The Model Predictability Power to explain Underpricing in Bookbuild IPOs: A Study of Indian Capital Market

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Abstract
An attempt is made to empirically explore the determinants of underpricing of Initial Public Offerings (IPOs) in the Indian Capital Market with the help of OLS Regression and Stepwise Regression method by transformation of variables. This study considered 335 bookbuild IPOs for the period Jan 2006 to Dec 2015. This study reveals that variables’ predictability varies as different models are applied. It is proven that the transformation model has strong predictability power to explain Underpricing by using the OLS regression method while the stepwise regression method also produces strong predictable power with the help of the transformation of variables. Both models Stepwise regression method and enter method are best when variables are transformed in a natural logarithm. Hence transformation model predicts better strength to explain variation in underpricing. Therefore, transformed variables produce more effective explaining power.

JEL Code: G1, G11, G12
Keywords: IPOs, Capital Market, Returns, OLS, Regression, Financial Markets, India

I. Introduction
ITS WELL KNEW that underpricing in IPOs (Initial Public Offerings) is a global phenomenon. It is prevailing in each country’s IPO Market irrespective of whether developing or developed Nation. Many studies have acknowledged that IPOs of equity is substantially underpriced. That meansthat an investor who purchases new issues at the offering price in the primary market and sells them at the closing price on the first day of listing could earn, on average relatively (to secondary capital market) large returns. It has been universally found that investors who purchased IPO shares on the offering day got high positive returns on the first trading day, signifying that these shares may have been priced at values much below their intrinsic worth. This phenomenon is referred to as ‘underpricing’ on listing day.

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variables using different approaches (raw underpricing and adjusted underpricing) with a different method.

### Table XIV
Comparison of Model Predictable Power

<table>
<thead>
<tr>
<th>Model (predictable power)</th>
<th>RAW UNDERPRICING</th>
<th>MARKET ADJUSTED UNDERPRICING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Without a</td>
<td>Without a</td>
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<tr>
<td></td>
<td>transformation</td>
<td>transformation</td>
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<tr>
<td></td>
<td>of variables</td>
<td>of variables</td>
</tr>
<tr>
<td>Stepwise regression method</td>
<td>20%</td>
<td>14%</td>
</tr>
<tr>
<td>Enter method</td>
<td>21%</td>
<td>16%</td>
</tr>
<tr>
<td></td>
<td>25%</td>
<td>20%</td>
</tr>
</tbody>
</table>

*Source: Self Constructed with the help of SPSS.*

Both models Stepwise regression method and enter method are best when variables are transformed in a natural logarithm. Hence transformation model predicts better strength to explain variation in underpricing. Therefore, transformed variables produce more effective explaining power.

The stepwise regression method is good to signify the importance of variables as per their predictable power while enter method predicts the explaining power altogether for all significant variables.

It is to be recommended for the future study to use both the method to find out more significant variables which could enhance predictable powers of all the independent variables to the underpricing on listing day.

### References


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