

# ***THE EFFECT OF LIQUIDITY RATIO, PROFITABILITY SOLVENCY ON STOCK PRICE IN CONSTRUCTION AND BUILDING COMPANIES LISTED ON INDONESIA STOCK EXCHANGE PERIOD 2014-2018***

Yurika Sepindo<sup>1</sup>, Suhendro<sup>2</sup>, Yuli Chomsatu<sup>3</sup>

<sup>1,2,3</sup>Accounting Department Islam Batik University

E-mail: [02sepindo@gmail.com](mailto:02sepindo@gmail.com)

Penulis untuk Korespondensi/E-mail: [02sepindo@gmail.com](mailto:02sepindo@gmail.com)

## **Abstract**

*The development of infrastructure will certainly have a positive impact on share holders, it is reflected by government support by raising funds for infrastructure development. The opportunities will certainly affect the price of shares in the property sector including financial performance. Financial performance can be seen from several financial ratios : liquidity ratio, profitability, and solvency. Sample in this study as many as 8 companies for 5 years so that in 40 samples. The result of this study simultaneously variable in this study we reaffected by the stock price. Partial liquidity variables (CR) do not affect the stock price, profitability (ROA) and (ROE) do not affect the stock price, solvability (EPS) affects the stock price, while DER does not affect the stock price.*

**Keywords** : *Liquidity, Profitability, Solvency, The Stock Price.*

## **I. INTRODUCTION**

The development of the stock sector property is currently growing rapidly this is certainly not separated from the support of the Government is concentrating on infrastructure development in Indonesia. The study was followed by an increase in funds given by the Government on infrastructure development. The development will certainly affect the price of the stock. In investing, investors will certainly also see the company's financial performance reflected in the company's financial statements by carrying out financial indicators such as liquidity ratios, profitability, and solvency. The capital market is a platform for investors to invest funds in hopes of profiting from the buying and selling of stocks. The activity of an investor should consider some considerations by analyzing the history of the stock price movement and estimate the price of the stock will occur. Stock prices are an important factor in determining the returns and risks that will occur. The ups and downs of stocks depend on consideration and bidding, the demand for stocks is influenced by the information that investors have, one of them is the financial statement. Financial statements contain some analyzed information that reflects the position of the company's state. Some

of ratios that are used in use are liquidity ratios, profitability, and solvency. The purpose of this research is: (1) to prove that there is a link between liquidity to the stock price. (2) Proving that there is profitability related to the stock price. (3) Proving that there is a solvency relationship to the stock price.

## **II. REVIEW OF INTRODUCTION**

### **Signal Theory**

The signal theory explains that financial statements are a signal for investors as the basis of investment decision making. The lack of information by the investor makes the stock price go down, this is because investors tend to protect themselves from investment mistakes. Asymmetrical information is because investors only know the financial performance through financial statements presented not from the actual state of the company.

### **Stock Price**

The stock price is the price that is determined by the supply and demand for the same circulating in the capital market. The value of

shares is reflected in the stock price traded, this is because the higher the demand for stocks will increase the stock price of Dalimunthe, (2015). Several factors affect the stock price according to Satria and Adnan (2018). These factors are fluctuations in the level of income and dividend and income level of investment.

### Liquidity

Liquidity is an indicator that measures the company's ability to fulfil its short-term obligations. With increasing, liquidity ratio will reflect the higher the ability of the company to better. The high Current ratio will help investors to buy stocks, if it offers the best demand, then the stock price will increase. This research uses the current ratio to measure the company's liquidity, the current formula ratio as follows:

$$\frac{\text{Current Assets}}{\text{Current Debt}} \times 100\%$$

### Profitability

Profitability is an indicator that measures the company's ability to generate profit. The company's main objective is to obtain the maximum profit to meet the welfare of the owner and employees. The profitability ratio is a measure showing the effectiveness of the company's management reflected in the proceeds of the sale of Kashmir, (2008:196). The ratios in the profitability ratio are Return on asset (ROA), Return on equity (ROE), Earning pershare (EPS), Net profit Margin (NPM), Return on Investment (ROI). The study used the Return On Asset (ROA) ratio to measure the effectiveness of the company generating profit from the company's assets. The rise of ROA will attract investors to buy stocks because the company can make a profit to minimize the risk and increase the profit of the company if the demand is high then the stock price will come up.

Formula to calculate ROA:

$$\frac{\text{Net Profit}}{\text{Assets}} \times 100\%$$

Return on Equity (ROE) to measure the company's progress in managing existing capital. ROE reflects the company's capital management to generate profit. Good management becomes a good indicator for investors so that it will raise the interest of investors to invest their shares, with the increase of interest will certainly increase the

demand and the inclusion of the stock so that the price of stocks will increase.

Formula to calculate ROE:

$$\frac{\text{Net Profit}}{\text{Equity}} \times 100\%$$

Earning pershare (EPS) is the ratio to know a substantial profit per share sheet. The higher the EPS value then the more profitable the trainees will influence the decision that will be taken by the investor. High EPS values make bidding on stocks as well as rising to raise the stock price.

Formula to calculate EPS:

$$\frac{\text{Net Profit}}{\text{Number of shares outstanding}} \times 100\%$$

### Solvency

Solvency is an indicator that measures the ability of the company to pay its long-term obligations. Companies with high solvable levels will reduce the interest of investors to invest their shares due to the high risk of bankruptcy. Some ratios can be used to measure the solvency level of Debt to equity ratio (DER). According to Wild and Subramanyam, (2010:42-47). DER ratios compare all company debts to total company assets. The formula of Debt to equity ratio is:

$$\frac{\text{Total debt}}{\text{Equity}} \times 100\%$$

## III. RESEARCH METHODS

The data source on this research is from financial statement through the site [www.idx.co.id](http://www.idx.co.id) and population on this research is the construction and building companies listed on Indonesia Stock Exchange period 2014–2018. The technique of sampling is done through the method of purposive sampled so that it can be 40. The data analysis techniques used in this study are as follows:

### Descriptive statistic

Descriptive Statistic can be used to dis credit variables in this study.

### Multiple Linier Regression Analysis

A double linear regression analysis is a technique through a parameter coefficient to know the magnitude of the influence of variables

independent of the dependent variables.

### Classic Assumption Test

A double linear regression analysis is a technique through a parameter coefficient to know the magnitude of the influence of variables independent of the dependent variables.

#### 1. Test Normality

The normality test is performed to determine whether in a free variable model has a normal distribution or detects a normal distribution.

#### 2. Autocorrelation Test

Auto correlation is a correlation that occurs among members of a series of observations that are arranged in a series of times

#### 3. Multicoloniarity Test

The multicoloniarity test aims to test whether a regression model is found whether a regression model is found in correlation between independent variables.

#### 4. Heteroskedastisity Test

The heteroskedastisity test aims to test if a regression model occurs a variance inequality from the residual of another observation.

### Test Hypotesis

Tests carried out include: F Test, T test, coefficient of determination test.

## IV. RESULT AND DISCUSSION

### Descriptive Statistic

Descriptive statistics aim to be able to synchronize the characteristics which include the average value, minimum value, maximum and standard deviation.

Tabel 1. Statistic Descriptive

Variabel	N	Minimum	Maksimum	Mean	Std Deviation
CR	40	100.23	207.09	145.9870	25.6155
ROA	40	.24	15.06	4.7475	3
ROE	40	1.50	27.96	13.6283	3.10113
EPS	40	8.10	291.95	125.5828	6.58414
DER	40	68.85	526.35	222.5757	76.8283
Harga Saham	40	330	3875	1793.88	1111.33

Source: Data processed by Authors

According to table 1. above, it can be concluded that the CR variable data has a minimum value of 100.23, maximum value 207.09, mean value 145.9870 and STD. Deviation 25.61553. ROA has a minimum value of 0.24, the maximum value of 15.06, mean value 4.7475 and STD. Deviation of 3.10113. ROE has a minimum value of 1.50, the maximum value of 27.96, mean value 13.6283 and STD. Deviation of 6.58414. EPS has a minimum value of 8.10, the maximum value of 291.95, a mean value 125.5828 and STD. Deviation 76.82838. DER has a minimum value of 68.85, the maximum value of 526.35, mean value 222.5757 and STD. Deviation 119.69320. The stock price has a minimum value of 330, the maximum value of 3875, a mean value of 1793.88 and STD. Deviation 1,111,335.

### Test Result Double Linear Regression Analysis

Test results double linear aimed at the table below:

Tabel 2. Test result double linear regression analysis

	B	Std. Error
(Constant)	2156,791	1564,903
CR	-6,046	8,712
ROA	-134,885	144,181
ROE	21,29	60,159
EPS	5,991	2,018
DER	0,529	2,174

Source: Data processed by Authors

Based on the results of multiple linear regression analysis in table 2. above, it can be concluded that the following regression equations are obtained

$$Y = 2156,7 - 6,046CR - 34,885ROA + 21,290ROE + 5,991EPS + 0,529DER + e$$

### Classic Assumption Test Result

#### 1. Test Normality

Test results normality aimed at the table below:

Tabel 3. One Sample Kolmogrov-Smirnov test

One Sample Kolmogrov-Smirnov test			
Variabel	Sig.	Std	Keterangan
Unstandardized Residual	0,248	0,05	Data Berdistribusi Normal

Source: Data processed by Authors

Based on the table 3. above shows that the significant value of Kolmogrov-Smirnov is obtained from 0.248. The value of Asym. Sig is far above 0.05 or 5%. This indicates that the data is normal distribution.

2. Multicoloniarity Test

Multicolinearity test results can be shown in the table below:

Tabel 4. Multicolinearity test

Variabel	Tolerance	Std	VIF	Std	Keterangan
CR	0,442	>0,10	2,177	<10	No multicolinearity
ROA	0,11	>0,10	2,047	<10	No multicolinearity
ROE	0,14	>0,10	1,248	<10	No multicolinearity
EPS	0,916	>0,10	1,091	<10	No multicolinearity
DER	0,325	>0,10	3,075	<10	No multicolinearity

Source: Data processed by Authors

Based on table 4. above, the value tolerance all variables are above 0.1 and the VIF value is less than 10, so it can be inferred there is no multicolinearity between variables.

3. Heteroskedastisity Test

The results of Heteroskedastisitas test can be shown in the table in this below:

Tabel 5. Heteroskedastisitas test

Heteroskedastisitas Test			
Variabel	Sig.	Std	Keterangan
CR	0,951	>0,05	No Heteroskedasity
ROA	0,178	>0,05	No Heteroskedasity
ROE	0,134	>0,05	No Heteroskedasity
EPS	0,113	>0,05	No Heteroskedasity
DER	0,402	>0,05	No Heteroskedasity

Source: Data processed by Authors

Based on table 5. above it can be concluded that a statistically significant CR, ROA, ROE, EPS, and DER variables affect the dependent variable/ stock price. It can be seen from its significant probability above 0.05. So inconclusive regression model does not occur heteroskedastisity symptoms.

4. Autocerrelation Test

The auto correlation test results can be seen in the table below:

Tabel 6. Autocerrelatio test

Autocerrelatio Test			
Variabel	Sig.	Std	Keterangan
Unstandardized Residual	0,423	0,05	No Autocerrelation

Source: Data processed by Authors

Based on the results of the autocorrelation test in table 6. above done with the run test, it can be concluded that the value of ASYMP. Sig of the output obtained 0,423 is greater than 0.05 which means in a regression equation does not occur autocorrelation. Thus the data is worth to be researched and carried out the next test.

Results of Feasibility Test Model Regression

The results of due diligence model regression can be seen in the following table:

Tabel 7. Result of feasibility test model regression

F hitung	Sig.	F tabel	Kesimpulan
4,417	0,003	2,65	Diterima

Source: Data processed by Authors

Based on the table obtained that the value F count 4.417 with a significant rate of 0.03. Based on significance values can be seen that the value significance is  $< 0.05$  ( $0.03 < 0.05$ ). Can be concluded that the linear equations of double regression in the study deserve to be researched and carried out subsequent testing

Hasil Uji Hipotesis

The hypothesis test results can be seen in the following table:

Tabel 8. Result of Hypothesis test

Result of Hypothesis Test				
Variabel	t <sub>hitung</sub>	t <sub>tabel</sub>	Sig.	Keterangan
CR	-0,694	2,032	.492	H1 Rejected
ROA	-0,936	2,032	.356	H2 Rejected
ROE	0,354	2,032	.726	H3 Rejected
EPS	2,969	2,032	.005	H4 Accepted
DER	0,243	2,032	.809	H5 Rejected

Source: Data processed by Authors

The results of this study indicate: 1) Liquidity rejected due to T-count value -0.694 less than T-table 2.032 and sig 0.492 value greater than 0.05 so



hypothesized rejected; 2) Profitability (ROA) rejected due to T-count value- 0.936 less than T-table 2.032 and sig 0.356 value greater than 0.05 so hypothesized rejected; 3) Profitability (ROE) is rejected due to the T-count value of 0.354 less than T-table 2.032 and SIG 0.726 value greater than 0.05 so that the hypothesis is rejected; 4) Profitability (EPS) received due to T-count value of 2.969 less than T-table 2.032 and sig 0.005 value smaller than 0.05 so hypothesized accepted; and 5) Solvency (DER) is rejected due to the T-count value of 0.243 less than T-table 2.032 and sig 0.809 value greater than 0.05 so that the hypothesis is rejected.

### Coefficient Test Result Determination

The coefficient of determination test results can be seen in the table below:

Tabel 9. Result of Hypothesis test

Model	Adjusted R Square	Keterangan
CR, ROA, ROE, EPS dan DER	0,305	Independent variables can affect dependent variables

Source: Data processed by Authors

Based on the coefficient of determination in table 9, it can be concluded that the linear equation in this study was 0.305. This means that the research 30.5% of stock prices are influenced by the Current ratio, Return on Asset, Return on equity, Earning per share and Debt to equity ratio. As of 69.5% of the stock price is influenced by other variables not incorporated into the study.

## V. CONCLUSION

This research aim to see now the company's liquidity measured with the current ratio, the company's profitability measured by return on asset, return on equity and earning per share, as well as the company's solvency measured by debt to equity ratio to the stock price of the construction company and registered building on IDX period 2014 – 2018. There are 16 construction companies and buildings listed on the IDX. of the 16 companies listed in IDX only 8 companies are used as samples and meet their requirements of research.

After the classical assumption test is known that data is normal distribution, data does not occur Autokolerasi, data does not occur multicollinearity

and does not occur heteroskedasticity. Based on a partial test (Test T) it is known that the current ratio has a greater significance value compared to the level of significant of  $0.492 > 0.05$  and the calculated T value of -0.694 is smaller than that of the table T value of 1,690. This means individual shows the CR variable has no influence on the price of the stock and has a negative relationship to the stock price. The result of this study were not in line with research conducted by Muhammad et.al (2015) and Fitriani et.al (2018) stating that the Current Ratio (CR) affects the stock price. And Return on asset (ROA) is known that partial has a greater significance value compared to the level of significant of  $0.356 < 0.05$  and the calculated T value of -0.936 is smaller than that of the table T value of 1,690.

This means that individually indicating a variable ROA has no influence on the price of the stock and has a negative relationship to the stock price. The result of this study were not in line with the research conducted by Octaviani et.al (2017) and Cahyaningrum et.al (2017) stating that Return on Asset (ROA) has an effect on the stock price. Return on equity (ROE) is known that partial has a greater significance value compared to the level of significant of  $0.726 < 0.05$  and the calculated T value of 0,354 is less than that of the table T value of 1,690. This means that individually indicating the ROE variable has no influence on the price of the stock and has a positive relationship to the price. The results of the study were not in line with the research done by Mudlofir et.al (2016) and Vireyto & Sulasmiyati (2017) stating that Return On Equity (ROE) has an effect on the stock price. Earning per share (EPS) is known to be that partial has a greater significance value compared to the level of significant of  $0.005 < 0.05$  and the calculated T value of 2,969 is greater than that of the table T value of 1,690. This means that individual shows variable EPS affect the price of the stock and have a positive relationship to the stock price. The result of this study supported the research of Ginsu et.al (2017) and Efrizon (2019) stating that Earning Per Share had significant effect on the share price. Meanwhile, Debt to Equity ratio (DER) is known that it has a partial significance value compared to the level of significant, namely  $0.809 > 0.05$  and the calculated T value of 0.243 is smaller than the table T value of 1.690. This means individually indicating the DER variable has no influence on the stock price and has a positive relationship to the stock price. The results of the study were not in line with the research conducted by Munira et.al (2018)

and Nainggolan (2019) stating DER has an effect on the stock price.

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