

IMPACT OF DEBT ON PROFITABILITY OF HOTEL COMPANIES LISTED IN STOCK
EXCHANGE OF THAILAND



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EXCHANGE OF THAILAND



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ABSTRACT

The study aims to examine the situation regarding profitability and debt financing as well as to investigate the impact of debt on profitability of nine hotel companies listed in the Stock Exchange of Thailand during 2001 –2020 by employing descriptive statistic including mean values and trend lines and multiple linear regression analysis with dummy variables. In this study, total debt, short-term debt and long-term debt are measured by total liabilities to total assets ratio, current liabilities to total assets ratio, and non-current liabilities to total assets ratio, respectively while net profit margin represents profitability .Moreover, cost of debt, liquidity, efficiency, sale growth, and company size are assigned as controlling variables.

The findings reveal that profitability of all hotel companies was volatile during the study period and Shangri-La Hotel had the greatest profitability with the average net profit margin of 12.34 percent. Furthermore, all of them had debt financing which was obtained from both short-term and long-term debt. The results from the multiple regression analysis reveal that total debt, short-term debt and long-term debt had the significantly negative impact on profitability of hotel companies but short-term debt

had the greater impact on profitability than long-term debt. Furthermore, efficiency as measured by total asset turnover was found to have the positive impact on profitability.

Keywords: Debt Financing, Profitability, Hotel Companies, Stock Exchange of Thailand



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CHAPTER 1

INTRODUCTION

1.1 Background and Signification of the Problem

Profitability is a simple but important key measure of business success. Each company needs to ensure that its profitability stays positive otherwise, it may not be able to sustain in the long run. Profitability is also important to a company's stakeholders since it is a reference for them to review and make decisions regarding the company. For example, investors would review the company's profitability before they decide to invest while suppliers review it to ensure that the company has ability to pay their bills. Hence, it is important for management to ensure that the company's profitability is constantly growing. However, growing revenue alone may not be sufficient to drive the profitability. There are also more factors to be focused lean operation cost, sufficient investment fund, and reasonable expenses. While an income statement is the first reference to evaluate profitability, a balance sheet is also important. Besides viewing a company's assets, liability is also an important factor. Liabilities or debt are one of the most vital performance indicators of companies since they affect companies' expenses, operations and, of course, profitability. Therefore, proper debt management is considered very crucial for companies' good performance and sustainability.

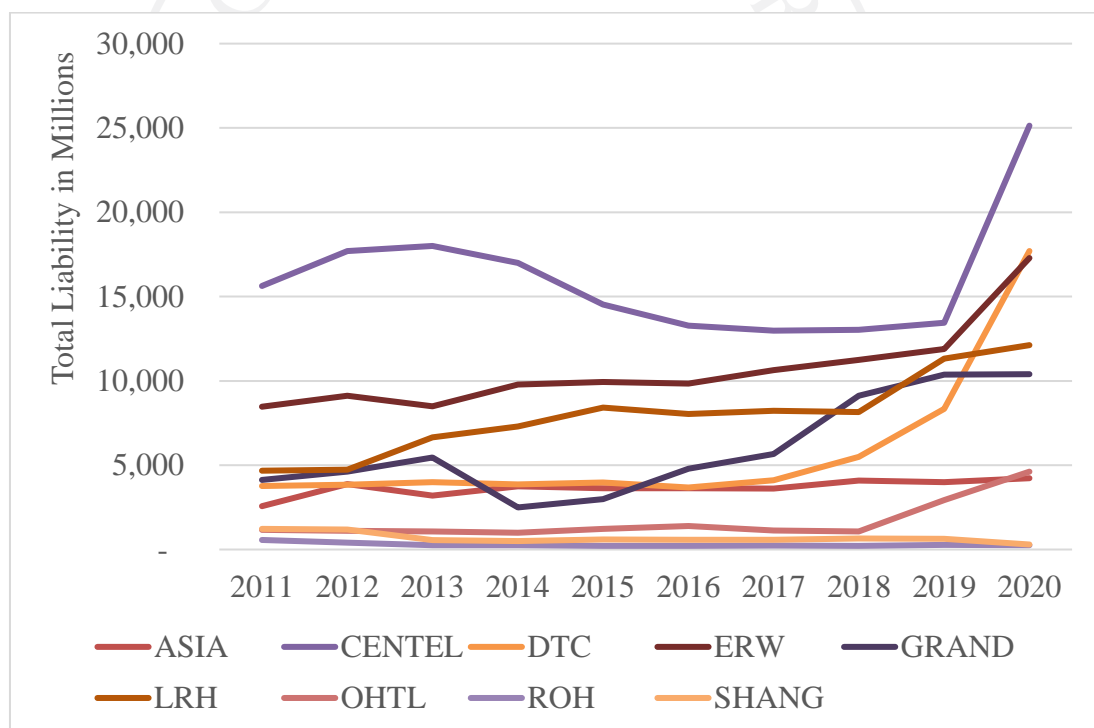
One of the most important management's functions is to ensure that the company has sufficient funds for its operation and investment. To raise funds for the company, it may not be sufficient to only rely on the company's owners or investors. As a result, debt financing is another option for management when seeking sources of

funds. Debt financing may be an easier and faster option for some company while it contains higher cost and affects the company's income statement as well as balance sheet. Income statement is impacted from interest expense which will dilute the company's profit although there might be some tax benefit to offset such expense. Balance sheet is impacted from higher liabilities and may cause lower equity portions. Relationship between debt and company's profitability has been widely studied by many researchers. They found both positive and negative impacts. For example, Addar, Nyarko-Baasi & Hughes (2013) found a positive relationship between short-term debt and profitability and negative relationship between long-term debt and profitability of listed firms in Ghana. Ikapel & Kajirwa (2017) also found a negative relationship between long-term debt and financial performance of state owned sugar firms in Kenya whilst Jones & Edwin (2019) found a positive relationship between total debt, short-term debt, and long-term debt and performance of listed consumer goods firms in Nigeria. Therefore, the impact from debt is still unclear whilst it is important and interesting for further study.

Since Covid-19 pandemic occurred in early 2020, traveling has been paused for both leisure and business purposes. Hotel industry has been detrimentally impacted. With significant loss in revenue, their cash flow has struggled. However, large hotel companies are still keep investing on their mid-range and budget hotels such as The Erawan Group Plc. and Central Plaza Hotel Plc. (Lunkam, 2021). Due to both crisis and investment plans, hotel companies need to find sources of funds and most of them are from debt financing. Data from the Stock Exchange of Thailand in 2021 proves that most hotel companies had significantly greater debt in 2020 (see Figure 1), and the greater debt in 2021 is also anticipated. This situation causes concern that hotel

companies will have debt problem in the long run. Because of huge assets mostly financed by debt of most hotel companies, the hotel industry is selected for this study. That is, this study aims to investigate the impact of debt on profitability of hotel companies listed in the Stock Exchange of Thailand. This will provide a better understanding of the impact of debt on profitability in order to improve debt management and financial performance as well as assisting managements on their decision making.

Figure 1.1: Total Liability of Nine Listed Hotel Companies in the Stock Exchange of Thailand



Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels And Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel

(The Stock Exchange of Thailand, 2021)

1.2 Research Objectives

Research objectives are as the following.

1.2.1 To examine the situation regarding profitability of hotel companies listed in the Stock Exchange of Thailand

1.2.2 To examine the situation regarding debt financing of hotel companies listed in the Stock Exchange of Thailand

1.2.3 To investigate the impact of debt on profitability of hotel companies listed in the Stock Exchange of Thailand

1.3 Scope of the Study

The scope of this study is as the following.

1.3.1 This study covers only nine hotel companies listed in the Stock Exchange of Thailand.

1.3.2 This study covers the period 2001 - 2020, totally 20 years.

1.4 Expected Benefits

Expected benefits from the result of this study are for main users as the following.

1.4.1 Investors – for evaluate risk and making decision in hotel companies stocks

1.4.2 Management – for better debt management and minimize negative impact of debts to the company's performance as well as ensuring statement of financial position and statement of comprehensive income are in the right position and attractive for the investors

1.4.3 Policy makers such as the Stock Exchange of Thailand and the Securities and Exchange Commission – for setting up, implementing, and monitoring debt management policy for listed companies in order to strengthen the stock market and uplift the standards

1.5 Technical Terms

According to Investopedia (2021), technical terms of this study are defined as the following.

1.5.1. Profitability is a measurement on a company's ability to yield profit from investment. It is measured in the relative factors instead of amount and used to evaluate the company's performance.

1.5.2. Net profit is a final profit value which is derived from revenue minus cost of goods sold, operating expenses, and other expenses (included interest expenses and taxes). It is stated in an income statement of the company which can be both positive and negative values depending on the company's performance.

1.5.3. Net profit margin is a relationship between net profit and revenue. It is usually presented in percentage value which interprets the return on profit of one dollar in revenue. Growth in net profit margin is preferable.

1.5.4. Leverage is one of the financial tools that uses borrowed funds to expand assets. This occurs when a company wants to expand and has higher return without using funds from equity but chooses to loan instead.

1.5.5. Debt Financing is a financial activity that increases a company's working capital by lending money from individual or institutions investors. The company needs to return in both principal and interest to the investors within the agreed

period and conditions. The interest can be recorded as expenses to the company which contribute to tax saving.

1.5.6. Current assets are assets that can be quickly converted, transferred, transformed, and used in normal operation within a year such as cash, account receivable, and stock inventory.

1.5.7. Non-current assets are long-term assets that can be used for longer than one year and take time to convert into cash when needed.

1.5.8. Total assets are economic valued resources that are used to generate a company's value. Total assets are combined from both current and non-current assets which equal to sum of total liabilities and equity in a balance sheet.

1.5.9. Current liabilities are short-term financial obligations that need to be repaid within a year which regularly occur from operating activities.

1.5.10. Non-current liabilities are long-term financial obligations that need to be repaid over a year which regularly occur from investment activities.

1.5.11. Total liabilities are the total financial obligation that a company has to repay which combine both current and non-current liability.

1.5.12. Debt ratio is derived from liability divided by total asset which is used to compare portions of debt over assets. Higher ratio implies higher risk of the company since it contains higher debt than owned assets.

1.5.13. Cost of debt is an average interest rate on total debt. It is derived from the total interest amount divided by the total debt amount and is used to identify the total interest cost of borrowed funds.

1.5.14. Debt management is a strategy to manage debt of the company and ensure the debt ratio is in the right portion as well as interest cost is reasonable in order to maximize profit from the loan.



CHAPTER 2

LITERATURE REVIEW

There are four main sections which have been reviewed and referred to support the study on the impact of debt on profitability of hotel companies listed in the Stock Exchange of Thailand as following.

2.1 Debt Financing

Debt financing is a financial activity to raise a company's working capital by lending from outsiders. Borrowing period and interest rate are agreed between both parties. Unlike raising fund from equity financing, the company does not lose any control from giving away on stock in exchange (Investopedia, 2021). Although there are interest expenses, debt financing is popular with several theories to support debt financing such as following.

2.1.1 Debt Covenant Hypothesis is one of the three hypotheses from Positive Accounting Theory. This hypothesis is an assumption that a company's management change accounting procedure to favor their current period earnings reports by shifting the earnings from future period when it is closer to debt agreement in order to avoid penalty fee as per the debt agreement (Nasurion, Putri, Muda & Ginting, 2018)

2.1.2 Modigliani - Miller (MM) Theorem focuses on company's capital structure. The first version was developed base on perfectly efficient market which conclude that the company's capital structure has no impact to its value (Corporate Finance Institute, 2021). The theorem was further to include taxes, bankruptcy cost, and asymmetric information factors and found positive benefit from tax shield (Corporate

Finance Institute, 2021). Tax shield is a benefit from tax saving on interest taxable expenses. Tax shield creates value to the leverage company and compensate negative perception of investors on the company's additional loan.

2.1.3 Trade - Off Theory is further developed from MM theorem which focus more on effect of tax and bankruptcy cost from a company's capital structure setup (Cekrezi, 2013). While the tax-shield benefit is enjoyable to the company, too much debt could create high chance of bankruptcy. Since there are both advantage and disadvantage on debt financing, the company has to find an optimal capital structure in order to maximize tax-shield benefit while minimize risk of bankruptcy.

2.1.4 Pecking Order Theory is based on asymmetric information that internal management has more information than externals (Corporate Finance Institute, 2021). This imbalance of available information cause internal financing contains lower cost than externals. External financing can be categorized base on balance sheet which are liability or creditors and equity or shareholders. Loan from creditors has lower cost than raising fund from shareholders since the creditors has lower risk than shareholders due to higher prioritize of return in case the company become bankruptcy. In addition, raising equity contains hidden cost from diluting stock price and negative signal on the company's performance. Considering on cost impact, source of fund with lowest cost should be the first priority which imply that the company should fund from internal (retained earnings) first then borrowing from creditors as the second and raising fund from shareholder is the last option.

2.2 Financial Statement Analysis

Financial statement is a record of a company's valued business transactions under three main parts that are balance sheet, income statement, and cash-flow statement (Investopedia, 2021). Detail of the main parts of financial statement are as following.

Balance sheet contains data on the company's assets, liabilities, and equities which reports on financial value of the company's belonging and obligations as of reported date.

Income statement reports the company's performance on specific accounting period by deriving net profit from revenue less cost and expenses. Company's operational performance as well as efficiency of its management are reviewed through the income statement.

Cash-flow statement includes both cash in-flow and out-flow of a company which does not limit to operational activities but include investment and financing activities. With the movement in activities, cash-flow statement represent the company's cash status as of reported date.

Since the financial statement reports all necessary aspects of the company, all stakeholders which include management, creditors, and investors use data from the financial statement to analyze the company's performance and evaluate risk in their expectation on investment. There are many techniques of the financial statement analysis such as following.

2.2.1 Trend Analysis or horizontal analysis is a technique that compares the same item in the financial statement over a period of time (Javed, 2021). Main objective of this analysis is to evaluate the growth of compared items over a time period in order

to review current company's performance as well as predicting future trends. This technique is easily computed in amount and percentage by using data from an income statement and balance sheet. Calculations are as following.

$$\text{Amount} = \text{Latest data} - \text{Earlier data}$$

$$\text{Percentage} = ((\text{Latest data} - \text{Earlier data}) / \text{Earlier Data}) \times 100$$

Table 2.1 : Sample of Comparative Financial Statement Data with Trend Analysis

| Financial Data | 2019 | 2020 | Variance (2020-2019) | |
|-------------------|------------|-------------|----------------------|---------|
| | | | Amount | % |
| Total Assets | 17,000,000 | 21,000,000 | 4,000,000 | 23.5% |
| Total Liabilities | 12,000,000 | 17,200,000 | 5,200,000 | 43.3% |
| Total Equity | 5,000,000 | 3,800,000 | (1,200,000) | -24.0% |
| Revenue | 6,500,000 | 2,300,000 | (4,200,000) | -64.6% |
| Net Profit | 450,000 | (1,700,000) | (2,150,000) | -477.8% |

Based on the sample financial statement data in table 2.1, we can compute trend analysis as in column "Variance (2020-2019)". Sample explanation from the trend analysis is total asset in 2020 increase from 2019 by 4,000 or 23.5%. This seems to be a good performance since their total assets significantly increase over year and can lead to higher trust from investors. However, when considered further at total liabilities, the increasing of the total assets is from higher liabilities or debt and imply on high risk for the investors. Although this technique is simple to explain on individual items, it should be crossed analysis between the items in order to avoid under evaluate the company's performance.

2.2.2 Common Size Analysis or vertical analysis is a technique that compare an individual item to selected based items in financial statement within the same period of time and presented in percentage value (Javed, 2021). Main objective is to analyze the proportion of selected items over the base item as well as capital structure of the company. It is commonly used to evaluate both income statement and balance sheet. In addition, it is also provide useful information when analysis performance of multi company or businesses unit since it can explain a contribution of individual company or item over the same based. Calculation in this technique is as following.

$$\text{Proportion Percentage} = (\text{Amount of indiscipline item} / \text{Amount of base item}) \times 100$$

Table 2.2 : Sample of Comparative Income Statement with Common Size Analysis

| <u>Detail</u> | <u>2020</u> | | <u>2019</u> | |
|---------------------------------|-------------------|--------------|-------------------|--------------|
| | <u>Amount</u> | <u>%</u> | <u>Amount</u> | <u>%</u> |
| Sale | 20,000,000 | 100.0% | 15,000,000 | 75.0% |
| Cost of Good Sold | 5,000,000 | 25.0% | 3,000,000 | 20.0% |
| Gross Profit | 15,000,000 | 75.0% | 12,000,000 | 80.0% |
| Sale & Marketing Expenses | 2,000,000 | 10.0% | 1,500,000 | 10.0% |
| Administrative Expenses | 1,500,000 | 7.5% | 1,000,000 | 6.7% |
| Total Operating Expenses | 3,500,000 | 17.5% | 2,500,000 | 16.7% |
| Income Before Interest | 11,500,000 | 57.5% | 9,500,000 | 63.3% |
| Interest | 1,000,000 | 5.0% | 1,000,000 | 6.7% |
| Income Before Tax | 10,500,000 | 52.5% | 8,500,000 | 56.7% |
| Tax | 3,150,000 | 15.8% | 2,550,000 | 17.0% |
| Net Profit | 7,350,000 | 36.8% | 5,950,000 | 39.7% |

From sample in table 2.2, common size analysis is presented in column “%” and “Sale” is set as based item. Sample explanation from the common size analysis is Company A has net profit margin in 2020 as 36.8%. Further analysis on the income statement, cost of goods sold is 25% of sale value while total operating expenses is 17.5% and follow by tax expenses of 15.8%. If the company want to increase their profit margin, they should focus on their cost of goods sold first since it is the highest impact. Furthermore, comparison of common size analysis over period is also useful. From the sample in table 2.2, comparing to 2019, company A has lower net profit margin although revenue is higher. The main impact is from cost of goods sold which grew the margin from 20% in 2019 to 25% in 2020. This can lead to further investigate that supplier increase the materials price or company A reduce the selling price to gain on sale volume while cost of materials remain the same.

2.2.3 Financial Ratio Analysis is a technique that compare data item from financial statement and reported as relationship of the compared data in the same period (Investopedia, 2021). It is used to evaluate the company’s performance individually as well as comparing with other in the same industry. This analysis can be categorized as following.

1. Liquidity Ratios measures a company’s ability to pay back debt by using an internal fund (Investopedia, 2021). Main objective is to analyze quickness that the company can convert their asset to pay coming due liability. The higher ratio, the better liquidity position for the company. Common liquidity ratios are as following.

1.1 Current Ratio is an ability that a company uses its current asset to pay back its short-term liability or current liability which is due within a year. Calculation formula is as below:

$$\text{Current Ratio} = \frac{\text{Current Asset}}{\text{Current Liability}} \text{ (times)}$$

1.2 Quick Ratio is similar to current ratio but exclude inventory value since it may take time to convert the inventory into cash. Calculation formula is as below:

$$\text{Quick Ratio} = \frac{\text{Current Asset} - \text{Inventory}}{\text{Current Liability}} \text{ (times)}$$

2. Efficiency Ratios measures a company's ability to utilize its resources effectively as well as maximizing its profitability (Corporate Finance Institute, 2021). More efficiency reflect to more profitability and return to investors and shareholders. Sample of efficiency ratios are following.

2.1 Total Asset Turnover describe an effectiveness on revenue return over total asset value. Higher ratio mean a company efficiently utilize its asset to generate. Calculation formula is as below:

$$\text{Total Asset Turnover} = \frac{\text{Total Revenue}}{\text{Average Total Asset}} \text{ (times)}$$

Where:

$$\text{Average Total Asset} = \frac{\text{Beginning total asset value} + \text{Ending total asset value}}{2}$$

2.2 Account Receivable Turnover describe an effectiveness on collecting money from credit sale. Higher ratio mean more efficient on collection and reflect positively to a company's performance. Calculation formula is as below:

$$\text{Account Receivable Turnover} = \frac{\text{Net Credit Sales}}{\text{Average Account Receivable}} \text{ (times)}$$

Where:

$$\text{Net Credit Sales} = \text{Total revenue from credit sales} - \text{Returns from customers}$$

Average Account Receivable =

$$\frac{\text{Beginning account receivable value} + \text{Ending account receivable value}}{2}$$

2.3 Inventory Turnover describe an effectiveness on inventory managing. Higher ratio means a company efficiently manages their inventory that converts quickly to be sold. Calculation formula is as below:

$$\text{Inventory Turnover} = \frac{\text{Cost of Goods Sold}}{\text{Average Inventory}} \times 100 \text{ (times)}$$

Where:

$$\text{Average Inventory} = \frac{\text{Beginning inventory value} + \text{Ending inventory value}}{2}$$

3. Leverage Ratio measures level of debt of a company against selected data from financial statement (Corporate Finance Institute, 2021). Main objective is to review debt portion under company's capital structure while evaluate benefit gain from debt. Common leverage ratio are as following.

3.1 Debt to Asset Ratio describe portion of debt over a company's asset value. Higher ratio means most of the company's asset are funded from debt. Calculation formula is as below:

$$\text{Debt to Asset} = \frac{\text{Liability}}{\text{Total Asset}} \times 100 \text{ (\%)}$$

Where:

Liability could be evaluate by total, short-term, and long-term liability

3.2 Debt to Equity Ratio describe portion of debt over a company's equity value which mainly focus on total and long-term debt. Higher ratio means higher risk to the company due to high debt. It could lead to difficulty of additional loan in the future and interfered management because of some debt conditions. Calculation formula is as below:

$$\text{Debt to Equity} = \frac{\text{Total Liability}}{\text{Total Equity}} \text{ (times)}$$

4. Profitability Ratio measures the efficiency of a company on generating profit over the company's revenue and return value on assets and equities (Investopedia, 2021). Besides evaluating individual performance of the company, the profitability ratios are used to compare with other companies' performance in order to compare benchmark and competitiveness. Samples of profitability ratios are as following.

4.1 Net Profit Margin is a comparison of net profit value to revenue. It evaluates how much net profit a company earns from their revenue generated which also reflect cost and expenses management. It usually to be presented in percentage. Calculation formula is as below:

$$\text{Net Profit Margin} = \frac{\text{Net Profit}}{\text{Revenue}} \times 100 (\%)$$

4.2 Return on Asset is a comparison on net profit over total assets value. It usually used to compare net income after tax in order to evaluate the efficiency of a company on using its assets. Higher ratio implies better performance. Calculation formula is as below:

$$\text{Return on Asset} = \frac{\text{Net Profit}}{\text{Total Asset}} \times 100 (\%)$$

4.3 Return on Equity is a comparison on net profit over total equity value. It commonly used to evaluate the efficiency of a company on using shareholders' equity. Each industry has its benchmark for the good ratio. Calculation formula is as below:

$$\text{Return on Equity} = \frac{\text{Net Profit}}{\text{Total Equity}} \times 100 (\%)$$

2.3 Related Research

There are several studies on relationship between debt and company's profitability as following.

Addae, Nyarko-Baasi & Hughes (2013) studied the relationship between capital structure and profitability of 170 financial statements of 34 listed companies in Ghana during 2005-2009. Using regression analysis, there is a positive relationship between short-term debt and profitability while long-term debt and profitability are negatively related for overall listed companies. However, there are some different relationship at industry sector level. Short-term debt has positive relationship only to profitability of banking & finance, distribution, food & beverage, and pharmaceuticals industries while the rest has insignificant impacts. Long-term debt has negative relationship only to profitability of manufacturing industry while the rest has insignificant impacts. Total debt has negative relationship only to profitability of food & beverage and mining industries and positive relationship to profitability of and pharmaceutical industry while the rest has insignificant impacts. With the result, the trade-off theory was suggested for Ghanaian listed firms.

Kebewar (2014) studied on the effect of debt on non listed companies' profitability in French. They investigated data from 2,240 service sector companies with positive equity during 1999-2006 by using generalized method of moments (GMM). They concluded that debt has no impact the companies' profitability which is same as firm size factor.

Raisa & Cristian (2015) studied on impact of debt on corporate profitability which using data from 50 companies in Bucharest Stock Exchange during 2003-2014. In this study, return on asset ratio is presented as the companies' profitability while

considering short-term and long-term debt to total liabilities ratio as debt. Company size, growth opportunities, tangible assets to total asset ratio, and liquidity ratio are included as control variable in the test model. Researchers select fixed effect model based on applying Hausman-Test and Wald test. They found that both short-term and long-term debt negatively affect the companies' profitability and used agency cost theory to describe the result.

Habib, Khan, & Wazir (2016) studied the impact of debt on profitability of 340 non-financial sectors firms in Pakistan during 2003-2012. Return on asset, return on equity, earnings per share, and gross profit margin are used to represent the firms' profitability while short-term debt to total assets, long-term debt to total assets, and total debt to total assets stand for debt. In addition, firm size, sale growth, asset growth, and tax are included as control variable in the model. By using regression analysis, they found return on assets are negatively impacted by short-term debt, long-term debt, and total debt. Pecking order theory is referred and suggest the companies to use their internal fund as the first priority.

Muscettola & Naccarato (2016) studied the relationship between debt and profitability of Italian SME companies by using data from 7,370 companies in commercial sectors during 2006-2010. They founded negative relationship between debt and company profitability from using simple moving average. They also split the data into 10 provincial classes which are categorized by bank credit per GDP. Regression analysis result based on provincial classes, they found strong relationship between debt and company profitability in the area with higher supply of bank credit while result for area with lower supply of bank credit are weaker.

Ikapel & Kajirwa (2017) studied a relationship between long-term debt and financial performance of state owned sugar firms in Kenya. The study uses data from four state owned sugar firms during 2004-2014. The result was fail in statistically significant but significantly on linear regression analysis that there is a negative relationship between debt and the firms' profitability.

Azia & Abbas (2019) studied on effect of debt to non-financial sector firms in Pakistan by using regression analysis to run sample data of 360 companies in 14 sectors of non-financial sector in Pakistan Stock Exchange during 2006-2014. Negative impact from debt financing is found on the companies performance. They recommended the companies to use internal source of funds in order to avoid negative impacts. In this study, firm size is included and it results positive impact to the companies' performance since the size factor could provide benefit on economies of scale.

Darapho & Tongkong (2019) studied on impact of capital structure on listed companies' profitability in energy and utilities on the Stock Exchange of Thailand. They used 198 samples from 42 companies during 2014-2018. In this study, debts was represented by total debt to total asset and long-term debt to total asset while profitability was from return on asset and return on equity. From regression analysis, debts has negative impact to the companies' profitability which is measured by return on asset while there is no impact on return on equity. Hence, they suggest to follow Pecking Order theory which utilizing internal fund as the first priority due to cost concern.

Jones & Edwin (2019) studied on the relationship between debt and corporate performance of 15 consumer goods companies in the Nigerian Stock Exchange during 2006-2017). The result from regression analysis shows that total debt to asset ratio,

short-term debt to asset ratio, and long-term debt to asset ratio has a positive relationship with return on asset which imply debt has positively impact to the companies' performance.

Mamaro & Legotlo (2020) studied the impact of debt on performance of 26 retail firms listed on the Johannesburg Stock Exchange. Fixed effect model is used in the regression analysis. The study found that size and long-term debt to asset negatively affect the firms' performance whilst the lagged return on equity, total debt to asset, and growth in sales have positive impact. This result are in accordance with trade-off theory.

Ngo, Tram & Vu (2020) studied on impact of debt on companies' profitability in Vietnam during 2009-2017. They used sample data from non-financial listed company in Vietnamese Stock Exchange but excluded public enterprises and companies with negative equity. Total debt ratio represented as measure on debt while return of earnings before interest and tax on total assets represented companies' profitability. Firm size, tangible assets, growth rate, and taxes are included in the equation. By using generalized method of moments, they found a negative influence of debt on profitability.

Somathilake (2020) studied an effect of debt on 29 manufacturing listed companies' profitability in Colombo Stock Exchange in Sri Lanka during 2015-2019. By using regression analysis, they found significant impact from long-term debt to the companies' profitability in negative direction whilst short-term and total debt have insignificant impacts. The companies' profitability in this study mean return on asset and return on equity.

According to the literature review, the relationship between profitability and debt can be summarized in Table 2.3.

Table 2.3: Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|--|--|---|
| 1 | Addae, A.A., Nyarko-Baasi, M. & Hughes, D. (2013). The Effect of Capital Structure on Profitability of Listed Firms in Ghana. European Journal of Business and Management, 5(31), 215-229. | Return on equity (ROE) | (1) Short-term debt-total assets ratio, (2) Long-term debt-total assets ratio, and (3) Total debt-total assets ratio | Short-term debt-total assets ratio positively affects ROE whilst long-term debt-total assets ratio and total debt-total assets ratio negatively affect ROE. |
| 2 | Kebewar, M. (2014). The effect of debt on corporate profitability Evidence from French service sector. ReseachGate | (1) Net income from operations-total assets, (2) Earnings before interest and tax-total assets, and (3) return on assets (ROA) | Total debt-total assets ratio | Total debt-total assets ratio has no impact to net income from operations-total assets, earnings before interest and tax-total assets, and ROA. |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|----------------------------|--|---|
| 3 | Raisa, M.L. & Cristian, M.M. (2015). Does Short Term Debt Affect Profitability? Evidence from the Romanian Listed Companies. Annals of the „Constantin Brancusi” University of Targu Jiu, Economy Series, Special Issue ECO-TREND 2015 – Performance, Competitiveness, Creativity, 228-233 | Return on assets (ROA) | (1) Short-term debt-total liabilities ratio and (2) Long-term debt-total liabilities ratio | Both short-term debt-total liabilities ratio and long-term debt-total liabilities ratios have negative impact to ROA. |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|----------------------------|--|---|
| 4 | Habib, H.J., Khan, F. & Wazir, M.I. (2016). Impact of Debt on Profitability of Firms; Evidence from Non-Financial Sector of Pakistan. City University Research Journal, 6(1), 70-80. | Return on assets (ROA) | (1) Total debt-total assets ratio, (2) Short-term debt-total assets ratio and (3) Long-term debt-total assets ratio. | ROA is negatively impacted by total debt-total assets ratio, short-term debt-total assets ratio and long-term debt-total assets ratio |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|---|---|--|--|
| 5 | Muscettola, M. & Naccarato, F. (2016). The Casual Relationship Between Debt and Profitability: The Case of Italy. Athens Journal of Business and Economics, 2(1), 17-32 | (1) Return on equity (ROE), (2) Return on sales, (3) Operating profit on total debt, (4) EBITDA on investment, (5) Return on investment, and (6) Return on assets (ROA) | (1) Financial debts on total assets, (2) Total debt-total assets ratio, and (3) Total debt on equity | Return on sales, operating profit on total debt, EBITDA on investment, return on investment, and ROA are negatively impacted by financial debts on total assets, total debt-total assets ratio, and total debt on equity while ROE is negatively impacted only |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|---|----------------------------|-----------------------------------|---|
| | | | | by financial debts on total assets while total debt-total assets ratio and total debt on equity has undefined relationship. |
| 6 | Ikapel, O.F. & Kajirwa, I.H. (2017). Analysis of long term debt and financial performance of state owned sugar firms in Kenya. International Journal of Commerce and Management Research, 3(2), 108-111 | Return on assets (ROA) | Long-term debt-total assets ratio | Long-term debt-total assets ratio has negative impact with return on assets. |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|---|---|--|
| 7 | Aziz, S. & Abbas, U. (2019). Effect of Debt Financing on Firm Performance: A Study on Non-Financial Sector of Pakistan. Open Journal of Economics and Commerce, 2(1), 8-15 | (1) Return on assets (ROA), (2) Return on equity (ROE), (3) Earnings per share, and (4) Gross profit margin | (1) Short-term debt-total assets, (2) Long-term debt- total assets, and (3) Total debt-total assets | Short-term debt-total assets positively affects to ROA and ROE. Long-term debt-total assets positively affects ROE. Total debt-total assets has positive impact to gross profit margin while the rest has negative impact. |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|---|---|--|
| 8 | Darapho, T. & Tongkong, S. (2019). Impact of Capital Structure on Firm Profitability of Listed Companies in Energy and Utilities Sector on the Stock Exchange of Thailand. Chandrakasem Rajabhat University Journal of Graduate School, 15(2), 109-122 | (1) Return on assets (ROA) and (2) Return on equity (ROE) | (1) Total debt-total assets and (2) Long-term debt-total assets | Total debt-total assets and long-term debt-total assets negatively affect ROA while there is no impact on ROE. |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|----------------------------|--|--|
| 9 | <p>Jones, A.S. & Edwin O.A. (2019). Effect of Debt Financing on the Corporate Performance: A Study of Listed Consumer Goods firms in Nigeria. International Journal of Academic Accounting, Finance & Management Research (IJAAFMR), 3(5), 26-34</p> | Return on assets (ROA) | (1) Total debt-assets ratio, (2) Short-term debt-assets ratio and (3) Long-term debt-asset ratio | ROA is positive and significantly impacted from total debt-assets ratio, short-term debt- assets ratio, and long-term debt-assets ratio. |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|----------------------------|---|---|
| 10 | Mamaro, L. & Legotlo, T. (2020). The Impact of Debt Financing on Financial Performance: Evidence from Retail Firms Listed on the JSE. Journal of Accounting and Management, 10(3), 23-33 | Return on equity (ROE) | (1) Lagged return on equity, (2) Long-term debt-total assets, and (3) Total debt-total assets | Lagged return on equity and total debt-total assets positively influence ROE while long-term debt-total assets ratio negatively affect the ROE. |

(Continued)

Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|---|--|-------------------------------|--|
| 11 | Ngo, V.T., Tram, T.X. & Vu, B.T. (2020). The Impact of Debt on Corporate Profitability: Evidence from Vietnam. Journal of Asian Finance, Economics and Business, 7(11), 835-842 | Return of earnings before interest and tax on total assets | Total debt-total assets ratio | Total debt-total assets ratio negatively affects return of earnings before interest and tax on total assets. |

(Continued)

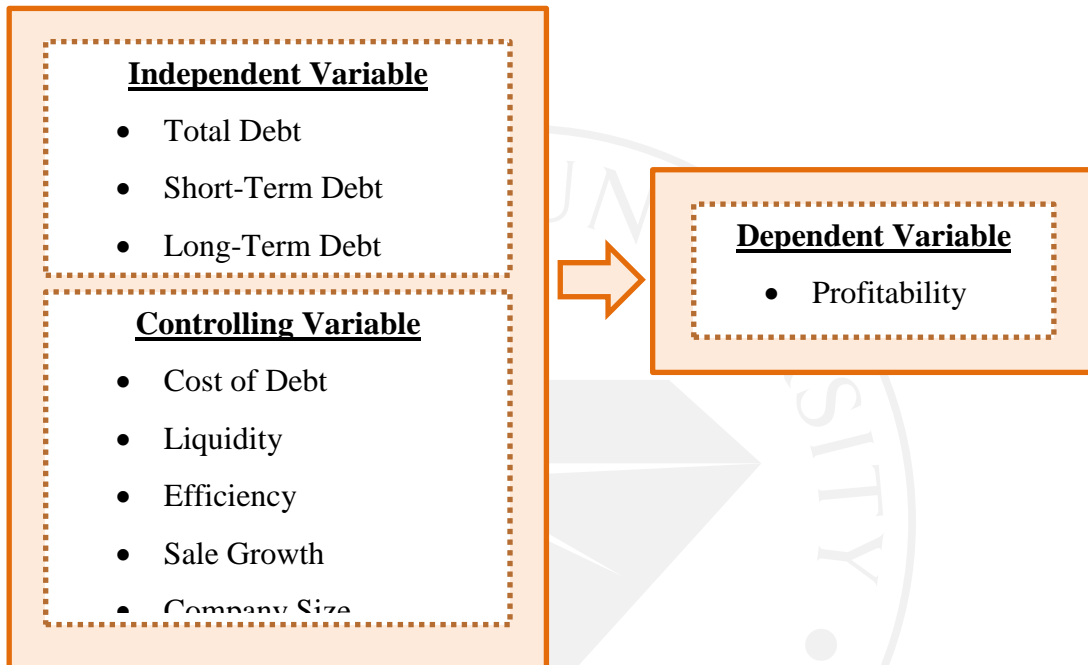
Table 2.3 (Continued): Summary of Relationship between Profitability and Debt

| No. | Research Paper | Indicator of Profitability | Indicator of Debt | Relationship |
|-----|--|--|--|--|
| 12 | Somathilake, H. (2020). The Effect of Debt Financing on Corporate Profitability: Special Reference to Manufacturing Companies Listed in Colombo Stock Exchange. International Research Journal of Modernization in Engineering Technology and Science, 2(5), 160-166 | (1) Return on equity (ROE) and (2) Return on Asset (ROA) | (1) Short-term debt-total assets, (2) Long-term debt-total assets, and (3) Total debt-total assets | Long-term debt-total assets has negative impact on ROE and ROA while short-term debt-total assets and total debt-total assets have no impacts. |

2.4 Conceptual Framework

In accordance with the literature review, the conceptual framework of this study can be illustrated by Figure 2.1 as the following.

Figure 2.1: Conceptual Framework



Based on Figure 2.1,

Dependent variable in this study is profitability as measured by net profit margin. It can be calculated by the following formula.

$$\text{Net profit margin} = \frac{\text{Net Profit}}{\text{Total Revenue}} \times 100 (\%)$$

Independent variables include;

1. **Total Debt** which is measured by a ratio of total liabilities to total assets. It can be calculated by the following formula.

$$\text{Ratio of total liabilities to total assets} = \frac{\text{Total Liabilities}}{\text{Total Assets}} \times 100 (\%)$$

2. Short-Term Debt which is measured by a ratio of current liabilities to total assets. It can be calculated by the following formula.

$$\text{Ratio of current liabilities to total assets} = \frac{\text{Current Liabilities}}{\text{Total Assets}} \times 100 (\%)$$

3. Long-Term Debt which is measured by a ratio of non-current liabilities to total assets. It can be calculated by the following formula.

$$\text{Ratio of non-current liabilities to total assets} = \frac{\text{Non-current Liabilities}}{\text{Total Assets}} \times 100 (\%)$$

Controlling variables include;

1. Cost of Debt which is measured by a ratio of interest expense to total liabilities. It can be calculated by the following formula.

$$\text{Ratio of interest expense to total liabilities} = \frac{\text{Interest Expenses}}{\text{Total Liabilities}} \times 100 (\%)$$

2. Liquidity which is measured by current ratio. It can be calculated by the following formula.

$$\text{Current ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}} \text{ (times)}$$

3. Efficiency which is measured by total assets turnover. It can be calculated by the following formula.

$$\text{Total assets turnover} = \frac{\text{Total Revenue}}{(\text{Beginning Total Assets} + \text{Ending Total Assets}) \div 2} \text{ (times)}$$

4. Sale Growth which is measured by annual growth rate of sale revenue. It can be calculated by the following formula.

$$\text{Annual growth rate of sale revenue} = \frac{\text{Current Year Revenue} - \text{Previous Year Revenue}}{\text{Previous Year Revenue}} \times 100 (\%)$$

5. Company Size which is measured by total assets in natural logarithm. It can be calculated by the following formula.

$$\text{Total assets in natural logarithm} = \text{Ln}(\text{Total assets})$$



CHAPTER 3

RESEARCH METHODOLOGY

The study of debt impact on listed hotel companies' profitability in the Stock Exchange of Thailand contains methodology as follow.

3.1 List of Hotel Companies

There are 13 companies in tourism & leisure sector in the Stock Exchange of Thailand (SET) as of 2021. Focusing only on hotel business and based on data availability, nine listed hotel companies are selected during the period 2000 – 2020. The selected hotel companies are listed in Table 3.1 as the following.

Table 3.1: List of Hotel Company Listed in The Stock Exchange of Thailand

| No. | Hotel Company | Symbol |
|-----|---|--------|
| 1 | Asia Hotel Public Company Limited | ASIA |
| 2 | Central Plaza Hotel Public Company Limited | CENTEL |
| 3 | Dusit Thani Public Company Limited | DTC |
| 4 | The Erawan Group Public Company Limited | ERW |
| 5 | Grande Asset Hotels and Property Public Company Limited | GRAND |
| 6 | Laguna Resorts & Hotels Public Company Limited | LRH |
| 7 | OHTL Public Company Limited | OHTL |
| 8 | Royal Orchid Hotel (Thailand) Public Company Limited | ROH |
| 9 | Shangri-La Hotel Public Company Limited | SHANG |

3.2 Sources of Data

This study relies on financial data in annual format of each hotel company presented in the statement of financial position and the statement of comprehensive income during 2000 – 2020. Note that financial data of Grande Asset Hotels and Property Public Company Limited (GRAND) are available only from 2003 to 2020. All data are obtained from the website of The Securities and Exchange Commission of Thailand. Totally, dataset of 177 company-years is utilized in this study. The summary of financial data utilized in this study and their sources can be presented in Table 3.2.

Table 3.2: Source of Data

| No. | Data | Unit | Sources |
|-----|-------------------------|------|-----------------------------------|
| 1 | Current assets | THB | Statement of financial position |
| 2 | Total assets | THB | Statement of financial position |
| 3 | Current liabilities | THB | Statement of financial position |
| 4 | Total liabilities | THB | Statement of financial position |
| 5 | Non-current liabilities | THB | Statement of financial position |
| 6 | Owner's equities | THB | Statement of financial position |
| 7 | Sales | THB | Statement of comprehensive income |
| 8 | Total revenue | THB | Statement of comprehensive income |
| 9 | Interest expense | THB | Statement of comprehensive income |
| 10 | Net profit | THB | Statement of comprehensive income |

Financial data in Table 3.2 will be employed to calculate the relevant financial ratios, including dependent, independent, and controlling variables in this study. They include;

- Net profit margin
- Ratio of total liabilities to total assets
- Ratio of short-term liabilities to total assets
- Ratio of long-term liabilities to total assets
- Ratio of interest expense to total liabilities
- Current ratio
- Total assets turnover
- Annual growth rate of sale revenue
- Total assets in natural logarithm

The calculation formulas of each variable are described earlier in the conceptual framework section.

3.3 Analytical Method

The analytical method in this study can be divided into four sections as the following.

3.3.1. Descriptive statistics is employed to analyzed import financial data from the statement of financial position and the statement of comprehensive income of nine hotel companies during 2000 – 2020. Such financial data include current assets, total assets, current liabilities, total liabilities, owner's equities, sales revenues, total revenue, interest expense and net profit. Mean values of these financial data of each hotel company will be calculated and presented to shed more light on these hotel companies' financial position and performance as well as their differences.

3.3.2. Profitability ratio which is net profit margin and three debt ratios including short-term debt to total assets ratio, long-term debt to total assets ratio, and

total debt to total assets ratio are calculated. Thereafter, descriptive statistics including mean values and trend lines will be analyzed in order to present the situation regarding profitability and debt of hotel companies listed in the Stock Exchange of Thailand.

3.3.3. The other financial ratios and variables are calculated. They include interest expense to total liabilities ratio, current ratio, total assets turnover and annual growth rate of sale revenue. Thereafter, mean values of these ratios and variables of each hotel company will be calculated and presented.

3.3.4. The analysis the impact of debt on hotel listed companies in the Stock Exchange of Thailand are performed by employing multiple regression analysis with dummy variables. There are two equations to be analyzed as the following.

Equation 1: Analysis of the impact of total debt on profitability

$$\begin{aligned} \text{NMP} = & \beta_0 + \beta_1 \text{TDB} + \beta_2 \text{CDB} + \beta_3 \text{CR} + \beta_4 \text{TAT} + \beta_5 \text{SG} + \beta_6 \text{LTA} + \alpha_1 \text{H}_1 + \alpha_2 \text{H}_2 \\ & + \alpha_3 \text{H}_3 \\ & + \alpha_4 \text{H}_4 + \alpha_5 \text{H}_5 + \alpha_6 \text{H}_6 + \alpha_7 \text{H}_7 + \alpha_8 \text{H}_8 + \delta \text{T} + \mu \end{aligned}$$

Equation 2: Analysis of the impact of short-term and long-term debt on profitability

$$\begin{aligned} \text{NMP} = & \beta_0 + \beta_1 \text{SDB} + \beta_2 \text{LDB} + \beta_3 \text{CDB} + \beta_4 \text{CR} + \beta_5 \text{TAT} + \beta_6 \text{SG} + \beta_7 \text{LTA} + \alpha_1 \text{H}_1 \\ & + \alpha_2 \text{H}_2 \\ & + \alpha_3 \text{H}_3 + \alpha_4 \text{H}_4 + \alpha_5 \text{H}_5 + \alpha_6 \text{H}_6 + \alpha_7 \text{H}_7 + \alpha_8 \text{H}_8 + \delta \text{T} + \mu \end{aligned}$$

Where

NMP = Profitability as measured by net profit margin (%)

TDB = Total debt as measured by ratio of total liabilities to total assets (%)

SDB = Short-term debt as measured by ratio of short-term liabilities to total assets (%)

LDB = Long-term debt as measured by ratio of long-term liabilities to total assets (%)

CDB = Cost of debt as measured by ratio of interest expense to total liabilities (%)

CR = Liquidity as measured by current ratio (times)

TAT = Efficiency as measured by total assets turnover (times)

SG = Sale growth as measured by annual growth rate of sale revenue (%)

LTA = Companies size as measured by total assets in natural logarithm

$H_1 = 1$ if Central Plaza Hotel; 0 otherwise

$H_2 = 1$ if Dusit Thani; 0 otherwise

$H_3 = 1$ if The Erawan Group; 0 otherwise

$H_4 = 1$ if Grande Asset Hotels and Property; 0 otherwise

$H_5 = 1$ if Laguna Resorts & Hotels; 0 otherwise

$H_6 = 1$ if OHTL; 0 otherwise

$H_7 = 1$ if Royal Orchid Hotel (Thailand); 0 otherwise

$H_8 = 1$ if Shangri-La Hotel; 0 otherwise

Given that base group is Asia Hotel.

T = Time trend where T = 1 in 2001, 2 in 2002, 3 in 2003 and so on.

β, α, δ = Regression coefficients

μ = Residual term

The multiple regression analysis is composed of four steps as the following.

1. Firstly, multi-collinearity problem will be investigated by employing the coefficients of correlation among explanatory variables, including independent variable and controlling variables. If the coefficient of correlation between any pair of variables is either greater than 0.7 or lower than -0.7, it means that there is a strong linear relationship between these two variables, indicating multi-collinearity problem. On the other hand, if the coefficients of correlation are between -0.7 and 0.7, it means there is

no strong relationship between explanatory variables, indicating no multi-collinearity problem.

2. In the second step, the overall significance of the regression equation will be investigated by employing F-statistics of overall significance and P-value. The regression equation is considered statistically significant if P-value is lower than significance level, implying that dependent variable is significantly related to at least one explanatory variable in the equation.

3. In the third step, the coefficient of determination (or R-square) will be examined to indicate the variation in dependent variable which can be explained by the regression equation. The greater the R-square is, the better the regression equation is.

4. Finally, the impact of debt on profitability of hotel companies will be investigated. In doing so, the statistical significance of debt, short-term debt and long-term debt, as well as other controlling variables, will be investigated by employing t-statistics and P-value. If the P-value is lower than significance level, these variables will statistically significant, implying significant impact on profitability.

3.4 Research Assumptions

Research assumptions in this study are as the following.

1. Total debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.

2. Short-term debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.

3. Long-term debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.

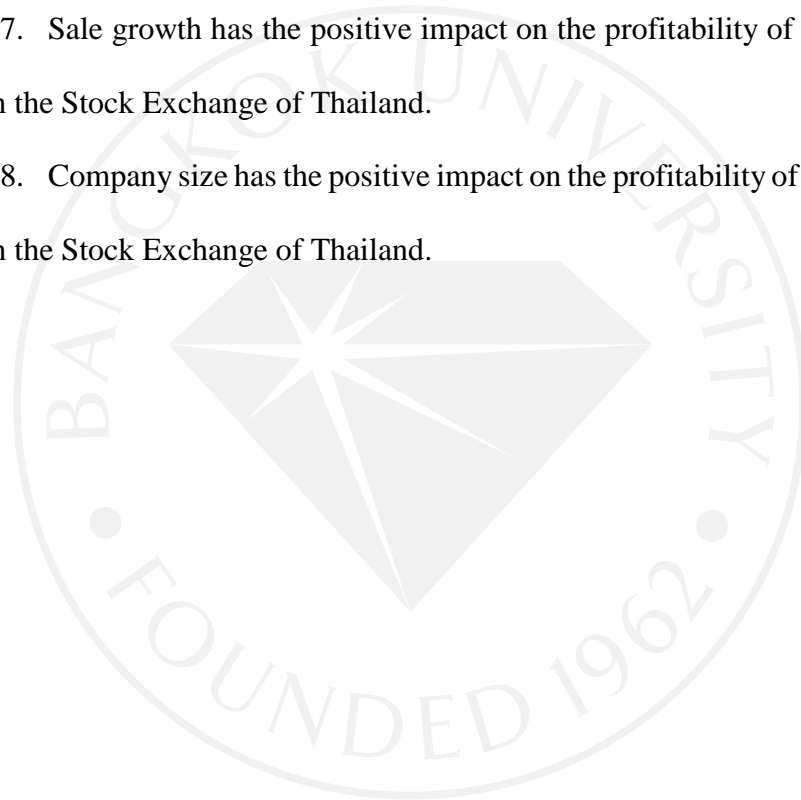
4. Cost of debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.

5. Liquidity has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.

6. Efficiency has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.

7. Sale growth has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.

8. Company size has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand.



CHAPTER 4

EMPIRICAL RESULTS

Results from the study on the impact of debt on profitability of listed hotel companies in the Stock Exchange of Thailand can be explained as the following.

4.1 Descriptive Statistics of Hotel Companies

Financial status of the listed hotel companies in the Stock Exchange of Thailand is explained by applying descriptive statistics analysis on their financial data during 2001-2020 as the following.

Table 4.1: Average Value of Selected Items in the Statement of Financial Position during 2001-2020 (Unit: Million Baht)

| Company | Current Assets | Total Assets | Current Liabilities | Total Liabilities | Owner's Equities |
|---------|-----------------|------------------|---------------------|-------------------|------------------|
| ASIA | 222.94 | 6,857.25 | 536.35 | 3,680.17 | 3,177.09 |
| CENTEL | 1,955.68 | 19,093.59 | 4,420.88 | 11,465.17 | 7,628.42 |
| DTC | 1,700.02 | 8,241.46 | 1,670.15 | 3,725.34 | 4,516.12 |
| ERW | 986.05 | 12,798.40 | 2,250.27 | 8,685.30 | 4,113.10 |
| GRAND | 2,518.57 | 8,326.76 | 2,377.70 | 5,862.25 | 2,218.07 |
| LRH | 4,006.80 | 18,018.08 | 2,588.84 | 5,960.36 | 12,057.72 |
| OHTL | 354.60 | 2,564.25 | 677.51 | 1,466.39 | 1,097.86 |
| ROH | 419.24 | 1,350.97 | 238.21 | 287.30 | 1,063.67 |
| SHANG | 1,902.36 | 6,838.03 | 596.81 | 696.08 | 6,141.95 |

Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, 2021)

According to the descriptive statistics presented in Table 4.1, Laguna Resorts & Hotels (LRH) has the greatest current assets and owner's equities with the average value of 4,006.80 and 12,057.72 million Baht, respectively. Central Plaza Hotel (CENTEL) has the greatest total assets, current liabilities, and total liabilities with the average value of 19,093.59, 4,420.88, and 11,465.17 million Baht, respectively. Asia Hotel (ASIA) has the lowest current assets with the average value of 222.94 million Baht. Royal Orchid Hotel (Thailand) (ROH) has the lowest total assets, current liabilities, total liabilities, and owner's equities with the average value of 1,350.97, 238.21, 287.30, and 1,063.67 million Baht, respectively. Note that this analysis is based on the average financial position data during 2001-2020.

Table 4.2: Average Value of Selected Items in the Statement of Comprehensive Income during 2001-2020 (Unit: Million Baht)

| Company | Sale Revenue | Total Revenue | Interest Expense | Net Profit |
|---------|------------------|------------------|------------------|---------------|
| ASIA | 1,044.49 | 1,188.81 | 139.84 | 110.07 |
| CENTEL | 11,714.82 | 12,208.76 | 245.29 | 753.18 |
| DTC | 3,463.99 | 3,850.74 | 82.30 | 170.43 |

(Continued)

Table 4.2 (Continued): Average Value of Selected Items in the Statement of Comprehensive Income during 2001-2020 (Unit: Million Baht)

| Company | Sale Revenue | Total Revenue | Interest Expense | Net Profit |
|---------|---------------|---------------|------------------|---------------|
| ERW | 3,943.12 | 4,083.07 | 315.11 | 177.11 |
| GRAND | 1,638.42 | 1,549.37 | 221.96 | -50.22 |
| LRH | 4,406.85 | 4,659.65 | 149.67 | 383.78 |
| OHTL | 1,943.92 | 1,958.15 | 30.06 | 191.84 |
| ROH | 858.70 | 864.74 | 3.53 | 69.66 |
| SHANG | 1,827.48 | 1,921.17 | 6.43 | 382.43 |

Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, Thailand, 2021)

Based on the descriptive statistics presented in Table 4.2, Central Plaza Hotel (CENTEL) has the greatest sale revenue, total revenue, and net profit with the average value of 11,714.82, 12,208.76, and 753.18 million Baht, respectively. The Erawan Group (ERW) has the highest interest expense with the average value of 315.11 million Baht. Royal Orchid Hotel (Thailand) (ROH) has the lowest sale revenue, total revenue, and interest expense with the average value of 858.70, 864.7, and 3.53 million Baht, respectively. Grande Asset Hotels and Property (GRAND) is the only company with

negative net profit with the average value of -50.22 million Baht. Note that this analysis is based on average comprehensive income data during 2001-2020.

4.2 Profitability and Debt of Hotel Companies

In this study, net profit margin represents profitability while debt is represented by debt-total assets ratio, short-term debt-total assets ratio, and long-term debt-total assets ratio. Profitability and debt of hotel companies in this study can be analyzed based on their average value and trend line as the following.

Table 4.3: Average Net Profit Margin and Leverage Ratios during 2001-2020 (Unit: %)

| Company | Net Profit Margin | Debt-Total Assets Ratio | Short Term Debt-Total Assets Ratio | Long Term Debt-Total Assets Ratio |
|---------|-------------------|-------------------------|------------------------------------|-----------------------------------|
| ASIA | 1.72 | 62.82 | 9.49 | 53.33 |
| CENTEL | 5.52 | 58.38 | 23.20 | 35.17 |
| DTC | 4.91 | 38.69 | 19.46 | 19.23 |
| ERW | 2.12 | 66.90 | 17.55 | 49.35 |
| GRAND | -9.20 | 69.69 | 28.57 | 41.12 |
| LRH | 6.73 | 32.10 | 14.37 | 17.73 |
| OHTL | 7.23 | 55.81 | 27.24 | 28.57 |
| ROH | 2.45 | 21.33 | 17.49 | 3.84 |
| SHANG | 12.34 | 10.64 | 9.15 | 1.49 |

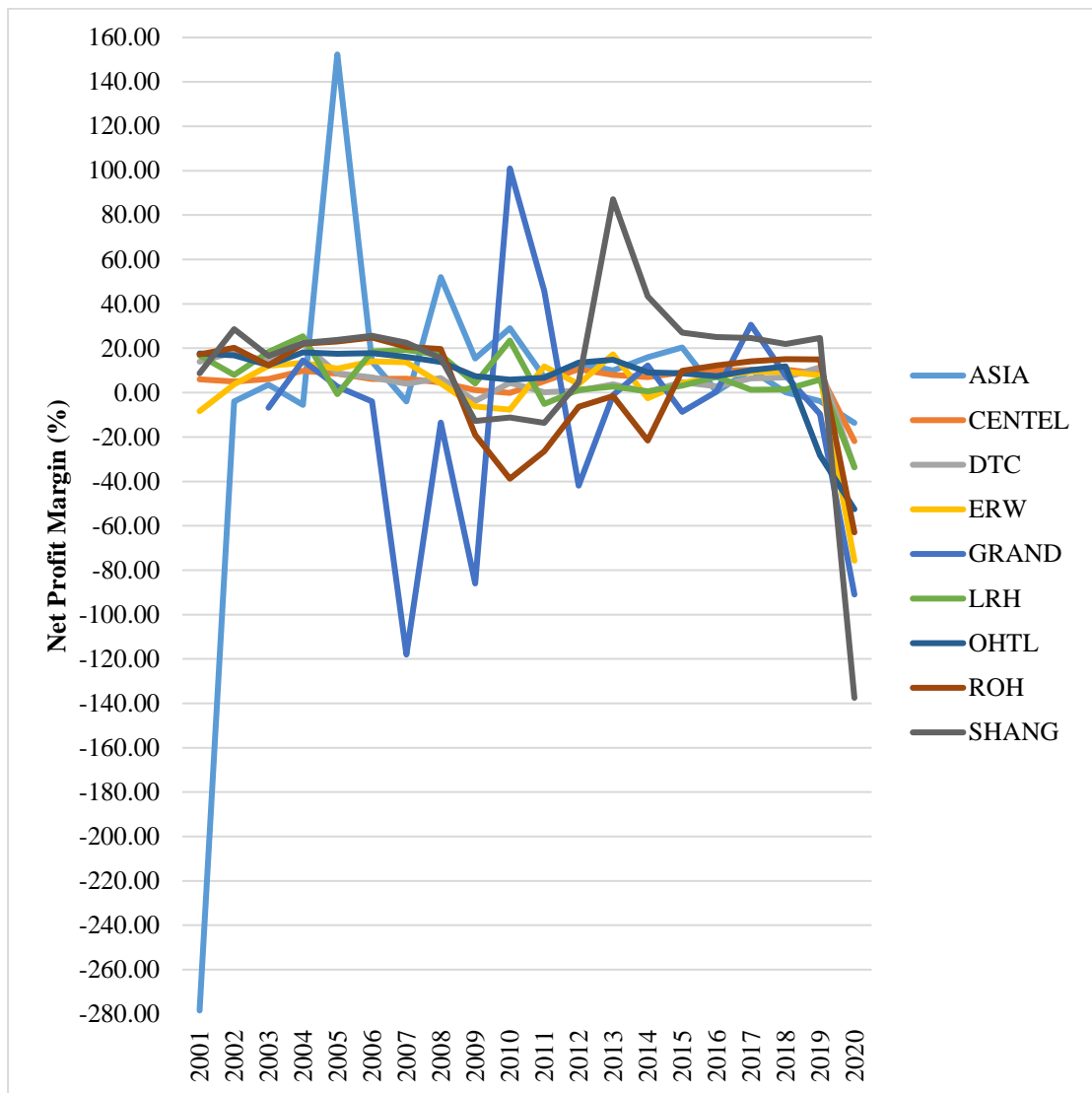
Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani,

ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH =

Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, 2021)

According to descriptive statistics presented in Table 4.3, Shangri-La Hotel (SHANG) has the highest net profit margin whilst it has the lowest debt-total assets ratio, short-term debt-total assets ratio, and long-term debt-total assets ratio with the average value of 12.34%, 10.64%, 9.15%, and 1.49%, respectively. Grande Asset Hotels and Property (GRAND) has the lowest net profit margin whilst its debt-total assets ratio and short-term debt-total assets ratio are the highest with the average value of -9.20%, 69.69%, and 28.57%, respectively. Asia Hotel (ASIA) has the highest long-term debt-assets ratio with the value of 53.33%. These results imply that debt-total assets ratio and short-term debt-total assets ratio have negative impact to net profit margin. That is, the higher debt-total assets ratio and short-term debt-total assets ratio lead to the lower net profit margin. In addition, long-term debt-total assets ratio also has negative impact to net profit margin due to data of ASIA in Table 4.3. ASIA has the highest long-term debt-total assets ratio, while its debt-total assets ratio and short-term debt-total assets ratio are also very high ranked in the second highest among the other hotels with the average value of 62.82% and 9.49%, respectively. Asia has the second lowest net profit margin with the average value of 1.72%.

Figure 4.1: Net Profit Margin of Hotel Companies during 2001-2020

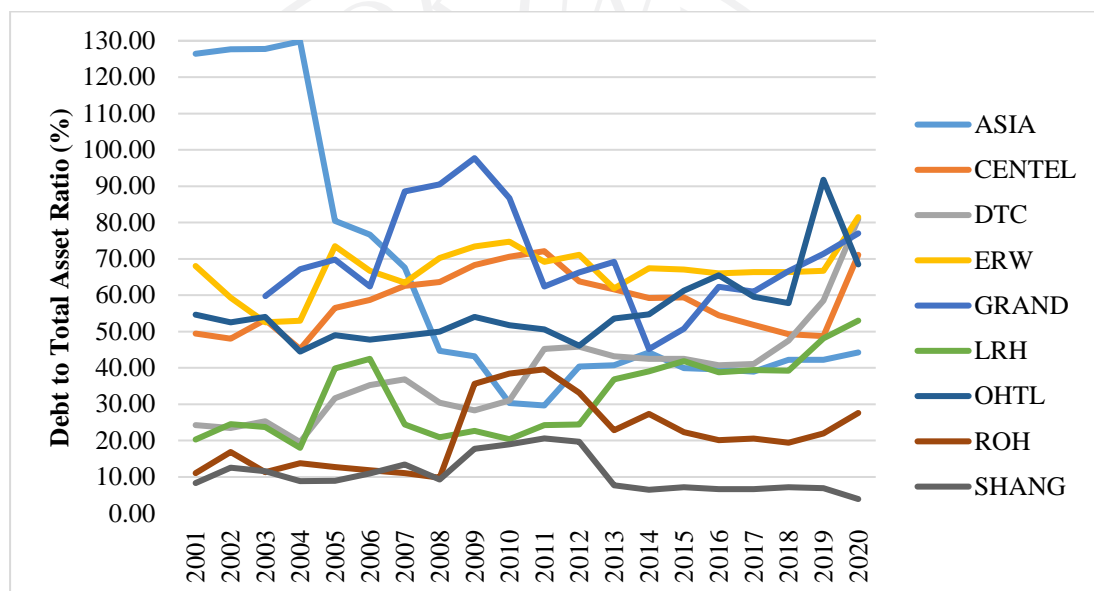


Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, 2021)

Based on Figure 4.1, Asia Hotel (ASIA) not only has the lowest net profit margin among the others during 2001-2020 with the value of -278.40% (in 2001) but

also has the highest net profit margin with the value of 152.40% (in 2005). Furthermore, all hotels have the positive net profit margin during 2016-2018 but all of them have the negative net profit margin in 2020, mainly impacted from Covid-19 pandemic. Except the loss in 2020, Central Plaza Hotel (CENTEL), Dusit Thani (DTC), and OHTL experienced the negative net profit margin only once with the value of -0.10% in 2010, -3.76% in 2009, and 28.30% in 2019, respectively.

Figure 4.2: Debt-Total Assets Ratio of Hotel Companies during 2001-2020

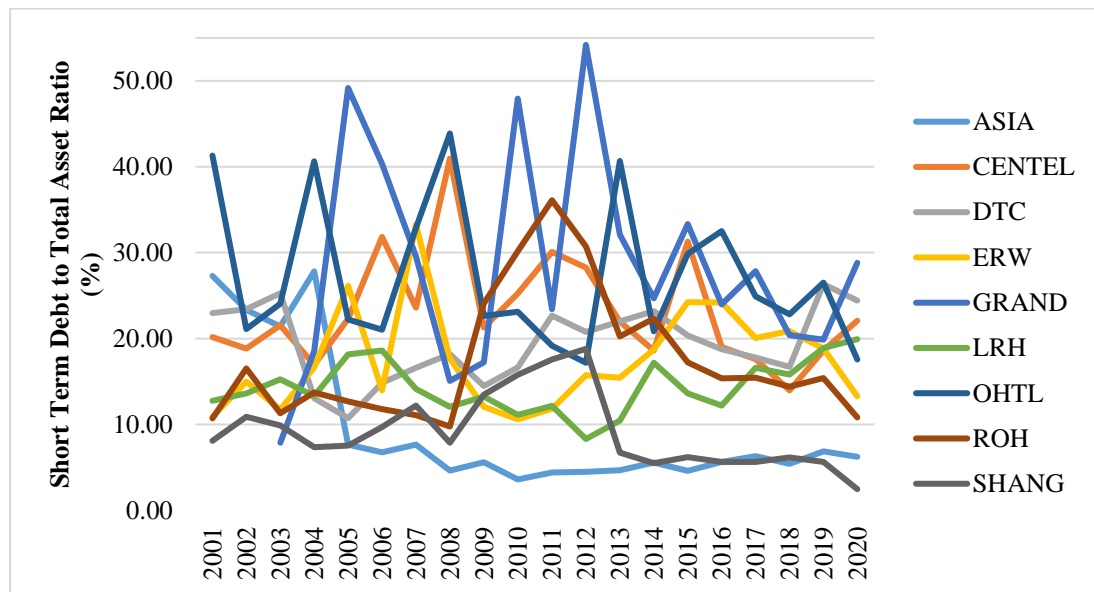


Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, 2021)

Base on Figure 4.2, all hotels have the positive debt-total assets ratio, implying that all of them have debt in their capital structure during 2001-2020. Asia Hotel (ASIA) has the highest debt-total assets ratio among the others during 2001-2020 with the value

of 129.38% (in 2004) whilst Shangri-La Hotel (SHANG) has the lowest debt-total assets ratio with the value of 3.88% in 2020.

Figure 4.3: Short Term Debt-Total Assets Ratio of Hotel Companies during 2001-2020

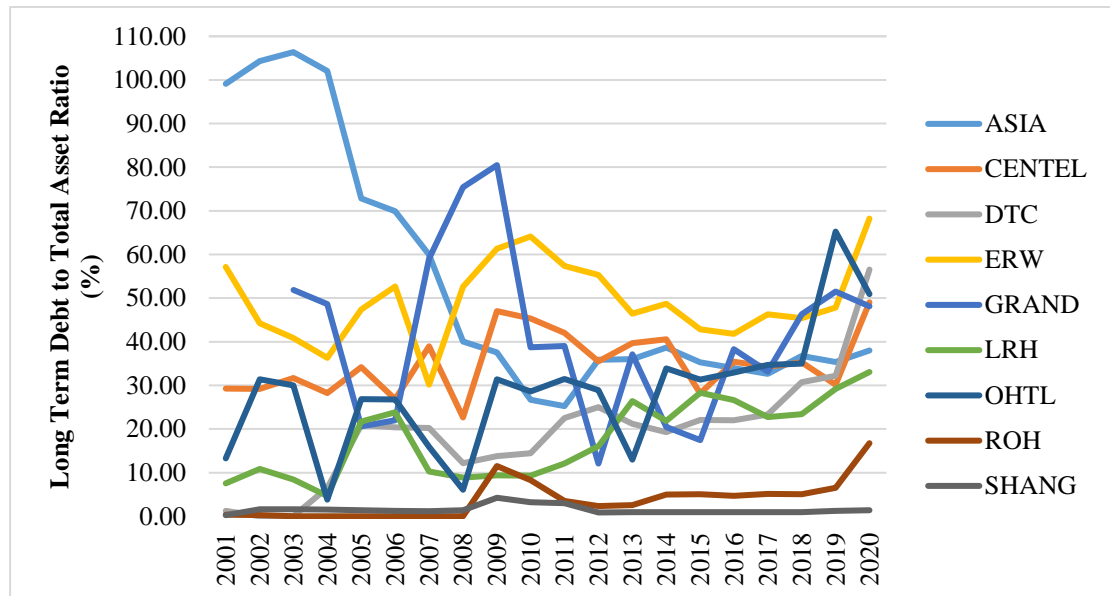


Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, 2021)

Base on Figure 4.3, all hotels have the positive short-term debt-total assets ratio, indicating that all of them have short-term debt in their capital structure in 2001-2020. This situation is considered common because most of short-term debt occurs from operation. Grande Asset Hotels and Property (GRAND) has the highest short-term debt-total assets ratio among the others during 2001-2020 with the value of 54.19% (in

2012) whilst Shangri-La Hotel (SHANG) has the lowest short-term debt-total assets ratio with the value of 2.46% in 2020.

Figure 4.4: Long Term Debt-Total Assets Ratio of Hotel Companies during 2001-2020



Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, 2021)

Base on Figure 4.4, Dusit Thani (DTC) and Royal Orchid Hotel (Thailand) (ROH) are the only two hotels which have zero long-term debt-total assets ratio in a certain year during 2001-2020. That is, these two hotels have no long-term debt in their capital structure during 2002-2003 and 2003-2008, respectively. Asia Hotel (ASIA) has the greatest long-term debt-total assets ratio among the others during 2001-2020 with the value of 106.38% (in 2003). Beside zero long-term debt, Shangri-La Hotel

(SHANG) has the lowest long-term debt-total assets ratio among the others during 2001-2020 with the value of 0.25% (in 2001).

4.3 Important Financial Ratios of Hotel Companies

Beside profitability and leverage ratios, this study also focuses on other important financial ratios and performance indicators of hotel companies listed in the Stock Exchange of Thailand. They include cost of debt, current ratio, total asset turnover, and sale growth rate. Table 4.4 below presents the average values of these ratios and indicators of nine hotel companies during 2001 – 2020.

Table 4.4: Average Value of Selected Variables during 2001-2020

| Company | Cost of Debt (%) | Current Ratio (times) | Total Assets Turnover (times) | Sale Growth Rate (%) |
|---------|------------------|-----------------------|-------------------------------|----------------------|
| ASIA | 3.83 | 0.54 | 0.19 | 4.49 |
| CENTEL | 2.01 | 0.47 | 0.70 | 8.09 |
| DTC | 3.01 | 1.11 | 0.52 | 1.29 |
| ERW | 3.66 | 0.46 | 0.33 | 2.07 |
| GRAND | 3.75 | 1.13 | 0.22 | 37.12 |
| LRH | 2.77 | 1.56 | 0.28 | 4.01 |
| OHTL | 2.18 | 0.56 | 0.85 | -2.00 |
| ROH | 0.86 | 2.27 | 0.65 | -0.70 |
| SHANG | 0.77 | 4.05 | 0.29 | 0.23 |

Remark: ASIA = Asia Hotel, CENTEL = Central Plaza Hotel, DTC = Dusit Thani, ERW = The Erawan Group, GRAND = Grande Asset Hotels and Property, LRH = Laguna Resorts & Hotels, OHTL = OHTL, ROH = Royal Orchid Hotel (Thailand), and SHANG = Shangri-La Hotel. Data of GRAND is only available from 2003-2020 (The Securities and Exchange Commission, 2021)

According to the descriptive statistics presented in Table 4.4, Asia Hotel (ASIA) has the greatest cost of debt and total asset turnover with the average value of 3.83% and 0.19 times, respectively. The Erawan Group (ERW) has the lowest interest expense with the average value of 0.46 times. Grande Asset Hotels and Property (GRAND) has the highest sale growth rate with the average value of 37.12%. OHTL has the highest total assets turnover with the average value of 0.85 times. Shangri-La Hotel (SHANG) has the lowest cost of debt whilst its current ratio is the highest with the average value of 0.77% and 4.05 times, respectively.

4.4 Results from Multiple Regression Analyses

This study employs the multiple linear regression analysis to examine the impact of debt on profitability of nine hotel companies listed in the Stock Exchange of Thailand during 2001 – 2020.

Table 4.5 below presents the correlation coefficients among explanatory variables in the regression analyses. The findings reveal that there appears to be no pair of these variables which have correlation coefficient greater than 0.7 and lower than -0.7, implying no strong relationship between independent variables. Consequently, there is no multi-collinearity problem in the regression analyses in this study.

Note that TDB (total debt) and LDB (long-term debts) are independent variables in different model. As a result, although the correlation coefficient between these two variable is greater than 0.7, it does not cause the multi-collinearity problem.

Table 4.5: Correlation Coefficient Table

| Variable | TDB | SDB | LDB | CDB | CR | TAT | SG | LTA |
|----------|--------|--------|--------|--------|--------|--------|-------|-------|
| TDB | 1.000 | | | | | | | |
| SDB | 0.466 | 1.000 | | | | | | |
| LDB | 0.925 | 0.095 | 1.000 | | | | | |
| CDB | 0.412 | 0.121 | 0.412 | 1.000 | | | | |
| CR | -0.560 | -0.418 | -0.451 | -0.390 | 1.000 | | | |
| TAT | -0.128 | 0.291 | -0.269 | -0.274 | -0.113 | 1.000 | | |
| SG | 0.057 | 0.128 | 0.010 | 0.136 | -0.085 | 0.136 | 1.000 | |
| LTA | 0.225 | -0.090 | 0.293 | 0.200 | -0.105 | -0.468 | 0.009 | 1.000 |

Remark: TDB = Total Debt, SDB = Short-Term Debt, LDB = Long-Term Debt, CDB = Cost of Debt, CR = Current Ratio, TAT = Total Asset Turnover, SG = Sale Growth, and LTA is Company Size

The results from the multiple linear regression analyses with dummy variables in this study is divided into two parts, including (1) the impact of total debt on profitability and (2) the impact of short-term and long-term debt on profitability, presented in Table 4.6 and Table 4.7, respectively.

Table 4.6: Impact of Total Debt on Profitability

| Variable | Description | Coefficient | Std. Error | P-Value |
|----------------------------------|----------------------------------|-------------------|------------|----------|
| TDB | Total debt | -0.696 | 0.169 | ***0.000 |
| CDB | Cost of debt | 0.609 | 1.866 | 0.744 |
| CR | Liquidity | -2.323 | 2.059 | 0.261 |
| TAT | Efficiency | 80.256 | 25.760 | ***0.002 |
| SG | Sale growth | 0.109 | 0.082 | 0.183 |
| LTA | Company size | 15.296 | 10.081 | 0.131 |
| H ₁ | Central Plaza Hotel | -53.568 | 21.352 | **0.013 |
| H ₂ | Dusit Thani | -40.463 | 13.315 | ***0.003 |
| H ₃ | The Erawan Group | -17.628 | 13.470 | 0.192 |
| H ₄ | Grande Asset Hotels and Property | -12.925 | 10.932 | 0.239 |
| H ₅ | Laguna Resorts & Hotels | -35.449 | 14.911 | **0.019 |
| H ₆ | OHTL | -35.727 | 17.488 | **0.043 |
| H ₇ | Royal Orchid Hotel (Thailand) | -34.433 | 19.042 | *0.072 |
| H ₈ | Shangri-La Hotel | -23.761 | 14.885 | 0.112 |
| T | Time trend | -0.758 | 0.588 | 0.199 |
| Constant | | -308.931 | 229.923 | 0.181 |
| Dependent variable | | Net profit margin | | |
| Observation | | 177.000 | | |
| F-stat for overall significance | | 4.310 | | |
| P-value for overall significance | | ***0.000 | | |
| R-square | | 0.286 | | |

Remark: *, ** and *** indicate statistical significance at 10, 5 and 1 percent level, respectively.

The results from the multiple regression analysis on the impact of total debt on profitability of hotel companies listed in the Stock Exchange of Thailand, presented in Table 4.6, can be summarized as the following.

1. F-Statistics of overall significance is 4.310 while P-Value is 0.000 which is lower than the significance level of 0.01, implying the overall significance of the regression equation. That is, profitability of hotel companies listed in the Stock Exchange of Thailand is significantly related to at least one explanatory variable in the equation.

2. R-square is 0.286, implying that 28.6 percent of total variation in net profit margin of listed hotel companies can be explained by the regression equation.

3. Total debt (TDB) has regression coefficient of -0.696 and P-Value of 0.000 which is lower than significance level of 0.01, implying that the total debt which is measured by a ratio of total liabilities to total assets significantly impacted profitability of hotel companies listed in the Stock Exchange of Thailand in the negative direction. That is, one percent increase in the ratio of total liabilities to total assets will cause the net profit margin of listed hotel companies to decrease by 0.696%.

4. Cost of debt (CDB) has P-Value of 0.744 which is higher than significance level of 0.10, implying that cost of debt which is measured by a ratio of interest expenses to total liabilities has no statistically significant impact on profitability of listed hotel companies.

5. Liquidity (CR) has P-Value of 0.261 which is higher than significance level of 0.10, implying that liquidity which is measured by current ratio has no statistically significant impact on profitability of listed hotel companies.

6. Efficiency (TAT) has regression coefficient of 80.256 and P-Value of 0.002 which is lower than significance level of 0.01, implying that efficiency which is measured by total assets turnover significantly affects profitability of hotel companies listed in the Stock Exchange of Thailand in the positive direction. That is, one time

increase in total assets turnover will lead to 80.256 percent increase in net profit margin of listed hotel companies.

7. Sale growth (SG) has P-Value of 0.183 which is higher than significance level of 0.10, implying that sale growth which is measured by annual growth rate of sale revenue has no statistically significant impact on profitability of listed hotel companies.

8. Company size (LTA) has P-Value of 0.131 which is higher than significance level of 0.10, implying that size of company which is measured by total assets in natural logarithm has no statistically significant impact on profitability of listed hotel companies.

9. Time Trend (T) has P-Value of 0.199 which is higher than significance level of 0.10, implying that net profit margin of listed hotel companies does not exhibit a particular trend.

Net profit margin equation with total debt as independent variable can be expressed as the following.

$$\begin{aligned} \text{NMP} = & -308.931 - 0.696\text{TDB} + 0.609\text{CDB} - 2.323\text{CR} + 80.256\text{TAT} + 0.109\text{SG} + \\ & 15.296\text{LTA} - 53.568\text{H}_1 - 40.463\text{H}_2 - 17.628\text{H}_3 - 12.925\text{H}_4 - 35.449\text{H}_5 - \\ & 35.727\text{H}_6 - 34.433\text{H}_7 - 23.761\text{H}_8 - 0.758\text{T} \end{aligned}$$

Table 4.7: Impact of Short-Term and Long-Term Debt on Profitability

| Variable | Description | Coefficient | Std. Error | P-Value |
|----------------------------------|----------------------------------|-------------------|------------|----------|
| SDB | Short-Term debt | -0.773 | 0.374 | **0.040 |
| LDB | Long-Term debt | -0.680 | 0.184 | ***0.000 |
| CDB | Cost of debt | 0.627 | 1.873 | 0.738 |
| CR | Liquidity | -2.475 | 2.167 | 0.255 |
| TAT | Efficiency | 80.421 | 25.846 | ***0.002 |
| SG | Sale growth | 0.110 | 0.082 | 0.183 |
| LTA | Company size | 15.264 | 10.111 | 0.133 |
| H ₁ | Central Plaza Hotel | -52.248 | 22.164 | **0.020 |
| H ₂ | Dusit Thani | -39.081 | 14.632 | *0.008 |
| H ₃ | The Erawan Group | -16.952 | 13.822 | 0.222 |
| H ₄ | Grande Asset Hotels and Property | -11.058 | 13.622 | 0.418 |
| H ₅ | Laguna Resorts & Hotels | -34.298 | 15.764 | **0.031 |
| H ₆ | OHTL | -34.057 | 18.970 | *0.074 |
| H ₇ | Royal Orchid Hotel (Thailand) | -32.811 | 20.349 | 0.109 |
| H ₈ | Shangri-La Hotel | -22.359 | 16.114 | 0.167 |
| T | Time trend | -0.762 | 0.590 | 0.198 |
| Constant | | -308.341 | 230.616 | 0.183 |
| Dependent variable | | Net profit margin | | |
| Observation | | 177.000 | | |
| F-stat for overall significance | | 4.020 | | |
| P-value for overall significance | | ***0.000 | | |
| R-square | | 0.287 | | |

Remark: *, ** and *** indicate statistical significance at 10, 5 and 1 percent level, respectively.

The result from multiple regression analysis on the impact of short-term and long-term debt on profitability of hotel companies listed in the Stock Exchange of Thailand, presented in table 4.7, can be summarized as following.

1. F-Statistics of overall significance is 4.020 while P-Value is 0.000 which is lower than significance level of 0.01, implying the overall significance of the regression analysis equation. That is, profitability of hotel companies listed in the Stock Exchange of Thailand is significantly related to at least one explanatory variables in the equation.

2. R-square is 0.287, implying that 28.7 percent of total variation in net profit margin of hotel companies can be explained by the regression analysis.

3. Short-term debt (SDB) has regression coefficient of -0.773 and P-Value of 0.040 which is lower than significance level of 0.05, implying that short-term debt which is measured by a ratio of current liabilities to total assets significantly impacted profitability of hotel companies listed in the Stock Exchange of Thailand in the negative direction. That is, one percent increasing in the ratio of current liabilities to total assets will cause the net profit margin of listed hotel companies to decrease by 0.773%.

4. Long-term debt (LDB) has regression analysis coefficient of -0.680 and P-Value of 0.000 which is lower than significance level of 0.01, implying that long-term debt which is measured by a ratio of non-current liabilities to total assets significantly impacted profitability of hotel companies listed in the Stock Exchange of Thailand in the negative direction. That is, one percent increasing of the ratio of current liabilities to total assets will cause the net profit margin of listed hotel companies to decrease by 0.680%.

5. Cost of debt (CDB) has P-Value of 0.738 which is higher than significance level of 0.10, implying that cost of debt which is measured by a ratio of interest expense to total liabilities has no statistically impact on profitability of listed hotel companies.

6. Liquidity (CR) has P-Value of 0.255 which is higher than significance level of 0.10, implying that liquidity which is measured by current ratio no statistically impact on profitability of listed hotel companies.

7. Efficiency (TAT) has regression analysis coefficient of 80.421 and P-Value of 0.002 which is lower than significance level of 0.01, implying that efficiency which is measured by total assets turnover significantly affects profitability of hotel companies listed in the Stock Exchange of Thailand in the positive direction. That is, one time increase in total assets turnover will lead to 80.421 percent increase in net profit margin of listed hotel companies.

8. Sale growth (SG) has P-Value of 0.183 which is higher than significance level of 0.10, implying that sale growth which is measured by annual growth rate of sale revenue has no statistically impact on profitability of listed hotel companies.

9. Company size (LTA) has P-Value of 0.133 which is higher than significance level of 0.10, implying that size of company which is measured by total assets in natural logarithm has no statistically impact on profitability of listed hotel companies

10. Time Trend has P-Value of 0.198 which is higher than significance level of 0.10, implying that net profit margin of listed hotel companies does not exhibit a particular trend.

Base on the result, short-term debt (SDB) has a greater impacted on profitability of hotel companies listed in the Stock Exchange of Thailand than long-term debt (LDB) by 0.093%.

Net profit margin equation with short-term and long-term debt as independent variable can be expressed as the following.

$$\begin{aligned} \text{NMP} = & -308.341 - 0.773\text{SDB} - 0.680\text{LDG} + 0.627\text{CDB} - 2.475\text{CR} + 80.421\text{TAT} + \\ & 0.110\text{SG} + 15.264\text{LTA} - 52.248\text{H}_1 - 39.081\text{H}_2 - 16.952\text{H}_3 - 11.058\text{H}_4 - \\ & 34.298\text{H}_5 - 34.057\text{H}_6 - 32.811\text{H}_7 - 22.359\text{H}_8 - 0.762\text{T} \end{aligned}$$

Based on the analyses impact of debt on profitability of hotel companies listed in the Stock Exchange of Thailand presented in Table 4.6 and Table 4.7, research assumptions can be summarized as the following.

1. The assumption that total debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered valid since total debt is found statistically significant at 1% significance level.
2. The assumption that short-term debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered as valid since short-term debt is found statistically significant at 5% significance level.
3. The assumption that long-term debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered as valid since long-term debt is found statistically significant at 1% significant level.
4. The assumption that cost of debt has the negative impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered invalid since cost of debt is not found statistically significant at any significance level.
5. The assumption that liquidity has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered invalid since liquidity is not found statistically significant at any significant level.

6. The assumption that efficiency has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered as valid since efficiency is found statistically significant at 1% significant level.

7. The assumption that sale growth has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered invalid since sale growth is not found statistically significant at any significant level.

8. The assumption that company size has the positive impact on the profitability of hotel companies listed in the Stock Exchange of Thailand is considered invalid since size of company is not found statistically significant at any significant level.

The summary result of research assumptions can be illustrated in Table 4.8.

Table 4.8: Summary Result of Research Assumptions

| Variable | Description | Assumption | P-Value | Result |
|-----------------|--------------------|-------------------|----------------|---------------|
| DB | Total debt | Negative | Significant | Valid |
| SDB | Short-Term debt | Negative | Significant | Valid |
| LDB | Long-Term debt | Negative | Significant | Valid |
| CDB | Cost of debt | Negative | Insignificant | Invalid |
| CR | Liquidity | Positive | Insignificant | Invalid |
| TAT | Efficiency | Positive | Significant | Valid |
| SG | Sale growth | Positive | Insignificant | Invalid |
| LTA | Company size | Positive | Insignificant | Invalid |

CHAPTER 5

CONCLUSION

5.1 Research Summary

Objectives of this study are to examine the situation regarding profitability and debt financing as well as to investigate the impact of debt on profitability of nine hotel companies listed in the Stock Exchange of Thailand during 2001 – 2020, including Asia Hotel, Central Plaza Hotel, Dusit Thani, The Erawan Group, Grande Asset Hotels and Property, Laguna Resorts & Hotels, OHTL, Royal Orchid Hotel (Thailand), and Shangri-La Hotel. Descriptive statistic including mean values and trend lines and multiple linear regression analysis with dummy variables are employed in this study.

Net profit margin is assigned as a dependent variable which represents profitability while total liabilities to total assets ratio, current liabilities to total assets ratio, and non-current liabilities to total assets ratio are assigned as independent variables which represent total debt, short term debt and long term debt, respectively. In addition, controlling variables include cost of debt, liquidity, efficiency, sale growth, and company size which are measured by interest expense to total liabilities ratio, current ratio, total assets turnover, growth rate of sale revenue, and total asset in natural logarithm respectively.

In terms of profitability which is measured by net profit margin, during 2001-2020, Asia Hotel had both the highest and lowest net profit margin among hotel companies in this study. The highest net profit margin of studied hotel companies was in 2005 with the value of 152.40 percent whilst the lowest record was in 2001 with the value of -279.40 percent. All hotels in this study had the positive net profit margin during 2016-2018 whilst all of them had the negative net profit margin in 2020 due to

the impact from Covid-19 pandemic. Beside the loss in 2020, Central Plaza Hotel, Dusit Thani and OHTL experienced the negative net profit margin only once with the value of -0.10% in 2010, -3.76% in 2009, and 28.30% in 2019 respectively.

Debt financing in this study is measured by total liabilities to total assets ratio, current liabilities to total assets ratio, and non-current liabilities to total assets ratio. During the study period, all hotels had the positive total liabilities to total assets ratio, implying that all of them had debt financing which was obtained from both short-term and long-term. However, Dusit Thani and Royal Orchid Hotel (Thailand) had no long-term debt during 2002 – 2003 and 2003 – 2008, respectively.

During 2001 – 2020, the highest total liabilities-total assets ratio of hotels was from Asia Hotel with the value of 129.38 percent in 2004 whilst Shangri-La Hotel had the lowest total liabilities-total assets ratio with the value of 3.88 percent in 2020. Focusing on short-term debt, Grande Asset Hotels and Property had the highest current liabilities-total assets ratio among the others during 2001 – 2020 with the value of 54.19 percent in 2012 whilst Shangri-La Hotel had the lowest current liabilities-total assets ratio with the value of 2.46 percent in 2020. Non-current liabilities-total assets ratio was highest recorded in 2003 with the value of 106.38 percent which was from Asia Hotel whilst Shangri-la Hotel also had the lowest non-current liabilities-total assets ratio among the others during the study period with the value of 0.25 percent in 2001.

After performing the multiple regression analysis to examine the impact of total debt on profitability of listed hotel company, the findings reveal that the regression equation is overall significant at 1 percent significance level with R-square of 0.286, implying that 28.6 percent of total variation in net profit margin of listed hotel companies can be explained by the regression equation. Total debt which is measured

by a ratio of total liabilities to total assets has negative impact on profitability of the listed hotel companies with the regression coefficient of -0.696, implying that one percent increase in the ratio of total liabilities to total assets will cause the net profit margin of listed hotel companies to decrease by 0.696 percent. Moreover, efficiency which is measured by total asset turnover has significantly positive impact on profitability of the listed hotel companies with the regression coefficient of 80.256, implying that one time increase in total assets turnover will lead to 80.256 percent increase in net profit margin of listed hotel companies.

After performing the multiple regression analysis to examine the impact of short term and long term debt on profitability of listed hotel company, the findings reveal that the regression equation is also overall significant at 1 percent significance level the R-square of 0.287, implying that 28.7 percent of total variation in net profit margin of listed hotel companies can be explained by the regression equation. Short-term debt which is measured by a ratio of current liabilities to total assets has negative impact on profitability of the listed hotel companies with the regression coefficient of -0.773, implying that one percent increase in the ratio of short-term liabilities to total assets will cause the net profit margin of listed hotel companies to decrease by 0.773 percent.

Long-term debt which is measured by a ratio of non-current liabilities to total assets also has negative impact on profitability of the listed hotel companies with the regression coefficient of -0.680, implying that one percent increase in the ratio of long-term liabilities to total assets will cause the net profit margin of listed hotel companies to decrease by 0.680 percent. In addition, efficiency which is measured by total asset turnover has positive impact on profitability of the listed hotel companies with the

regression coefficient of 80.421, implying that one time increase in total assets turnover will lead to 80.421 percent increase in net profit margin of listed hotel companies.

5.2 Discussion

This study found that total debt and profitability are negatively related. That is, an increase in total debt is likely to cause the profitability of the listed hotel companies to decrease since the greater debt will cause the greater expense incurred for the payment of debt, both principal and interest payment, leading to the lower profit. This result is complied with Addae, Nyarko-Baasi & Hughes (2013), Habib, Khan, & Wazir (2016), and Muscettola & Naccarato (2016) which also found the negative impact of total debt on profitability as measured by ROE, ROA, and return on sales respectively. However, this result is contradicted to Aziz & Abbas (2019) which found the positive impact of total debt on profitability as measured by gross profit margin. The explanation of positive relationship between debt and profitability is that debt enables company to invest in new profitable projects, leading to the greater profit. Nevertheless, in case of listed hotel companies in Thailand, debt is likely to be financial burden rather than fuel of growth.

Short-term debt was also found that it negatively related to profitability in this study. That is, an increase in short-term debt is likely to cause the profitability of the listed hotel companies to decrease. This result is complied with Raisa & Cristian (2015) and Habib, Khan, & Wazir (2016) which also found the negative impact of short-term debt on profitability as measured by ROA. However, this result is contradicted to Addae, Nyarko-Baasi & Hughes (2013) which found the positive effect of short-term debt on profitability as measured by ROE.

Similar to total and short-term debt, long-term debt and profitability are also negatively related. That is, an increase in long-term debt is likely to cause the profitability of the listed hotel companies to decrease. This result is complied with Addae, Nyarko-Baasi & Hughes (2013) and Ikapel & Kajirwa (2017) which also found the negative impact of short-term debt on profitability as measured by ROE and ROA respectively. However, this result is contradicted to Aziz & Abbas (2019) which found the positive effect of long-term debt on profitability as measured by ROE. However, the impact of long-term debt on profitability of the listed hotel companies is less than the impact from short-term debt. The reason behind is not only tax benefit on the interest expense of long-term debt but also long-term debt is regularly used as investment fund for new company's assets in order to generate greater revenue from current operation.

Interestingly, cost of debt and profitability are insignificantly related in this study. That is, an increasing or decreasing in cost of debt is likely to cause nothing to the profitability of the listed hotel companies. This result is complied with Giwa (2019) which also found insignificant relationship between cost of debt and profitability as measured by ROA. However, the result is contradicted to Santosuosso (2014) which found negative impact of cost of debt on profitability as measured by ROA. The explanation of negative relationship between cost of debt and profitability is that there is indirect cost from relationship of companies and lenders. That is, weak relationship result in higher cost of debt and leading to low profitability. However, in case of listed hotel companies in Thailand, they have strong reputation and experience with many good supporters such as banks that enables low cost of debt financing, leading to insignificant impact on profitability.

In this study, another variable that is related to profitability is efficiency which is measured by total assets turnover. That is, increasing in total assets turnover is likely to cause the profitability of the listed hotel companies to increase. This result is complied with Mauawar (2019) which also found the positive impact of total assets turnover on profitability as measured by ROE. However, this result is different from Warrad & Omari (2015) and Shahniala, Purnamasarib, Hakimc, & Endria (2020) which found none relationship between total assets turnover and profitability as measured by ROA. The explanation of none relationship between total assets turnover and profitability is that total assets turnover ratio and ROA have similar factors in the calculation which is sale and total assets while cost of sale is the only difference. However, in this study, profitability is measured by net profit margin that does not contain the same divider and focuses more on operational result. That is, higher efficiency result in better operational performance. Moreover, hotel industry requires high assets investment in the beginning which the majority is on building structure, facility system, and room setup while only small investments are required to refresh their products and support operation so their assets value is quite stable then increasing on total asset turnover mainly contributed from revenue which reflect the profitability at the same.

Liquidity which is measured by current ratio and profitability are also insignificantly related in this study. That is, an increasing or decreasing in current ratio is likely to cause nothing to the profitability of the listed hotel companies. This result is complied with Warrad (2014) which also found insignificant impact of total current ratio on profitability as measured by net profit margin. However, this result is contradicted to Shahniala, Purnamasarib, Hakimc, & Endria (2020) which found the

negative impact of current ratio on profitability as measured by ROA. The explanation of negative relationship between current ratio and profitability is that current assets contain supply of raw materials and inventory of goods in process which already generated costs but not yet sell to customers and implying no revenue. Nevertheless, in case of listed hotel companies in Thailand, there is no raw materials and inventory of goods in process so the impact does not occur.

Sale growth and profitability are in significantly related in this study. That is, an increasing or decreasing in sale growth is likely to cause nothing to the profitability of the listed hotel companies. This result is complied with Jayasiri, N. & Sanjaya, R.S. (2015) which also found no impact of sale growth on profitability as measured by ROA and net profit margin. However, this result is contradicted to Mamaro & Legotlo (2020) which found the positive impact of sale growth on profitability as measured by ROE. The explanation of positive relationship between sale growth and profitability is that firm relied on internal fund which contain lower cost when expanding the sale, leading to the greater profit. Nevertheless, in case of listed hotel companies in Thailand, debt financing is a preferred choice when they expand their business. In case there is no expanding, hotel industry has the same supply for sale over year so sale growth is limited and not significant impact the profitability.

Company size which is measured by total assets in natural logarithm and profitability are insignificantly related in this study. That is, an increasing or decreasing in current ratio is likely to cause nothing to the profitability of the listed hotel companies. This result is complied with Abeyrathna, G. & Priyadarshana, M. (2019) which also found no impact of firm size on profitability as measured by net profit and ROA. However, this result is contradicted to Aziz & Abbas (2019) which found the

positive impact of company size on profitability as measured by gross profit margin. The explanation of positive relationship between company size and profitability is that firm size enables company to reach economy of scale, leading to the greater profit. Nevertheless, in case of listed hotel companies in Thailand, economy of scale does not reach as a company level since they have individual operation in each location as well as various requirements for each hotel brand standard.

5.3 Recommendations for Further Application

Based on results from this study, investors are recommended to evaluate hotel companies' financial position by focusing on their debt ratio and total asset turnover. Hotel companies that have low debt ratio but high total assets turnover should be considered. However, it would be difficult for management to operate the hotel company without debt since hotel industry naturally contain high assets and may require debt financing to support. Then Trade - Off Theory should be applied and it is the managements' responsibility to find an optimal balance on advantage and disadvantage from debt financing in order to reduce risk of bankruptcy while gain the most benefit from the debt financing. Increasing on total asset turnover would increase the interest level for investor and help to yield the company's performance but high operating profit alone may not be sufficient. It is also the managements' responsibility to source for low cost debt financing in order to minimize interest expenses. Since debt has negative impact to profitability, the policy makers such as the Stock Exchange of Thailand and the Securities and Exchange Commission should set ceiling on debt ratio for listed companies in the Stock Exchange of Thailand which ratio value can be varied base on requirement of each industry.

5.4 Recommendations for Further Research

This study focus on impact of debt on profitability as only measured by net profit margin of hotel companies listed in the Stock Exchange of Thailand during 2001-2020. It is recommended to have further research by changing profitability measurements such as return on assets (ROA) and return on equity (ROE) in order to analysis if there are any differences. Moreover, due to the limitation of data in this study that contain only nine listed hotel companies in the Stock Exchange of Thailand and they are large size company, the result may not applicable to other hotels. Hence, expanding the study data to cover unlisted hotel companies outside the Stock Exchange of Thailand is suggested. Since there will be various size of hotels in the data, grouping them into small, medium, and large would be recommended with expectation on suitable in further application.

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APPENDIX 1

Raw Data

1. Raw Data of Asia Hotel During 2000-2020

Selected Data from Statement of Financial Position of Asia Hotel

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|---------------|
| 2000 | 130,648,053 | 6,169,852,601 | 6,300,500,654 |
| 2001 | 108,391,670 | 4,130,788,486 | 4,239,180,156 |
| 2002 | 120,536,427 | 4,028,687,865 | 4,149,224,292 |
| 2003 | 157,666,056 | 3,880,679,239 | 4,038,345,295 |
| 2004 | 160,731,655 | 3,767,685,089 | 3,928,416,744 |
| 2005 | 238,856,758 | 4,066,896,758 | 4,305,753,516 |
| 2006 | 220,683,144 | 3,991,664,925 | 4,212,348,069 |
| 2007 | 327,602,298 | 4,260,611,102 | 4,588,213,400 |
| 2008 | 218,893,915 | 4,238,668,722 | 4,457,562,637 |
| 2009 | 213,221,679 | 4,363,183,745 | 4,576,405,424 |
| 2010 | 193,004,688 | 7,585,415,174 | 7,778,419,861 |
| 2011 | 146,862,856 | 8,529,466,433 | 8,676,329,289 |
| 2012 | 217,417,736 | 9,375,328,290 | 9,592,746,026 |
| 2013 | 266,492,370 | 7,586,919,641 | 7,853,412,011 |
| 2014 | 287,916,142 | 8,171,241,760 | 8,459,157,902 |
| 2015 | 249,511,432 | 8,864,209,977 | 9,113,721,409 |
| 2016 | 228,151,878 | 8,930,045,188 | 9,158,197,066 |
| 2017 | 393,166,192 | 8,906,680,081 | 9,299,846,273 |
| 2018 | 210,635,586 | 9,465,604,542 | 9,676,240,128 |
| 2019 | 214,970,819 | 9,257,241,927 | 9,472,212,746 |
| 2020 | 284,009,343 | 9,285,264,185 | 9,569,273,528 |

Selected Data from Statement of Financial Position of Asia Hotel

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 1,057,030,000 | 4,191,591,773 | 5,248,621,774 | 1,051,878,880 |
| 2001 | 1,156,205,222 | 4,201,853,416 | 5,358,058,638 | -1,118,878,483 |
| 2002 | 968,009,969 | 4,329,249,450 | 5,297,259,419 | -1,148,035,127 |
| 2003 | 864,112,074 | 4,296,115,245 | 5,160,227,319 | -1,121,882,024 |
| 2004 | 1,092,670,314 | 4,007,459,520 | 5,100,129,833 | -1,171,713,090 |
| 2005 | 328,853,084 | 3,135,564,697 | 3,464,417,781 | 841,335,735 |
| 2006 | 283,924,342 | 2,944,966,054 | 3,228,890,396 | 983,457,673 |
| 2007 | 350,482,756 | 2,749,105,784 | 3,099,588,540 | 1,488,624,859 |
| 2008 | 206,971,407 | 1,783,955,784 | 1,990,927,191 | 2,466,635,446 |
| 2009 | 255,802,420 | 1,720,267,589 | 1,976,070,009 | 2,600,335,415 |
| 2010 | 279,379,276 | 2,076,148,153 | 2,355,527,429 | 5,422,892,432 |
| 2011 | 380,915,202 | 2,190,303,034 | 2,571,218,236 | 6,105,111,053 |
| 2012 | 430,629,520 | 3,441,871,737 | 3,872,501,257 | 5,720,244,769 |
| 2013 | 366,780,523 | 2,828,554,218 | 3,195,334,741 | 4,658,077,270 |
| 2014 | 471,433,066 | 3,269,445,044 | 3,740,878,110 | 4,718,279,792 |
| 2015 | 419,713,445 | 3,218,695,334 | 3,638,408,779 | 5,475,312,630 |
| 2016 | 515,045,933 | 3,109,912,045 | 3,624,957,978 | 5,533,239,088 |
| 2017 | 585,864,425 | 3,032,112,083 | 3,617,976,508 | 5,681,869,765 |
| 2018 | 524,943,638 | 3,555,944,320 | 4,080,887,958 | 5,595,352,170 |
| 2019 | 649,194,299 | 3,351,962,185 | 4,001,156,484 | 5,471,056,262 |
| 2020 | 596,138,623 | 3,632,744,770 | 4,228,883,393 | 5,340,390,135 |

Selected Data from Statement of Financial Position of Asia Hotel

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2000 | 440,808,207 | 175,634,800 | 271,381,852 | -523,144,582 | 616,443,007 |
| 2001 | 626,283,697 | 56,304,167 | 267,673,221 | -1,900,341,419 | 682,587,864 |
| 2002 | 677,091,145 | 60,228,584 | 220,152,525 | -29,556,643 | 737,319,729 |
| 2003 | 713,878,540 | 46,848,950 | 230,806,635 | 27,218,712 | 760,727,490 |
| 2004 | 832,887,338 | 58,822,400 | 208,972,984 | -49,831,066 | 891,709,738 |
| 2005 | 951,334,325 | 98,899,241 | 151,582,494 | 1,600,505,018 | 1,050,233,566 |
| 2006 | 1,059,530,052 | 79,654,412 | 143,927,176 | 159,050,416 | 1,139,184,465 |
| 2007 | 1,078,502,363 | 58,915,393 | 126,026,734 | -44,681,298 | 1,137,417,756 |
| 2008 | 1,077,931,931 | 954,218,419 | 105,228,023 | 1,058,861,587 | 2,032,150,350 |
| 2009 | 888,429,894 | 162,616,050 | 81,909,196 | 161,476,560 | 1,051,045,944 |
| 2010 | 929,111,656 | 263,228,895 | 95,673,651 | 346,514,405 | 1,192,340,551 |
| 2011 | 903,033,211 | 88,919,431 | 121,483,466 | 69,464,582 | 991,952,642 |
| 2012 | 1,154,689,981 | 97,569,969 | 125,124,443 | 166,368,158 | 1,252,259,950 |
| 2013 | 1,316,224,921 | 62,013,848 | 119,388,060 | 136,634,637 | 1,378,238,769 |
| 2014 | 1,211,254,360 | 114,867,461 | 105,769,840 | 211,886,598 | 1,326,121,821 |
| 2015 | 1,364,717,708 | 88,692,802 | 113,258,779 | 295,268,805 | 1,453,410,510 |
| 2016 | 1,281,695,585 | 82,735,439 | 113,338,280 | 6,158,368 | 1,364,431,024 |
| 2017 | 1,320,407,063 | 260,377,048 | 113,563,840 | 161,579,565 | 1,580,784,111 |
| 2018 | 1,336,070,498 | 85,272,477 | 105,062,108 | 2,669,541 | 1,421,342,975 |
| 2019 | 1,356,126,410 | 83,658,475 | 123,513,299 | -55,589,565 | 1,439,784,885 |
| 2020 | 810,538,345 | 82,592,736 | 124,319,913 | -122,295,114 | 893,131,081 |

2. Raw Data of Central Plaza Hotel During 2000-2020

Selected Data from Statement of Financial Position of Central Plaza Hotel

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|----------------|
| 2000 | 129,603,729 | 4,844,135,386 | 4,973,739,115 |
| 2001 | 498,599,910 | 4,816,189,864 | 5,314,789,774 |
| 2002 | 536,055,463 | 4,669,781,208 | 5,205,836,671 |
| 2003 | 505,654,581 | 5,446,878,104 | 5,952,532,685 |
| 2004 | 616,377,165 | 5,644,412,727 | 6,260,789,892 |
| 2005 | 791,431,487 | 7,254,544,461 | 8,045,975,948 |
| 2006 | 866,374,718 | 9,626,746,646 | 10,493,121,364 |
| 2007 | 1,001,867,169 | 10,788,835,782 | 11,790,702,951 |
| 2008 | 1,413,867,604 | 16,250,585,681 | 17,664,453,285 |
| 2009 | 1,424,952,417 | 18,392,037,273 | 19,816,989,690 |
| 2010 | 1,625,029,520 | 19,062,773,462 | 20,687,802,982 |
| 2011 | 1,762,736,285 | 19,920,851,039 | 21,683,587,324 |
| 2012 | 1,989,029,810 | 25,768,152,437 | 27,757,182,247 |
| 2013 | 2,463,454,779 | 26,760,902,483 | 29,224,357,262 |
| 2014 | 2,473,318,309 | 26,235,554,905 | 28,708,873,214 |
| 2015 | 2,335,403,468 | 22,108,095,295 | 24,443,498,763 |
| 2016 | 3,042,735,261 | 21,354,073,017 | 24,396,808,278 |
| 2017 | 2,650,522,430 | 22,386,787,223 | 25,037,309,653 |
| 2018 | 4,049,273,454 | 22,398,176,354 | 26,447,449,808 |
| 2019 | 4,661,220,497 | 22,928,380,081 | 27,589,600,578 |
| 2020 | 4,405,788,172 | 30,944,354,745 | 35,350,142,917 |

Selected Data from Statement of Financial Position of Central Plaza Hotel

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 338,776,309 | 2,007,066,165 | 2,345,842,474 | 2,627,896,641 |
| 2001 | 1,071,432,959 | 1,557,057,311 | 2,628,490,270 | 2,686,299,504 |
| 2002 | 980,704,626 | 1,519,446,264 | 2,500,150,890 | 2,705,685,781 |
| 2003 | 1,283,008,745 | 1,886,110,634 | 3,169,119,379 | 2,783,413,306 |
| 2004 | 1,060,817,472 | 1,766,574,598 | 2,827,392,070 | 3,433,397,822 |
| 2005 | 1,792,792,694 | 2,750,219,852 | 4,543,012,546 | 3,502,963,402 |
| 2006 | 3,339,633,184 | 2,819,843,162 | 6,159,476,346 | 4,333,645,018 |
| 2007 | 2,780,632,657 | 4,591,334,983 | 7,371,967,640 | 4,418,735,311 |
| 2008 | 7,234,146,507 | 4,000,508,559 | 11,234,655,066 | 6,429,798,219 |
| 2009 | 4,216,620,766 | 9,323,811,708 | 13,540,432,474 | 6,276,557,216 |
| 2010 | 5,221,995,759 | 9,384,656,185 | 14,606,651,944 | 6,081,151,038 |
| 2011 | 6,522,741,772 | 9,112,206,045 | 15,634,947,817 | 6,048,639,507 |
| 2012 | 7,843,235,593 | 9,855,124,100 | 17,698,359,693 | 10,058,822,554 |
| 2013 | 6,418,302,589 | 11,588,253,593 | 18,006,556,182 | 11,217,801,080 |
| 2014 | 5,344,498,088 | 11,648,222,239 | 16,992,720,327 | 11,716,152,887 |
| 2015 | 7,643,653,542 | 6,879,092,685 | 14,522,746,227 | 9,920,752,536 |
| 2016 | 4,639,270,701 | 8,640,257,546 | 13,279,528,247 | 11,117,280,031 |
| 2017 | 4,404,771,149 | 8,574,168,380 | 12,978,939,529 | 12,058,370,124 |
| 2018 | 3,692,265,377 | 9,335,509,416 | 13,027,774,793 | 13,419,675,015 |
| 2019 | 5,129,197,789 | 8,316,780,238 | 13,445,978,027 | 14,143,622,551 |
| 2020 | 7,797,864,256 | 17,336,721,819 | 25,134,586,075 | 10,215,556,842 |

Selected Data from Statement of Financial Position of Central Plaza Hotel

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|----------------|-------------------------|-----------------------------|-------------------|----------------------|
| 2000 | 3,297,632,146 | 281,339,846 | 111,387,354 | 153,630,717 | 3,578,971,992 |
| 2001 | 3,976,008,832 | 300,234,337 | 111,358,474 | 255,094,078 | 4,276,243,169 |
| 2002 | 4,174,301,036 | 311,966,139 | 90,451,440 | 222,692,673 | 4,486,267,175 |
| 2003 | 4,189,824,620 | 326,548,482 | 14,939,219 | 279,235,909 | 4,516,373,102 |
| 2004 | 5,126,942,314 | 372,935,281 | 12,695,750 | 541,120,637 | 5,499,877,595 |
| 2005 | 5,837,436,857 | 401,683,554 | 24,686,005 | 535,954,035 | 6,239,120,411 |
| 2006 | 6,350,672,240 | 531,580,674 | 132,787,212 | 417,197,641 | 6,882,252,914 |
| 2007 | 6,701,211,486 | 480,774,726 | 94,039,582 | 450,892,085 | 7,181,986,212 |
| 2008 | 7,604,435,448 | 602,208,883 | 59,518,378 | 375,357,627 | 8,206,644,331 |
| 2009 | 7,860,453,993 | 675,954,816 | 206,115,317 | 98,885,090 | 8,536,408,809 |
| 2010 | 8,741,414,125 | 758,825,052 | 307,526,066 | -9,749,207 | 9,500,239,177 |
| 2011 | 11,277,807,168 | 296,422,671 | 414,072,559 | 590,488,008 | 11,574,229,839 |
| 2012 | 14,503,834,080 | 876,567,869 | 486,342,148 | 1,623,706,397 | 15,380,401,949 |
| 2013 | 17,095,970,112 | 461,380,903 | 506,575,636 | 1,400,332,313 | 17,557,351,015 |
| 2014 | 17,992,269,069 | 494,001,891 | 455,314,247 | 1,297,373,780 | 18,486,270,960 |
| 2015 | 18,822,742,525 | 468,636,108 | 379,549,371 | 1,751,660,425 | 19,291,378,633 |
| 2016 | 19,448,167,809 | 458,060,899 | 298,537,239 | 1,956,121,534 | 19,906,228,708 |
| 2017 | 19,814,429,461 | 530,907,928 | 223,877,715 | 2,091,400,394 | 20,345,337,389 |
| 2018 | 21,262,983,924 | 505,169,979 | 204,614,887 | 2,274,289,100 | 21,768,153,903 |
| 2019 | 20,622,745,036 | 668,303,831 | 214,021,422 | 1,809,172,067 | 21,291,048,867 |
| 2020 | 12,892,743,095 | 356,704,898 | 668,739,647 | -2,897,651,951 | 13,249,447,993 |

3. Raw Data of Dusit Thani During 2000-2020

Selected Data from Statement of Financial Position of Dusit Thani

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|----------------|
| 2000 | 1,217,187,580 | 2,883,479,764 | 4,100,667,344 |
| 2001 | 1,631,507,438 | 2,480,603,620 | 4,112,111,058 |
| 2002 | 1,948,656,170 | 2,410,209,234 | 4,358,865,404 |
| 2003 | 1,227,687,113 | 3,194,648,732 | 4,422,335,845 |
| 2004 | 738,625,105 | 3,917,390,411 | 4,656,015,516 |
| 2005 | 810,268,001 | 4,821,716,611 | 5,631,984,612 |
| 2006 | 1,233,046,168 | 5,105,513,060 | 6,338,559,228 |
| 2007 | 1,006,942,443 | 5,508,276,012 | 6,515,218,455 |
| 2008 | 837,524,204 | 5,102,671,281 | 5,940,195,485 |
| 2009 | 939,729,401 | 4,667,318,830 | 5,607,048,231 |
| 2010 | 1,029,305,017 | 5,066,175,657 | 6,095,480,674 |
| 2011 | 1,363,558,512 | 6,977,784,279 | 8,341,342,791 |
| 2012 | 1,297,109,741 | 7,104,962,027 | 8,402,071,768 |
| 2013 | 1,717,723,053 | 7,553,162,932 | 9,270,885,985 |
| 2014 | 1,767,700,238 | 7,297,427,707 | 9,065,127,945 |
| 2015 | 1,817,061,130 | 7,571,414,939 | 9,388,476,069 |
| 2016 | 1,912,942,979 | 7,120,034,032 | 9,032,977,011 |
| 2017 | 2,278,451,787 | 7,701,414,482 | 9,979,866,269 |
| 2018 | 2,616,952,147 | 8,956,093,464 | 11,573,045,611 |
| 2019 | 5,287,951,776 | 8,949,122,024 | 14,237,073,800 |
| 2020 | 2,537,607,287 | 19,322,994,124 | 21,860,601,411 |

Selected Data from Statement of Financial Position of Dusit Thani

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 988,560,065 | 263,406,980 | 1,251,967,045 | 2,848,700,299 |
| 2001 | 944,583,886 | 52,000,000 | 996,583,886 | 3,115,527,172 |
| 2002 | 1,020,589,688 | 0 | 1,020,589,688 | 3,338,275,716 |
| 2003 | 1,118,027,820 | 0 | 1,118,027,820 | 3,304,308,025 |
| 2004 | 607,593,891 | 303,000,000 | 910,593,891 | 3,745,421,625 |
| 2005 | 604,083,233 | 1,175,345,754 | 1,779,428,987 | 3,852,555,625 |
| 2006 | 940,053,531 | 1,293,721,653 | 2,233,775,184 | 4,104,784,044 |
| 2007 | 1,080,715,315 | 1,320,765,507 | 2,401,480,822 | 4,113,737,633 |
| 2008 | 1,079,760,454 | 724,894,958 | 1,804,655,412 | 4,135,540,073 |
| 2009 | 812,034,930 | 772,822,786 | 1,584,857,716 | 4,022,190,515 |
| 2010 | 1,013,638,679 | 879,357,556 | 1,892,996,235 | 4,202,484,439 |
| 2011 | 1,889,868,465 | 1,878,722,417 | 3,768,590,882 | 4,572,751,909 |
| 2012 | 1,745,820,052 | 2,103,114,213 | 3,848,934,265 | 4,553,137,503 |
| 2013 | 2,038,860,124 | 1,964,152,696 | 4,003,012,820 | 5,267,873,165 |
| 2014 | 2,103,161,376 | 1,749,856,855 | 3,853,018,231 | 5,212,109,714 |
| 2015 | 1,912,611,362 | 2,071,399,298 | 3,984,010,660 | 5,404,465,409 |
| 2016 | 1,694,343,399 | 1,984,544,750 | 3,678,888,149 | 5,354,088,862 |
| 2017 | 1,774,069,709 | 2,325,079,850 | 4,099,149,559 | 5,880,716,710 |
| 2018 | 1,934,645,731 | 3,560,265,423 | 5,494,911,154 | 6,078,134,457 |
| 2019 | 3,749,219,980 | 4,583,355,724 | 8,332,575,704 | 5,904,498,096 |
| 2020 | 5,339,235,278 | 12,361,492,457 | 17,700,727,735 | 4,159,873,676 |

Selected Data from Statement of Financial Position of Dusit Thani

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2000 | 2,279,248,208 | 213,497,541 | 119,242,312 | 423,624,011 | 2,492,745,749 |
| 2001 | 2,215,250,900 | 224,996,373 | 86,935,516 | 341,430,294 | 2,440,247,273 |
| 2002 | 2,217,765,655 | 211,573,333 | 65,845,990 | 441,354,485 | 2,429,338,988 |
| 2003 | 2,041,421,990 | 212,264,616 | 65,121,678 | 314,387,264 | 2,253,686,606 |
| 2004 | 2,341,028,426 | 234,096,611 | 50,148,275 | 565,839,373 | 2,575,125,037 |
| 2005 | 2,575,357,413 | 250,245,120 | 19,735,075 | 245,111,940 | 2,825,602,533 |
| 2006 | 2,848,724,023 | 374,709,412 | 81,615,578 | 221,216,585 | 3,223,433,435 |
| 2007 | 3,026,373,973 | 280,685,025 | 87,529,776 | 132,312,331 | 3,307,058,998 |
| 2008 | 3,197,118,127 | 286,120,960 | 72,199,591 | 227,400,850 | 3,483,239,087 |
| 2009 | 2,777,382,413 | 271,922,399 | 51,769,641 | -114,582,433 | 3,049,304,812 |
| 2010 | 2,797,305,140 | 257,178,386 | 46,360,818 | 135,625,172 | 3,054,483,526 |
| 2011 | 3,492,412,640 | 278,788,487 | 20,044,946 | 7,072,915 | 3,771,201,127 |
| 2012 | 4,257,442,247 | 283,106,342 | 79,033,107 | 36,821,045 | 4,540,548,589 |
| 2013 | 5,012,960,958 | 331,122,906 | 70,932,599 | 197,625,470 | 5,344,083,864 |
| 2014 | 4,789,448,401 | 435,699,477 | 64,459,175 | 13,249,804 | 5,225,147,878 |
| 2015 | 4,895,149,503 | 424,258,344 | 49,395,223 | 253,100,856 | 5,319,407,847 |
| 2016 | 4,974,351,891 | 427,767,456 | 72,826,354 | 152,914,958 | 5,402,119,347 |
| 2017 | 4,722,927,422 | 503,970,838 | 58,797,616 | 332,369,289 | 5,226,898,260 |
| 2018 | 4,632,681,608 | 500,499,161 | 64,764,327 | 350,255,760 | 5,133,180,769 |
| 2019 | 4,192,697,700 | 1,102,383,952 | 117,523,704 | 605,518,874 | 5,295,081,652 |
| 2020 | 2,272,093,469 | 843,591,402 | 420,982,543 | -1,050,432,447 | 3,115,684,871 |

4. Raw Data of The Erawan Group During 2000-2020

Selected Data from Statement of Financial Position of The Erawan Group

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|----------------|
| 2000 | 957,329,420 | 9,687,314,111 | 10,644,643,531 |
| 2001 | 898,114,943 | 9,301,261,116 | 10,199,376,059 |
| 2002 | 618,387,253 | 7,949,706,900 | 8,568,094,153 |
| 2003 | 567,016,961 | 7,627,068,069 | 8,194,085,030 |
| 2004 | 417,294,406 | 8,082,473,881 | 8,499,768,287 |
| 2005 | 494,010,263 | 7,086,837,579 | 7,580,847,842 |
| 2006 | 536,362,324 | 8,184,403,483 | 8,720,765,807 |
| 2007 | 751,481,531 | 9,503,867,797 | 10,255,349,328 |
| 2008 | 908,796,222 | 11,721,301,761 | 12,630,097,983 |
| 2009 | 825,766,421 | 12,463,050,413 | 13,288,816,834 |
| 2010 | 602,161,904 | 12,348,265,521 | 12,950,427,425 |
| 2011 | 771,312,887 | 11,466,552,402 | 12,237,865,289 |
| 2012 | 818,737,284 | 12,015,315,516 | 12,834,052,800 |
| 2013 | 1,227,026,741 | 12,488,274,762 | 13,715,301,503 |
| 2014 | 1,046,696,690 | 13,469,919,837 | 14,516,616,527 |
| 2015 | 1,408,618,255 | 13,411,428,554 | 14,820,046,809 |
| 2016 | 1,278,161,137 | 13,632,953,965 | 14,911,115,102 |
| 2017 | 1,572,670,744 | 14,475,024,298 | 16,047,695,042 |
| 2018 | 1,559,941,381 | 15,388,751,063 | 16,948,692,444 |
| 2019 | 1,456,325,922 | 16,377,935,998 | 17,834,261,920 |
| 2020 | 1,962,203,692 | 19,252,512,726 | 21,214,716,418 |

Selected Data from Statement of Financial Position of The Erawan Group

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 374,826,022 | 6,576,417,326 | 6,951,243,348 | 3,693,400,183 |
| 2001 | 1,108,948,514 | 5,827,612,744 | 6,936,561,258 | 3,262,814,801 |
| 2002 | 1,285,302,566 | 3,792,121,198 | 5,077,423,764 | 3,490,670,389 |
| 2003 | 958,327,902 | 3,345,695,099 | 4,304,023,001 | 3,890,062,029 |
| 2004 | 1,413,941,639 | 3,087,265,965 | 4,501,207,604 | 3,998,560,683 |
| 2005 | 1,980,123,197 | 3,590,963,023 | 5,571,086,220 | 2,009,761,622 |
| 2006 | 1,220,925,646 | 4,593,363,014 | 5,814,288,660 | 2,906,477,147 |
| 2007 | 3,410,971,211 | 3,093,844,291 | 6,504,815,502 | 3,750,533,826 |
| 2008 | 2,226,415,154 | 6,645,269,524 | 8,871,684,678 | 3,758,413,305 |
| 2009 | 1,602,235,563 | 8,147,622,064 | 9,749,857,627 | 3,538,959,207 |
| 2010 | 1,371,340,640 | 8,306,136,793 | 9,677,477,433 | 3,272,949,991 |
| 2011 | 1,445,288,111 | 7,023,102,124 | 8,468,390,235 | 3,769,475,054 |
| 2012 | 2,020,379,768 | 7,099,511,758 | 9,119,891,526 | 3,714,161,274 |
| 2013 | 2,116,042,324 | 6,370,362,661 | 8,486,404,985 | 5,228,896,518 |
| 2014 | 2,716,235,709 | 7,066,434,775 | 9,782,670,484 | 4,733,946,043 |
| 2015 | 3,592,582,383 | 6,345,001,700 | 9,937,584,083 | 4,882,462,726 |
| 2016 | 3,606,100,824 | 6,232,460,089 | 9,838,560,913 | 5,072,554,189 |
| 2017 | 3,217,809,787 | 7,426,853,098 | 10,644,662,885 | 5,403,032,157 |
| 2018 | 3,539,827,672 | 7,700,438,456 | 11,240,266,128 | 5,708,426,316 |
| 2019 | 3,360,306,270 | 8,532,661,236 | 11,892,967,506 | 5,941,294,414 |
| 2020 | 2,812,343,657 | 14,473,814,179 | 17,286,157,836 | 3,928,558,582 |

Selected Data from Statement of Financial Position of The Erawan Group

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2000 | 2,485,428,284 | 52,952,621 | 470,932,803 | 19,557,791 | 2,538,380,905 |
| 2001 | 2,803,060,217 | 82,693,680 | 341,491,665 | -242,319,117 | 2,885,753,897 |
| 2002 | 3,008,669,630 | 75,860,964 | 249,578,191 | 116,550,379 | 3,084,530,594 |
| 2003 | 2,468,151,375 | 124,249,955 | 138,565,286 | 315,508,469 | 2,592,401,330 |
| 2004 | 2,488,104,413 | 51,769,038 | 114,147,824 | 339,198,017 | 2,539,873,451 |
| 2005 | 2,858,278,277 | 42,923,138 | 154,241,197 | 314,004,021 | 2,901,201,415 |
| 2006 | 3,330,922,097 | 54,042,336 | 222,682,555 | 478,630,962 | 3,384,964,433 |
| 2007 | 3,194,350,026 | 197,047,329 | 221,318,189 | 464,282,446 | 3,391,397,355 |
| 2008 | 3,375,977,058 | 36,983,268 | 273,872,602 | 139,580,027 | 3,412,960,326 |
| 2009 | 3,149,033,071 | 42,589,981 | 306,846,197 | -197,291,982 | 3,191,623,052 |
| 2010 | 3,321,247,579 | 43,080,677 | 360,761,571 | -259,303,698 | 3,364,328,256 |
| 2011 | 3,755,543,843 | 731,687,896 | 406,682,214 | 530,214,936 | 4,487,231,739 |
| 2012 | 4,302,248,101 | 61,511,628 | 393,292,080 | 166,764,307 | 4,363,759,729 |
| 2013 | 4,702,359,465 | 894,597,866 | 368,139,864 | 966,391,697 | 5,596,957,331 |
| 2014 | 4,284,512,637 | 69,576,181 | 359,865,405 | -110,459,387 | 4,354,088,818 |
| 2015 | 5,254,917,620 | 45,756,305 | 386,831,736 | 230,316,512 | 5,300,673,925 |
| 2016 | 5,624,173,311 | 39,775,864 | 362,081,245 | 407,736,026 | 5,663,949,175 |
| 2017 | 5,995,626,958 | 54,828,984 | 343,671,564 | 565,016,820 | 6,050,455,942 |
| 2018 | 6,260,170,592 | 47,505,100 | 360,336,075 | 593,186,373 | 6,307,675,692 |
| 2019 | 6,379,074,589 | 59,998,095 | 401,639,622 | 502,750,230 | 6,439,072,684 |
| 2020 | 2,306,009,584 | 42,451,982 | 536,117,916 | -1,778,582,519 | 2,348,461,566 |

5. Raw Data of Grande Asset Hotels and Property During 2003-2020

Selected Data from Statement of Financial Position of Grande Asset Hotels and Property

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|----------------|
| 2003 | 96,091,930 | 3,891,544,028 | 3,987,635,958 |
| 2004 | 2,083,795,061 | 4,811,275,754 | 6,895,070,815 |
| 2005 | 2,820,336,070 | 5,432,861,738 | 8,253,197,808 |
| 2006 | 3,542,864,485 | 6,391,187,635 | 9,934,052,120 |
| 2007 | 3,264,817,604 | 5,093,576,099 | 8,358,393,703 |
| 2008 | 2,041,106,642 | 5,299,422,762 | 7,340,529,404 |
| 2009 | 1,747,267,360 | 5,115,955,572 | 6,863,222,932 |
| 2010 | 1,618,249,209 | 5,062,975,731 | 6,681,224,940 |
| 2011 | 1,652,222,410 | 4,957,483,390 | 6,609,705,800 |
| 2012 | 2,093,031,175 | 4,881,313,359 | 6,974,344,534 |
| 2013 | 3,615,310,721 | 4,273,351,293 | 7,888,662,014 |
| 2014 | 1,676,068,981 | 3,852,468,052 | 5,528,537,033 |
| 2015 | 1,935,705,560 | 3,947,774,450 | 5,883,480,010 |
| 2016 | 2,689,902,123 | 4,999,450,424 | 7,689,352,547 |
| 2017 | 4,332,293,319 | 4,952,508,784 | 9,284,802,103 |
| 2018 | 3,945,202,524 | 9,731,763,311 | 13,676,965,835 |
| 2019 | 3,444,120,016 | 11,080,703,184 | 14,524,823,200 |
| 2020 | 2,735,949,006 | 10,771,814,937 | 13,507,763,943 |

**Selected Data from Statement of Financial Position of Grande Asset Hotels
and Property**

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2003 | 313,823,027 | 2,068,037,597 | 2,381,860,624 | 1,605,775,334 |
| 2004 | 1,277,193,745 | 3,354,158,280 | 4,631,352,025 | 2,263,718,790 |
| 2005 | 4,056,973,039 | 1,700,324,147 | 5,757,297,186 | 2,495,900,622 |
| 2006 | 4,007,535,987 | 2,186,068,755 | 6,193,604,742 | 3,740,447,378 |
| 2007 | 2,471,846,878 | 4,932,953,051 | 7,404,799,929 | 953,593,774 |
| 2008 | 1,105,954,534 | 5,533,539,941 | 6,639,494,475 | 701,034,929 |
| 2009 | 1,183,065,578 | 5,523,372,322 | 6,706,437,900 | 156,785,032 |
| 2010 | 3,202,878,130 | 2,588,198,480 | 5,791,076,610 | 890,148,330 |
| 2011 | 1,547,531,719 | 2,578,122,588 | 4,125,654,307 | 2,484,051,493 |
| 2012 | 3,779,215,798 | 842,625,069 | 4,621,840,867 | 2,352,503,667 |
| 2013 | 2,531,264,442 | 2,927,182,620 | 5,458,447,062 | 2,430,214,952 |
| 2014 | 1,363,864,947 | 1,132,446,443 | 2,496,311,390 | 3,032,225,643 |
| 2015 | 1,961,118,681 | 1,026,098,384 | 2,987,217,065 | 2,896,262,945 |
| 2016 | 1,843,000,433 | 2,944,194,112 | 4,787,194,545 | 2,902,158,002 |
| 2017 | 2,584,529,355 | 3,077,067,140 | 5,661,596,495 | 3,623,205,608 |
| 2018 | 2,788,913,128 | 6,326,451,528 | 9,115,364,656 | 4,561,601,179 |
| 2019 | 2,888,164,061 | 7,476,203,796 | 10,364,367,857 | 4,160,455,343 |
| 2020 | 3,891,751,242 | 6,504,769,844 | 10,396,521,086 | 3,111,242,857 |

**Selected Data from Statement of Financial Position of Grande Asset Hotels and
Property**

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2003 | 346,449,468 | 42,257,293 | 82,904,797 | -26,470,674 | 388,706,761 |
| 2004 | 861,823,615 | 32,081,551 | 97,515,360 | 130,148,203 | 893,905,166 |
| 2005 | 1,653,910,089 | 42,585,609 | 120,404,882 | 47,344,188 | 1,696,495,698 |
| 2006 | 2,540,187,332 | 63,306,429 | 127,871,756 | -104,044,887 | 2,603,493,761 |
| 2007 | 801,252,465 | 58,748,515 | 221,013,596 | -1,015,108,540 | 860,000,980 |
| 2008 | 1,813,318,583 | 55,703,666 | 281,160,293 | -252,558,845 | 1,869,022,249 |
| 2009 | 591,419,990 | 41,299,964 | 398,103,699 | -544,249,897 | 632,719,954 |
| 2010 | 687,110,297 | 38,864,576 | 378,047,363 | 733,363,298 | 725,974,873 |
| 2011 | 833,006,882 | 56,160,756 | 249,068,202 | 407,016,921 | 889,167,638 |
| 2012 | 938,207,063 | 55,516,832 | 178,821,147 | -416,522,592 | 993,723,895 |
| 2013 | 1,206,936,116 | 93,097,997 | 134,828,438 | -13,682,563 | 1,300,034,113 |
| 2014 | 4,868,276,349 | 59,362,285 | 169,548,480 | 602,010,691 | 4,927,638,634 |
| 2015 | 1,338,909,086 | 47,159,005 | 80,436,106 | -120,478,764 | 1,386,068,091 |
| 2016 | 1,399,503,753 | 54,351,101 | 79,729,095 | 5,895,057 | 1,453,854,854 |
| 2017 | 2,300,316,464 | 62,044,940 | 84,100,428 | 723,050,438 | 2,362,361,404 |
| 2018 | 3,338,078,453 | 380,362,267 | 267,210,698 | 283,625,291 | 3,718,440,720 |
| 2019 | 2,973,039,054 | 168,483,449 | 497,580,531 | -302,176,104 | 3,141,522,503 |
| 2020 | 999,794,187 | 144,451,457 | 546,883,269 | -1,041,141,017 | 1,144,245,644 |

6. Raw Data of Laguna Resorts & Hotels During 2000-2020

Selected Data from Statement of Financial Position of Laguna Resorts & Hotels

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|----------------|
| 2000 | 1,185,959,394 | 6,911,506,468 | 8,097,465,862 |
| 2001 | 1,410,690,143 | 6,589,710,449 | 8,000,400,592 |
| 2002 | 1,075,528,001 | 7,422,909,312 | 8,498,437,313 |
| 2003 | 1,341,918,397 | 7,376,460,394 | 8,718,378,791 |
| 2004 | 1,772,951,176 | 7,737,476,571 | 9,510,427,747 |
| 2005 | 2,079,331,323 | 10,538,727,595 | 12,618,058,918 |
| 2006 | 3,410,689,468 | 11,497,131,899 | 14,907,821,367 |
| 2007 | 4,743,665,191 | 20,270,172,995 | 25,013,838,186 |
| 2008 | 3,506,793,309 | 21,432,462,316 | 24,939,255,625 |
| 2009 | 3,474,570,557 | 18,276,186,920 | 21,750,757,477 |
| 2010 | 5,562,882,111 | 16,480,239,664 | 22,043,121,775 |
| 2011 | 3,930,561,341 | 15,333,936,477 | 19,264,497,818 |
| 2012 | 3,808,151,386 | 15,596,772,648 | 19,404,924,034 |
| 2013 | 4,702,981,118 | 13,344,517,197 | 18,047,498,315 |
| 2014 | 5,180,350,985 | 13,533,747,293 | 18,714,098,278 |
| 2015 | 5,699,388,541 | 14,391,883,249 | 20,091,271,790 |
| 2016 | 5,166,100,610 | 15,559,247,645 | 20,725,348,255 |
| 2017 | 5,965,012,094 | 14,918,695,653 | 20,883,707,747 |
| 2018 | 5,439,954,077 | 15,392,357,523 | 20,832,311,600 |
| 2019 | 6,015,027,145 | 17,511,289,902 | 23,526,317,047 |
| 2020 | 5,849,456,567 | 17,021,726,331 | 22,871,182,898 |

**Selected Data from Statement of Financial Position of Laguna Resorts &
Hotels**

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 931,019,250 | 646,813,270 | 1,577,832,520 | 6,519,633,342 |
| 2001 | 1,021,270,193 | 603,117,727 | 1,624,387,920 | 6,376,012,672 |
| 2002 | 1,156,762,017 | 925,047,621 | 2,081,809,638 | 6,416,627,675 |
| 2003 | 1,330,967,792 | 732,364,087 | 2,063,331,879 | 6,655,046,912 |
| 2004 | 1,266,274,578 | 443,171,285 | 1,709,445,863 | 7,800,981,884 |
| 2005 | 2,291,111,953 | 2,737,838,501 | 5,028,950,454 | 7,589,108,464 |
| 2006 | 2,773,515,945 | 3,552,654,940 | 6,326,170,885 | 8,581,650,482 |
| 2007 | 3,535,797,341 | 2,570,947,861 | 6,106,745,202 | 18,907,092,984 |
| 2008 | 2,998,954,294 | 2,216,000,512 | 5,214,954,806 | 19,724,300,819 |
| 2009 | 2,879,595,291 | 2,048,250,477 | 4,927,845,768 | 16,822,911,709 |
| 2010 | 2,447,530,393 | 2,046,777,813 | 4,494,308,206 | 17,548,813,569 |
| 2011 | 2,340,811,002 | 2,334,593,131 | 4,675,404,133 | 14,589,093,685 |
| 2012 | 1,611,476,566 | 3,118,950,987 | 4,730,427,553 | 14,674,496,481 |
| 2013 | 1,882,323,191 | 4,763,182,578 | 6,645,505,769 | 11,401,992,546 |
| 2014 | 3,218,382,311 | 4,088,084,906 | 7,306,467,217 | 11,407,631,061 |
| 2015 | 2,733,382,629 | 5,682,717,503 | 8,416,100,132 | 11,675,171,658 |
| 2016 | 2,524,760,500 | 5,515,285,421 | 8,040,045,921 | 12,685,302,334 |
| 2017 | 3,468,472,292 | 4,754,557,277 | 8,223,029,569 | 12,660,678,178 |
| 2018 | 3,290,756,361 | 4,868,719,059 | 8,159,475,420 | 12,672,836,180 |
| 2019 | 4,448,566,674 | 6,865,178,913 | 11,313,745,587 | 12,212,571,460 |
| 2020 | 4,556,017,208 | 7,563,052,617 | 12,119,069,825 | 10,752,113,073 |

Selected Data from Statement of Financial Position of Laguna Resorts & Hotels

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2000 | 2,773,423,104 | 39,005,684 | 93,747,892 | 565,718,607 | 2,812,428,788 |
| 2001 | 2,941,844,057 | 59,220,862 | 66,870,961 | 504,747,079 | 3,001,064,919 |
| 2002 | 2,835,140,499 | 33,748,865 | 78,663,343 | 229,420,902 | 2,868,889,364 |
| 2003 | 2,984,652,377 | 74,484,684 | 57,169,203 | 562,483,906 | 3,059,137,061 |
| 2004 | 3,855,410,495 | 104,041,243 | 39,813,346 | 1,005,210,797 | 3,959,451,738 |
| 2005 | 3,156,534,933 | 49,343,840 | 138,102,723 | -22,151,209 | 3,205,878,773 |
| 2006 | 5,998,388,630 | 157,263,243 | 202,055,630 | 1,134,751,619 | 6,155,651,873 |
| 2007 | 7,000,336,223 | 136,845,201 | 220,658,513 | 1,366,548,618 | 7,137,181,424 |
| 2008 | 6,509,245,400 | 403,072,111 | 185,805,055 | 1,172,148,205 | 6,912,317,511 |
| 2009 | 3,900,713,636 | 108,059,936 | 159,036,695 | 164,339,979 | 4,008,773,572 |
| 2010 | 3,824,789,236 | 2,412,635,751 | 132,210,452 | 1,463,516,851 | 6,237,424,987 |
| 2011 | 3,460,572,615 | 137,448,398 | 132,157,254 | -184,660,236 | 3,598,021,013 |
| 2012 | 4,149,792,533 | 149,486,910 | 179,887,551 | 58,557,927 | 4,299,279,443 |
| 2013 | 4,261,417,515 | 91,017,516 | 180,457,409 | 116,638,116 | 4,352,435,031 |
| 2014 | 3,945,564,636 | 70,860,919 | 162,075,264 | 21,222,897 | 4,016,425,555 |
| 2015 | 5,543,523,892 | 114,705,625 | 166,147,594 | 176,433,321 | 5,658,229,517 |
| 2016 | 4,880,276,792 | 461,380,608 | 190,195,577 | 377,788,023 | 5,341,657,400 |
| 2017 | 4,679,687,766 | 177,876,349 | 176,782,230 | 63,108,422 | 4,857,564,115 |
| 2018 | 5,378,257,113 | 101,404,100 | 158,178,352 | 75,573,980 | 5,479,661,213 |
| 2019 | 6,015,604,738 | 142,215,981 | 132,252,130 | 358,205,403 | 6,157,820,719 |
| 2020 | 2,815,290,024 | 70,756,783 | 234,822,190 | -968,214,576 | 2,886,046,807 |

7. Raw Data of OHTL During 2000-2020

Selected Data from Statement of Financial Position of OHTL

| Year | Current Assets | Non-Current Asset | Total Asset |
|-------------|-----------------------|--------------------------|--------------------|
| 2000 | 270,230,834 | 1,475,442,839 | 1,745,673,673 |
| 2001 | 223,371,779 | 1,930,934,413 | 2,154,306,192 |
| 2002 | 396,974,319 | 1,832,116,190 | 2,229,090,509 |
| 2003 | 341,746,173 | 1,918,100,107 | 2,259,846,280 |
| 2004 | 396,176,125 | 1,972,387,068 | 2,368,563,193 |
| 2005 | 278,612,878 | 2,379,067,383 | 2,657,680,261 |
| 2006 | 289,878,381 | 2,421,011,922 | 2,710,890,303 |
| 2007 | 705,608,211 | 2,083,447,363 | 2,789,055,574 |
| 2008 | 636,953,853 | 2,072,740,434 | 2,709,694,287 |
| 2009 | 631,038,021 | 1,987,723,879 | 2,618,761,900 |
| 2010 | 195,524,052 | 2,247,738,702 | 2,443,262,754 |
| 2011 | 213,085,975 | 2,087,020,733 | 2,300,106,708 |
| 2012 | 421,122,701 | 1,983,976,014 | 2,405,098,715 |
| 2013 | 412,725,509 | 1,568,314,065 | 1,981,039,574 |
| 2014 | 326,458,130 | 1,491,887,785 | 1,818,345,915 |
| 2015 | 252,124,463 | 1,750,672,545 | 2,002,797,008 |
| 2016 | 314,923,378 | 1,819,988,874 | 2,134,912,252 |
| 2017 | 248,117,232 | 1,641,717,305 | 1,889,834,537 |
| 2018 | 265,358,823 | 1,603,012,838 | 1,868,371,661 |
| 2019 | 296,669,563 | 2,904,591,205 | 3,201,260,768 |
| 2020 | 245,525,959 | 6,496,548,461 | 6,742,074,420 |

Selected Data from Statement of Financial Position of OHTL

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 716,865,206 | 95,124,818 | 811,990,024 | 933,683,649 |
| 2001 | 889,733,429 | 286,322,597 | 1,176,056,026 | 978,250,166 |
| 2002 | 470,262,220 | 700,471,392 | 1,170,733,612 | 1,058,356,897 |
| 2003 | 543,417,610 | 677,596,999 | 1,221,014,609 | 1,038,831,671 |
| 2004 | 962,762,168 | 90,314,454 | 1,053,076,622 | 1,315,486,571 |
| 2005 | 590,209,237 | 712,772,183 | 1,302,981,420 | 1,354,698,841 |
| 2006 | 569,949,525 | 725,528,149 | 1,295,477,674 | 1,415,412,629 |
| 2007 | 917,331,346 | 443,950,138 | 1,361,281,484 | 1,427,774,090 |
| 2008 | 1,188,906,032 | 164,549,526 | 1,353,455,558 | 1,356,238,729 |
| 2009 | 592,554,586 | 822,194,418 | 1,414,749,004 | 1,204,012,896 |
| 2010 | 564,527,237 | 698,746,494 | 1,263,273,731 | 1,179,989,023 |
| 2011 | 440,862,109 | 723,276,425 | 1,164,138,534 | 1,135,968,174 |
| 2012 | 413,174,282 | 695,427,059 | 1,108,601,341 | 1,296,497,374 |
| 2013 | 805,713,318 | 256,390,407 | 1,062,103,725 | 918,935,849 |
| 2014 | 378,653,768 | 616,379,160 | 995,032,928 | 823,312,987 |
| 2015 | 597,900,313 | 627,979,765 | 1,225,880,078 | 776,916,930 |
| 2016 | 694,067,989 | 703,705,174 | 1,397,773,163 | 737,139,089 |
| 2017 | 470,695,807 | 655,009,654 | 1,125,705,461 | 764,129,076 |
| 2018 | 426,295,601 | 654,239,657 | 1,080,535,258 | 787,836,403 |
| 2019 | 848,757,989 | 2,088,747,105 | 2,937,505,094 | 263,755,674 |
| 2020 | 1,184,372,319 | 3,434,060,769 | 4,618,433,088 | 2,123,641,332 |

Selected Data from Statement of Financial Position of OHTL

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2000 | 1,782,566,481 | 6,552,102 | 3,759,305 | 338,636,358 | 1,789,118,583 |
| 2001 | 1,795,763,373 | 3,799,213 | 14,387,954 | 316,566,517 | 1,799,562,586 |
| 2002 | 1,901,192,295 | 3,807,928 | 51,272,448 | 320,106,731 | 1,905,000,223 |
| 2003 | 1,645,740,131 | 3,071,044 | 50,441,534 | 204,474,774 | 1,648,811,175 |
| 2004 | 1,994,289,997 | 21,346,603 | 44,189,550 | 365,509,499 | 2,015,636,600 |
| 2005 | 2,061,729,266 | 23,176,450 | 34,498,894 | 365,993,221 | 2,084,905,716 |
| 2006 | 2,274,499,783 | 44,540,679 | 48,133,905 | 412,713,788 | 2,319,040,462 |
| 2007 | 2,330,590,363 | 40,771,214 | 41,366,585 | 380,361,461 | 2,371,361,577 |
| 2008 | 2,336,191,035 | 35,495,477 | 33,971,162 | 328,435,839 | 2,371,686,512 |
| 2009 | 1,851,130,277 | -25,793,568 | 34,939,506 | 135,774,167 | 1,825,336,709 |
| 2010 | 1,814,412,131 | -24,525,168 | 19,998,733 | 103,998,867 | 1,789,886,963 |
| 2011 | 1,919,551,750 | 29,763,607 | 20,833,452 | 129,688,938 | 1,949,315,357 |
| 2012 | 2,243,905,002 | 34,337,091 | 21,383,050 | 307,011,125 | 2,278,242,093 |
| 2013 | 2,282,136,956 | 62,581,684 | 18,412,336 | 347,530,075 | 2,344,718,640 |
| 2014 | 1,914,633,548 | 6,081,422 | 13,901,089 | 175,206,538 | 1,920,714,970 |
| 2015 | 1,918,459,982 | 4,438,575 | 11,846,659 | 166,033,343 | 1,922,898,557 |
| 2016 | 2,045,006,370 | 2,959,693 | 16,206,222 | 152,665,659 | 2,047,966,063 |
| 2017 | 2,129,072,320 | 4,846,954 | 14,946,973 | 215,948,787 | 2,133,919,274 |
| 2018 | 2,205,345,848 | 3,646,803 | 8,794,722 | 259,734,527 | 2,208,992,651 |
| 2019 | 1,301,172,310 | 9,721,299 | 24,861,771 | -370,918,113 | 1,310,893,609 |
| 2020 | 913,661,400 | 477,115 | 76,830,171 | -480,121,075 | 914,138,515 |

8. Raw Data of Royal Orchid Hotel (Thailand) During 2000-2020

Selected Data from Statement of Financial Position of Royal Orchid Hotel (Thailand)

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|---------------|
| 2000 | 563,598,356 | 804,366,340 | 1,367,964,696 |
| 2001 | 481,149,306 | 866,983,769 | 1,348,133,075 |
| 2002 | 599,367,972 | 913,541,253 | 1,512,909,225 |
| 2003 | 366,020,346 | 962,253,645 | 1,328,273,991 |
| 2004 | 586,222,656 | 963,566,552 | 1,549,789,208 |
| 2005 | 670,158,450 | 916,194,136 | 1,586,352,586 |
| 2006 | 731,603,250 | 917,784,426 | 1,649,387,676 |
| 2007 | 533,136,680 | 925,873,719 | 1,459,010,399 |
| 2008 | 451,006,144 | 1,209,119,296 | 1,660,125,440 |
| 2009 | 262,550,277 | 1,723,182,231 | 1,985,732,508 |
| 2010 | 171,905,123 | 1,527,371,187 | 1,699,276,310 |
| 2011 | 141,666,728 | 1,291,567,002 | 1,433,233,730 |
| 2012 | 143,167,978 | 1,069,486,904 | 1,212,654,882 |
| 2013 | 113,253,996 | 1,029,015,583 | 1,142,269,579 |
| 2014 | 110,925,818 | 826,123,048 | 937,048,866 |
| 2015 | 254,789,962 | 728,926,104 | 983,716,066 |
| 2016 | 426,255,594 | 657,838,386 | 1,084,093,980 |
| 2017 | 565,535,576 | 577,331,036 | 1,142,866,612 |
| 2018 | 667,552,820 | 498,703,036 | 1,166,255,856 |
| 2019 | 767,113,817 | 455,646,610 | 1,222,760,427 |
| 2020 | 341,353,961 | 574,186,463 | 915,540,424 |

**Selected Data from Statement of Financial Position of Royal Orchid Hotel
(Thailand)**

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 150,687,084 | 1,601,256 | 152,288,340 | 1,215,676,356 |
| 2001 | 144,145,370 | 4,329,632 | 148,475,002 | 1,199,658,073 |
| 2002 | 250,071,037 | 3,955,804 | 254,026,841 | 1,258,882,384 |
| 2003 | 150,207,219 | 0 | 150,207,219 | 1,178,066,772 |
| 2004 | 212,843,623 | 0 | 212,843,623 | 1,336,945,585 |
| 2005 | 201,195,954 | 0 | 201,195,954 | 1,385,156,632 |
| 2006 | 194,273,353 | 0 | 194,273,353 | 1,455,114,323 |
| 2007 | 161,337,835 | 0 | 161,337,835 | 1,297,672,564 |
| 2008 | 162,055,652 | 0 | 162,055,652 | 1,498,069,788 |
| 2009 | 478,160,538 | 228,069,644 | 706,230,182 | 1,279,502,326 |
| 2010 | 512,199,917 | 140,466,540 | 652,666,457 | 1,046,609,853 |
| 2011 | 517,432,015 | 49,911,279 | 567,343,294 | 865,890,436 |
| 2012 | 372,634,274 | 28,590,637 | 401,224,911 | 811,429,971 |
| 2013 | 231,184,818 | 29,235,949 | 260,420,767 | 881,848,812 |
| 2014 | 209,095,920 | 46,469,050 | 255,564,970 | 681,483,896 |
| 2015 | 169,563,056 | 49,408,965 | 218,972,021 | 764,744,045 |
| 2016 | 166,576,269 | 50,820,803 | 217,397,072 | 866,696,908 |
| 2017 | 176,402,722 | 58,378,384 | 234,781,106 | 908,085,506 |
| 2018 | 167,649,963 | 58,917,575 | 226,567,538 | 939,688,318 |
| 2019 | 188,145,407 | 80,044,110 | 268,189,517 | 954,570,910 |
| 2020 | 98,933,180 | 153,354,304 | 252,287,484 | 663,252,940 |

**Selected Data from Statement of Financial Position of Royal Orchid Hotel
(Thailand)**

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2000 | 783,562,754 | 11,305,653 | | 164,238,015 | 794,868,407 |
| 2001 | 829,871,780 | 5,781,168 | 6,598 | 143,356,717 | 835,652,948 |
| 2002 | 926,524,317 | 5,233,437 | 0 | 188,599,311 | 931,757,754 |
| 2003 | 721,600,420 | 4,676,398 | 0 | 88,871,888 | 726,276,818 |
| 2004 | 1,085,186,094 | 4,065,772 | 0 | 239,503,813 | 1,089,251,866 |
| 2005 | 1,136,918,698 | 8,751,610 | 0 | 263,836,047 | 1,145,670,308 |
| 2006 | 1,214,675,967 | 22,460,286 | 0 | 307,145,191 | 1,237,136,253 |
| 2007 | 1,133,793,512 | 19,304,537 | 0 | 238,167,241 | 1,153,098,049 |
| 2008 | 1,078,355,297 | 12,463,613 | 0 | 213,520,824 | 1,090,818,910 |
| 2009 | 598,488,535 | 2,603,199 | 413,862 | -114,819,673 | 601,091,734 |
| 2010 | 600,319,966 | 928,500 | 17,120,458 | -232,892,473 | 601,248,466 |
| 2011 | 681,061,746 | 1,385,434 | 19,490,335 | -180,719,417 | 682,447,180 |
| 2012 | 846,305,001 | 965,202 | 14,585,983 | -54,445,921 | 847,270,203 |
| 2013 | 891,639,887 | 864,941 | 6,539,651 | -14,216,041 | 892,504,828 |
| 2014 | 665,892,701 | 660,559 | 3,430,163 | -144,120,916 | 666,553,260 |
| 2015 | 850,559,880 | 1,300,925 | 549,523 | 83,260,149 | 851,860,805 |
| 2016 | 863,661,206 | 3,634,212 | 150,867 | 106,363,880 | 867,295,418 |
| 2017 | 893,745,060 | 5,550,707 | 43,185 | 127,342,271 | 899,295,767 |
| 2018 | 936,696,324 | 6,824,074 | 0 | 141,747,504 | 943,520,398 |
| 2019 | 977,948,441 | 8,574,915 | 28,380 | 147,363,378 | 986,523,356 |
| 2020 | 240,849,603 | 4,666,544 | 8,143,041 | -154,654,155 | 245,516,147 |

9. Raw Data of Shangri-La Hotel During 2000-2020

Selected Data from Statement of Financial Position of Shangri-La Hotel

| Year | Current Assets | Non-Current Asset | Total Asset |
|------|----------------|-------------------|---------------|
| 2000 | 1,055,653,854 | 3,962,173,562 | 5,017,827,416 |
| 2001 | 704,473,595 | 3,560,180,037 | 4,264,653,632 |
| 2002 | 728,304,947 | 4,024,042,495 | 4,752,347,442 |
| 2003 | 837,389,461 | 4,045,415,620 | 4,882,805,081 |
| 2004 | 1,196,278,025 | 4,143,306,837 | 5,339,584,862 |
| 2005 | 1,654,084,687 | 4,223,837,980 | 5,877,922,667 |
| 2006 | 1,793,752,647 | 4,674,026,087 | 6,467,778,734 |
| 2007 | 1,113,348,098 | 5,943,437,085 | 7,056,785,183 |
| 2008 | 868,227,286 | 5,158,270,668 | 6,026,497,954 |
| 2009 | 848,060,229 | 5,735,466,665 | 6,583,526,894 |
| 2010 | 473,847,544 | 6,120,654,653 | 6,594,502,197 |
| 2011 | 594,268,250 | 5,358,869,928 | 5,953,138,178 |
| 2012 | 1,067,604,975 | 4,943,323,316 | 6,010,928,291 |
| 2013 | 2,237,514,724 | 5,104,812,530 | 7,342,327,254 |
| 2014 | 2,914,023,294 | 4,773,786,467 | 7,687,809,761 |
| 2015 | 3,605,869,273 | 4,802,893,816 | 8,408,763,089 |
| 2016 | 3,675,761,932 | 4,973,980,247 | 8,649,742,179 |
| 2017 | 3,675,761,932 | 4,973,980,247 | 8,649,742,179 |
| 2018 | 4,328,634,125 | 4,927,687,934 | 9,256,322,059 |
| 2019 | 3,350,002,437 | 5,926,761,591 | 9,276,764,028 |
| 2020 | 2,380,025,297 | 5,298,647,766 | 7,678,673,063 |

Selected Data from Statement of Financial Position of Shangri-La Hotel

| Year | Current Liabilities | Non-Current Liabilities | Total Liabilities | Owner's Equities |
|-------------|----------------------------|--------------------------------|--------------------------|-------------------------|
| 2000 | 388,243,715 | 15,114,710 | 403,358,425 | 4,614,468,991 |
| 2001 | 344,366,750 | 10,753,046 | 355,119,796 | 3,909,533,836 |
| 2002 | 516,723,200 | 76,870,197 | 593,593,397 | 4,158,754,045 |
| 2003 | 482,972,198 | 78,967,436 | 561,939,634 | 4,320,865,447 |
| 2004 | 391,765,527 | 80,795,001 | 472,560,528 | 4,867,024,334 |
| 2005 | 441,944,056 | 80,898,786 | 522,842,842 | 5,355,079,825 |
| 2006 | 626,733,493 | 81,895,560 | 708,629,053 | 5,759,149,681 |
| 2007 | 859,309,267 | 83,068,604 | 942,377,871 | 6,114,407,312 |
| 2008 | 474,946,720 | 81,220,687 | 556,167,407 | 5,470,330,547 |
| 2009 | 887,262,146 | 279,063,215 | 1,166,325,361 | 5,417,201,533 |
| 2010 | 1,039,408,448 | 209,811,447 | 1,249,219,895 | 5,345,282,302 |
| 2011 | 1,045,714,125 | 179,096,075 | 1,224,810,200 | 4,728,327,978 |
| 2012 | 1,129,641,951 | 52,314,023 | 1,181,955,974 | 4,828,972,317 |
| 2013 | 493,287,600 | 68,735,974 | 562,023,574 | 6,780,303,680 |
| 2014 | 421,979,624 | 72,039,248 | 494,018,872 | 7,193,790,889 |
| 2015 | 519,769,658 | 77,184,220 | 596,953,878 | 7,811,809,211 |
| 2016 | 488,597,652 | 81,866,311 | 570,463,963 | 8,079,278,216 |
| 2017 | 488,597,652 | 81,866,311 | 570,463,963 | 8,079,278,216 |
| 2018 | 570,797,942 | 88,314,650 | 659,112,592 | 8,597,209,467 |
| 2019 | 523,511,883 | 111,856,998 | 635,368,881 | 8,641,395,147 |
| 2020 | 188,920,220 | 108,747,039 | 297,667,259 | 7,381,005,804 |

Selected Data from Statement of Financial Position of Shangri-La Hotel

| Year | Sales | Other Income | Interest Expense | Net Profit | Total Revenue |
|-------------|---------------|-------------------------|-----------------------------|-------------------|--------------------------|
| 2000 | 1,555,852,601 | 77,006,126 | 6,897,513 | 117,845,860 | 1,632,858,727 |
| 2001 | 1,425,421,658 | 58,735,419 | 89,456 | 128,802,036 | 1,484,157,077 |
| 2002 | 1,459,399,398 | 47,367,690 | 2,055,769 | 429,773,612 | 1,506,767,088 |
| 2003 | 1,371,022,460 | 51,047,784 | 3,722,582 | 234,034,227 | 1,422,070,244 |
| 2004 | 1,874,061,439 | 58,216,228 | 2,371,114 | 431,627,224 | 1,932,277,667 |
| 2005 | 1,975,873,744 | 63,084,555 | 0 | 484,548,260 | 2,038,958,299 |
| 2006 | 2,048,172,831 | 106,288,413 | 0 | 551,652,647 | 2,154,461,244 |
| 2007 | 2,072,885,078 | 110,317,970 | 0 | 491,147,703 | 2,183,203,048 |
| 2008 | 1,856,482,949 | 112,684,709 | 355,104 | 306,221,372 | 1,969,167,658 |
| 2009 | 1,104,054,337 | 48,121,299 | 3,578,591 | -147,245,709 | 1,152,175,636 |
| 2010 | 1,263,380,104 | 55,386,622 | 24,275,786 | -147,828,009 | 1,318,766,726 |
| 2011 | 1,587,380,520 | 65,648,752 | 41,084,390 | -225,979,515 | 1,653,029,272 |
| 2012 | 2,065,387,570 | 56,376,378 | 10,361,857 | 99,858,536 | 2,121,763,948 |
| 2013 | 2,234,421,997 | 128,716,754 | 40,563,498 | 2,059,247,759 | 2,363,138,751 |
| 2014 | 1,882,665,641 | 162,655,615 | 0 | 887,103,984 | 2,045,321,256 |
| 2015 | 2,368,808,423 | 108,242,631 | 0 | 669,532,000 | 2,477,051,054 |
| 2016 | 2,203,303,753 | 133,621,533 | 0 | 585,966,587 | 2,336,925,286 |
| 2017 | 2,203,303,753 | 174,565,275 | 0 | 585,966,587 | 2,377,869,028 |
| 2018 | 2,398,672,934 | 138,968,887 | 0 | 557,758,367 | 2,537,641,821 |
| 2019 | 2,503,260,762 | 131,571,536 | 0 | 648,235,022 | 2,634,832,298 |
| 2020 | 651,656,818 | 62,248,265 | 197,573 | -981,891,436 | 713,905,083 |

APPENDIX 2

Result from STATA Program

1. Multiple Regression Analysis with Dummy Variables on Impact of Total Debt to Profitability

```
. reg np tdb cdb cr tat sg lta h1 h2 h3 h4 h5 h6 h7 h8 t
```

| Source | SS | df | MS | Number of obs = | 177 |
|----------|------------|-----|------------|-----------------|--------|
| Model | 62494.8181 | 15 | 4166.32121 | F(15, 161) = | 4.31 |
| Residual | 155783.941 | 161 | 967.602118 | Prob > F = | 0.0000 |
| | | | | R-squared = | 0.2863 |
| | | | | Adj R-squared = | 0.2198 |
| Total | 218278.759 | 176 | 1240.22022 | Root MSE = | 31.106 |

| np | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] |
|-------|-----------|-----------|-------|-------|----------------------|
| tdb | -.6964716 | .169177 | -4.12 | 0.000 | -1.030564 - .3623795 |
| cdb | .6094697 | 1.86632 | 0.33 | 0.744 | -3.076154 4.295093 |
| cr | -2.323454 | 2.05855 | -1.13 | 0.261 | -6.388696 1.741787 |
| tat | 80.25623 | 25.76036 | 3.12 | 0.002 | 29.38447 131.128 |
| sg | .1093008 | .0817926 | 1.34 | 0.183 | -.0522238 .2708255 |
| lta | 15.29614 | 10.08057 | 1.52 | 0.131 | -4.611049 35.20332 |
| h1 | -53.56809 | 21.35161 | -2.51 | 0.013 | -95.73342 -11.40276 |
| h2 | -40.46296 | 13.31453 | -3.04 | 0.003 | -66.75661 -14.16931 |
| h3 | -17.62791 | 13.46952 | -1.31 | 0.192 | -44.22762 8.971804 |
| h4 | -12.92533 | 10.93197 | -1.18 | 0.239 | -34.51387 8.663209 |
| h5 | -35.44908 | 14.91129 | -2.38 | 0.019 | -64.89603 -6.002139 |
| h6 | -35.72694 | 17.48756 | -2.04 | 0.043 | -70.26153 -1.19236 |
| h7 | -34.43336 | 19.04246 | -1.81 | 0.072 | -72.03856 3.17185 |
| h8 | -23.76051 | 14.88472 | -1.60 | 0.112 | -53.15496 5.633947 |
| t | -.7580552 | .5878165 | -1.29 | 0.199 | -1.91888 .4027696 |
| _cons | -308.931 | 229.9232 | -1.34 | 0.181 | -762.9852 145.1232 |

2. Multiple Regression Analysis with Dummy Variables on Impact of Short-Term and Long-Term Debt to Profitability

```
. reg np sdb ldb cdb cr tat sg lta h1 h2 h3 h4 h5 h6 h7 h8 t
```

| Source | SS | df | MS | Number of obs = | 177 |
|----------|------------|-----|------------|-----------------|--------|
| Model | 62546.7708 | 16 | 3909.17318 | F(16, 160) = | 4.02 |
| Residual | 155731.988 | 160 | 973.324927 | Prob > F = | 0.0000 |
| | | | | R-squared = | 0.2865 |
| | | | | Adj R-squared = | 0.2152 |
| Total | 218278.759 | 176 | 1240.22022 | Root MSE = | 31.198 |

| np | Coef. | Std. Err. | t | P> t | [95% Conf. Interval] |
|-------|-----------|-----------|-------|-------|----------------------|
| sdb | -.7733872 | .3736684 | -2.07 | 0.040 | -1.511346 -.0354288 |
| ldb | -.6799988 | .1840489 | -3.69 | 0.000 | -1.043477 -.3165203 |
| cdb | .6272086 | 1.873405 | 0.33 | 0.738 | -3.072582 4.326999 |
| cr | -2.475251 | 2.166656 | -1.14 | 0.255 | -6.754183 1.80368 |
| tat | 80.42105 | 25.84627 | 3.11 | 0.002 | 29.37721 131.4649 |
| sg | .1096901 | .0820514 | 1.34 | 0.183 | -.0523533 .2717336 |
| lta | 15.26425 | 10.11128 | 1.51 | 0.133 | -4.704528 35.23302 |
| h1 | -52.24762 | 22.16427 | -2.36 | 0.020 | -96.01988 -8.47537 |
| h2 | -39.08126 | 14.6319 | -2.67 | 0.008 | -67.97783 -10.18469 |
| h3 | -16.95228 | 13.8222 | -1.23 | 0.222 | -44.24976 10.3452 |
| h4 | -11.05763 | 13.62239 | -0.81 | 0.418 | -37.96051 15.84526 |
| h5 | -34.29751 | 15.76411 | -2.18 | 0.031 | -65.43008 -3.164937 |
| h6 | -34.05698 | 18.9703 | -1.80 | 0.074 | -71.52145 3.407501 |
| h7 | -32.81074 | 20.34915 | -1.61 | 0.109 | -72.99831 7.376831 |
| h8 | -22.359 | 16.11414 | -1.39 | 0.167 | -54.18284 9.464846 |
| t | -.7616751 | .5897604 | -1.29 | 0.198 | -1.926394 .4030436 |
| _cons | -308.3413 | 230.6163 | -1.34 | 0.183 | -763.7857 147.1032 |



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