1. DATA OF ECONOMIC/FINANCIAL ANALYSIS

1.1 ECONOMIC INDICATORS

The following table shows the key indicators for the estimation of regional income of the triprovinces:

TABLE 2-46 ECONOMIC INDICATORS

| | | 可能多例是形 | | (%) |
|-------------------------------|---------|---------------|-----------|-----------|
| YEAR | 1985 ii | 1986 II. | 1987 in | 1988 ii |
| Nominal Grouth Rate of GDP | 5.2 | 5.5 | 11 | 14.3 |
| Real Grouth Rate of GDP | 3.2 | 3.5 | 7.1 | 8.5 |
| GDP Deflator (Annual Rate) | 2 | | 3.9 | 5.8 |
| GDP Deflator (1972=1.00) | 278.5 | 284 | 295.1 | 312.2 iii |
| Grouth Rate of Population | 2.4 | 2.3 iii | 2.3.iii | 2.3 iii |
| Grouth Rate of Per Capita GDP | 0.4 iii | 0.3 (ii | . 1.6 iii | |

Source ; i: Bank of Thailand Monthly Report, Apr. 1988

ii: The Nation, Aug. 18, 1988

iii : Study Team

1.2 NUMBER OF EMPLOYEE

Number of employment created by the tourism development is estimated by the following method.

1) PRODUCTIVIETY OF EMPLOYEE BY INDUSTRIAL SECTOR

The productivity of employee by industrial sector is estimated as following table.

The annual growth rate of the productivity is expected as 2.4 percent which is the same rate of the average growth rate of per capita GNP (real base) from 1982 to 1986.

TABLE 2-47 PRODUCTIVITY OF EMPLOYMENT

| 正常 美国民党部分中国特别中国共和国的 | 學是自己的的特別的 | 中央被使用的基础的。 | 到此时间的数点 位征 | | 在中国中国中国中国 | TEN FER THE WEB WEB |
|---------------------|-----------|------------|-------------------|----------|------------------|---------------------|
| YEAR | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
| | | | | | | |
| Agriculture | 11.7 | 10.6 | 11.8 | 11.9 | 12.9 | 307.9 |
| Mini. & Quarr. | 325.0 | 181.8 | 302.4 | 24,409.0 | 275.7 | 110.7 |
| Manufacturing | 95.6 | 98.8 | 90.4 | 93.5 | 99.1 | 100.0 |
| Construction | 92.1 | 99.0 | 73.8 | 78.1 | 89.6 | , 258.8 |
| Eeec. & Water | 153:4 | 144.2 | 282.5 | 256.0 | 231.7 | 198.2 |
| Trans. & Comm. | 137.8 | 161.8 | 158.5 | 164.6 | 177.4 | 91.8 |
| Commerce | 75,6 | 82,2 | 69.3 | 74.3 | 82,2 | 102.6 |
| Service | 71.9 | 84.4 | 83.7 | 85.5 | 91.8 | 學學語學的 |

Note: Thousands of Bt

Sauce: Estimated by the study term based on "Statistical Year Book Labour Statistics 1987"

2) REGIONAL INCOME GENERATED BY THE TOURISM DEVELOPMENT

Additional value added generated by the tourism development is calculated by the following formula.

(Additional Values Added) = $\sum_{i=1}^{n}$ (Tourist Expenditure) $\times \propto i \times r^{i}$

where

ci : coefficient rate of production value generated by the tourist expenditure in a industrial sector.

(i. : rate of value added out of total production value in i industrial sector

TABLE 2-48 OF AND CLBY INDUSTRIAL SECTOR

| N | 图 20 D S 66 图 57 B | 集团特 由《数约记》 | | 经的国际指挥技术 | gly Brookly as a al- |
|-----|---------------------|---------------------------|-----------|-------------------|---------------------------------------|
| 的赞 | | Sector | | 行學的意思的問題 | The second second |
| ri. | Andrew Services | C 941 5. 1435 4 7 9 5 9 1 | THE WHALL | | |
| | Agriculture | | | 0.0694 | 0.8018 |
| 37 | Mining & Qu | arrina | WW WELL | 0.0015 | 0.9000 |
| | Manufacturin | | | 0.2904 | 0.3616 |
| y. | 经未产品 医克里氏 医二角性 医甲基氏 | "我们的是一种"的一致"自己的"的意思。 | | 0.0043 | 0.4115 |
| | Construction | | | 0.0322 | 0.4384 |
| , | Electric & W | | | 0.0322 | 0.4304 |
| | 化医胚性小学 化邻苯基 法被约 法等权 | n & Commun | ication | 医以下45元的使用45克的复数形式 | ····································· |
| | Commerce | | | 0.0179 | 0.8321 |
| Ý | Service | | | 0.9318 | 0.6860 |

Source : Input/Output Table of Thailand, 1980.

Additional value added by sector is estimated as following table.

TABLE 2-49 EFFECT ON REGIONAL INCOME

| YEAR | 1987 | 1991 | 1996 | 2001 |
|----------------------|---------|---------|----------|----------|
| | | | | |
| Agriculture | 396.5 | 866.0 | 1,284.0 | 1,804.4 |
| Nini, & Quarr, | 9.4 | 20.5 | 30.4 | 42.8 |
| Manufacturing | 747.6 | 1,632,9 | 2,421.1 | 3,402.5 |
| Construction | 12.5 | 27.2 | 40.3 | 56.7 |
| Elec. & Water | 100.4 | 219.3 | 325.1 | 456.9 |
| Trans. & Comm. | 284.4 | 621.3 | 921.2 | 1,294.6 |
| Commerce | 1,062.0 | 2,319.7 | 3,439,4 | 4.833.5 |
| Service | 4,551.6 | 9,941.8 | 14,740.7 | 20,715.7 |
| Total | 7,164.3 | 1,564.7 | 23,202.3 | 32,607.1 |
| Increase (agst 1987) | • | 8,484.3 | 16,038.0 | 25,442.8 |

Not: Constant 1988 Price Millon Bt

As a result of the analysis, number of employee created is calculated as the regional income divided by the productivity of employment. The results are shown in table 5.1.7 of Volume 2.

1.3 DEDUCTION RATIO

The deduction ratio for the estimation of foreign exchange earning is calculated by the following formula.

(Deduction Ratio) =
$$\sum_{i=1}^{180} \alpha_i \times IMi$$

where

ci : coefficient ratio of production value generated by the tourist expenditure in i industrial

IMi : rate of import value out of the production value in i industrial sector

The deduction ratio is calculated at 17.28 percent using the formula. As for Songkhla/Hat Yai and Surat Thani, the deduction ratios are calculated at 13.30 percent and 25.40 percent respectively.

1.4 TOURIST EXPENDITURE

The following table shows the tourist expenditure in Phuket in 1985

TABLE 2-50 TOURIST EXPENDITURE IN 1985

| | Country of Resid | іепсе | | |
|--------------------------------|------------------|--------|---------------|---------------|
| | Thai Tourist | | International | |
| | | | Tourist | |
| Contents | Number | (%) | Number | (%) |
| | | | | · |
| Expenditure/Baht/Person/day(A) | 435.36 | 100.00 | 958.59 | 100.00 |
| - accommodation | 78.19 | 18.00 | 200.37 | 21.00 |
| - food | 99.78 | 22.90 | 214.00 | 22.30 |
| - transportation | 49.31 | 11.30 | 93.35 | 9.70 |
| - shopping | 116.74 | 26.80 | 212.33 | 22.20 |
| - entertainment | 42.11 | 9.70 | 113.56 | 11.80 |
| - others | 49.23 | 11.30 | 124.98 | 13.00 |

Source : TAT

Considering the construction boom of luxurious hotels in Phuket, the expenditures for accommodation and food seem to be quite low. In this study, these two expenditures are revised.

TABLE 2-51 NO. OF ROOMS AND AVERAGE ROOM RATE

| | | Ave | age | |
|-------|--------------|-----------|---------|--|
| Class | No. of Rooms | Room Rate | | |
| High | 4,723 | Bt | 1,689.4 | |
| Low | 3,216 | Bt | 266.0 | |
| Tota! | 7,939 | Bt | 1,112.8 | |

Source: List of Hotels and Bangalows in Phuket, TAT

Number of Tourists in 1987

Foreign Thai

399,000 256,000

The revised accommodation expenditure is calculated as follows.

X:Y = 200.37

78.19

No. of (Foreign Tourists) X + (No. of Thai Tourists) Y = 1112.8 X Œ (Total Number of Tourists)

where

X : Accommodation Expenditure of Foreigner in 1987
Y : Accommodation Expenditure of Thai in 1987

Ratio for the calculation of average room rate In this study the ratio is set at 0.75.

High season (6 month) full rate Low season (6 month) half rate

= 1097

Y = 428

As to food, using the same ratio to accommodation (87/85), the figures of the food expenditure in 1987 are given.

As a result of the revision, the tourist expenditures by category and by tourist origin are shown in Table 2-53.

TABLE 2-52 TOURIST EXPENDITURE (1987)

| Category | Thai | | Foreigner | | |
|---------------------------------------|-------|-------|-----------|-------|--|
| · · · · · · · · · · · · · · · · · · · | | (%) | | (%) | |
| Accommodation | 428 | 34.6 | 1,097 | 38.9 | |
| Food | 546 | 44.3 | 1,172 | 41.4 | |
| Transportation | 50 | 4.0 | 95 | 3.4 | |
| Shopping | 119 | 9.6 | 216 | 7.7 | |
| Entgertainment | 43 | 3.5 | 115 | 4.1 | |
| Others | 50 | 4.0 | 127 | 4.5 | |
| Total | 1,236 | 100.0 | 2,822 | 100.0 | |

1.5 MULTIPLIER

The multiplier for the calculation of the indirect benefit is calculated by the following formula.

(Multiplier) = i=1 j=1where,

 $\alpha \ i \ j$: coefficient ratio of production value generated by the tourist expenditure in i industrial sector and in j expenditure category.

OPERATING COST

The cost structures of existing facilities are shown in the following table.

TABLE 2-53 PERCENTAGE SHARE OF THE COSTS OUT OF THE REVENUE

| | Hotel * | | | | | Golf Course** | | % Convention | |
|--------------------------|---------|------|------|------|------|------------------|------|-----------------|--|
| | Α | В | С | D | E | F | G | Center*** | |
| Material Cost | 13,5 | 28.4 | 18.0 | | 11.9 | 24.4 | 4 | 6.1 | |
| Personnal Cost | 12.9 | 16.5 | 17.0 | 50.3 | 31.7 | 39.3 | | 17.4 | |
| Heat & Light Expenses | 4.3 | 7.1 | 10.0 | | 4.3 | 12.3 | | 5.2 | |
| Depreciation | 1.7 | 5.8 | 13.0 | | 4.2 | 5.3 | | | |
| Maintenacne Cost | 2.3 | 6.6 | 8.0 | | 3.6 | 3.1 | | 43.6 | |
| Tax (except. incoms tax) | 1.0 | 0.0 | 10.0 | | 2.6 | - | | - | |
| Misselleneous Cost | 20.8 | 5.0 | 10.0 | 25.8 | 31.9 | 13.8 | | 8.3 | |
| Total | 56.5 | 78.6 | 86.0 | 76.Q | 90.2 | 98.2 | 94.0 | 81.2 | |
| Ave. Occupancy Ratio | 58 | 41 | 60 | _60 | · • | | | | |

Source : * A - D Interveus survey to the hotelier in Phuket E "World Hotels 1000", Hotel Almanac

Bang Pra Golf Course and Kao Yai Golf Course

*** "San Fransisco Convantion Center"

