Total

Table 2.8 Construction Cost (6): Water Supply System: Phase-1

Unit: x103Baht

		<del></del>	<del></del>	unit: xiu bant
Works		Tourism Area	Residential Area	Total
	I.	1,105	3,335	4,440
Tatoko	P	521	1,569	2,090
. Intake	T	1,626		6,530
		1,020	4,904	
	L	2,175	6,555	8,730
. Raw Water Main	F		- 1	-
	T	2,175	6,555	8,730
	L	25,859	77,956	103,815
. Treatment Plant	P	12,996	39,174	52,170
	T	38,855	117,130	155,985
	L	2,576	2,904	5,480
والمتعارض المتعارض المناسبات المناسبات			3,588	6,770
. Transmission Pipe	F	3,182		
	T	5,758	6,492	12,250
	L	6,640	20,204	26,844
. Service Reservoir	P	_	-	-
	T	6,640	20,204	26,844
	L	7,110	23,144	30,254
Electric & Instrume	nt   F	3,910	12,730	16,640
Pumping Well & Hous	е т	11,020	35,874	46,894
	Ь	170	552	722
	P	395	1,285	1,680
7. Lifting Pump	T	565	1,837	2,402
		4 946	21,421	28,266
	L	6,845		
8. Elevated Tank	F	329	1,031	1,360
	Т	7,174	22,452	29,626
	L	8,310	14,600	22,910
9. Distribution Pipe	F	4,287	4,753	9,040
	Т	12,597	19,353	31,950
	L	1,132		1,132
IO Va Las Taland	F	1,1,2		]
10. Ko Lan Island	T	1,132		1,132
		61 622	170,671	232,593
	L	61,922	64,130	89,750
Sub Total	P	25,620	234,801	322,343
	Т	87,542	234,001	
	L	549	1,691	2,240
ll. Land Cost	F	-		
	T	549	1,691	2,240
		62,471	172,362	234,833
	. 1 L.	05,411		
Total	L	25,620	64,130 236,492	89,750 324,583

L: Local Currency F: Foreign Currency T: Total

Annual Distribution of Construction and Land Cost: Tourism and Residential Areas Table 2.9

1 Linear Construction (1977)
10, 200 10,

Note: Merre in De parenthede abow the land cont. 

Table 2.10 Annual Distribution of Construction and Land Cost : Tourism Area

The column   The	7,407 (35,200) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (5,000) (6,000)	7,407 (41,389) (5,024) 6,213 (5,014) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (5,024) (6,027) (	7,407 (41,389) (5,024) 6,213 (5,014) (5,024) (
7,407 (41,739) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (5,014) (6,770 (6,770)	7,407 (34,53) (3,034) (4,233 (4,014) (4,234) (4,234) (4,234) (4,234) (4,234) (4,234) (4,234) (4,234) (4,234) (4,234) (4,234) (4,232) (	7,407 24,831 70,524 6,213 74,734 (3,014) 7,008 774 (41,730) 7,008 7,004 (41,730) 7,008 7,004 (41,730) 7,004 7,008 7,004 7,008 7,004 7,008 7,004 7,008 7,004 7,008 7,009	7,407 24,831 70,524 6,213 74,734 (3,014) 7,008 7,004 (41,730) 7,008 7,004 (41,730) 7,004 7
7,407 (41,785) 10,598 6,213 (5,014) 7,714 (10,415) 770 (10,013) 7,004 (10,415) 770 (10,013) 770	7,407 (4,12) (5,014) (	7,407 (41,789) 70,124 4,213 (34,714) 7,404 (10,423) 20,274 (21,289) 7,104 (24,214) 7,044 (24,214) 7,044 (24,213) 7,044 (24,213) 7,044 (24,213) 7,044 (24,213) 7,044 (24,213) 7,044 (24,212	7,407 (4,139) 20,324 6,213 (3,018) 4,324 (36,382) 3,838 3,289 4,101 (10,41) 77 (36,382) 77 2,082 2,072 4,137 (4,272) 6,323 78 2,082 2,072 4,137 (4,272) 6,323 7,800 220 1,438 1,444 (6,272) 7,11 2,323 1,487 6,481
7,407 (41,393) (5,934) 4,213 (5,914) 7,714 (10,413) 7,044 (41,393) (5,914) 4,234 (5,914) 7,044 (10,413) 7,044 (	7,407 (41,789) (5,024) 6,113 (7,014) 7,714 4,234 (24,785) 5,1834 3,249 4,101 (6,015) 770 (10,023) 7,7 (2,082) 2,073 4,137 (6,772) 4,377 (6,772) 770 (10,023) 20 (2,772) 2,037 2,203 4,497 (6,772) (6,772) (6,772) 770 (10,023) 20 (2,772) 2,037 2,203 1,000 1,000 1,000 (6,772) (6,772) (6,772) (6,772) (6,772) 7,000 (6,772) (6,772) 7,000 (6	7,407 (41,783) (5,024) 6,133 (7,014) 7,714 (41,783) (5,024) 6,133 (7,014) 7,714 (10,143) (7,024) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 727 (10,143) 7,800 (10,123) 7,800 (1	7,407 (41,783) (5,024) 6,133 (7,014) 7,714 4,234 (24,725) 5,834 3,243 9,104 (6,127) 776 (10,023) (0,127) (0,127) 776 (10,023) (0,127) 776 (10,023) (0,127) 7,800 2,007 2,007 4,440 (6,727) 66,727 1,832 7,830 2,007 1,640 1,644 (1,27) 7,800 2,00 1,404 1,644
4,334 (10,413) (3,024) (4,024) (40,413)	4,234 (26,237) (3,024) (3,024) (4,024) (10,023) (40,023)	4,334 (10,913) (3,014) (4,131)	4,334 (10,013) (3,014) (4,137) (4,137) (10,013)
20 2.400 2.407 4.137 (4.272) mm (	20	20 2,002 2,073 4,137 (4,273) 6,273 6,273 1,004 (4,273) 1,0	20
1,012 (7,373) 2,303 4,440 1,012 (7,373) 230 1,434 1,444 (4) 7,333 1,447 6,411	20 140 212 3,897 2,303 4,440 2,817 20 3,839 1,004 (4) 7,333 1,467 6,81	1,00 1,00 1,000 1,	1,00 1,407 2,500 4,400 1,404 1
1,012 7,050 (9,375) 230 3,030 1,000 (0,375) 1,070 0,011	2,830 20 3,800 1,700 27 2,000 20 3,800 20 3,800	1,012 (7,37%) 230 1,030 1,000 (7,37%)	1,012 (7,37%) 230 1,030 1,000 (7,37%)
(4) 1,2335 1,477 6,431	- 71 1,070 A,071 A,070 A,011	(4) 1,1,2) 1,1,1,1,1 n.n.11	(A) 1,1335 1,1,17, n,10,11

Note: Mgures in the parenthesis show the land Cost.

1	Byates		Read and Bread	-		SoveTage		Un accel		**	Pist tel	Misted Maste Strupens	1 24	£			WAC	Water Supply				
1	No. Year		Mares (II)	July Telal	1985	F) 2.4	t	1000		Nut Tatal	Local	-	Nub Toral	1984		712 4	Lanal	E Section 1	Nub Total	3	POREICH	TOTAL
1	1,777													Ì								
1995   1,454.5   1,454.5   1,545.5	1078				_			_	-	7				-							-	
18	: :	· <del>-</del>					-				-											
10   10   10   10   10   10   10   10	2 1674															-	-					:
1   1   1   1   1   1   1   1   1   1	1980	70,11	1,443	73,107	14.54	14.420	78,740				978,5	4,605	0/2/	:			167,138	43,761	2279, 879	273,672	45,374	40,000
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1	1982	(10,400)	1,364	15,034	£,	""		(0,7)	È	(1/0)	ş.î		ă.				80.	348	1, 624 ( )	72,786 (10,594)	3,190	(10, 170)
1	7 1483	4,876	*	( T		97.	<b>2</b> 3				§ .	ž	<u> </u>		:		<b>#</b> :	6	ŧĵ	7,047	1,194	(11,030)
1840 (1,100) (	<u>1</u>	or The	1	10,724 (11,11)							ŦĴ		ĸĵ.							cut, to	2	CT OF
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1000 1000	-			-	:			<del></del>		-	۶ĵ	K.W.	(04.)					:		ĔĴ.	1,429	<b>3</b>
100m <sub>3,1,1</sub> (1,1)	7347 17									:	<u> </u>											
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	fotol	(102,427)		(107,477)	#2,162 (13,087)	\$6,639	107,401	3 304	234	(1,308)	3, 760	0.13	(414) (414)				170.010		234 805	(116, 107)	684".16	(110, 907)

Note: Figures in the parenthesis show the land Cost.

Maintenance & Operation Cost of Tourism and Residential Area Table 2.12

mf11100	•				
משובי	<b>a.1</b>	11100000 4488865 54988695	8.3) (8.8.5) (8.8.8) (8.8.8) (8.8.8)	(10.3)	(225.6)
The second section of the second	Total	4 8 9 0 1 1 1 7 8 8 4 4 0 8	13.1 13.4 13.5 13.6 13.7	15.1 15.1	349.7 (
and the subject of th	Water Supply	111144444	A	→ <del>,</del>	124.1
Category A	Marine & Port	1111000000	٠,٥	→°;	7.8
	Solid	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.3	5.5	117.6
and the state of the state of	Scorm. Water	1111199999	3.3	>°;	7.5
معرفيك فريد يعسهان المتعادة	Severage	1111 444444 0,000	88	>;;	7.97
AND THE RESERVE	Road	111100001	444444 44444	2:2	9.97
	Year	1977 1978 1979 1980 1981 1984 1986 1986	1988 1988 1989 1989 1986 1986 1986	1997 1999 2000 2000 2000 2000 2000 2000 2000	Total
man de la companya de	No.	4244467869	12247347820 122473478	30.887.8628	

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

g g							
million Pahr	٠.,	:					
Category A Unit:	Total	1 1 2		4 0 0 0 0	7.8 ( 4.7)	8,6 ( 5,5 )	8.6 (5.5)
A	Water Supply	1 1 1	\$ 9 0 0 A A	e e			→ <del>'</del>
Category A	Solid	1 1 1	เนยนาน เหตุกรณะ ๑	2.6	-5. 2.¢	3.4	3.4
***************************************	Storm	111	110000	o ·			0.1
	Sewerase			1.2			
	Road	111	м 00000	40000			> ∞ •
	Year	1977 1978 1979 1980	1981 1982 1983 1984 1985	1987 1988 1989 1990 1991 1992	1994 1995 1996	1999 1999 2000 2000 2000 2003	2004 2005 2006
	No.	4004	Norwad	ដ្ឋាដ្ឋក្នុងក	20.08 20.08	28 25 23 21 24 25 25 25 25 25 25 25 25 25 25 25 25 25	

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

1			
Total	- 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 → 4 → 4 → 4 → 4 → 4 → 4 → 4 → 4 → 4 →	( 4.7)
Ţ	0.6.4.4.4.0.0 0.0.4.4.4.0.0	v, → v, → v,	4
Water Supply		7.1	> T 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Marine & Port	1111000000	0.3	>°. '.
Solid	11100444	7:	2,3
Storm	111110000	0.5	>0
Sewerage	111000000	0.5	>0
Road	1111 000004	ოროოთა નંતનંતનં	>;;
Year	1977 1980 1980 1981 1985 1985 1985	11998888888888888898889888888888888888	2000 2000 2000 2000 2000 2000 2000 200
Š	444446	1444444 144444 1444 14444 14444 14444 14444 14444 14444 14444 14444 14444 14444 1444 14444	44242242

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

3. Construction Cost and Land Cost: Category B

Table 3.1 Construction Cost and Land Cost : Phase-1, Category B.

, cy	Y 6.07	Social Infrast	Social Infrastructure	Amenity Core Beach	Cure	Activity Zones and Beach Facilitia	.ty.Zones and Facilities		Horels	Restaurants	sauez	Total	Te
		Cost	Land	Cost	Land	Cost	Land	Cost	Land	Cost	Land	Cost	Land
	1977	<b>1</b>	1		ı	1	i	1	•	2.3	19.7	2.3	19.7
۵)	1978	1	•		•	<b>1</b> .	- 1 · ·		ı	2.4	19.7	2.4	19.7
~	1979	•		•			ı		- 1 <sup>1</sup>	2.4	19.7	2.4	19.7
	1980	6.76	6.09	6.2	15.9	. 1		121.8	37.5	9.5	19.7	225.8	134.0
10	1981	106.5	18.4	5.4	15.9	3.0	0.2	121.2	•	3.5	19.8	239.6	54.3
	1982	20.1	14.2	9.9	15.9	20.5	29.3	200.5	0	S. S.	19.8	250.9	79.2
	1983	10.2	3-11	3.6	15.9	20.2	29.3	40.1	0	3.5	19.8	77.6	76.5
oo.	1984	∞ -i	11.0	3.7	15.9	17.2	29.3	1.07	0	3.5	39.8	66.3	76.0
	1985	7.7	12.3	о С	15.9	18.0	29.3	40.1	0	3.6	19.8	2.99	77.3
0	1986	7.7	12.3	9. e	15.9	18.2	29.3	•	1	. တ က	3.61	27.1	77.3
Total	tat	235.3	140.6	33.2	111.3	96.8	146.7	563.8	37.5	32.0	197.6	961.1	633.7

Table 3.2 Construction Cost (1): Social Infrastructure

Bahr	1	I			:							
milion Bahr	Land				6.09	18.4	14.2	11.5	11.0	12.3	12.3	140.6
Unit:	<b>O</b> + <b>O</b>	•	i		94.3	106.5	20.1	10.2	એ સ	1.2	1.2	235.3
	O Tax	•	1	•	7.6	10.6	2.0	р.о	0.5	0.3	ਜ <b>਼</b> 0	23.4
	u.r	: : •	ſ	•	4.7	5.3	ь. О	0.5	r-0	1.0	ਜ ਂ	89 - H
	@ @+ @		ı		84.9	95.9	1.81	8.0	ъ. Б.	러 -	ਜ ਜ	211.9
	6 Foreign	I	ı	•	12.7	77.7	2.7	7.4	0.2	0.2	0.2	31.8
	© Local	•	ı	1	72.2	81.5	15.4	, o	<b>4.1</b>	6.0	6.0	180.1
	Year	1977	2 1978	1979	1980	1961	1982	1983	1984	1985	1986	
	No.	н	7	·m	7	ι'n	9	7	ø	Ø	0	Total

Social Infrastructure includes schools, community facilities Note 1: U.L shows unskilled laborer's wages in construction cost. and open spaces.

Table 3.3 Construction Cost (2): Amenity Cores

				Main	Main Amenity Core	Core					Nort	Northern Core			
ò	Year	© Local	O Foreign ©		ລ.ນ	@ Tax	<b>0</b> +0	Land	© Local	© Foreign	(A) (O) (O)	1.u	⊕ <sup>∺</sup>	®+@	Land
	1977											: -			
7	1978						; ;								
m	1979					) P						. :	-		
4	1980	4,426.3	225.7	4,652.0	743.7	148.0	4.800.0	5,700.0	1,332.0	31.0	1,363.0	0.76	37.0	1,400.0	37.0 1,400.0 10,200.0
v	1981	4,369.9	273.7	4,643.6	703.7	156.4	4,800.0	5,700.0	465.8	103.0	568.8	18.9	31.2	0.009	600.0 10,200.0
· φ	1982	5.580.5	242.5	5,823.0	786.7	177.0	6,000.0	5,700.0	465.8	103.0	568.8	18.9	31.2	0.009	600.0 10,200.0
<b>^</b>	1983	2,649.5	242.5	2,892.0	173.6	108.0	3,000.0	5,700.0	465.8	103.0	568.8	18.9	31.2	0.009	600.0 10,200.0
00	1984	2,747.2	242.5	2,989.7	180.4	110.3	3,100.0	5,700.0	465.8	103.0	568.8	18.9	31.2	0,009	600,0 10,200.0
6	1985	2.747.2	242.5	2,989.7	180.4	110.3	3,100.0	5,700.0	545.6	118.5	1.799	24.7	35.3	700.0	700.0 10,200.0
ន្ម	1986	2,844.9	242.5	3,087.4	187.7	114.6	3,200.0	5,700.0	573.8	94.5	668.3	32.0	31.7	700.0	700.0 10,200.0
Total	님	25,365.5	1,711.9	27.077.4	2,956.2	924.6	28.000.0	39,900.0	4,314.6	656.0	4.970.6	226.3	228.8	5,200.0	5,200.0 71,400.0
					Total										
.:	:				1133				·						4
н	1977		· :					:	~			•			
74	1978														
ଟ	1979		-							. •					
4	1980	5,758.3	256.7	6,015.0	837.7	185.0	6,200.0	15,900.0							
Ŋ	1981	4,835.7	376.7	5,212,4	722.6	187.6	5,400.0	15,900.0							
φ	1982	6,046.3	345.5	6,391.8	805.6	208.2	6,600.0	15,900.0							
_	1983	3,115.3	345.5	3,460.8	192.5	139.2	3,600.0	15,900.0							
<b>∞</b>	1984	3.213.0	345.5	3,558.5	199.3	141.5	3,700.0	15,900.0							
0	1985	3,292.8	361.0	3,653.8	205.1	145.6	3,800.0	15,900.0				-			
о Н	1986	3,418.7	337.0	3,755.7	219.7	146.3	3,900.0	15,900.0							
		4 404	1	~	7: 6U F F W GO F C			0 000 466 0 000 00							

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

Table 3.4 Construction Cost (3): Activity Zones and Beach Facilities

1977   1978   1976   1976   1977   1977   1977   1978   1979   1970   1979   1970			Inland Accivity	ivity Z	Zones			Beach Fac	Facilities (	(Ko Lan	Raht o Island)	( <del>)</del>	
1 1977  2 1978  3 1979  4 1980  4 1980  5 1982  5 1982  6 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 29,300.0	No. Year	Local	ெ	12.	1					םיד	ව දූ	<b>⊗</b>	and
2 1978 1 1980 1 1980 2 1982 1 1982 1 1982 2 1982 1 1982 2 18872 3 188								÷					
1 1980 1 1980 1 1980 1 1980 1 1980 1 1980 2 188777.0 4 7777.5 19,883.9 1,373.6 616.1 20,200.0 29,300.0 2 188777.0 4 777.5 19,883.9 1,373.6 616.1 20,200.0 29,300.0 3 188777.0 4 777.5 19,883.9 1,373.6 616.1 20,200.0 29,300.0 3 188777.0 4 777.5 17.6 47.9 1,227.6 535.1 18,200.0 29,300.0 3 188777.0 4 773.5 17,644.9 1,237.6 516.1 20,200.0 29,300.0 3 188728.4 5781.0 3,982.6 178.4 87.4 3,040.2 200.0 3 188728.4 5885.1 19,730.6 516.1 20,200.0 29,300.0 3 188728.4 5885.1 19,730.6 516.1 20,200.0 29,300.0 3 188728.4 5885.1 19,730.6 516.1 20,200.0 29,300.0 3 188728.4 5781.0 1,505.6 117.4 87.4 3,040.2 200.0 3 1988 18,725.4 8885.1 19,730.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1988 18,725.4 17,20.1 1,505.6 516.1 20,200.0 29,300.0 3 1988 18,725.4 17,20.1 1,505.6 516.1 20,200.0 29,300.0 3 1988 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1988 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1988 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1988 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1988 18,725.4 8885.1 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,725.4 8885.3 19,237.6 516.1 20,200.0 29,300.0 3 1898 18,777.0 4,707.2 33,884.3 6,545.9 2,546.9 2,500.0 20,300.0	2 1978							٠			-		
1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 29,300.0	3 1979						:						
1982   18,725.4   858.5   19,583.9   1,373.6   616.1   20,200.0   29,300.0	7.980	: '		ē .		:							
1982   18,725.4   858.5   19,583.9   1,373.6   616.1   20,200.0   29,300.0       1983   18,725.4   858.5   19,583.9   1,373.6   616.1   20,200.0   29,300.0       1984   15,944.4   731.0   16,675.4   1,169.6   524.6   17,200.0   29,300.0	5 1981	*				1	2,852.8	_			87.4 3,		8
1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 29,300.0	6 1982	18,725.4	858.5 19,583.9 1	:	6.1		ı	i		1	1		1
1984   15,944.4   731.0 16,675.4 1,169.6   524.6 17,200.0   29,300.0   -	7 1983	18,725.4	3 1		6.1			•	i		1	ı	ì
1986 16,871.4 731.0 16,675.4 1,169.5 524.6 17,200.0 29,300.0 713.2 24.8 738.2 44.6 21.8 760.0 ceal 86,211.0 3,952.5 90,163.5 6,323.9 2,836.5 93.000.0 146,500.0		72,944.4	į.	13	24.6 17,200.0		ı	1	ı				1
1977 1978 1978 1978 1978 1978 1978 1978		7776,51	1.		9 7		713.2	24.8	738.2	9.77	21.8	0.097	1
1977 1978 1979 1970 1978 1979 1980 2.882.8 100.0 2,952.6 178.4 87.4 3,040.2 200.0 1982 1982 1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 29,300.0 1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 29,300.0 1984 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 29,300.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 29,300.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0 29,300.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0 29,300.0		16,871.4			ر ب		•			1	ı	· · · · · · · · · · · · · · · · · · ·	1
1977 1978 1979 1980 1980 1981 2.852.8 100.0 2,952.6 178.4 87.4 3,040.2 1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 773.5 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0	rotal	86.211.0	3.952.5 90,163.5 6,3		5.5	146.500.0	3.566.0	124.8	3,690.8 2		09.2 3		8
1977 1978 1979 1980 1981 2,852.8 100.0 2,952.6 178.4 87.4 3,040.2 1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 18,725.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0			Tota	p.1			: •						
1978 1980 1981 2,852.8 100.0 2,952.6 178.4 87.4 3,040.2 1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0	1 1977									ē			
1980 1981 2,852.8 100.0 2,952.6 178.4 87.4 3,040.2 1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0	2 1978									٠.		i.,	
1980 1981 2,852.8 100.0 2,952.6 178.4 87.4 3,040.2 1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0	3 1979					· ·							
1981 2,852.8 100.0 2,952.6 178.4 87.4 3,040.2 1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0 1986 89,777.0 4,077.3 93,854.3 6,546.9 2,945.7 96,800.2 1	1980										7:-		
1982 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0 0cal 89,777.0 4,077.3 93,854.3 6,546.9 2,945.7 96,800.2 1	1981	2,852.8	100.0 2,952.6		7.4							- 1	
1983 18,725.4 858.5 19,583.9 1,373.6 616.1 20,200.0 1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0 0=01 89,777.0 4,077.3 93,854.3 6,546.9 2,945.7 96,800.2 1	5 1982	18,725.4			16.1 20,200.0								
1984 15,944.4 731.0 16,675.4 1,169.6 524.6 17,200.0 1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0	1983	18,725.4			16.1 20,200.0	- 1		1.					
1985 16,657.6 755.8 17,413.6 1,214.1 546.4 17,960.0 1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0 0-cal 89,777.0 4,077.3 93,854.3 6,546.9 2,945.7 96,800.2 1		15,944.4	- 1		24.6 17,200.0		And the second s	The second second	a secondarion and a				
1986 16,871.4 773.5 17,644.9 1,237.6 555.1 18,200.0 ocal 89,777.0 4,077.3 93,854.3 6,546.9 2,945.7 96,800.2 1		16,657.6			46.4 17,960.0	7.			• .	145 1			٠.
ee on the second	4	16,871.4		1	55-1 18,200.0								
	Cotol	89.777.0	4,077.3 93,854.3 6,54	6.9 2.9	45.7 96,800.2	146,700.0							:

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

			Hotel in Pacta	Pattaya						Kotel 1	Kotel in Ko Lan Island	Island	ı	
No. Year	3 Sc.	Foreton @+@	ө ө: ө	בי <u>ה</u>	⊕ ři ⊗ ×	O+O Land	Land	Local Local	Foreign	O O O Local Foreign O+O U.L	T a	ឲរុំ	O+O Land	Lend
1 1977							· :							
2 1978	F .		- -: -:				:							
3 1979	:	7		:	-						:			
7 1980	94,715.7	17,038.8	94,715.7 17,038.8 111,754.5 6,550.0 10,045.5 121,800.0 37,500.0	6,550.0	10,045.5	121,800.0	37,500.0		: 3- : 1- :	i	•	:		*
1361 5	63,055.5	11,351.2	63,055.5 11,351.2 74,406.7 4,361.8 6,693.3 81,100.0	4.361.8	6,693,3	81,100.0	ſ	31,197.8	5.614.0	31,197.8 5,614.0 36,811.8 2,165.4 3,288.2 40,100.0	2,165.4	3,288.2	0.001.09	J
6 1982	124,634.4	22,462.4	124,634.4 22,462.4 147,096.8 8,665.2 13,303.2 160,400.0	8,665.2	13,303.2	160,400.0	ſ.	31,197.8	5,614,0	31,197.8 5,614.0 36,811.8 2,165.4 3,288.2 40,100.0	2,165.4	3,288.2	40,100.0	i
7 1983		В		1	£	1	í	31,197.8	5,614.0	31,197.8 5,614.0 36,811.8 2,165.4 3,288.2 40,100.0	2,165.4	3,288.2	40,100.0	j
7867 8	B	•	•	ŧ	ſ	,		31,197.8	5.614.0	31,197.8 5.614.0 36,811.8 2,165.4 3,288.2 40,100.0	2,165.4	3,288.2	40,100.0	j
9 1985	1			ı	·			31,197.8	5.614.0	5.614.0 36.811.8 2,165.4 3,288.2	2,165.4	3,288.2	40.100.0	1
10 1986	1	ļ	I	ŧ	ſ		F	\$	1.	1	1	ŧ	1	
Total	282,405.6	50,852.4	282,405.6 50,852.4 333,258.0 19,577.0 30,042.0 363,300.0 37,500.0	: 0.772.01	10,042,0	363,300.0	37,500.0	155,989.0 28.070.0 184,059.0 10,827.0 16,441.0 200,500.0	28.070.0	184,059.0	10,827.0	16,441.0	200,500.0	

ĺ					Total		;	
ઙ	No. Year	Cocal	Foreign © + ©	9 9+ 9	J.U	⊕ ¥	0 0	Land
4	1977							
<b>:</b>	1978							
្ត	1979		:	· . !				
4	3980	94,715.7	17,038.8	94.715.7 17.038.8 111.754.5 6,550.0 10,045.5 121,800.0 37,500.0	6,550.0	10,045.5	121,800.0	37,500.0
Ś	1961	94,253.3	16,965.2	94,253.3 16,965.2 111,218.5 6,527.2 9,981.5 121,200.0	6,527.2	9,981.5	121,200.0	ı
•	1982	155,832.2	28,076.4	155,832.2 28,076.4 183,908.6 10,830.6 16,591.4 200,500.0	10,830.6	16.591.4	200,500.0	ı
~	1983	31,197.8	5,614.0	31,197.8 5,614.0 36,811.8 2,165.4 3,288.2 40,100.0	2,165.4	3,288.2	40,100.0	
∞	1984	31,197.8	5.614.0	31,197.8 5,614.0 36,811.8 2,165.4 3,288.2 40,100.0	2,165.4	3,288.2	40,100.0	2
0.	1985	31,197.8	5.614.0	31,197.8 5,614.0 36,811.8 2,165.4 3,288.2 40,100.0	2,165.4	3,288.2	40,100.0	1
9	1986	1	i.	ı	3	ſ		ı
မှ	Total	438,394.6	78.922.4	438,394.6 78,922.4 517,317.0 30,404.0 46,483.0 563,800.0 37,500.0	30,404,0	46,483.0	563,800.0	37,500.0

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

Table 3.6 Construction Cost (5): Restaurants

:				Rest	Restaurants			
.0	Year	Local	G Foreign	9 9 9	מים	⊕ <sup>ដ</sup>	<b>⊕</b> + <b>⊕</b>	pueT
	1977	2,162.5	72.0	2,234.5	136.6	65.5	2,300.0	19,700.0
~	1978	2,260.2	72.0	2,332.2	143.4	8.79	2,400.0	19,700.0
<b>6</b>	1979	2,260.2	72.0	2,332.2	143.4	67.8	2,400.0	19,700.0
7	1980	3,334.9	72.0	3,406.9	218.6	93.1	3,500.0	19,700.0
Ŋ	1981	3,334.9	72.0	3,406.9	218.6	93.1	3,500.0	19,800.0
• •	1982	3,334.9	72.0	3,406.9	218.6	93.1	3,500.0	19,800.0
7	1983	3,334.9	72.0	3,406.9	218.6	93.1	3,500.0	19,800.0
య	1984	3,334.9	72.0	3,406.9	218.6	93.1	3,500.0	19,800.0
ტ	1985	3,334.9	72.0	3,406.9	225-4	7.56	3,600.0	19,800.0
Q	1986	3,599.8	0.96	3,695.8	232.3	104.2	3,800.0	19,800.0
Total	-	30,389.8	744.0	31,133.8	1,643.2	866.2	32,000.0	197,600.0

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

Table 3.7 Social Infrastructure (1): Total Cost for Three Residential Areas

			•						_			
Acea		Pacilities	1977 1	978 107	1000	1601	1061	Un	ít:	e1111	on Bel	e .
		Schoolhouse	****	978 197		1.3			1984	1985	1985	
	School	Cyenasius	ŀ									3.3
]	\$68301	Play Ground	1		V. I	0.4	0.2	Ų, I				0.8
		Sub-total	1									
	1 1 1	Comunication Center			v.5	1.7		0.6				4.1
Instrument		Post Office	ł				0.5					0.5
7 × 3 di	Cossumity	Police Box	<b>)</b> :			0.1						9.1
	Facilities	Fire Department	]			0.9						0.9
		Bospital			1.8							1.8
		Sub-total	١.		. :	35.0			•			72.6
	Total	. 309-10181	ł	:		36.0						75,9
	10131	Schoolbouse	<b> </b> -			37.7						0.03
		Scoothouse Gransfun				13.3						34.9
	School {					4.2						9.8
	·	Play Ground	1			0.4						8.0
		Sub-total	l		6.9	17.9	_	6.9				45.5
	]	Communication Center					2.0					2.0
	<u>.</u>	Post Office				0.8						0.8
Evilding	Community Facilities	Police lox	Ì			6.1						6.1
		fire Department			1.2							1.2
		Pospital	ļ			40.0						83.0
		Sub-total			44.2	45.9	2.0					93.1
[		City Park			0.5	0.6	•	0.4				1.5
<b>!</b> :	Open   Space	Children Park			0.2	0.3	0.2	0.1	0.2			1.0
i : 1	1	Frozenace			0.6	0.5	0.7	0.7	0.7	0.7	0.7	4.7
1.0	ι	Sub-total			1.3	1.5	0.9	1,2	0.9	0.7	0.7	7.2
	Total			<del>-</del>	\$2.4	66.3	16.7	8.1	0.9	0.7	0.7	145.8
[	School .	•			0.4	1.3	0.9	0.4				3.0
]	Commity Fa	cilities			0.3							0.3
		City Park			0.4	0.5		Ó.3				1.2
Earth York	Open	Children Park			0.2	0.2	0.1	0.1	0.1			0.7
	Space	Frozenade			0.5	0.5	0.6	0.6	0.7	0.7	Ó.7	4.3
		\$ub-total	1		1.1	1.2	0.7	1.0	0.8	0.7	Ó.7	6.2
	Total				1.8	2.5	1.6	1.4	0.8	0.7	0.7	9.5
] ]	School .				7.9	20.9	15.9	7.9				52.6
Total	Community Fa	cilitles			83.9	82.9	2.5					169.3
	Open Space	· '		:	2.5	2.7	1.7	2.3	1.8	1.2	1.2	13.4
	Total				01 31	Ac e	24 1			1.2		235.3

Table 3.8 Social Infrastructure (2): Na Klua Town-A

<del></del>	<del></del>		1				<u> </u>				<del> </del>	on Bal	
Area		acilities	1977	1978	1979				1983	1984	1985	1986	Total
	School						0.4	0.4					1.2
	Community Fa					0.2			1 .			-	0.2
		City Park				0.4	0.5						0.9
Earth Work	Open	Children Park				0.2	0.1	0.1					0.4
1	Space	Prozenade				0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.1
		Sub-total	:			0.9	0.9	0.4	0.3	0.3	0,3	0.3	3.4
	Total					1.5	1,3	0.8	0.3	0.3	0.3	0.3	4 4
		Schoolbouse		:		5.4	5.4	5.4	:				16.2
: 1	School	G) anasium				1.4	1.4	1.4				, <del>•</del>	4.7
		Play Ground				0.1	0.1	0.1					0.1
		Sub-total	:			6.9	100		i.				20.
	1	Comunication Center						1.5	1	٠.	,÷		1
		Post Office					0.6		:		:	:	
Building	Community	Police Box				: 1	6.0			• •		*. *	0.
collega	Facilities	Fire Department			٠	1.2				: '			6.6
		Bospital				100	40.0		1				l.
		Sub-total	:			•		-	:				60.0
4		City Park				71 1	46.6						89.
ļ	0 <sub>2€8</sub>	Children Park		·		2	0.6			3 1			1.
	Space	Prozenače				0.2		0.1					0.3
						0.3			0.3				2.
:	Total	Sub-total							0.3				3.
	10131								0.3	0.3	0.3	0.3	113.
		Schoolbouse				0.5	0.5	0.5	. :				1.
	School	Gyzcasita				0.1	0.1	0.1			•		0.3
		Play Ground			:								
	Į į	Sub-total				0.5	0.6	0.6	1	. :			1.8
Instruzent		Commitation Center			•	:		0.4					0.4
	:	Post Office			* 1		0.1						0.
	Consumity	Police Box					0.9						0.9
	Facilities	Fire Department				1.8			1 1				1.8
1.	- · · · · · · · · · · · · · · · · · · ·	Bospital			. !	35.0	35.0		÷ .		4111	14	70.0
	11	Sub-total					36.0						73.
<u> </u>	Total						35.6						75.6
	School						7.9			للبلند			23.
	Community Fa	cilities	:		1 -	1.	82.6		4 .	1			
Total	Open Space		. :				1.0					0.6	162.
.v.ca.							4.0	v.5	U.0.	0.6	U.6	U.6	7.1

Table 3.9 Social Infrastructure (3): Na Klua Town-B

							- 3			Unit:		million Baht	Baht
Work	' द	Facilities	1977 1978	1978	1979	1979 1980 1981 1982 1983	1961	1982	1983	7861	1985	1985 1986	Total
		Children Park						0.1		0.1			0.2
Building	Open	Promenade	1.7			0.2	0.2 0.2	0	0.2	0-2	0,	0.5	7.4
		Sub-total				0.2	0.5	0.3	0.2		0.3 0.2	0.2	1.6
; ·	Total			. 1	1	0.2	0.5	0.0	0.3 0.2	0	0.5	0.2	7.6
		Children Park						ਜ 0		0 4		:	0.2
Earth Work	Open Space	Promenade			٠	0.2	0.5	0.2	0.2	0.2	0.5	0.2	4
		Sub-total			:	0.2	0.2	0.3		0.2 0.3	0.5	0.5	1.6
	Total		3	1	ı	0.5	0.5		0.3 0.2	0.3	0.5	0.2	4
		Children Park				:		0.2		0.2		     	7.0
Total	Open	Promenade				4.0	4.0	7.0	4.0	4.0	7.0 7.0	4.0	2.8
		Sub-total				4.0	7.0	9.0	4.0	9.0	4.0 4.0	4.0	ω 
	Total		1	1	1	4.0	9.0		0.6 0.4	9.0	4.0	0.4	3.2

Table 3.10 Social Infrastructure (4): Northern New Town

:	,	Ĺ	n	1	t	:	:			Í	ı	į	Ĺ	01	•	2	ah	ı
×	'n		1	7				Ĭ	7	1	Ξ	٠,		_	_			_

ſ			<del></del>	·					<u></u>	الله الله	nit:	*111	ion 8	an t
١	Area :	F	acilities	1977	1918	1979	1980	1981	1982	1983	1984	1985	1986	Total
ı			Schoolhouse					0.8	0.5	0.5	to Jan			1.8
١	٠	School .	Gymnasium					0.3	0.1	0.1	: i i		- 1	0.5
-			Play Cround								1.00			_
1			Sub-total				• .	1.1	0.6	0,6				2.3
ı	Instrucent		Committation Center	4.				10	0.1					0.3
١	************		Post Office	1						- 1				
		Commity	Police Box			•		•				3 FT.		-
1		Facilities	Fire Department			:"	i		٠.		1		فيا إ	-
			Bospital				2.6			. :		:		2.6
			Sub-total	1	1996 .	19.1	2.6		0.1			. }	13	2.7
		Total		_	-	<u> </u>	2.6	1.1	0.7	0.6	-	-		5.0
ı			Schoolbouse					7.9	5.4	-5.4		•	1. 1.52	18.7
1		School	Gyrenasium		· · · .			2.8	1.4	1.4	4	i Zolakoko	7	5.6
			Play Ground		•	- [		0.3	0.1	0.1	- 1	- 1	in the second	0.5
Į			Sub-total					11.0	6.9	6.9	1			24.8
-			Communication Center						0.5	,	4 .			0.5
١			Post Office	ľ				0.2		:	¥ .		: -	0.2
	Building	Commity	Police Box				1 -	0.1	-					0.1
		Facilities'	Fire Department	l							- :		147	
			Bospital			- 4	3.0		•			· ·		3.0
i			Sub-total				3.0	0.3	0.5			**		3.8
١	:		City Park	İ		:				0.4				0.4
1	.*	Open	Children Park	1				0.1		0.1	0.1			0.3
		Space	Prozecade				0.1	0.1	0.2	0.2	0.2	0.2	0.2	1.2
			Sರ5-total									0.2		1.9
		Total		-	-	<del></del> .	3.1			4 1	i.	0.2		30.5
		School			,	1		0.8		0.4	: -	<del></del>		1.6
		Consumity Fa	cilities		a Post		0.1	- 1					1.1	0.1
ı		1 1 1	City Park	1					- 7	0.3			* *	0.3
	Earth Fork	Open.	Children Fark					0.1	11.5	0.1	0.1	1		0.3
		Space	Processe	٠.		. 2	0.1	0,1	Ö,2	0.2	0.2	0.2	0.2	1.2
	•		Sub-total	1	. :							0.2		1.7
		Total			_ : <del>- +</del>	-:						0.2		3.4
		School			1	Ī		12.9	7.9		<u> </u>		· · · · ·	28.7
	Total	Community Fa	cilities				5.7	0.3	0.6		1		,	6.6
		Open Space				:	0.2	0.3	0.4	1.3	0.6	0.4	0.4	3.6
		Total		-	÷		5.9	13.5				0.4		38.9
•			· — · — · — · — · — · .	L				*		. : 55	.7.		~ • •	

Table 3.11 Social Infrastructure (5): Land Acquisttion

Unit: million Baht

Area		1977 1978 1970 1980 1980 1980 1980 1980 1970 1970 1
	Schooler was seen that the seen seen	21.2
	Community Facilities	Company of the contract of the
	City Park	23,2
VIII TO THE TANK OF THE TANK O	Open Children Park	\$.8
יייי איייייייייייייייייייייייייייייייי	Space Promenade	8.3 10.0 10.0 10.0 10.0 10.1 10.1 68.5
	Sub-total	36.0 14.2 10.0 10.0 10.0 10.1 10.1
	Docal	56.3 14.8 10.7 10.0 10.0 10.1 10.1 122.0
	Children Park	0.7 0.1
X X X	Open Promenade	2.0 2.0 2.0 0.2 0.6 2.0 2.0 10.8
7-17407	Sub-cotal	2.0 2.0 2.7 0.2 0.7 2.0 2.0 11.6
-	Total	- 2:0 2:0 2:7 0:2 0:7 2:0 2:0 11.6
	School	2.3. S.O. 2.1
	Community Facilitates	5.5
	City Park	0.4
N. C.	Open Children Park	0.4 0.1 0.1
אסר הופרוז אפא ירפאוז	Space Promenade	0.1 0.1 0.2 0.2 0.2 0.2 0.2 1.2
	Sub-total	0.1 0.5 0.2 0.7 0.3 0.2 0.2 2.2
	Total	2.6 1.6 0.8 1.3 0.3 0.2 0.2 7.0
	School	20.0 1.7 1.2 0.6
	Community Facilities	2.8
	City Park	22.5 0.7 0.4
Total	Open Children Park	5.2 3.9 0.8 0.1 0.2
	Space Promenade	10.4 12.1 12.2 10.4 10.8 12.3 12.3 80.5
***	Sub-total	38.1 16:7 13:0 10.9 11:0 12.3 12.3 114.3
	Total	60.9 18.4 14.2 11.5 11.0 12.3 12.3 140.6

Table 3.12 Breakdown of Construction Cost: Main Amenity Core (Pattaya)

	C E O	1941	1982		\$ 8 0 t	   
4505	Stocks Poretan Go & U.I. Pax C. + @ Bocks Poretan	ζŝ	Court Peresen On + W U.L.	Crex O+O	Court Poressen 0+0 U.L Tren	6
Kareh Works	69,5 24,0 93,5 4,0 100,0 204,1 72,0	240.1	204.5 72.0 280.5	19.5 300.0	208.5 72.0 280.5 19.5	200.0
Memoral of	346,2 - Sen,2 120-0 13.8 600,0 648,5 -	0,000 21,15 0,001 2,884	488.5 - 488.5 300.0	22.5 500.0		
Preparation Compensation	2,637.9 - 2,637.9 3,6.0 62.1 2,700.0 2,340.2 -	2,540.2 520.0 59.8 2,600.0 2,540.2	2,540,2 - 2,540,2 520,0	39.8 2,600.0		
Sub-Total.	3,224.1 - 3,224,1 660.0 73.9 3,300.0 3,026.7 -	3,028.7 620.0 71.3 3,100.0 3,028.7	3,028.7 . 3,028.7 620,0	71.3 5,100.0		:
Bushiling and Othern.			1,367.6 - 1,367.6 99.6	32.2 1,400.0 1,465.3	1,465.5 102.5 34.5	1,500.0
The Crosses and	NO 157,7 31,2 LAM,4-12.6-11.0 200.0 157.2 31.2	2 188,4 12,6 11.6 200.0				
Mactities Landworping	97.7 - 97.7 7.3 2.3 100.0 97.7 -	97.7 7.3 2.3 100.0	97.7 7.5	2.3 100.0	97.7 - 97.7 - 7.5 2.3	100.0
Pavement	477.8 170.5 1.068.3 63.8 51.7 1,100.0 477.8 170.5	1.04K.1 nl.n 31.7 1,100.0	H77.8 170,5 1,048,5 63.8	31.7 1,100.0	877.4 170.5 1.048.3 63.8 53.7 1,100.0	1,100.0
*ub-Tocal	1,112,7 201,7 4,334,4 83,7 65,6 1,400,0 1,132,7 201.7	1,334,4 43,7 65.6 1,400.0	975.5 170.5 1,146.0 71.1	34.0 1.200.0	973.3 170.5 1.146.0 71.1 54.0	34.0 1,200.0
Total	4,424.3 225.7 4,632.0 743.7 144.0 - 4,800.0 4,364.9 273.7	1 4,442,0 703,7 236,4 4,800.0 5,380.5	5,580,5 242,5 5,823,0 786,7	177.0 6,000.0	2,649.5 242.5 2,692.0 173.6 306.0	3,000.0
bend Acquiateten	0'002'C	3,700.0		3,700.0		5,700.0
					TV CONTROL OF THE CON	
Horks	Charles Charle	9.0	Spoon Fornign D + C U.L	9.0	Local Porestan D+O U.L Tak	0.0
Manager Liberton	0 900	39.5 300.0	308,5 72.0 280,5	19.5 300.0	1,320,5 436,0 1,776,5 - 125,3	0.000
Jo Tenoney		ł				
KKEP CARAM						
Preparation Compensation		The second secon			9,261.5 9,201.5 1,900.0 218.5 9,500.0	9,500.0
Building and Others	1,563.2 - 1,543.2 104.3 36.8 1,600.0 1,563.2 -	1,363.2 109.3 36.8 1,600.0 1,563.2	.,563.2 1,563.2 109.3	34.8 1,600.0 7,522.9	7,522:9 - 7,522:9 526.0 177.1 7,700.0	7,700.0
ついせ かいきほうとうせい!					324.4 62.4 376.8 25.2 25.2	0.004
Nusdraupuwi milisisa	97.7 - 97.7 7.3 2.3 100.0 97.7 -	97.7 7.3 2.5 100.0	295.4 - 195.4 34.0	4.6 200.0	781.5 - 781.6 58.4 18.4	#00°0
Pacement	51.7 1,100.0 477.A	170.5 1,044.3 63.8 51.7 1,100.0	477.8 170,5 1,048,5 03.8	2.7	1,100.0 6,144.6.1,193.3 7,338.1 446.6 361.9 7,700.0	7,700.0
Sub-Total	975.5 170.5 1,146.0 73.1 54.0 1,200.0 975.5 170.5	170.5 1.146.0 71.1 54.0 1,200.0 1,073.2	,073, 2 170, 3 1,243, 7 78.4	36.3 1,300.0	36.3 1,300.0 7,240.6 1,255.9 4,496.3 530.2 403.5 6,900.0	9.00
70th	2,747.2 242.5 2,049.7 140.4 110.5 3,100.0 2,747.2 242.5	242.5 2,949.7 280.4 110.3 3,100.0 2,844.9	844.9 242.5 . 3,087.4 187.7	114.6 3,200.0	114.6 3,200.0 25,365.5 1,711.9 27,077;4 7,956.2 922.6 26,000.0	26,000.0
Land Augustation	6'00's	5,700.0		5,700.0		39,900-0
					B	١

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

(C): Construction cost without tax.

(C) + (D) Construction cost with tax.

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Table 3.13 Breakdown of Construction Cost: Northern Core (Pattaya)

1980   United Charles   United Charles	0.001.t	206.5 72.0 260.5 - 19.5	O+O Georal Fronting a+O U.L. Grax O+O Groot Orontem Ca+O U.L.	Э	1962 O	9	0 1301 0 1301	1903	€	
y		206.5 72.0 260.5 - 19.5	3 9 0 • 0	э	9	9	Poce 1 To	De Constant	٤	
¥	47.7 7.3 2.3 1,100.0	208.5 72.0 280.5 - 19.5		Cal Porate	14 (D + (D + 14 )				Tek	0
¥	074.7 73.1 25.3 1,100.0		300.0	6.3 72.0	206.5 72.0 280.5 - 19.5		208.5	300.0 208.5 72.0 280.5	19.5	300.0
97.7	47.7 7.3 2.3 100.0		The Appendix of the Control	Anthony or and when when the care	A CONTRACTOR OF THE PROPERTY O	Section that the section is	April Appendix Comment	Commence of the commence of th	The MANAGEMENT AND A STATE OF THE STATE OF T	
159.6 33.0		97.7 . 97.7 7.5 2.3	100.0	7.7	97.7 7.3 2.3	100.0	7.50	97.7	2.2 2.3 2.3	8
		159.6 31.0 290,6 12.6 9.4	200.0	139.6 31.0	190.6 11.6 9.4	0.00:	159.6	31.0 190.6 11.6	1.6 9.4	200.0
Sub-Total ,257.3 31.0	286.3 18.9 11.7 300.0	257.5 31.0 288.3 18.9 11.7	300.0 257.3		31.0 288.3 18.9 11.7	300.0	257.3	33.0 288.3 1	288.3 18.9 11.7	300.0
Total 1,132.0 31.0 1.	1,332.0 31.0 1,363.0 94.0 37.0 1,400.0	. 465.8 103.0 568.8 18.9 31.2	0,000	465.8 103.0	568,8 18,9 31.2	0.000	4 8.207	103.0 See.8 1	18.9 31.2	0.000
Land Adquiateton	10,200.0	*	10,200,0			10,200.0				10,200.0
	1. 9. 8. 4. T.	1961			1986			4 4 4 6 4		
Thorne Thornian Co + C U.t. Cax	9+0	LOCAL POTATION OF BUIL TAX	O+O CLOS	AL Droratum	Stocal Whorstyn B. + B U.L Tax	9	Local Cross	Clocal Provestem Con + & U.L.	er Tex	0
Xaveh: Works 208.5 72.0 280.5 -	280.5 - 19.5 300.0	206.5 72.0 260.5 - 19.5	300.0 139	139.0 48.3	48.0 187.0 - 15.0		383.5 4(	200,01,181.5 408.0 1,569.5		200.0
Pulliding and Others,			-			न	1,074.7	1,074.7 75	75.1.25.3.3	1,100.0
Anactument and Open Space Pacifician Landscupiny 97.7	07.7 7.3 2.3 300.0	97.7 - 97.7 7.3 2.3	100.0 195.4	*	195.4 14.6 4.6	200.0	781.6	- 782.6 58	782.6 58.4 18.4	800.0
Pavement 159.6 31.0	190.4 11.6 9.4 200.D	239.4 46.5 285.9 17.4 14.1	300.0- 239,4		40.5 285.9 17.4 14.1.	300.01.276.8		248.0 1,524.8 92.8 75.2	.8. 75.2 2	2,600.0
Sub-Tocal 257,3 31.0	286.3 18.9 11.7 306.0 337.1	337.1 46.5 383.6 24.7 16.4	400.0 434.8	:	46.5. 481.3 32.0 18.7	300.02,058.4	. !	248,6 2,366,4 151,2	93.0	0.007.5
Tozal 465.8 103.0	568.8 18.9 31.2 600.0	545.0 118.5 664.1 24.7 35.3	700.0 373.8	8 04.5	668.3 32.0 31.7	700.0 4.314.6	ľ	656.0 4,970.6 226.3 229.4	.3 229.4 \$	5,200.0
Land Apquintation	10,200.0	70	10,200.0	:		10,200.0			T.	27,400.0

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

Table 3.14 Breakdown of Construction Cost : Inland Activity Zones

		@	Ø	Q		9		8	g	e		₩. Y. ±2	
Wacillities.		oce.i.	Foretgn	Ø + ⊗	<b>1.</b> 0	Tax	0+0	ocal	Foretgn	Ø+@	U.L.	ZeX	(B) + (G)
				74	982			Table 1		<b>F</b>	983		
Northern Activity	Sport Zone Netural Zone	3,708	170	3,878	272 285.6	122 128.1	4,200	3,708	170	3,878	272 285.6	122	7 700
cavity	Orchid Garlen Elephant-at- Work Display Antmal: Park Botanical Garden		07 7	7,756	<b>3</b>	244	\$,000	7,416	340	7,756	2775	244	8,000
Central Park Total Land Crand Total		3,708	170 858. 5	3,878 19,583.9 1	272 1, 373.6	122 616.1	4,000 20,200 29,300 49,500	3,708 18,725.4	170 858. 5	3,878 19,583.9	272 1,373.6	122 616.1	4 8 8 3 8 8 8 8 8 8 8 8
The street is a second to the street of the	a compressivativado attales acadas acad	The second second second	The second by a second of		9.8.4	A Company of the Comp			:	¥.	985		
Northern Activity	Sport Zone Natural Zone	3,893.4	170 178.5	3,878	272 285.6	122 128.1	4,000	3,708	170	3,878	272 285.6	122	7,200
אפבלאל כץ	Orchid Garden Elephantwatw Work Display Aniwal Park Botanical Garden		212.5	4,847.5	340	152.5	000°s	, 635	212.5	4,847.5	340	152.5	00°s
Central Fark Total Land Grand Total		3,708	170 731.0	3.878 16,675.4 1	272 .169.6	122 524.6	29,300 46,500	3,708	170 731.0	3,878 16,675,4	272 1,169.5	122 524.6	17,200 28,300 28,200 28,200
				, T	986		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	When the makes in		4	OTAL		
Northern Activity S Zone	Sport Zone Natural Zone	3,708	170	3,878	272 285.6	122 128.1	4,200	18,540	850 892.5	19, 390 20, 359, 5	1,360	640.5	20,00
Αστίνιτο	Digital Carden Elephant-ac- Work Display Animal Park Rocanical Carden		255	5,817	807	183	<b>6</b>	7,416 9,270 5,562	3 22	7,756 9,605 5,817	1 3 3 3 1 3 8 8	77. 202. 183.	8 88 8 88 8 88
Central Park Total Land Grand Total		3,768 16,871.4	773.5	3,678 17,644.9 1.	272 237.6	122 555.1	18,200 18,200 29,300 47,500	18.540 86.211	850 3,952,5	19,390 90,163.5 90,163.5	97 72 113	2,836.5	8888 8888 8888 8888 8888 8888 8888 8888 8888
	-						_						

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

Breakdown of Costruction Cost: Beach Facility (Ko Lan Island) for each of Tavan-Beach and Samae-Beach

			1981		****				1985	5					Total	15		
Works	© Local	Foreign	© © ©*1 ©*2 Local Foreign ©+© U.L Tax ©4©	비	tax *2 O ×2	9	eso dest	Foreign	(A) (O)+ (O)	ь Н	O R	8	⊕ooi Lecal	© Foreign		<b>₽</b>	Tax @40	<b>6</b>
Barth Works	144.6	144.6 50.0	194.5		13.5	208	36.1	36.1 12.4	78.6	1	3.4 52	52	180.7 62.4	62.4	243.1	1	16.9	260
Buildings	1,281.8	•	1,281.8 89.2 30.2 1,312 320.5	89.2	30.2 1	,312	320.5	•	320.5	22.3	7.5	328	320.5 22.3 7.5 328 1,602.3	•	1,602.3 111.5 37.7 1,640	5-111	37.7 1	079
Total	1,426.4	50.0	1,426.4 50.0 1,476.3 89.2 43.7 1,520 356.6 12.4	89.2	43.7 1	,520	356.6	12.4	· ·	22.3	9.01	380 H	369.1 22.3 10.9 380 1.783.0 62.4		1,845.4 111.5 54.6 1,900	111.5	54.6 1	900
Land						00			:			0						100
Grand Total	1,426.4 50.0		1,476.3 89.2 43.7 1,620 356.6 12.4 369.1 22.3 10.9 380 1,783.0 62.4	89.2	43.7.1	,620	356.6	12.4	369.1	22.3	10.9	ਦ ਲ ਜ	,783.0		1,845.4 111.5 54.6 2,000	111.5	54.6 2	000

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

<sup>\*1. © :</sup> Construction Cost without tax.

<sup>2. @ + @ :</sup> Construction Cost with tax.

Table 3.16 Breakdown of Construction Cost: Hotels (Private)

	.			ļ			İ		•				.						Val. t.	OULT X 19" BANE
				3							9							947		
Partitor in Pathays Local Persign	[ave]	Yers 197	3 3	ה ה		93	9	3 S	5 T	€÷ €		717	5 2	6	. W. U. Last O+ S Local Porting (R+O) U.L. Tax (R+O) Local Puralis (R+O) U.L. Tax (R+O)	yarek Brek		U.L	છે. કું	9
Seeth Works	331,00. 1481-0 7481,0 400 347.5 130.0 447.5 40.0	142.0	748.0	•	8	33.0	90	Ä	720	0.	•	•	32.5	964			:			
Put Lui Park	43,240,0	Jh, 800-0-1	0.0.0.01	0.4.0	2	021 0'0W	8	67,100,	5-11,200.	0 73,340	4	0,000	0.044	000	134, 320,(	32,400.0	144, 720,0	0,040,6	13,240,0	140,000
	235.6	# · #	242.6	F	•	17.4	Š.	157.	11.	7 74	4	12.6	11.6	8	316.0	62.4		~ -	2	\$
Lenitequesta	· ***	•	6K.), 9	7	٠.	19.7	90	390	3	360	=	20.5	5	8		٠.	:			
Tenel	94,715,7	24,715,7 17,034,8 11	11,754.5	550	0 10 0	145.5 121.	904	43,055.	11.391.	2 34 40A		414	6,644,	100	111,1964.) 6,350,0-10,0661.9 121,066 (43,095.9 11,391.2 78,406.7 4,191.4 -6,495.) 61,100-124,636.4 22,4624.4 147,096.8 8,665.4 13,005.2 13,005.2 140,006.	32,462.4	147,096.	H,865.2	13,303,2	340.400
PLOT						77	37,300				1						:			
Grand Total	<u> </u>	-	·!			84.							:		-					1
Vaciation in								31,197,	1 5,614	0 36 411	~ #:	65.4	, 28B. 2	001.04	SELECTA SECTION SOLUTION 2,165 to 3,180 to 100 SELECTA SECTION SERVED SERVED SECTION S	0.414.0	36, 623. e	2,205.4	3,3 RE, 2	001 0%

	L					_			7 J.W.												1			
Fredicty in Patraya Loss Portin & & C U.t. Tax O. C.	3.5	al Porelan	9 8	1 5	9.5	9	3 4		9 0 6	J. L	9 1	Powerian W-O U.1 The C-O West Provided Provided U.1. That One O West Powerian One O U.1. The One O	3 P	ت چ چ	ð	ስ-ቤ	9,5	9 - 4	1,486.1	urje.c.	6 6 8	U.L	9 5	0 - 0
Keesh Heela												-							403.5	312.0	903,3 312,0 1,215,9 - 64,5 1,300	•	***	300
Publishnam			:										:					·	179,720.0	30,400.0	279,720,0 50,400,0 330,120,0 19,440,0 29,840,0 360,000	P. 0.04.0	0,044,0	90,000
Parking Areas	:								:4							:			707.4	140,	842.B	16.7	22.2	8
Landageping	_														:				1,704.7	•	1,704.7 1,074.7 MG.3 25.3 12.100	é	3.5	1,100
Total																			82,403.6	30,432.4 3	282,403.6 30,832.4 333,254.6 19,577.6 30,042.0 363,300	8,577.0 X	0.5.0	\$3,300
	:				:	-					:													37,300
Grand Toyal	_		:				į.	:				-												900,00
Vacility in	1	31,197,8 3,614,0 36,814,8 2,165,6 3,288,2 40,100 31,197,R	4.41.4	2, 165.4	3,286.2	87 9	31, 197.8		16, 811.8	1,165.4. 3	346.2 M	DOCTORY OF THE STATE ACTION DESCRIPTION OF THE STATE ACTION CARRETC STATES ACTION CONTRACTORY CONTRACTORY OF THE STATES ACTION CONTRACTORY	107.6.3	X 0 19	,A11.4.	1,165,6	1,288.2	0,100	35,989.0	28,070.0 1	0'640'78'	0,477.0	0.1.4	00,500

Table 3.17 Breakdown of Construction Cost: Restaurants (Private)

															DMZ	Unit: x103 Baht	Sahr	
Works	4307	Noral gr	Ocal Foreign O+O	1,0		9 9 + 0	S Local	#Oreta	Cocal Poreign ©+©	3 5	e g	0 + 0 xet	@ .ce.	S Foreten	A Cocal Foreign G+G	J.L	e ă	Ø + 0
A Live A	208.5	72.0	1977	,	2 01	000	20%	0.57	1.978		19.5	300.0	208.5	72.0	1979		19.5	300-0
Buildings	_ 	•	- 1	136.6	9	Ci	2,051.7		d		48.3		44		2,051.7	143.4	68.3	2,100.0
Total		~	72.0 2.234.3	36.6	65.5	2,300.0	136.6 65.5 2,300.0 2,260.2	• -			67.8	143.4 67.8 2,400.0 2,260.2	2,260.2	72.0	2,332.2	143.4	67.8	2,400.0
7#ud						19,700.0	:		) 			19,700.0		•				29,700.0
			1980						1861						1982			
Earth Works	208.5		72.0 280.5	. •	19.5	300.0	208.5	72.0	280.5	•	19.5	300.0	208.5	72.0	280.5	•	19.5	300.0
Buildings	3,126.4		3,126.4		73.6	218.6 73.6 3,200.0	3,126,4		3,126,4	218.6	73.6	3,200.0	3,126.4	,	3,126.4	218.6	73,6	73.6 3,200.0
Total	3,334.9		72.0 3,406.9	218.6	93.1	218.6 93.1 3,500.0	3,334.9	72.0	3,406.9	218.6	93.1	3,500.0	3,334.9	72.0	3,406.9	218.6	93.1	93.1 3,500.0
Land			• •			19,700.0						19.800.0			-	· . !	:	19,800.0
	:		1983						7861	-					1985			
Earth Works		208.5 72.0	280.5	•	19.5	300.0	208.5	72.0	280.5	•	19.5	300.0	208.5	72.0	280.5		19.5	300.0
Buthtange	3,126.4	•	3,126.4		218.6 73.6	3,200.0	3,126.4	•	3,126.4	218.6	73.6	3,200.0	3,224.1	ŧ	3,224.1	225.4	75.9	3,300.0
Total	3,334.9	72.0	72.0 3,406.9		218.6 93.1	3,500.0	3,334.9	72.0	3,406.9	218.6	93.1	3,500,0	3,334.9	72.0	3,406.9	225.4	95.4	3,600.0
Land	: 		:			19,800.0					-	19,300,0						19,800.0
			1986	'					TOTAL	1							:	
Zarch Works		96.0	374.0		26.0	0.007	400.0 2,154.5 744.0 2,898.5	744.0	2,898.5	1 5	202.5	202.5 3,100.0						
Sulldings Total	3,321.8		96.0 3,695.8	232.3	104.2	232.3 104.2 3,800.0 20,289.8	30,389.8	744.0	744.0 31,133.8 1,643.2 866.2 32,000.0	1,643.2	966.2	32,000.0		:				
Lend	:	-				19,800.0			:		Ħ	197,600.0						
		. !																

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

Table 3.18 Unit Cost for Amenity Core (Public)

## Main Amenity Core

Works		Area in m <sup>2</sup>	Vnit Cost Baht/m²	Cost in 10 <sup>3</sup> Baht
	Removal of Existings	19,800	80	1,600
Preparation	Compensation	19,800	400	7,900
: <u>:                                   </u>	Sub-total	_	-	9,500
Earth Work		64,000	30	1,900
	Multi Purpose Hall	1,800	1,450	2,610
Duf 1 dina	Handicraft Center	2,200	1,984	4,365
Building	Tourist Center	500	1,450	725
	Sub-total			7,700
	Landscaping	25,200	30	800
Facilities	Paverent	116,000	66	7,700
raciffices	Parking Area	5,700	72	400
	Sub-total	-		8,900
Total		-		28,000
Land Cost		44,000		39,900

### Nothern Core

Works		Area in m²	Unit Cost Baht/m²	Cost in 10 <sup>3</sup> Baht
Earth Work		57,000	30	1,700
Building		750	1,450	1,100
	Landscaping	27,500	30	800
<b>Facilities</b>	Paverent	23,650	66	1,600
	Sub-total			2,400
Total		7		5,200
Land Cost		57,000		71,300

Table 3.19 Unit Cost for Inland Activity Zones (Public)

Work	8	Area in m²	Unit Cost Baht/m <sup>2</sup>	Cost in 10 <sup>3</sup> Baht
Northern	Sport Zone	100,000	200	20,000
Activity Zone	Natural Zone	700,000	30	21,000
	Orchid Carden	40,000	200	8,000
Central	Elephant-at-York Display	40,000	200	8,000
Activity Zone	Animal Park	50,000	200	10,000
	Botanical Garden	60,000	100	6,000
Central Par	rk	400,000	50	20,000
Total Cost			-	93,000
Land Cost		-	-	146,500

Table 3.20 Unit Cost for Service Facility in Ko Lan Island

### Tavan Beach

Works	Area in m²	Unit Cost Baht/m²	Cost in 10 <sup>3</sup> Baht
Earth Work	5,000	52	260
Building	2,090	785	1,640
Total Cost	<u>-</u>	_	1,900
Land Cost	-	-	100

### Samae Beach

Earth Hork	5,000	52	260
Building	2,090	785	1,640
Total Cost	-	-	1,900
Land Cost	-	-	100

- 4. Detailed Cost Estimation: Category A.
- 4.1 Road and Street System

Table 4.1.1 The Quantities of Construction-(1)

			College	Farth			Pass	FLOX	Drainspe	System	Crossing Pige
	Route No.	Total Length	Entrekeist	Soce	Me Tan	lasd	Carriage Vaj	Side Walk	Concre's	Feen	61,000
_}			63	n²	n <sup>3</sup>		w ?		<sub>m</sub> )	m <sup>1</sup>	
	T-1	5,959	93,583,9	21,533.2	13,765.3	173,245			6,547,93	39,85273	142,1
٠	¥-3	1,315	14,154,1	5,349.1	5,370 8	4,764			1,451 91	6,355.33	17.2
¥.	14 6	1,203	11,934.4	4,547,1		12,495			136 63	61619	1
*	1-3	170	15,205.9	3,356.3		6,577			455 92	1,326,97	
TOURSM	T-\$ (01)	435	2,792.7	1,035.9		4,828			502.45	2,491 24	<del>  -</del>
ફ	(D2)	435	1,688.1	543.4		3,650			419.58	2,965.16	21 1
5	, (D3)	535	2,456 2	537.6	-	5,272			554 26	2,643,79	25.6
	16 (DI)	270	814.8	473.9		1,279			227.52	1,059.22	1 -
	* (D2)	700	1,281 3	1,203.3		6,451	-		725 20	3,455.70	<u> </u>
	(D3)	193	252 0	63.7	~	2,100			19,995	955.55	-
	1-3										
101 101	RISM AREA AL	17,492	144,353.4	33,542.5	13,136 1	221112			11,193.03	52,717.55	232 4
		a fair									1
										<del></del>	<del>                                     </del>
:									,		
GRA	ND TOTAL	37,632	245,533.2	82,615.G	19,135 1	411,978			37,231 69	177,011 28	652 4

Note: Grand Total Includes works in Tourism Ares, Na Fina Icon A and B and Northern New York.

Table 4.1.2 The Quantities of Construction-(2)

		Total		Ores Da	ala .	Britge	52.2	ty Fec≹tier		_		
;	Route No.	Leagth	5.000	Excession		RC \$7≥8	Inite Spai	Lighting	Traffe Sign		Remarks	
			m)	3	<b>B</b> <sup>2</sup>	ь2	Non	N.×	N35.			
	T-1	5,559	9,160	4,100	13,500	-		373		_ `		:
	T-2	2,325	3,000	1,500	4,200	-		62				
. :	14	1,200	<u> </u>	_	-	-		_				
5	Y-5	410		_	-			S				
AKEA	T-5 (D1)	455	_					9			[	
ž	** (D2)	495	_	-	-	-		7				
TOURISM	(D3)	535		_	-	- 1		9				
ទ្	T-6 (01)	220	-	_	-	-		4	•			
4	* (D))	700	_	_	-	-		12				i
	" (03)	193		-	-	- 1		4				
	7-3		-		-	-						1
TOUR	ISM AREA TOTAL	12.492	13,[60	5,600	16,700	0.0		171+67+53				
17 14					i							
							:					
					J					· · · · · · · · · · · · · · · · · · ·		
GRAN	D TOTAL	37,637	13,300	6,000	18,300	180.0		11+62+63		-		

Table 4.1.3 The Quantities of Construction-(3)

\ l				Earth	Work.		Peres	scat	De ginige	System	Nee
$\setminus$	Route No.	Iotal terms	Cutting of Embackment	Sloge:	Median	las)	Cerrage Vay	Side Walk	Concrete	Forzs	<b>\$1,000</b>
V	1 1	: <b>P</b> :	n <sup>3</sup>	<b>™</b> 5	<sub>22</sub> 3	ń?		p)	<sub>01</sub> 3	10 S	•
	R-1 (4)	3,520	115711	5,263,3		10,016			3,615.72	17,427.52	43.2
	R-1 (B)	1,230	3,191.1	1,839.5	-	13,455			1,214.28	6,049.71	85.4
	R-2" (A1)	749	2,525.3	6705	_	2,641			775.96	3,708.30	43.2
1	* (A2)	314	628.3	460,4	-	3,032			325.30	1,554.62	21.6
	" (A))	144	242.6	69,2	-	1,323	17		[49.13	717.95	
ارا	- (10	- 141	391.4	85.4	-	1,307		1.77	\$45.G\$	691.09	4
î	X-2 (A1)	£13	3,259.5	19:61	-	9,644			E4) 27	4,025.17	13.6
<u>اځ</u> [	* (A2)	956	858.5	797.0		6,947			590.41	4,733.16	
2	" (A3)	693	1,262.6	£31.3		6,432	!		717.95	3,431.05	7 7 -
ž	* (10)	459	617,6	323.2		1,490			455.88	2,311.02	
	* (A5)	453	3,072.1	1,502.0		4,278			479.67	7,29232	
	~ (A5)	479	944.0	724.5	-	4,271			456.92	2,326.91	
	* (A7)	650	7,5928	1 293.2	+	2,757	!		683.76	3.767.66	27.7
	" (AS)	704	1,9:5.6	1 285 1		8,190			729.34	3,433.51	431
	(49)	351	1,745.4	873.7		4,292			363.64	1,737.63	
NA.	KUA-A TOTAL	11,6??	39,610.5	17,813.0	9.0	87,212	<u> </u>	100	12,097.37	57,812.87	276.0
4	R-2 (B1)	690	2,558.5	1,098.7		6,300	!		714,84	3,416,19	13.6
3	* (\$2)	835	6,9-63	1,509.5	-	7,815			844,34	4,035,07	13.0
¥	(13)	673	3,451.9	1,337.4	-	6,343	!		103.44	3,361.73	
ž	~ (8f)	650	1,417.9	538.4	-	3,669	!		704.48	3,365.64	<del></del> -
M. I	ILUA-B TOTAL	1,554	13,354.6	4,555.0	0.0	24,174	<del>}</del>		2,367.19	14 179 47	27.
NA B	JATOT AULI	14,541	52,575.1	22,657.0	0.0	213.3%	t		15,064.47	71 99254	301 1

Table 4.1.4 The Quantities of Construction (4)

N	Resie No.	Total		Occa Dich		Bilge		Safety Facility	,	 	
		leegh	Store	Eccusion	Lund	RC 5235	Treffic Septi	lytics	Talls See		Remarks
<u> </u>	¥	ρ.	<b>2</b>	m <sup>3</sup>	27,5	m2	N.s.	XX.	No.		. 1
l	R1 (A)	3,520	1,100	420	1,600	-	4	59			
1	R-1 (8)	1,230	<u> </u>		-	-,	17.	21	,		1 (
1 :	R-Y (A1)	749	-		~	-, 1		13			
1	" (A2)	314		-	-	-	1	- 6		 	<u> </u>
l i	" (AJ)	144			-	-		3		 	
	(A4)	141			-	-		3		 44   17	
- <	R-2 (A1)	813			-	-		14			
	" (A2)	956		· -	-	-	1.5	16			1 7 1
XC3	(A3)	693			-	1300		12		 	
*	* (At)	459		-	- 1	-		8		 	-
ź	" (A5)	463	-	F. 5.	-	-		8		 	<del>                                     </del>
	(A5)	470		-	+	-		8		 17.2	
] .	- (A7)	660		-	~	-		11	3 1 2	Taylor,	
	* (A3)	704		- 1	-			11		 	
L	(A9)	351	<u>+</u>		-			)2			
	UA-A TOTAL	11,677	1,169	430	1,600	1830	5			 	
1	R-2 (81)	630	-	~		-		13		 	F
KECK	* (B2)	815		4	~	-		14		1.1.21	
	(83)	679				_		12		 	-
ž	(£4)	640						12			
	UA-B TOTAL	2,864	0	0	0	0.0	0			 	
LNA KL	ŬA TOTAL	14,549	3,103	430	1,600	1600	3	255			<del></del>

Table 4.1.5 The Quantities of Construction-(5)

<b>\</b>			L	Farth 1	r cer		Pare	⊆esi.	Drainage t	iscen	Crossing
1	Route No.	Total Lergin	Cutting or . Embi-liment	Stope	Medias	list	Carriage	54817	Concrete	Form	\$1,000
			д3	<b>≈</b> 2	n3	<sub>m</sub> 1	m²	<sub>23</sub> 2	- <u>-</u> - 3	p. 2	25.
<u>.</u>	R1 (C)	1,626	14,551.8	3,692 2		0		<b></b>	1,694.54	8,059.33	21.6
· ·	2-2 (C1)	854	2,510.3	1,475.7	_	4,930		l	854,74	4,228.15	
1	" (C2)	495	2,0115	1,160 \$	- 1	4,192		<b>!</b>	512.82	7,459,75	<u> </u>
	_ (C3)	370	630.5	315.4	- ]	1,014	j	<b> </b>	176.12	241.67	
4.	" (C4)	1,663	2,145,1	1,113.3	-	11,626	-	<u> </u>	1,151 27	5 262 92	13 6
e 4.	- (C5)	430	2,472.5	718.1	-	4,913		1	445.45	2 175,53	
ζ	((6)	183	1,321.5	597.9	- 1	1,152		]	182.53	906.64	
Ó	* (C1)	687	3,120.1	1,636 0	- [	5,500		Ī	111.73	3,401,34	431
N. X	" (C8)	450	3,074.5	1,375.1		4,372	T		676 56	2,227.45	13
	* ((*9)	679	6,502.9	1,933 5	-1	5,630			674.12	3,317.17	
ORTHRKN	(C1c)	1,760	3,644,4	2,591.0	-	13,526		<del> </del>	9,761 20	8,416,70	ļ
Ē	* (C11)	428	451.1	452.6	-	2,342			443,43	2.117.03	
ğ	(C12)	363	1,041.3	668.4	3	2,114			376 97	1,797.22	<del></del>
~	" (C)3)	323	1,315.2	<b>635.4</b>	-	3,619			334.63	1.599.15	ļ .
	" (C14)	193	3,314.2	1,227.6	- [	6,043	1		395 62	14355	13.0
- 1	* (C15)	166	1,0505	514.3	- 1	550	1		155.43	742 65	
	= (CI6)	691	2,659.2	1,591.9		7,614			715.83	3,421 14	13.6
ORI	HERN										
EW	TODN TOTAL	10,654	47,319.7	21,435.5	00	76,606			10,55935	52,371 24	1168

Table 4.1.6 The Quantities of Construction (6)

1.0	Route No.	Total		Opea Ditcl		Bridge	Sa!	ety Facilitie	5			]
		रिव्हार्थ ख	Slope m²	Ewnska Ba	[22] m <sup>2</sup>	RC Stab m <sup>2</sup>	Traffic Signal Nos.	Lighting Nos.	Traffic Sign Nes.	-	Resets	
	R1 (C)	1,626	-	+				23	· –			
	\$-5 (C+)	834	-		-			33	- 1			
	(C1)	495	-	_	-	-	,	9	-			
	* (C3)	170		-		-	ij	- 3				
100	" (C4)	1,063	<u>1</u> v	1 -	-	-	1	14				
	" (C5)	430			-	-	-					
WORTHER JAKE TOWN	(C6)	183	-	-	-	-		4				i
ĮĔ	(C7)	657	-	-	-	-	_	13	1			
É	, (Ci)	160	-	-	-	-	-	8	-			
3	* (C9)	679	-	-	-		-	12	_			
Ě	* (CIO)	1,700		-	-		-	29	_			
Š	* (((1))	424	-		-		-	8	-			
2	, (C13)	.363		-	-	-	1	7				
	" (C13)	323		_ :		_	1	6	-			
	* (CiO)	295	=			_	<b>.</b>	5				
	<b>" (C13)</b>	166	_		-			3	<u> – .                                </u>			
	* (C16)	691		-	-			12				
NORT											11_	[
NEA	IODN TOTAL	10,583	00	0.0	0	0.0	0	135	0		LL	]

# Table 4.1.7 Quantities of Construction - (7) Beach Road (T3) (Excluding Park Facility)

			<u> </u>
1. Parking (Public)			
	Pavement	21,750 m <sup>2</sup>	
	Planting	1,150 m <sup>2</sup>	
		22,900 m <sup>2</sup>	
2. Bus Terminal	Pavement	3,940 m <sup>2</sup>	
	Planting	2,960 m <sup>2</sup>	
	Sidevalk	5,580 m <sup>2</sup>	
3. Beach Road Length			
Se	ction A (Wide	9) 860 m	
4. Road Lighting	1		:
		3.2 km	
		23 nos.	
5. Road Sign		24 nos.	
6. Parking			
Pa	venent	148 m²	
PI	anting	44 m <sup>2</sup>	
S1	dewalk	188 m <sup>2</sup>	

7 Park Pacilities	and the second s		
	Quantity		Quantity
Service Park A			
Earth work	640 m <sup>3</sup>	Snack	40 m <sup>2</sup>
Side walk	700 m <sup>2</sup>	Toilet	20 "
Parking for bicycle	60 "	Service house	50 B
Parking for rental	70 H	Retaining wall	100 "
bicycle Planting	420 **	Lighting	10 nos
	Quantity		Quantity
Service Park B			
Earth work	720 m <sup>3</sup>	Snack	40 m <sup>2</sup>
Side walk	310 m <sup>2</sup>	Toilet	20 "
Parking for bicycle	50 "	Service house	60 "
Parking for rental	45 "	Retaining wall	130 "
bicycle Planting	960 "	Lighting	12 nos
	Quantity		Quantity
Satellite Park			
Earth work	<del>-</del>	Toilet	15 n <sup>2</sup>
Side walk	170 m <sup>2</sup>	Vending	7 "
Parking for bicycle	40 "	Retaining vall	<u>.                                    </u>
Planting	100 "	Lighting	3 nos
		and the second s	

Tab	le 4.1.8	Quanti	ties of	Construc	tion - (8)
	*		Island		
					Total Length
	R. Fist	iery v.	N		2,225 n
		1	S	a.	1,400
	To	tal .			3,625
	Tien		a		425
. !	Tien Ta	ı-Van	<b>Ն</b> (		1,100
1	Tien Sa	imae	T		300 + 80
	Hiking I	Road			4,200

				Ĥ	Table 4.1.9	Unit Price	(ce - (1)	Earth Work	'n 'A			Unit: Baht
		·	4 %	Equipment	6 Macerial (1)	Oper	Operating (2)	Unakilled	Construction Coar (4)	100 (4) (4)=(1)+(2)+(3)	Tax (5).	Remarks
			3 100		Yoreign	- Local	Foreign	Labour	Local	Foretan	/a\ w=-	
	Form		m <sup>2</sup>	181.33	•	58.62	•	16.02	255.97		6:03	60½m² 262
<del></del>	Timbering		CE.	11.49	3	70.4	•	-	15.53	1	0.37	
	Staging		E E	15.79	•	5.47			21.26		05-0	
<u> </u>	Surplus Soil. by Dump Truck	(5 c)	£#	11.05	*	28.6	6.33	•	39.65	9.33	70.4	
<b>-</b>	Excavation by Mand		Ç <sub>II</sub>					39.95	39.95	•	76-0	
<b>!</b>	Embankmane				1	36.14	12.49	•	36.14	12.49	3.37	52
	Walling N=8 Bo	Both Side	E	63.12		2,052.03	519.23		2,052.03	519.23	107.49	2,741.87
L	Walling Rate Bo	Both Side	e	31.57		1,025.98	239.61		1,057.55	259.61	53,74	
<u></u> .	Welling H-15m			118.36	•	1,758.07	584.90	•	1,876.43	584.90	71.601	
<del>!</del>	Fence H-1.9m		É	78.84		22.96		•	301.80	•	7.20	
L	Concrete Pavement	re-year	r <u>e</u>	36.22		12.87	1.12	86.77	93.47	1.12	2.32	
<b>L</b>	Walling N=6.0m Both Side	ch Sida		47.35-		1,539.02	389.42		1,586.37	389.42	80.61	
<b>!</b>	Sodding		. E	20.52				1.66	22.18		0.52	22.7
<u> </u>	Concrete		E E	76.877	•	185.85	•	•	664.19	•	18-81	4508/m <sup>3</sup>
<b>L</b>	Excavacion Bulldozer (10c)	er (10t)	G <sub>B</sub>	06.0	•	9.45	9.7	•	10.34	9.4	0.81	
L	Excavation by Shovel	(0.6m <sup>3</sup> )	ĊŒ	2.58		17,36	11.07		19.94	11.07	6611	33
L	Rump Drainage (day) 102s	10Ps	ÇEN	66.92		113.88	15.02	22,18	215.05	15.02	7.75	
L	Pump Drainage (day)	\$45 <	Çey	38.10	10 10 10 10 10 10 10 10 10 10 10 10 10 1	117.87	2.0		155.97	2.0	4.03	
1	Reinforcement		ı,	7.667.6		2.866	1. A.A.	1.672	10,747.0		253.0%	11,000%/kg
ш	Masonry			285.0		87.7		13.2	385.9			
	Asphalt Concrete	1,093 K/m <sup>3</sup>		533.93		131.46	163.95	213.57	878.96	163.95	50.36	
	Baso. 30	307 g/m <sup>3</sup>		16.91		77.77	52.75	76.90	239.28	52.75	14-97	
	Sub base 23	rio K/m3		53.73		16.08	20.00	74.66	27*78	20.00	5.53	
			!									

able 4.1.10 Unit Price - (2) Instrument

Trem.		Unite	Rquipment &	Aquipment & Material (1)		Operating (2)	Unskilled		Observetion (4) Cose (4)=(1)+(2)+(3)	7ax (5)	Total
			Local	Foretgn	Local	Foreton	Labour	Local	Foreign		(4)+(5)
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(2)	ξ.	Non		18,356	5,209		274.0	5,479	18,356	2,881.4	26,716.4
(£)	و	non		16,289	4.628.4		243.6	4,872	16,289	2,557.6	23,718,6
Stgnal			6.839	5.950	3,908		1,954	12,701	5,950	1,349	20,000
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(3)		Ę		456,092	129,595.2	•	6,820.8	136,416	456,092	71,612.8	664,120.8

# Table 4.1.11 Compensation

## Compensation

- Remaining price for building
- 400 \$/m<sup>2</sup>
- Compensation for removal of personal property

50 g/m<sup>2</sup>

- Business compensation

500 B/m2

## Construction Cost for Removal

R.C.

200 \$/m<sup>2</sup>

kooden

80 g/m2

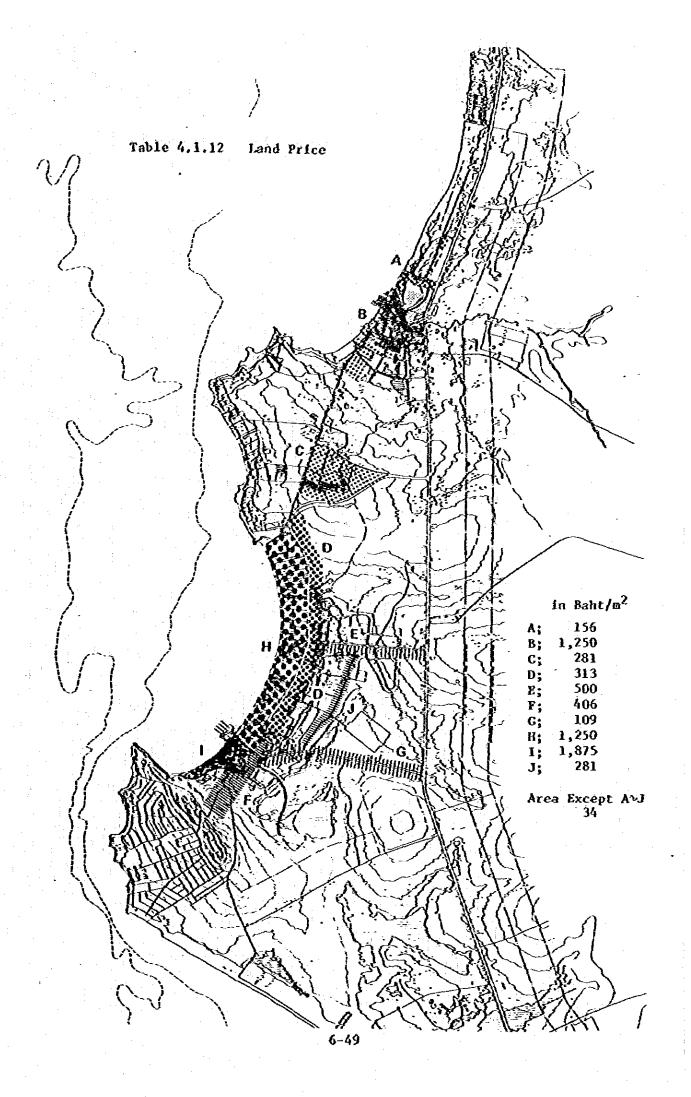


Table 4.1.13 Construction Cost for Tourism Area

#### Remarks

- U.L. = Cost for Unskilled Labor
   Cost in Thousand Baht

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Table 4.1.14 Construction Cost for Residential Area
(Na Klua/Pattaya)

## Remarks

- U.L. = Cost for Unskilled Labor
   Cost in Thousand Baht

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Table 4.1.15 ... Maintenance and Operation Cost for Tourism Area (Pattaya)

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Maintenance and Operation Cost for Residential Area (Na Klua/Pattaya) Table 4,1,16

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4.2 Severage System

- to be continued -

Unit: thousand Baht

Table 4.2.1a Construction Cost of Sewerage System - (1)

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Table 4.2.1b Construction Cost of Sewerage System - (2)

Unit: thousand Baht

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	33		2479.2 2479.3 8810.4	3083.4 3083.7 17965.3	1010.5 1869.6 1010.5 -3207.5		1 2 3	X.3 X.3		4 A 1
1	7		*03.8	647.5			5 ° °	77.3		<b>§</b> 4
			1425.3 1425.5 1400.7	34046.1 2091.7. 17137.8.	17630.1 7467.7 33447.6		1 2 2	* * * * * * * * * * * * * * * * * * *	:	11000 2000 33447
	Ħ		3 3	91	11	ng ng	,	Cacal Laba,5	ዊ ହ	1478,5 18947 2470 1471,5 13447
	š \$		45,5 3 94,5	48.3 3 44,3	2.5. 2.4.	8 c 3	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	C.45.24 4.44.2 4.45.24	125	10m.s 10m.s
2	<u>ş</u>		1.6 1.6		9.7 1.9	2 2	i i	* 5		ž 3
	343		3-3	***	• • • • • • • • • • • • • • • • • • •	700# 73 7981.	17.8 201.8	144.4 144.4 1137.4	265 1635 1584	1300.A
	3		381.9	1 337.3	C.res	4	1134.9 1144.7	843,4 1823,7 803,4 1823,7	3 3	\$ 80 80
LVRJ	3 5		3776.3 971.3-	400,1 400,1	1646.1 1640.9- ahab	1334.3 47.5 1407.0	1 × 3	<b>!</b>	3 5 5	437.5 12900.5 3126.3 477.1 15340.
5	, <b>7</b> 8		1 1 1	10.1	91.1F	\$ 09 9	4 4	733.4	+ - + +	
L	WLWhave.		A71.3 A71.3 APR.3	473	948 10401 1433	1316 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	AND O	#1 #0 # (O##	15 A 1	
	=		1 [A].A	3 344.9 6 363.3	3 443.7 3 443.3	4	7,01,	(81)	3 5	
1	35		5 1414,2 544,8 6 2541,6	1, 1987, 1 1361,6 1, 1866,9	1390	0/0m 14.4	C.1867 84 5.0041	4.844 4.844 8.445	14.1 1.93 1.93	ME.N LILIMA , 1307.8 MW.1. IMMILT
-	1.0		13.18.4 1 139.4	131.11.14.14.14.14.14.14.14.14.14.14.14.14	206.3	2 143.R	; ;	704.2	- :-	
	ALC LIBERT		1783.3 842.8 1 2806.1	1207.0 1207.0 3420.0	1339	3424.2 1136.5 1360.1	1703.4	1,7627.1 869.0 7,8116.7	3 5 8	10386.1. 23861.1
	5		4.5 m	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	5 g	1002 4	(*1851 T	* alea.2	100	1334.a. 3141.7 1671.5 2386.1
i su	117		4,133.4 1,333.4 1,000.1	Nita.t Indo.1 Ains	13 4270,7 1944,3 5: 10215,0	7 6013.2 285.8 7 8336	11074	tricult a	2010 2010 2010	
	Hit		* * *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	130.3	13 440.7 13 446.7	\$ 3	304.9	***	POLIDA 1004.2 9473.9 34473.0 1042.2
-	The st			, F. 4041, 0 , 1 1949, 1	1740.4 1946.3 17 MMR.7	7831.5 217.8 0.906.3	4078,1 1,78,4	11881. 6188.	9000 9440 9440	.f. roado.4 4472.3 7 24473.4
	5	-	#255.8 \$724.8 \$725.8 \$405.4 \$305.4 \$305.4 \$405.4	SPARES CARACA ALEGALL SAME, E. MADLE CALLES	1,0 7,8 9,7 9,7 9,7 9,7 9,7	, j	<u>. ;</u>			13. 3898, F. 16. 13. sele.?
20.2	Ten with	et o	4212.N. 4212.N. 5.9 31736.S	1.4   4444. 1.4544. 1.4544.	1,014010 0,0004 1,04401 1,04401			<del></del> -		1104401 0,000 11044015 11044015
		5 4	721, 4'4480c 4'8824	838.7 344 833.8 786.4 348	#420.7 05.20.0 (070.70.1 23.642.0 1.3043.0 0.0043.7					984301, 831019 207970.1. 22842,6 137081,8 8320,9 127412,7
	T. Tibati	Alok.			1,014041 0,000 1,00048 6,1448 0,54452 1,044041 0,000 0,54452 1,0440	6 6	: :	2 3		11 11 2001.
	1 1 1 1 1 1	4104		72970,5 101 18901,1 88076	36433,5 #842,4 20888,5 #842,4	13424,7 4846,8 439,6 16446,9 4440,8	1330,8 473,8 837,8 18101,8 472,8	30776.3 1633.7 3764.3 33872 1655.7	4 4	6, A A 10
TOTAL	10.	х э	40476-1- 2731.4 43408. 3023.4 10478-8 1053-9 1053-8 10016-9731-9 1053-8		PTONE ATRIBUTE CLAM STERROL PTONE ATRIBUTE CLAM STERROL	134 402 144	101 4'AC	#Ja.+ 20774.3 53%-5 #Ja.h 33372	230 1236 230 246	TOWART   TOW
		910,	10/7/8, 1. 27 10/7/8, 8 10/7/8, 9	44275, 4,375,2 43946,6 43746,8 4,333,3	12 0013, to 10000, 5 100035, 1	2,000 2,000 1,000	(4) 0'5/45 0'5/46 1995/10	JUNEAL WA		
-	Vitable I		Pare Lan 10 Tates 10	6	ALEMAN LANGE.	121 121 121 121 121	1390,   1491,   1310	4 13	Person Charles	
	ş							a i		
	5	<b>j</b>	10	37	Tatal E(3)=(3)	Carrier to		1	***	Tork
<b>-</b>	— <u>.</u>	•	•		L	<b></b>			لسنسا	i

Table 4.2.2 The Quantity of Construction
Treatment Plant and Pumping Station

1	Vorks	Colt	Total	1989	1981	1982	1983	1984	1985	Pezarks
	1. Cost of lead	-								
91	Purchase of land	n.2	239,100	239,160			. :			
41	Transfer of bouses		19,412	10,412						
respin								:	·	:
4	2. Pood construction	2		l						
5	Deforestration		239,100	239,160	ŀ	•				
NY.	Excavation (bulldozen	) B	69,950	1 1						
ä	Banking Remoulding of align-		149,670	149,670						
Ę	seat in the pood	m²	24,120	24,126				1	1	
NA. KELDA. TREATMENT	Coscrete block pitch-	-	10,833	10,830	!		1			
1	fog at alignment		:		1		Į.			-
궣	Clay-pitching in the	-	98,955	9\$,956			•			
Ę	Gravel read	۱.	22,673	22,673	•					
ĺ	Sodding	-	61,583		3				1	-
-	Alignment	-	8,624		1		1		1	
-	Fence		2,122	1 .	1	1			1	
į	Tevateries work 578	day	960		1		·			
1 2		[			1					
å.					1			l.	•	

	Vorks	to it	Total	1980	1931	1932	1933	1984	1985	Rezarks
	3. Structures									
1	Concrete	<u>.</u> 3	1,265	1,265				:		
1	levelling concrete	-	45.1	45.			:			
١	<b>L</b> einforcezeat	L.	104,0	104.	1	. :				
Ì	Form (frace)	2	5,205.7	5,205.	1					
ı	Cobblestode	<b>.</b>	273.8	273.	4					
1	Staging	. 3. ·	727	727		1	İ			
1	Timering	•	1,125	1,125	]	:				
	Excavation with timeering 1-fo	n i	157	157						
ı	Covatering work 5ps	day.	130	130		ļ ·			l	
١	Unvatering work 10ps	-	192	192		]				·
Ì	Building (it)	<b>=</b> 2	759	159	1			1	1	
- 1	Building (wooden)	-	60	63		ĺ	1		Ì	
	Gate 400x400	valt	12	12						
-	Excavation (shorel)	• <sup>3</sup>	11,535	11,555	1					
ı	Backfilling	•	9,850	9,850		1		Ì	ĺ	l
	Resoval of surplus		1,735	1,735			ŀ			
I	4. Piping					1			i	1
	Reinforced prestresse concrete f600	1	178	- 173						

	Vorks	Unit	Total	1930	1931	1932	1983	1934	1935	tezarks
	Reinforced prestresse concrete #700	d ,   **:	70	70		-				
i	Asbestos #300	*-:	459	459		1				
L L	Ashestos \$200		750	750						
3	Excavation (showel)	ь3	250	250						
î	Backfilling		215	215		-				100
THEATHENT PLANT	Recoval of surplus		35	35			: .	: ' '	:	and the state of t
	Unvatering work Sps	day	20	20		:				
NA KEUA	5. <u>Rechanics</u> , electrics		٠.					: •		
ž	Electricity-receiving equipment	unit	1	1	4					
	lepouring pump 37gy	-	3	3						
	Retura pump 5.5114		2	2						
	Instrumenting, pmpte devices	8.	1	1						
	1. Cost for land							-		
	Putchase of land	,2	183,500	183,500					1 1	
	Transfer of bouses	-	331	331						
	2. Peed construction						1.5			
	Ceforestration	, 2	183,500	183,500			1 1			
	Excavation (bullcozer	, 3°	65,550	37,930	21,170	5,550			900	

- to be continued -

	Vorks	Colt	Total	1980	1931	1982	1983	1934	1985	Rezarts
: :	Banking	_3	165,450	35,959	1,640	34,420			93,430	1
٠.	Rezoval of surplus soi	1	1,970	1,970	-	<u> -</u>		1.5	_	
	Remoriding of align- rest in the pond	n <sup>2</sup>	27,492	6,873	6,873	6,873			6,873	
	Concrete block pitch- ing at alignment	es .	12,360	3,093	3,090	3,699		۱. ا	3,090	
	Clay-pitching in the post	n	95,884	23,971	23,971	23,971			23,971	
Ľ	Gravel road	<b>.</b>	20,619	12,419	641	2,853	l		4,665	]
2	Sodding	-	42,978	7 %	11				42,978	
Ē	Alignment resoulding	#	5,765		= , * * *		ł		5,763	
	Feace		1,722		7, 47				3,722	
TREATMENT PLANT	Unwatering work 525	đay	846	458	264	.74		-	20	
Ş	3. Structurés					1. 14	200		13.4	
PATTAYA	Concrete	a3	371.5	317.6	19.	19.4			19.6	
2	Levelling concrete	a)	23.5	19.3	1.	1.4	Į į	1.0	1.4	1
-	Cobblestoce	*	45.0	45.0	1 1 44	4.00			- 1	
5	form (fraze)	<u>.</u> 2	2,599.6	2,113.9	158.	158.		14	153.9	5 34 4
	Relaforcessat	t	33.1		1		1		1,0.,	1
	Staging	3	170	170	] "	1 "	1		2.0	
P. V. Lev.	Timbering		197	197		100			- i	. A
	Cate 490x499	unkt	16			1				

- to be continued -

. 1	Vorks	Calt	Total	1950	1981	1952	1983	1934	1985	Pezarks
	Zuilding (RC)	,2 E	544	544		_				
	Building (wooden)	-	69	60		14				
. : :	Excavation (shovel)	3	1,371	1,371		14				
	Backfilling	"	1,604	1,664		:		Į.		
	Removal of surplus	•	357	367						
3	Unwatering work 5ps	day	131	131						
PLANT	4. Piping					1				
ਹੈ ਜ	Reinforced prestresse concrete f600	.d	445	445	·	-	İ			
PATTAYA THEADENT	Reinforced prestresse concrete #100	:d	70	79						
7	Asbestos #390	"	623	182	322	127	4		18:	2
ş	Astestos \$150	-	450	430			1			<b>\</b>
B	Excavation (showel)	<sub>2</sub> 3	209	200			1	1	i .	1
?	Backfilling	3	161	161		1		1		į
	Resoval of surplus	■3	39	33	,					
	Cavaterics work Sps	day	29	20	1		1.			
1	5. Discharging water ch	annel		1		1		1		
1	Cost for land	<b>a</b> 2	5,175	5,175		1 -	1	1		ļ
	Xasoary	<b>3</b>	4,530	4,530	)					

- to be continued -

	Vorks	Tole	Tetal	1550	1931	1932	1933	1984	1935	Rezarks
	Backing	23	7,270	7,270						
ı	Excavation (shovel)	- 1	2,770	2,770				l		
.	Excavation (sarpover	) -	310	310						
	Backfilling	-	925	925		:			·	
· Į	Concrete	-	51.8	51.8		1			1	
THEATMENT PALNT	Feinforceseat	,	5.2	5.7	ļ		1		1	
٤	Form (frame)	2	214	214					1	
Š	Cobolestone	63	11.1	11.3			1		1	
\$	Levelling concrete		5.5	5			1			:
2	limbering	a3	36	36	•	ľ				
ž	Staging	-	: 64	64				l	l	İ
РАТТАЧА	6. Fechanics, electric	Į į						1		
	Electricity-receivi		1.	.	İ				]	
	, equipment		<b>!</b> .	i .			ļ	1 .	1	
	ketura puap	] -	2	2		1		1		l
	lastruzentling, punp ing, devices	•	1	1						
	1. Cost for land Furchase of land	, z	\$20	500						
	2. <u>Civil engineering v</u> Excavation (showel)		3,459.	3,459.						

- to be continued -

1,910.2 1,549.1 54.4 54.4 198 687.4 82.4 989 1,185 1,826 24.4 73.4 200					
54.4 54.4 198 687.4 82.4 989 1,183 1,826 24.4 73.4					
54.4 198 687.4 82.4 989 1,183 1,826 24.4 73.4					
198 687.4 82.4 989 1,185 1,826 24.4 73.4					
687.4 82.4 989 1,185 1,826 24.4 73.4					
82.4 989 1,185 1,826 24.4 73.4					
989 1,185 1,826 24,4 73,4					
1,185 1,826 24.4 73.4			: :		
1,826 24.4 73.4					
24.4 73.4		:			
73.4					
17				 1	
266				14.1	
		** **		 	
600	1.5		-		
150				1000	
2					
2	1 -1		1		
	: -				
. 2				i	
	2			2	

	Vorks	Calt	Total	1950	1531	1932	1981	1984	1935	Rezarks
	1. Cost for land Purchase of land	2	1,620	1,620						
	2. Discharging vater ch Excavation (shore)	encel	5.878.1	5,878.						
	Removal of surplus		1	3,284.	j :	•				
ا ج	Packfilling		2,593.5	2,593.	<u>}</u>		. [ ]	ļ.		
, , , , , , , , , , , , , , , , , , ,	Discharging water channel E+10	B.	54.4	54.	4					: :· :
	Discharging water chamel E=7	-	54.4	54.	4					
W. A. L. SANIALVIE	Discharging water channel Ex3.3	-	54.4	54.	4			-		
	Discharging water charmel E=13	-	\$6.4	56.	4			.1		
	Covatering work 1078	C 1 y	339	339						
`	Coscrete		1,269.0	1,209.	d				1 +	
	Reinforcesent		145,0	145.	ď :			,"		1
1	Staging	]	1,737	1,737						
j	Ilntering		2,033	2,083						
1	Form (fraze)	al a	3,211	3,211						
	levelling concrete Cobblestone		50.1 150.6	50. 150.	1				: : :	

- to be continued -

	Vorks	Post	Total	1980	1931	1982	1983	1984	1985	Perarks
	Kasonry (RC)		419	- 610						
ا ر ا	Sodding		1,210	1,210						
Į	Fence		302	302			1	İ		
PUMPING STATION (PATTAYA)	3. Mechanica, electrica				:					
8	No.2 Pemp	unit	3	2	1					
Ę	No. 3 Pump	~	2	2					1	
55	No.4 Pump	•	2	2				1	}	1
ă	No.5 Pusp	<b>10</b>	4	- 2	1	1	ļ	1.		:
7000	Icstrusenting, people devices	8 -	1	. 1						
	Cominuter		4	4						
	1. Tavan Seach			I						
	Purification tank (for 100 persons)	uslt	3	:	3					
J	Excavation	, 3	145.6	•	145.	4				
Island	Backfilling	-	121.0	1	121.	₫	1			ĺ
Lan Is	Removal of surplus	-	24.6		24.	4				
3					: :					
	Purification tank (for 100 persons)	u⊇it	4	:	4	-				

- to be continued -

	Vorks	Usit	Total	1930	1931	1982	1933	1984	1985	Reserts
	Exterat log	<b>3</b>	174.8		174.5 142.6		,		-	
Island	Backfilling Resoval of Surplus Soil	•	112.0 32.8		32.	! I				
Lan Isl	3. Kolan Village Purification tank	ualt	470		117	317	117	119		
\$	(for 7 persecs) Excavation	3	1,787		445	445				
- 1		-1								
:										
						:	:			
								:		

- to be continued -

Table 4.2.3 The Quantities of Construction - (2)

	Zonet P	attaya						
	Area: 8	otel P	ipe: Kain					
	Pipe	Pipe	Ear	thwork (m <sup>3</sup> )		Kanho1	e (each)	
Year	diazeter (m)	length (n)	Excavation	Backfill	Renoval	General	Spectal	Remarks
1980	500	10	41	39	2	1	- 1	
	400	1,961	8,034	7,745	289	29		a defendance of the second of
	300	763	855	801	54			Pressure pipe
	300	1,110	3,283	3,205	18	22	2	
	250	315	562	546	16	7		
	200	987	1,474	1,443	31	22		
1.	Total		14,249	13,779	470	81	2	
1931	490	573	1,564	1,492	72	9		
:	300	693	1,485	1,438	47	16	1 (3) 1 (4)	
	250	1,228	3,162	3,111	51	27		11
	200	212	239	233	6	6		
	Total		6,459	6,274	176	58		
1982	250	248	512	500	12	5		

_	Pice	Pire	Ear	(čestk (m <sup>3</sup> )		Kanhole	(each)	Rezarks
Year	diazeter (m)	length (a)	Excavation	Backf111	Removal	General	Special	Pessins
1950	250	275	413	338	13	6		
	200	3,810	4,767	4,647	120	76	2	
	Total		5,178	5,045	133	82	2	
1981	200	1,657	1,605	1,553	52	- 31		
1992	390	358	1,185	1,158	27	8		
	260	3,215	4,049	3,947	102	63	1 .	
: 	Total		5,234	5,105	129	71		
1933	290	1,762	2,495	1,440	55	33	:	
1935	250	589	1,723	1,694	29	32		Over 10
	200	567	560	512	18	12		4
	Total		2,283	2,236	47	24		A Transfer

Zone: Pattaya Area: Bungalov

lov Pipe: Kali

ſ		Pipe diameter	Pipe	Ear	thwork (63)		. Kanhol	e (eath)	Remarks
l	Year	diaseter (m)	Pipe leagth (a)	Excavation	Beckfiil	Rezoval	General	Special	rendit5
ľ	1984	200	270	267	258	9	6		
l									
			-						
١									
								·	
İ									
		·				-		·	:
I				<b>.</b>					

Zoce: Pattaya

Area: Resident

Pipe: Mais

	Pipe	Pipe	Ear	thork (23)		Maabole	(ezch)	Recarks
Year	diazeter (B3)	leagth (m)	Excavation	Backfill	Removal	General	Special	
1950	700	10	107	103	4	1		
\$ 7 \$ 5 7	600	1,187	6,616	6,341	335	18	<b>i</b>	
*	500	199	692	653	39	4		
# # 15 * 15	490	277	953	953	35	4	2	
	300	348	804	780	24	8	ļ '	
	200	815	800	274	26	17		
	Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10,067	9,604	463	5,2		
				•				
					·	·	ļ	
			1					]
							<b>\</b>	

Zone: Pattaya Area: Bungalov Pipe: Branch

	Piçe	Pipe	Est	thvork (m <sup>3</sup> )		Manhole	(d269)	
Year	diameter (cm)	Pipe length (u)	Excavation	Backfill	Removal	General	Special	Regarks
1984	250	1,150	1,242	1,185	57	24		
i	200	1,005	1,281	1,249	32	23		
•	150	455	342	334	8			
	Total		2,865	2,768	97	47		
				\$		·		
į .								
				:				
-								
:								
		1 4 7	<u> </u>			<u>L</u>		

Zone: Pattaya Area: Resident Pipe: Branch

Year	Pipe	Pipe		thwork (m3)		Kanbole	(escb)	
Tear	dia-eter (m)	leagth (#)	Excavation	Back[il]	Rezoval	General	Special	Lezorks
1980	200	1,686	2,047	1,993	54	35		
1931	200	938	942	912	30	20		
1932	300	550	1,133	1,695	38	12		
	200	357	390	378	12	7		
	Total		1,523	1,473	SÓ	19		
1983	500	9:38	1,243	1,214	29	17		
1935	300	1,685	5,605	5,444	161	34		
	200	1,329	1,679	1,637	42	28	·	ren i tra
	Total		7,284	1,081	203	62	· ·	· -
				1				
		4.						

Zone: Pattaya

Area: Resident

Pipe: Branch (exergency road)

	Pipe	Pipe	Ear	thvork (m³)		Manhole	(esch)	, :
Year	diazeter (co)	length (m)	Excavation	Backfill	Peroval	Ceneral	Special	Pezarks
1981	200	3,828	3,849	3,721	119	83	ļ	
1982	200	250	213	205	8	5		
1983	200	2,195	2,032	1,962	70	- 59	·	
1984	200	1,200	1,077	1,033	33	29		
. •		: 1						
· · ·					-			:
			İ	· ·				1

Area: Toya "A" Pipe: Main

	Pipe	Pire	Earl	ikwirk (2 <sup>3</sup> )		Kanb	ole (each)	
Year	diazeter (63)	leagth (e)	Excavation	Backfill	Resoval	General	Special	Rezarks
1980	800	160	1,649	1,569	80	3		
	700	1,333	10,193	9,685	513	13		
	600	215	m	713	ெ	3	2	
	500	619	1,690	968	122		1	
,	500	1,289	4,969	4,715	254	21		
	400	261	1,133	1,100	33 .	4		
	300	927	3,393	3,328	65	21		
	250	50	15	14	: 1			
	250	550	1,110	1,052	28	13		
	200	220	302	295	8	4	2	
	Total		24,632	23,458	1,164	82	4	
1982	250	313	354	333	16	7		
1985	300	600	3,206	3,164	42	12		

Zone: Na Klua
Atea: Town "B" Pipe: Main

Pipe	Pipe	Ear	thvork (s³)		Kanhote	(esch)	
(ED) 01925(61	leagth (m)	Excavation	Backf111	Removal	Ceneral	Special	Remarks
300	1,730	2,948	2,826	155	36		
250	2,347	6,505	6,389	116	so .		
Total	1.	9,453	9,215	238	86		
250	848	1,815	1,773	42	17		
200	285	233	224	9	7		
Total		2,048	1,997	51	24		
200	516	645	629	15	10		
						14 J.	·
							· 
	, i						
	300 250 Total 250 200 Total	diameter (En) (en)  300 1,730 250 2,347 Total  250 848 200 285 Total	diameter (Em)         length (m)         Excavation           300         1,730         2,948           250         2,347         6,505           Total         9,453           250         848         1,815           200         285         233           Total         2,048	diameter (Em)         length (m)         Excavation         Backfill           300         1,730         2,958         2,826           250         2,347         6,505         6,389           Total         9,453         9,215           250         848         1,815         1,773           200         285         233         224           Total         2,048         1,997	diameter (Em)         length (B)         Excavation         Backfill         Removal           300         1,730         2,948         2,826         122           250         2,347         6,505         6,389         116           Total         9,453         9,215         238           250         848         1,815         1,773         42           200         285         233         224         9           Total         2,048         1,997         51	diameter (Em)         length (m)         Excavation         Backfill         Removal         Ceneral           300         1,730         2,948         2,826         122         36           250         2,347         6,505         6,389         116         50           Total         9,453         9,215         238         86           250         848         1,815         1,773         42         17           200         285         233         224         9         7           Total         2,048         1,997         51         24	diameter (EER)         length (B)         Excavation         Backfill         Removal         Ceneral         Special           300         1,730         2,948         2,826         122         36           250         2,347         6,505         6,389         116         50           Total         9,453         9,215         238         86           250         848         1,815         1,773         42         17           200         285         233         224         9         7           Total         2,048         1,997         51         24

Zone: Na Klua

Area: Town "A" Pipe: Branch

Y	Pige	Pipe		thvork (m <sup>3</sup> )		Xanhole	(each)	
Year	diazeter (ma)	l∉agth (∎)	Excavation	Back[1]]	Rezoval	Gezeral	Special	Rezarks
1980	490	3,490	7,724	7,286	438	70	<del></del>	
	390	2,523	5,940	5,763	177	51		
	250	2,043	6,173	4,074	53	44		
	260	4,689	4,557	4,405	152	105		
: <u></u>	Total		22,394	21,528	866	270		
1981	300	735	2,624	2,571	53	17		
	259	120	131	125	6	3		
	200	228	203	195	8	5		
	Total		2,958	2,891	67	25		+ · · · · · · · · · · · · · · · · · · ·
1985	390	683	3,841	3,793	48	15		

Zone: Na Kiua

Area: Town "A"

Pipe: Branch (emergency road)

1	Year	Pipe diameter	Pipe length		throck (m³)		Kantole	(each)	
ł		(m)	(m)	Excepation	Backfill	Recordi	General .	Special	Reaarks
	1931	200	2,420	2,307	2,235	12	54		
	1982	200	1,925	2,218	2,217	61	61		<u> </u>
	1984	200	289	239	230	ġ	6		
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Zoce: Na Klua

Area: Bungalow Pipe: Branch

Year	Pice	Pice	Ear	thwerk (a3)		Manbole	(each)	
1641	diaseter (m)	length (m)	Excavation	Backfill	Repoval	General	Special	Recarks
1983	250	390	421	402	19	8		
	200	510	581	565	16	11		
	160	354	255	252	3	:		Fressore pipe
	Total		1,257	1,219	3.8	19		
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1 . E			1			Į.	[	1

Zone: Na Kiua Areat Town "B"

Pipe: Branch

	Pipe	Pige	Earl	thwork (63)	1	Kashole	(each)		
Year	diazeter (mm)	length (m)	Excavation	Backfill	Removal	Geceral	Special	Resatks	:
1930	250	42	109	107	2	1			1
•	200	3,111	3,078	2,975	103	66			
	Total	:	3,187	3,082	105	67			1,
1981	200	400	351	338	13	8			
1983	250	300	668	653	15	7			
	200	589	617	598	19	13			
	Total		1,265	1,251	34	20			
٠					: :				
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			,						
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Zone: Na Klua

Area: fown "B" Pipe: Branch (exergency road)

İ	Year	Pice diszeter	Pire		heark (a3)			(each)	
L		(ta)	leagth (a)	Excavation	3±ckf131	Rezoval	General	Special	Pezarks
	1531	200	890	772	745	27	20		
	1982	260	1,355	1,120	1,078	42	30		
	1984	200	460	351	337	14	9		
			i .					. 1	
								: 1	
		:	1						

Table 4.2.4 Operation & Maintenance Cost

.						2	B/vear
	Item	1861	1982	1983	1984	1985	1986
V	Treatment station, electricity fee Relay pump No.1	216,692	216,692	216,692	216,692	216,692	216,692
אדמי	No.3 Chlorine treatment	82,716 28,612	82,716 32,036	82,716 35,460	103,224	103,224	103,224
78	Personnel expense Maintenance costs	382,800	382,800 67,364	382,800 67,364	382,800	382,800	382,800
	Total	825,716	829,140	832,564	864,376	865,109	880,998
	Treatment starion, electricity fee	41,100	001,19	41,100	41,100	41,100	41,100
<del></del>	North Pump No. 1	1	1 1	1 1	1 t	1 1	6 1
	No. 3	69,252	89,916	89,916	976*68	89,916	89,916
Υ.		10,194	10,194	10,194	10,194	10.194	10,194
	No.N	35,286	35,286	35,286	35,286	35,286	35,286
	<del>- •</del> -	78,144	147,820	217,497	217,497	217,497	217,497
ьу —	<b>-</b> -	8,070	20,298	27,145	31,547	34,237	38,639
	Personnel expense	382,800	382,800	382,800	•	382,800	
	Maintenance costs	49.537	67,167	77,022	77,022	77,022	
	Total	674,383	794,581	880,960	885,362	888,052	892,454
	Grand total	1,500,099	1,623,721	1,713,524	1,749,738	1,753,161	1,758,542

## 4.3 Storm Water Drainage System

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

Matter and the property of the contraction of

			•	<del></del>	<u> </u>				i -			(Unit	: 1,000	
•		100		1	TAL .			1	981	<del></del> -	<del></del>		<del>32</del>	B341
	VORKS	<b>T</b>	COST VITHOUT TAX	TAT	OOST VAX	v.L	OOST VITEOUT TAX	TAX	TAT TAT	U.L	OOST VITEOUT FAX	TAX	COST WITH TAX	v.t
2.	Hain Open Channel	LOCAL FOREIGN TOTAL		260	6,333 531 6,864	291 - 291	3,573 201 3,774	127 - 127	3,700 201	158	2,500 339	133	2,633 330	133
2.	Box Culvert	LOCAL FOREIGN TOTAL	2,627	73	2,700 53 2,753	79	1,849	52	3,901 1,901 39	158 56	2,830 778 14	233 21	2,963 799 14	: 133 : 23
3.	Spillvay	LOCAL POPE ION TOTAL	615 24	21	696 24	79 21 -	1,888 100 2	52 3	1,950 153 2	56 3	792 515 22	21 18	813 593 22	18 -
4.	Branch Open Channel	LOCAL FOREIGN	699 4,136 135	21 129	720 4,265 135	21 155 -	152 1,034 34	32	105 1,055 34	39 -	597 3,102 101	18 9) -	615 3,199 101	18 116
s.	Land Grading of Regulating		4,271 426 197	1 <u>29</u> 33	4.500 459 197	155	1,053	32 	1,100	- -	3,203 426 197	97 33	3,350 459 197	.214
	Pord Sub-total	TOTAL LOCAL FOREIGN	623 13,937 910	33 516 -	656 14,453 910	546	6,556 276	214	6,170 276	255	623 7,381 664	33 302	656 7,633 651	290
6.	Land Costs	TOTAL LOCAL POREICN	16,877	516 - -	15,193	546 -	6,832 10,915		7,046 10,915	255	8,045 6,222	302	8,357 6,222	290
	Total	TOTAL LOCAL FOREIGN	17,137 31,074 910	516	17,137 31,530 940	545	10,915 17,471 276	214	10,915 17,685	255	6,222 13,603	302	6,222	29
	<u></u>	TOTAL	32.014	516	32 530	556	17.747	214	276 17,961	255	664 14,267	302	664 14,563	29:

W.L: Unskilled labor

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

<del></del>	<del></del>		حنب				<u> </u>				(Coit	1,000	Beat
•	:	L	101	AL .		l	19	31	:		19	9.2	
WORKS		OST VITEOUT TAX	TAX	OPST VITH TAX	V.L	COST WITEOUT TAX	YAY	OST MICH TAX	V.L	OOST VICEOUT VAX	TAT	COST VITE TAX	v.:
Nain Open Channel	LOCAL FOREIGN TOTAL	4,304 258 4,562	358 	4,462 258 4,720	182 182	1,233 105 1,338	51 - 51	1,284 105 1,359	62 - 62	3,071 153 3,224	107	3,178 153	12
. Sox Culvert	LOCAL FOREIGN TOTAL	598 12 610	17	615 12 627	13	598 12 610	17	615 12 627	18		_10 <i>7</i> 	3,331	<u>12</u> -
Branch Open Channel	LOCAL FOREIGN TOTAL	2,068 68 2,136	65	2,132 68 2,200	78	1,034 34 1,068	32	1,055 34 1,100	39	1,035 35 1,068	32	1,066 34 1,100	<u>-</u> 3 - 3
Sub-total	LOCAL FOREIGN TOTAL	6,970 338 7,398	239	7,209 318 7,517	278	2,855 15) 3,016	100	2,965 151 3,116	119	4,105 187 4,292	139	4,244 187 4,431	
. Land Costs	LOCAL FOREIGN TOTAL	1,306		1,306		1,136	-	1,136	-	170 - 170		170	
fotal	LOCAL TOTAL	8,276 338 8,614	239	3,515 338 8,853	278 278	4,001 151 4,152	100	4,101 151 4,252	119	4,275 187 4,462	÷.	4,414 187 4,601	15
Grand Total	LOCAL POTEIGN TOTAL	39,350 1,278 40,628	•	40,105 1,278 41,383	824 824	21,472 427 21,839	314	21,786 427 22,213	375 375	17,878 851 18,729	-,	18,319 851 19,170	41

\*U.L: Trakilled labor

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

	;											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 12.5		
,	tes	il Excava- lico	Redi- dual soil	Con- crete	Form- work	Rein- force- cent	Cobble Stoces		Bank- Ing	±2 Hason- Ty	Pave- cent	Tiu- ber- ing	Stag-	Credies	*) Land
	Kain Open Channel	(m <sup>3</sup> ) 822,050 7 2,450	(n <sup>3</sup> ) 22,030	(±3)	(n <sup>3</sup> )	(1)	(m <sup>3</sup> )	(a <sup>3</sup> )	(q <sup>3</sup> ) 2,420	(m²) 5,630	(6 <sup>2</sup> )	(n))	(e <sup>3</sup> )	(n²)	(e <sup>2</sup> ) 24,900
ya Ares	Box Oulvert	A1,845 7 205	2,050	1,128	2,327	90.38	253	127	-	-	-	1,434	786		-
Pattaya	Spillvay	6830 7 92	922	341	385	20.60	125	6)	-			-	-	-	
Central	Branch Open Channel	26,300 V 700		-	1	-	-	-	- •	9,600	-	-	-	•	6,830
:5	land Grad- ing of Re- gulating Read	7		·	-		-		-			7 -1 .4 7 <b>-</b> .1	-	164,000	164,000
	Total	431,025 7 3,447	32,052	1,469	2,712	110.93	378	190	2,420	15,230	4,764	1,424	786	164,660	195,760
au.	Kain Open Charcel	611,183 0,1240		-	•		-	-	1,010	4,500	1,455		-	•	9,508
N T	Bex Culvert	2423 V 47	470	258	528	20.67	55	28	-	-	-	169	147	-	_
Southern Na Klua	Branch Open Chancel	43,150 8 350		-		İ -	-	-	-	4,600			-		3,600
Şor	Total	A24,753 ¥ 1,637	15,360	258	528	20.67	5/5	28	1.030		1,455	169	147	-	12,908

Table 4.3.4 Unit Cost by Work

	1	Machine and Mat	erial Cost	Oşerati	oà Cost	Labor Cost	Tax
Nork .	Calt	local Correscy (B)	foreign Correccy (8)	local Currency (B)	Foreign Currency (B)	Local Curreccy (8)	local Currency (B)
Mechanical Excavation	3	2.58	_	17.35	21.07		1.93
Massal Emayation	a 3	_	· · · · · · · · · · · · · · · · · · ·		-	37.95	0.94
lesidual soil	3	11.05	1	28.60	9.33	-	4,02
Banking	<b>3</b>	_		36.14	12.49	-	3,37
Coscrete	3	478.34		185.85	-	-	15.51
Fora work	<b>_2</b>	181.33	_	58,62		16.02	6.03
Reinforc=zent	•	9,499.40		998.50	_	249.10	253,00
Cobblestones	.3	149.97	•	42,41	52.75	45.90	14.97
Leveling coocrete	3	478.34	-	185.85			15.81
Kasoary (sala ogea chastel)	<b>_2</b>	570.00	_	175,49		26.40	15.20
Masoory (branch open channel)	2	285.00	-	87.70		23.20	9,10
Parenest	<b>2</b>	29.93		8.44		9.38	2.99
lindering	3	11.49		4.04	-	1.4	0.37
Stagleg	.3	15.79	-	5.47	-		0.50
land Grading of Pegulating Pond	2	0.20	14 (1	2.49	-	(2005), Projection (1905) Professional Company	0.20

Al A: Mechanical excavation, F: Manual excavation

Al Main open channel: t = 70cm, Branch open channel: t = 35cm

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

## 4.4 Solid Waste Disposal System