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Micro Influence on Earnings Management in the Basic and Chemical Industrial Sectors in Indonesia

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Abstract:

This study aims to analyze the influence of Micro Factors (DER, Sales Growth, ROA, Firm Size) On Earning Management in the Basic Industry and Chemical sector in 2015-2017. The method of determining the sample of this study was purposive sampling. In accordance with predetermination criteria, obtained a sample of 29 companies with an observation period of 3 years so that number of samples was 87 companies. The analysis technique used is the Fixed Effect Models. The result Showed that DER, Sales Growth and ROA did not affect earnings Management. Only Firm Size has a significant positive affect on Earning management.

Keywords: Earnings management, DER, sales growth, ROA, firm size

1. Introduction

1.1. Background

Financial Reports are information media that are used to connect parties interested in the company. The importance of financial statements is also disclosed that financial statements are a means to account for what is done by managers over the resources of the owner. The performance parameters of a company that gets the main attention from investors and creditors from financial statements are profit and cash flow. When faced with two measures of financial accounting performance, investors and creditors must be sure that the performance measures that are the focus of their attention are measures of performance that can better describe the economic condition of the company and prospects for growth in the future. Therefore, in addition to the two measures of performance, investors and creditors also need to consider the financial characteristics of each company. At present earnings management is a common phenomenon that occurs in a number of companies. Earnings management is a manager's intervention in the financial reporting process with the aim of making a profit, both for managers and companies. The process of preparing financial statements can be done by leveling, increasing and decreasing profits.

The Basic and Chemical Industry Sector represents the elements used in everyday life. Almost all items of daily life products are products of Basic Industry and Chemical. In the coming years the potential for skyrocketing property in the coming year can drive the performance of cement stocks to rise again. In its implementation the Basic and Chemical Industry Sector is divided into 7 Industrial sub-sectors, namely: 1. Cement Industry Sub-sector, 2. Ceramic and Porcelain Industry Sub-Sector, 3. Metal Industry Sub-Sector, 4. Chemical Industry Subsector, 5. Animal Feed Industry Sub-sector, 6. Sub-sector of Plastic and Packaging Industry, 7. Pulp and paper sub-sectors. Many companies in basic and chemical industries have created a fierce competition between basic and chemical industry companies. The development of the company in the basic industrial and chemical industry sectors in Indonesia both in the number and size of the company will have implications for increasingly high competition among companies. Companies are required to maintain and even improve performance in order to survive in times of crisis and competition. The basic industrial sector and chemistry do Profit Management by reducing profits every year. This is done for political and taxation motivations so that managers can develop their companies by reducing tax costs and not being the center of attention that will lead to high political costs. Basic industrial and chemical sector companies conduct profit management by reducing profits and manipulating financial statements so that they can affect retained earnings. In this case, management suppresses retained earnings so that assets owned by the company increase and are able to develop and increase company value. Identification of problems in this study are as follows: There is a tendency for companies that have a low Debt Equity Ratio (DER) ratio to practice Profit Management. Companies with low sales growth rates also motivate management in conducting profit management. The effectiveness of the company in generating influential profits from sales growth. The current condition of company

profitability can encourage management to do Profit Management to save its performance in the eyes of the owner. Large companies have a greater impetus to do earnings management companied to smaller companies because large companies are subject to inspection. A large company (Firm Size) has a goal to expand its business and increase company assets. So that this research can be carried out more directed and in accordance with the objectives, the authors limit the research including Debt Equity Ratio (DER), Sales Growth (Sales Growth), Return On Assets (ROA) and Company Size (Firm Size) as internal factors that influence Profit management. This research is also limited to the Basic and Chemical Industry Sector that is listed on the Indonesia Stock Exchange and is available in full and audited annual financial reports for 2015-2017. The purpose of this study is to find out whether there is a positive influence between the independent variables (DER, Sales Growth, ROA, Firm Size) on the dependent variable Profit Management in the Basic Industry and Chemical Sector in 2015-2017. There are differences in the results of previous studies between DER, Sales Growth, ROA and Firm Size on Earnings Management, as follows: DER has a significant positive effect according to Astari, et al (2017) and Pujilestari, et al (2013). DER has a significant negative effect according to Arthawan et al. (2018). And DER has no significant effect according to Gunawan, et al (2015), Pradipta, et al (2015) and Kusumaningtyas (2014). Sales Growth has a significant positive effect according to Astari, et al. (2017). Sales Growth has a significant negative effect according to Puji Lestari et al. (2013). And Sales Growth has no significant effect according to Kusumaningtyas (2014). ROA has a significant positive effect according to Astari, et al (2017) and Perwitasari (2014). ROA has a significant negative effect according to Pujilestari, et al (2013). And ROA has no significant effect according to Kusumaningtyas (2014). Firm Size has a significant positive effect according to Astari, et al (2017) and Pujilestari, et al (2013). Firm Size has a significant negative effect according to Perwitasari (2014), Arthawan, et al (2018) and Kusumaningtyas (2014). And Firm Size has no significant effect according to Gunawan, et al (2015) and Pradipta, et al (2015).

2. Theoritical Review

2.1. Agency Theory

Agency theory discusses the existence of an agency relationship, where a certain part (principal) delegates work to another part (agent). According to Jensen and Meckling (1976) the agency relationship arises when the principal works with an agent, where the principal will provide facilities and delegate authority and decision-making policies to the agent.

2.2. Information Asymmetry

Information asymmetry arises when managers in a company know all the information in the company to the company's prospects that are not known to shareholders or stakeholders.

2.3. Signal Theory

Signal theory is based on the idea that managers who have good information about the company try to convey that information to investors so that the company's stock price increases. However, the existence of information asymmetry problems, making managers not only announce that information, because it is possible for managers of other companies to also announce the same thing so as to make outside investors less trustful (Sugiarto, 2009: 48).

2.4. Pecking Order Theory

Wardian to (2013) explained that the Pecking Order theory further suggested the use of internal funding sources as the company's main funding source. This theory bases itself on information asymmetry, a term that indicates that management has more information (about prospects, risks and company value).

2.5. Positive Accounting Theory

According to Watts and Zimmerman (in Sulistyanto, 2008: 44) formulating three positive accounting theory hypotheses (Positive Accounting Theory) which can be used as the basis of understanding in earnings management actions are: Bonus Plan Hypotesis, Debt Covenant Hypothesis, Political Cost Hypothesis.

2.6. Earning Management

Earnings management is a condition where management intervenes in the process of preparing financial statements for external parties so that it can flatten, increase and decrease profits (Schipper, 1989 in Astari 2017). Earnings management in this study was measured by proxy discretionary accruals (DA) using the Modified Jones model (Jones Modification).

The following is a common pattern used in earnings management according to (Scott 2009 in Savitri 2014) can be done in a way:

2.6.1. Taking a Bath

Taking a bath is a pattern of earnings management carried out by making the company's profits in the current period to be very extreme low (even loss) or very extreme high compared to profits in the previous period or after.

2.6.2. Income Minimization

Income minimization is a pattern of earnings management carried out by making profits in the current period financial statements lower than actual profits.

2.6.3. Income Maximization

Maximizing profit (income maximization) is a pattern of earnings management carried out by making profits in the current period financial statements higher than actual profits

- Leverage One of the Leverage Ratios used is Debt to Equity Ratio (DER), which is the ratio used to acces debt with equity. This ratio is sought by comparing all debt, including current debt with all equity. This ratio is used to measure a company's ability to pay all its obligations, both short and long term if the company is dissolved (liquidated).
- Sales Growth Growth ratio is a ratio that describes the ability of a company to maintain its economic position amid its economy and business sector. One of the ratios analyzed is Sales Growth, calculated by comparing sales in the year after deducting sales in the previous period divided by sales in the previous year.
- Profitability OA is one type of profitability ratio that shows the return (return) on the amount of assets used in the company. The ratio of net income after tax is divided by total assets, used to measure management's ability to obtain profits (profits) as a whole.
- Company Size Firm size (Firm Size) can be defined as an effort to assess the size or size of a company. Company size is obtained from the natural logarithm of the total value of the company's assets at the end of the year.

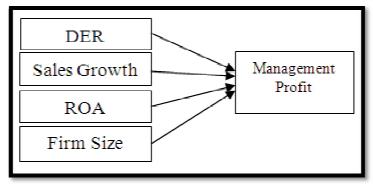


Figure 1: Thinking Framework

In this study, the hypothesis used is that there is the influence of independent variables, namely DER, Sales Growth, ROA and Firm Size on dependent variables, namely Profit Management. Based on the research problem formulation, the hypotheses put forward are as follows:

- DER has a positive effect on earnings management
- Sales Growth has a positive effect on earnings management
- ROA has a positive effect on earnings management
- Firm Size has a positive effect on earnings management

3. Research Methods

The method of determining the sample from this study is by purposive sampling in accordance with predetermined criteria and obtained a sample of 29 companies with a 3-year observation period so that the total sample of 69 companies. The data used in this study are secondary data in the form of financial statements of the Basic and Chemical Industry sectors listed on the Indonesia Stock Exchange in 2015-2017 which have been published on the website www.idx.co.id. The data obtained from the results of subsequent research were analyzed by panel data regression analysis using the help of the E views version 9.0 software program. The stages of data analysis are as follows: descriptive statistics, stationary data test, panel data regression method, panel data testing method, classical assumption testing (normality, autocorrelation, heteroscedasticity, multicollinearity), F test, determination coefficient (R2), t test.

4. Analysis Results

4.1. Descriptive Statistics

Presents minimum, maximum, and mean data for each variable. The Profit Management variable in 2015 has a minimum value of -0.183 and a maximum value of 0.096. 2016 has a minimum value of -0.1510 and a maximum value of 0.151. 2017 has a minimum value of -0.0679 and a maximum value of 0.131. The average of the Profit Management variable with the lowest value occurred in 2015 and 2017 at -0.0679 and the highest value occurred in 2016 at 0.1512. he DER variable in 2015 has a minimum value of 0.0927 and a maximum value of 4.5469. 2016 has a minimum value of 0.1832 and a maximum value of 2.5597. 2017 has a minimum value of 0.1092 and a maximum value of 4.1897. The average of the DER variables during 2015-2017 is above 0.9 with the lowest value occurring in 2017 at 0.8527 and the highest value occurred in 2015 at 0.9499. The Sales Growth variable in 2015 has a minimum value of -0.5401. 2016 has a minimum value of -0.1713 and a maximum value of 0.5317. 2017 has a minimum value of -0.2368 and a maximum value of 0.168. The average of the Sales Growth variable during 2015-2017 is above 0.15 with the lowest value occurring in 2016 at -0.1713 and the highest value in 2017 at 1.0244. he ROA variable in 2015 has a minimum value of -0.0605 and a maximum value of 0.1339. 2016 has a minimum value of -0.0548 and a maximum value of -0.0577. 2017 has a minimum value of -0.0907 and a maximum value of 0.1411. The average of the ROA variables during

2015-2017 is above 0.22 with the lowest value occurring in 2017 of -0.0548 and the highest value in 2016 of 0.1577. he Firm Size variable in 2015 has a minimum value of 0.1338 and a maximum value of 246849. 2016 has a minimum value of 0.1366 and a maximum value of 24.2050. 2017 has a minimum value of 0.1612 and a maximum value of 24.5235. The average of Firm Size variables during 2015-2017 is above 27 Trillion with the lowest value occurring in 2016 which is 27.8663 Trillion and the highest in 2017 is 27.9985 Trillion.

4.2. Stationary Data Test

The results of the unit root test output are carried out at the level level of the earnings management variable, DER, Sales Growth, ROA and Firm Size indicate that the data is stationary. This result is seen from p value less than 0.05 and ADF value smaller than critical values 1%, 5%, 10%.

4.3. Panel Data Testing

He chow test results show that the result of p-value of 0.0471 is smaller than 0.05 then H0 is rejected so that the right model is the Fixed Effect Model. And the results of the hausman test show that the result of p-value of 0.0419 is smaller than 0.05 then H0 is rejected so that the right model is the Fixed Effect Model. So the right Panel Data Regression Model Method in this study is the Fixed Effect Model method.

4.4. Normality

The Normality Test results shown in the Probability of Jarque-Bera are 0.035613 smaller than α 0.05. This means that the residual is not normally distributed.

4.5. Multicollinearity

The Multicollinearity Test results concluded that there were no symptoms of multicollinearity between independent variables, because each independent variable had a VIF value <10.

4.6. Heteroscedasticity

Heteroscedasticity test results are known not to occur heteroscedasticity symptoms in the research data because the probability value of Obs * R-squared is greater than the value of α or 0.5056> 0.05

4.7. Autocorrelation

The results of the Autocorrelation Test are shown in the Durbin Watson value of 1.997230, while the dL value is 1.1241 and the dU value is 1.7426. The value of dU <dw <4-dU, so it can be concluded that the residual does not contain autocorrelation.

4.7.1. Fixed Effect Model

Fixed Effect Model

Dependent Variable: MANAJEMEN_LABA?

Method: Pooled Least Squares Date: 03/03/19 Time: 15:26

Sample: 13

Included observations: 3 Cross-sections included: 29

Total pool (balanced) observations: 87

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	-3.667485	1.275526	-2.875272	0.0058
DER?	0.010976	0.027961	0.392558	0.6962
SG?	-0.041474	0.031775	-1.305268	0.1973
ROA?	0.240457	0.295700	0.813178	0.4197
SIZE?	0.130751	0.045792	2.855322	0.0061
R-squared	0.403863	Mean dependent var		0.002559
Adjusted R-squared	0.050597	S.D. dependent var		0.056859
S.E. of regression	0.055402	Akaike info criterion		-2.666709
Sum squared resid	0.165746	Schwarz criterion		-1.731364
Log likelihood	149.0018	Hannan-Quinn criter.		-2.290074
F-statistic	3.000572	Durbin-Watson stat		3.372769
Prob(F-statistic)	0.032599			

Table 1: Panel Data Regression Model

4.7.2. Coefficient of Determination (R2)

R-square value (R2) = 0.403863 which shows that 40% of the Profit Management variance can be explained by changes in the DER variable, Sales Growth, ROA and Firm Size. While the remaining 60% is explained by other factors outside the research model.

- Test F Can be seen in table 1 with a probability level of 95% (α = 5%) then the value of p-value = 0.032599 < 0.05 and the value of F count 3.000572> F table (= 2.78) so that H0 is rejected which means the independent variable has a significant relationship with the dependent variable.
- T test By using the Fixed Effect model, a panel data regression equation model is formed which can be formulated as follows:

Y =-3.667485 + 0.010976DER - 0.041374SG (-2.875272) (0.392558) (-1.305268) + 0.240457RO+0.130751SIZE (0.813178) (2.855322)

Numbers in parentheses are t-statistics.

Table 1 above is the output of Fixed Effect Model, with the basis of decision making: 1. If the value of t-statistic or t count < t table (1.71088), then H0 is accepted, 2. If the value of t-statistic or t count> t table (1.71088) or (for left direction) t-statistical value or t count <-t table (-1.71088), then H0 is rejected. The relationship between independent variables on earnings management as determined in table 1 shows the DER variable, Sales Growth and ROA does not have a significant effect on Earnings Management and other variables Firm Size has a significant effect on Earnings Management.

5. Conclusions

5.1. Results

5.1.1. Effect of DER on-Profit Management

This is not in accordance with the hypothesis statement made previously. A high DER level does not motivate Managers to do Profit Management by increasing profits. DER is a ratio that compares the amount of debt to equity. This ratio is often used by analysts and investors to see how much the company's debt is compared to the equity held by the company or shareholders.

5.1.2. Effect of Sales Growth on Profit Management

This is not in accordance with the hypothesis statement made previously. Sales growth shows the extent to which a company can increase sales compared to total sales overall. Sales growth also reflects the manifestation of investment success in the past period and can be used as a predictor of future growth. These results identify that companies whose sales go up or down do not affect the implementation of a company's earnings management.

5.1.3. Effect of ROA on Profit Management

This is not in accordance with the hypothesis statement made previously. Profitability shows management's ability to generate profits by utilizing assets used in operations. High and low profitability does not affect earnings management. The higher the profitability of the company, the company will tend not to do Profit Management because the company will be increasingly in the public spotlight.

5.1.7. Effect of Firm Size on Profit Management

This is in accordance with the hypothesis statement made previously. The larger the size of the company, the more information available to investors in making decisions related to investment in the company more and more. Larger companies also have a greater incentive to do earnings management compared to smaller companies because larger companies are subject to inspection.

6. Recommendation

Based on the results of the analysis and discussion, it is further concluded as follows:

- The independent variable DER has no effect on the dependent variable of Earnings Management in the Basic Industry and Chemical Sector in 2015-2017.
- Independent variable Sales Growth does not affect the dependent variable Profit Management in the Basic Industry and Chemical Sector in 2015-2017.
- Independent variable ROA does not affect the dependent variable Profit Management in the Basic Industry and Chemical Sector in 2015-2017.
- The independent variable Firm Size has a significant positive effect on the dependent variable Profit Management in the Basic and Chemical Industry sectors.
- Based on the results of the discussion and conclusions regarding the variables which include DER, Sales Growth, ROA and Firm Size on Profit Management in the Consumer Goods Industry Sector in 2015-2017, the author tries to convey some suggestions as considerations including the following:

6.1. For Company

Management so that in practicing earnings management is still within reasonable limits or still within the scope of generally accepted accounting methods and procedures so as not to mislead financial report users.

6.2. For prospective

Investors It is recommended to invest in capital to be more selective in choosing a company. And better understand financial statements.

6.3. For Shareholders

It is suggested that information be as accurate as possible in the financial statements in order to make strategic and effective decisions for the company.

6.4. For Creditors

It is recommended in giving credit loans to pay more attention to financial statements, especially variables that are often the object of profit management.

6.5. For Companies in Indonesia

It is recommended to pay more attention to the effects of long-term earnings management which can lead to bankruptcy of the company itself and damage the Macroeconomic order.

6.6. For Academics

Further research is needed regarding other variables that affect earnings management, as well as the importance of Good Corporate Governance variables for further research.

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