Icon-LBG 2013

The First International Conference on Law, Business and Governance 2013

22, 23, 24 October 2013
Bandar Lampung University (UBL)
Lampung, Indonesia

PROCEEDINGS

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The First International Conference on Law, Business and Governance (Icon-LBG 2013)  
Bandar Lampung University (UBL)  
Faculty of Law, Faculty of Economics and Faculty of Social Science

**PREFACE**

The Activities of the International Conference are in line and very appropriate with the vision and mission of Bandar Lampung University (UBL) to promote training and education as well as research in these areas.

On behalf of the First International Conference on Law, Business and Governance (Icon-LBG 2013) organizing committee, we are very pleased with the very good response especially from the keynote speaker and from the participants. It is noteworthy to point out that about 67 technical papers were received for this conference.

The participants of the conference come from many well known universities, among others: International Islamic University Malaysia, Utrech University, Maastricht University, Unika ATMA JAYA, Universitas Sebelas Maret, Universitas Negeri Surabaya, Universitas Jambi (UNJA), Diponegoro University, Semarang, Universitas 17 Agustus 1945 Jakarta, Universitas Bandar Lampung, Universitas Andalas Padang, University of Dian Nuswantoro, Semarang, Universitas Terbuka, Universitas Airlangga, Bangka Belitung University, President University, Tujuh Belas Agustus University Jakarta, International Business Management Ciputra University, Surabaya, University of Indonesia, Business School Pelita Harapan University, STIE EKUITAS, Bandung, STAN Indonesia Mandiri School of Economics Bandung, Lampung University.

I would like to express my deepest gratitude to the International Advisory Board members, sponsor and also to all keynote speakers and all participants. I am also grateful to all organizing committee and all of the reviewers who contribute to the high standard of the conference. Also I would like to express my deepest gratitude to the Rector of Bandar Lampung University (UBL) who give us endless support to these activities, so that the conference can be administrated on time.

Bandar Lampung, 22 October 2013

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THE IMPACT OF LIQUIDITY, PROFITABILITY AND ACTIVITY RATIO TO THE PROBABILITY OF DEFAULT FOR BANKING COMPANIES LISTED IN INDONESIA STOCK EXCHANGES FOR THE PERIOD 2006 TO 2012

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Lecturer of Business School PelitaHarapan University
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Abstract

The purposes of this study is to examine the probability of default for banking companies listed in Indonesian Stock Exchange (IDX) for the period from 2006 to 2012. A high probability of default in the future have worried the companies and public. Therefore several urgent and important actions need to be taken to improve the performance of these listed companies. Several measures which might be related to performance could be liquidity, profitability and activity ratio to examine the performance of these companies.

The population of this study is all the banking companies listed in IDX for the period of 2006 until 2012. To evaluate banks’ probability of default, we use some sample of banks by using Altman’s approach.

The result shows Altman’s Z score ratio for almost banks in A category still have ratio under 1.1. Bank that has Z-Score ≤ 1.1 indicate that the bank in A category are in financial distress and has high risk. This study shows that the Z-Score of the companies doesn’t always indicate about the existence of the companies consistently.

Keywords : default, banking, altman z-score, ratio, financial distress

1. INTRODUCTION

Financial crisis that has happened in Indonesia in 1998 added with growing inflation, currency (IDR) depreciation. The impact of this crisis for Indonesia is more serious than the other Asia country. Because of this unemployment rate increased, interest rate of money increased, the amount of import decreased and performance of companies that listed at Indonesia Stock Exchange (IDX) decreased.

The weaken of the companies’s performance that listed at IDX is caused by many factors. We can say there are at least two factors that caused crisis, first is economy distress and the second one is financial distress. Economy distress related to revenue and expense. The economy distress is also caused by capital expenditure of the companies more than return from investment. Financial distress happened was caused by foreign loans in foreign currency.

The depreciation of Indonesia’s currency (IDR) that followed with the increased of interest rate have caused companies’s foreign loans to be huge. Especially for the companies didn’t do swap or hedging for the foreign loans. As a result solvency of the companies has been disturbed due to the huge foreign currency in loans. The companies that experienced financial distress would make investors and creditors lose confidence that can lead to bankruptcy. Edward Altman (1968) observed the cases of the bankruptcy companies but didn’t have the going concern clarification of the companies before. Altman has found five financial ratios that can be used to detect the bankruptcy of companies.

2. REVIEW OF RELATED LITERATURE

Gibson (2007:165) said that financial statement analysis is a judgemental process. One of the primary objectives is identification of major changes (turning points) in trends, amounts, and relationship and investigation of the reasons underlying those changes. Often a turning points may signal an early warning of a significant shift in the future success of failure of those business.
Edward I. Altman, Alessandro Danovi and Alberto Falini (20XX) said that one of the most well-known distress prediction models, due to its ability to predict and easy application, is the Altman Z-Score, originally formulated in 1968. That study signaled out four balance sheet and income statement variables, with an additional stock market variable, useful for predicting the likelihood of a company going bankrupt. The chosen variables regarded liquidity, profitability, leverage, solvency and activity and were based on two distinct criteria: their popularity in literature and their potential relevance for the study. Each company was given a score (Z-Score) composed by a discriminant function of the five variables weighted by coefficients.

Morten ReistadAasen(2011) found that The estimated probability of default for the listed enterprises increased substantially during the crisis. The findings also indicate that the Z-Scores ability to predict bankruptcies significantly worsened during the financial crisis.

Nishi Sharma and Mayanka (2013) found that with only two exceptions the financial position of Indian banks found satisfactory as per Altman model and the study result the conclusion that capital adequacy ratio cannot be treated as a whole indicator financial soundness along with another parameters.

Subramnayam and Venkateswarlu (2012) found that the percentage to total of public sectors banks share is decreasing year to year and foreign sector banks share is fluctuating. The study reported that operating profit percentage of public sector banks to total has decreased from 72.69 percent to 67.20 percent during 2001 to 2002. The operating profit percent to total percent of private sector banks has increased from 15.52 percent to 21.92 percent during 2001 to 2002 to 2011 to 2012 period.

![Figure 1](https://via.placeholder.com/150)

The Scheme of this study
3. THE RESEARCH METHODOLOGY

The present study estimates z scores for 23 banks in Indonesia for periods seven years from 2006 to 2012. The study applies Altman Z Score model to Indonesian banking industry. This model is a calculates Z score on the basis of five variables working capital, retained earning, earning before interest and tax, market value of equity, sales and total assets. The data used in the study is secondary data collected Indonesian Stock Exchange (IDX). The calculation of Z score has been done with the help of following equation:

\[ Z = 6.56X1 + 3.26X2 + 6.72X3 + 1.05X4 \]

Where,

\[ X1 = \frac{\text{Working Capital}}{\text{Total Assets}} \]
\[ X2 = \frac{\text{Retained Earning}}{\text{Total Assets}} \]
\[ X3 = \frac{\text{Earning Before Interest and Tax (EBIT)}}{\text{Total Assets}} \]
\[ X4 = \frac{\text{Market Value of Equity}}{\text{Book Value of Debt}} \]

Altman model suggests that if a financial institute secure more than 2.6 score, it should be placed in safe zone. But if it is unable to secure even 1.1 Z score it should be assumed in distress and it is more prone to bankruptcy. If the value of Z score is in between 1.1 and 2.6, it should be treated in grey zone. The present study computes Z score for all 23 banks in Indonesia during a period of 7 years from 2006 to 2012.

4. RESULTS AND FINDINGS

Table 1 Descriptive Statistics

<table>
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<tr>
<th>Particulars</th>
<th>Working Capital/Total Asset</th>
<th>Retained Earning/Total Asset</th>
<th>EBIT/Total Asset</th>
<th>Market Equity/Book Debt</th>
<th>Sales/Total Asset</th>
<th>Total Liability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Observations</td>
<td>161</td>
<td>161</td>
<td>161</td>
<td>161</td>
<td>161</td>
<td>161</td>
</tr>
<tr>
<td>Mean</td>
<td>0.2132</td>
<td>0.0481</td>
<td>0.0127</td>
<td>0.2427</td>
<td>0.1069</td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>0.7727</td>
<td>6.6812</td>
<td>1.054</td>
<td>0.9337</td>
<td>0.2713</td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>0.0227</td>
<td>-1.1397</td>
<td>-1.286</td>
<td>0.0159</td>
<td>0.0253</td>
<td></td>
</tr>
</tbody>
</table>

Source: Author’s calculation

The descriptive statistics of selected banks shows that average liquidity (ratio of working capital to total assets) of Bank MAYA is the highest at 0.5012 and lowest for INPC at 0.0541. The profitability (ratio of EBIT to total assets) is highest for INPC at 0.1549 and worst for BCIC at -0.1710. Table 2. shows the Altman’s Z scores for selected banks of period 2006 to 2012.
### Table 2. Altman’s Z score for the banks from the year of 2006 to 2012

<table>
<thead>
<tr>
<th>No</th>
<th>Name of Bank</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>Average Z score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INPC</td>
<td>29.7999</td>
<td>0.2875</td>
<td>0.0811</td>
<td>0.2632</td>
<td>0.3949</td>
<td>0.3336</td>
<td>0.3978</td>
<td>4.5083</td>
</tr>
<tr>
<td>2</td>
<td>BNBA</td>
<td>3.2665</td>
<td>2.8057</td>
<td>0.9055</td>
<td>1.3401</td>
<td>1.4298</td>
<td>1.2248</td>
<td>1.3420</td>
<td>1.7592</td>
</tr>
<tr>
<td>3</td>
<td>BBKP</td>
<td>1.1186</td>
<td>0.9029</td>
<td>0.4958</td>
<td>0.6046</td>
<td>0.7917</td>
<td>0.8549</td>
<td>0.8517</td>
<td>0.8029</td>
</tr>
<tr>
<td>5</td>
<td>BNGA</td>
<td>2.1195</td>
<td>1.8192</td>
<td>0.9812</td>
<td>1.4412</td>
<td>2.7169</td>
<td>1.7543</td>
<td>1.3844</td>
<td>1.7452</td>
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<tr>
<td>7</td>
<td>SDRA</td>
<td>2.2065</td>
<td>1.5068</td>
<td>0.5509</td>
<td>1.5811</td>
<td>1.8736</td>
<td>1.0510</td>
<td>2.2461</td>
<td>1.5737</td>
</tr>
<tr>
<td>8</td>
<td>BABP</td>
<td>0.6605</td>
<td>0.8396</td>
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Source: Author’s calculation

Altman model shows that bank BCIC has the lowest z score and is in financial distress condition. Other banks which are in distress zones are INPC and BVIC. There are two other banks which were BBKP and BBNP were in distress zone also. Bank MAYA has the highest z score then followed by BBCA. There are many banks that survived financial distress and financial crisis of the year 2007 and 2008.

BBCA is a sound and healthy bank, it has an average z score of 3.8043, it is affected by the financial crisis a little bit but then it improves and shows a solid and a strong position. The model ranked MAYA as the best performer and followed by BBCA.
Table 3. Ranking of banks based on certain criteria

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Source: Author’s calculation

INPC was rank the first based on profitability and z score but the lowest based on liquidity. MAYA rank the first based on liquidity, second based on z score but fifthieth based on profitability. BBCA ranked second based on liquidity, the third based on profitability and z score.

Some banks like INPC, MAYA show good ranking based on z score but it does not exist anymore. From this observation it tells us that z score does not always show the existence of the banks in Indonesia consistently.

5. CONCLUSION:

From this study we can conclude that we should look at several important variables to determine if a bank is in solid and helathy financial condition. Altman’s z score alone can not tell the existance of the banks in Indonesia.

Bank INPC and MAYA does not exist anymore but the z score shows it is not in financial distress condition, it ranked first and second based on z score.

We should look at some other important factor like governance and law that might influence the existance of banks in Indonesia. Profitability, liquidity and capital adequacy ratios are other important factors to be considered besides Altman’s z score.

REFERENCES
