TOPIC D: FINANCIAL STATEMENT ANALYSIS

MHE5402 ACCOUNTING AND FINANCIAL MANAGEMENT FOR EXECUTIVES

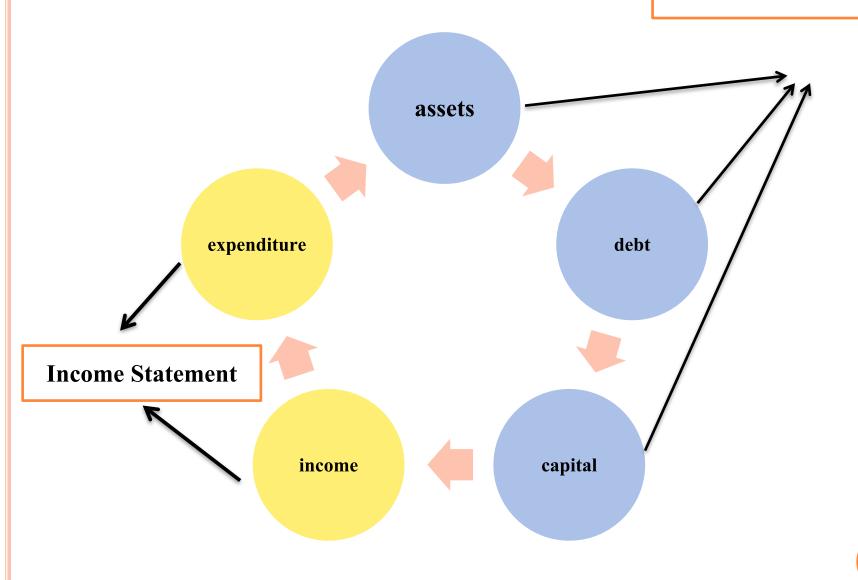
By Asst.Prof.Dr.Chumpon Rodjam 4/03/2023



PREAMBLE

- A financial statement of an entity is considered as a source of information that shows the financial information of the business about assets, liabilities, and equities.
- The financial statements, called income statements (comprehensive income statements), are information about the company's performance by detailing the company's income and expenses.
- Financial statements are financial information derived from the compilation of trades that occur during the year so that stakeholders can take advantage of the information available. To solve current business problems and to plan for future growth.

Financial Statements



THOSE INTERESTED IN ANALYZING THE RATIO



The company will pay attention to liquidity and interest payment capability of the business first, followed by interest in the profitability of the business, which creditors want to ensure that the business is stable and able to continue to operate with experience. The result was achieved with



Management & Shareholders Group

Pay attention to analysis from the same perspective, i.e. pay attention to the financial position of the business.

DATA SOURCES USED TO ANALYZE FINANCIAL STATEMENTS

- Ofinancial statements,
- Ocomprehensive income statements,
- **O**equity change statements,
- **Ocash flow statements**
- **Onotes to Financial Statements**



FINANCIAL INSTRUMENTS USED IN THE ANALYSIS OF FINANCIAL STATEMENTS

- 1. Basic Financial Statement Analysis
 - 1.1 Horizontal analysis
 - 1.2 Vertical analysis
- 2. Ratio analysis



HORIZONTAL ANALYSIS

year	ปีที่ 6	5	4	3	2	1
circulation	360,000	288,000	264,000	256,800	249,600	240,000
Net Profit	18,360	11,640	17,160	15,360	12,480	12,000

Analysis formula

Current year

(%)

Base year

year	ปีที่ 6	5	4	3	2	1
circulation	150%*	120%	110%	107%	104%	100%
Net Profit	153%**	97%	143%	128%	104%	100%



360,000 X 100 = 150%

240,000

××

18,360 X 100 = 153%

12,000



VERTICAL ANALYSIS

Wanchanok Public Company Limited
Financial Statements

As of December 31, 2011 and 25X2

(920 x 100) 3,000	25X2 Amount (Million Baht)	25X1 Amount (Million Baht)
Current assets		
cash	10	90
Securities in market demand	10	30
Accounts receivable	560	470
Inventories	920	620
Total current assets	1,500	1,210
Non-current assets		
Net non-current assets	1,500	1,305
Total assets	3,000	2,515

RATIO ANALYSIS

OFinancial ratios are a representation of the relationship between two numerical data from a business's financial statements.



TYPES OF FINANCIAL RATIOS

- Liquidity ratios
- Activity ratios or Asset management ratios
- O Leverage ratios or Debt management ratios
- O Profitability ratios
- Market value ratios

Wanchanok Public Company Limited Financial Statements As of December 31, 2011 and 25X2

	25X2	25X1
	Amount	Amount
	(Million Baht)	(Million Baht)
assets		
Current assets		
cash	10	90
Securities in market demand	10	30
Accounts receivable	560	470
Inventories	920	620
Total current assets	1,500	1,210
Non-current assets		
Net non-current assets	1,500	1,305
Total assets	3,000	2,515

Debt and I	Equity
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Current	1 14		11165
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Trade creditors	295	215
Bill of Arms	165	90
Accrued expenses	5	25
Total current liabilities	465	330
Long-term debt		
Long-term debentures	1,131	870
Total Liabilities	1,596	1,200
Equity		
Preferred Stock (600,000 shares)	35	60
Ordinary Shares (2,000,000 Shares)	200	200
Retained earnings	1,169	1,055
Total equity	1,404	1,315
Debt and equity included	3,000	2,515

Wanchanok Public Company Limited Income Statement

For the one-year period ended December 31, 2011 and 25X2

	25X2	25X1
	Amount	Amount
	(Million Baht)	(Million Baht)
Net Sales	4,500	4,275
break Cost of sales	2,616	2,422
Gross margin	1,884	1,853
break Operating expenses	1,500	1,500
Earnings before interest and taxes	384	353
Less interest	134	93
Profit before tax	250	260
Tax deduction (20%)	50	52
Profit after tax	200	208
Less preferred stock dividends	6	6
Ordinary equity profit	194	202
Less dividends on ordinary shares	80	60
Increased retained earnings	114	142

^{*}Depreciation is included in the cost of sales of 150 million baht.

1. LIQUIDITY RATIOS REFERS TO THE RATIOS USED TO MEASURE THE ABILITY TO PAY SHORT-TERM DEBTS ACCORDING TO THE OBLIGATIONS OF THE BUSINESS.

1.1 Working capital

Working Capital)

Current Assets – Current Liabilities (Baht)

Working Capital)

= 1,500 - 465 = 1,035 Million Baht



1.2 Current ratio

○1.3 Acid – test ratio or Quick ratio

Fast working capital ratio	=	Current Assets - Inventories	5
(Quick Ratio)	-Prepaid expenses		
		Current Liabilities	
อัตราส่วนเงินทุนหมุนเวียนเร็ว	=	1,500-920-0	=1.25 เท่า
(Quick Ratio)		465	•

2. ACTIVITY RATIOS OR ASSET MANAGEMENT RATIOS

OIt is a ratio that shows the effectiveness of managing a business's assets, such as managing receivables, inventories, as well as fixed assets. There are 4 types.

2.1 Account receivable turnover

Receivable turnover ratio	=	Trust sales per year	(Times)
(Account Receivable Turnover)		Average net receivables	-
Receivable turnover ratio (Account Receivable Turnover)	=	Net sales Average net receivables	(Times)
อัตราส่วนการหมุนเวียนของลูกหนี้ (Account Receivable Turnover)	=	4,500 (470+560) / 2	=8.74 ครั้ง

is the ability to collect debts from debtors? By figuring out how long debt is collected. as follows

2.2 Inventory turnover

(920+620)/2

(Inventory Turnover)

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The Average Days Sales Period (DSP) shows how many days a company has purchased a product before it sells a product. It can be calculated as follows:

Period of sale of inventories	=	360	(Day)
(Average Days Sales Period (DSP))	,	Turnover rate of inventories	•

O2.3 Fixed assets turnover

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2.4 Total assets turnover

3. LEVERAGE RATIOS OR DEBT MANAGEMENT RATIOS)

O 3.1 Debt to assets ratio

Debt to Asset Ratio	=	Total Liabilities	(%)
(Debt –to-Assets Ratio)	,	Total Assets	



อัตราส่วนหนี้สินต่อสินทรัพย์

O 3.2 Debt-to-equity ratio

O 3.3 Time Interest Earned (TIE)

Ability to pay interest	=	Earnings before interest	t and (times)
(Time Interest Earned (TIE))		taxes	
	_	Interest paid	
ความสามารถในการจ่ายดอกเบี้ย	=	384	= 2.87 เท่า
(Time Interest Earned (TIE))		134	_

4. PROFITABILITY RATIOS

4.1 RETURN ON SALES

4.1.1 NET PROFIT MARGIN



If the income statement contains dividends, preferred stock can be calculated as follows:

4.1.2 Gross profit margin

4.1.3 Operating profit margin

04.2 Return on Investment (ROI)

Return on investment = Net Profit (%)

(Return on Investment (ROI)) Investment assets

4.2.1 Return on Total Assets (ROA) is a ratio calculated by dividing earnings by total assets .

Return on total assets = Net Profit (%)

(Return on Total Assets (ROA)) Total Assets

○ 4.2.2 Return on Equity (ROE) or Return on Common Equity (ROCE)

5. MARKET VALUE RATIOS

- OIt is a ratio related to the share price of the company that delivers profits.
- **OEarning Per Share (EPS) or Basic Earning Per Share (BEPS)**

EPS	=	Ordinary equity profit	(Baht per
(Earning Per Share .EPS))			share)
		Number of issued ordinary shares	-



5.2 Price/Earnings Ratio (P/E)

Price/Earnings Ratio (P/E) = Market price per share (times)

EPS



LIMITATIONS OF FINANCIAL RATIOS

- **O1.** Ratio analysis is numerical analysis.
- **O2.** Correct and acceptable accounting methods
- **O**3. The end period of the financial statements of each business is different.
- **O4.** The analysis does not take into account the current value of money.

SUMMARIZE

O The financial statement of the business is considered as a source of information that shows the financial information of the business. Financial statements are financial information derived from the compilation of trades that occur during the year so that stakeholders can take advantage of the information available. To solve current business problems and to plan for future growth.

EXERCISE 6: FINANCIAL RATIO ANALYSIS

- O View the following financial statements and analyze the financial ratios:
- Current ratio
- Account receivable turnover
- O Debt to assets ratio
- OGross profit margin
- Return on total assets (ROA)

And explain what it means

DEADLINE

- **OExercise 6**
- Osend to chumpon.ro@ssru.ac.th
- OMarch 6, 2023