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DEBT FINANCING AND FINANCIAL PERFORMANCE OF SMALL AND MEDIUM SIZE ENTERPRISES: EVIDENCE FROM KENYA

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Peter Nderitu Githaiga¹, Charles Githinji Kabiru²

¹Moi University. <u>nderitugithaiga@mu.ac.ke</u> ²Moi University. <u>charleskabiru88@yahoo.co.uk</u>

Keywords

ABSTRACT

Debt financing, long term debt, short term debt, trade credit, SMEs.

Debt ratios in large firms have been examined by a number of researchers while smaller firms have attracted less attention. The financial policies of large listed companies often differ from smaller firms because they raise funds by issuing debt or equity into capital markets. As such this study sought to investigate the effects of debt financing on the financial performance of SMEs. The objectives of the study were to determine the effects of long-term loans and short-term loans on SMEs financial performance. The study was guided by optimal capital structure theories. The study target 4122 SMEs in Eldoret town. Stratified sampling technique was used to select a sample size of 50 SME firms in Eldoret Town. The study collected quantitative secondary data from SMEs' financial statements for three consecutive years (2011-2013). The reliability and validity of the data collection instrument was done using Cronbach Alpha. Multiple Regression analysis was used to test study hypothesis. The results revealed that short term loans β =-0.304, and long term loans β =-0.155 had negative impact on financial performance of SMEs. The study concluded that long term and short term loans reduce financial performance of SMEs. The study recommends that SME should utilize loans, diversify for sustainability of revenue, keep proper books of accounts, offer clients sales contracts and lay down payment modes for trade credits, clearly stipulate the payment schedules, in order to deter poor credit and loan control policies and train their staff regularly while employing experienced internal and external auditors to improve on the internal control systems and book keeping.

JEL Classification G11,G21,G30

1. INTRODUCTION

Small and medium-sized enterprises are a centerpiece of the world economy. This includes most developed economies such as Europe economy. This is due to their economies of scale and their financing operations and, in particular, from access to securitized lending and stock markets. However, SME limitations in financing their operations may seriously limit their expansion potential and, in particular when it comes to lack of risk capital and their innovation (Akhtar, 2005).

Although in recent decades, small and mid-sized enterprises (SMEs) have been shown to be the primary engines of economic performance (Acs and Audrestsch, 2001), few large scale studies of SMEs actually document the role that external capital plays in the overall financing and performance of these businesses (Brown *et al*,2010). Debt financing involves the procurement of interest bearing instruments. They are secured by asset-based collateral and have term structures, that is, either short or long term. The equity component of external finance gives the financier the right of ownership in the business and as such may not require collateral since the equity participant will be part of the management of the business (Ogujiuba, Ohuche, and Adenuga, 2004). Pindalo, Rodrigues and de la Torre (2006) argue that short-term debt is not affected by the trade off between tax benefits and bankruptcy costs and that long-term debt is affected by collateralisable assets but short-term debt is not.

In Kenya, the performance of SMEs has continued to decline over the years. As at (Gok, 2009) virtually most small enterprises had collapsed leading to the closure of some of the SMEs that were producing 40% of the employment in Kenya. Other SMEs were auctioned while some were merged or acquired signifying questionable financial performance. Between 2001 and 2002, the SMEs performance dropped by 56% (Kenya Economic Survey, 2003). On the other hand, industrial economists indicated that the small industries have higher bankruptcy rates and also a faster growing rate than larger industries. SMEs still experience various difficulties in improving their financial performance since short term loan, trade credit and long term loans are not well managed. This may be as a result of SMEs not using ideal debts in their day-to-day transactions and if this problem is not tackled it may continue to cause financial distress and business failure.

Nevertheless, the abundance of loan facilities plus the demanding approval requirement of the scantily available equity funds has led many of the SMEs to resort to debt. This phenomenon is theoretically and practically acceptable from the loan providers' perspective owing to the perceived high risk of moral hazard problems among small and medium enterprises. While debt is necessary for the free flow of cash in the operation of the SMEs, over proportion of debt in their financial structure may pose problem to their financial health and performance.

Previous studies pertaining to the relationship between finance and performance had so far been focused on larger firms. Yet, very little attention is given to the actual forms of finance used by small and medium-sized enterprises, the available finance made by lending institutions or investors and the relation between the use of the said debt finance and enterprise performance. Thus, the study was conducted to examine effects of debt financing on financial performance of SMEs.

Focusing on the SMEs debt financing, this paper emphasizes the importance of debt structure (that is long-term, short-term debt and trade credit) in financing SMEs. In fact, we argue that SMEs should focus only on trade credit in order to optimize their financial performance.

2. LITERATURE SURVEY

SME Financial performance is most often defined into hard criteria such as increased turnover or wider profit margins and the ability to contribute to job and wealth creation through business start up, survival and growth (Sandberg et al, 2002, Chell & Baines, 1998).

Financial performance can be measured using proxies like profitability, return on asset, liquidity, solvency, and sales growth and all these can be extracted from the financial statements and/or reports (Dobbins and Barnard, 2000).

Debt financing is the major sources of capital for truly nascent firms since the retained earnings are insufficient or not available (Robb and Robinson, 2008as cited in Sun, 2010). According to Sun (2010), SMEs depend on debt financing because debt financing is relatively cheaper compared to equity financing (Graham, 2000). In addition, firms have insufficient track records, resulting in a relatively higher risk for capital suppliers (Berger and Udell, 1998). Therefore, shareholders are less likely to provide money for such firms.

Many smaller, less liquid firms do not enjoy access to debt markets but nevertheless can acquire external funds through bank lending, loans from associated firms, trade credit and other means. In structuring their liabilities, firm managers must choose their associated maturity, taking into account many of the same issues and constraints that affect the choice of a debt maturity structure (Baum et al, 2007)

Dobbins, Barnard (2000) The forgoing review of the literature on SMEs financing suggests that, until now, no tool has been provided to deal with capital structure in general and debt maturity in particular: theoretical models do not accommodate the special characteristics of SMEs; empirical research has provided only ex post explanation rather than specifying how an optimal capital structure may be determined. As far as we are able to ascertain from the existing finance literature, no practical tool has been elaborated for enabling SMEs to optimise their capital structure.

Long Term Debts and Financial Performance

Long-term debt limits managerial discretion by making access to new funds and overinvestment less likely Hart and Moore (1995): a feature that would enhance profitability. Schiantarelli and Jaramillo (1996) argue that shorter-term loans are not conducive to greater productivity while long-term loans may lead to improvements in productivity (Schiantarelli and Srivastava (1996)

It is higher in stronger and more flexible firms, when there are big differences between short term and long term interest rates and when firms have more growth opportunities (Moro, 2009). An econometric study by Hernandez-Canovas and Koeter-Kant (2008), suggests that the important variables in determining SMEs long-term debt include the length of the banking relationship and the number of banks involved (cited in Moro, 2009)

H_{01} : Long term debts had no significant effect on the financial performance of SME

Short-Term Debt and Financial Performance

Short-term debt in an environment of incomplete contracts grants the lender a control right as the firm's ability to roll over the debt may be conditioned on financial ratios and adequate performance. As this mechanism limits managerial discretion it may contribute to the relaxation of financial constraints (Rajan and Winton (1995). This increased availability of external finance should stimulate better performance.

Maturity matching between debt and the life of assets plays an important role in deciding the length of the debt maturity (Ooghe, 2007). According to Garcia-Terul and Martinez-Solano, (2007) Short-term debt is positively correlated with firm's growth opportunities. short-term debt is the best financing tool because it is perceived to be cheaper. Thus, both entrepreneur and bank prefer short-term debt (Landier and Thesmar, 2009)

H_{02} : Short term debts had no significant effect on the financial performance of SME

Recent literature on SMEs debt financing suggests that, until now, no tool has been provided to deal with debts in general and it's effect on SMEs' financial performance: theories have not fully accommodated the capital structure of SMEs; in addition, empirical research has not specified on how an optimal capital structure may be determined. As far as we are able to ascertain from the existing finance literature, no practical tool has been elaborated for enabling SMEs to determine the best debt financing that will suit their financial performance.

3. DATA AND METHODOLOGY

The researcher employed a descriptive and explanatory research design. This study was carried out in Eldoret town. The town is among the fastest growing towns in Kenya. The town is located in North Rift, Uasin Gishu County, Kenya.The study population was composed of 4122 SMEs in Eldoret town whose capital structure comprised of debt financing as reflected in their financial statements (External Audits Database, 2013). The Nassium sample size formula was used, taking the standard error, the coefficient of variation and the population into consideration in determining sample size (Nassium, 2000). Using Nassium formula at 2.8 percent standard error and 21% coefficient of variation the sample size for SMEs was 50. Data was collected from financial reports for the last three consecutive years from 2008-2010 through use of documentary guide. Hence, observations of 3 years for each of the 50 SMEs (3*50 = 150) were regarded as the study sample size.

Variables	Measurement
Long term debts ratio	Long term loan/total loan
short term debt ratio	Short term loan/total loan
Profit Margin Ratio	Gross profit/sales

Table 1: Measurement of Variables

Return on Assets	Net Income/total assets (Michaelas, Chittenden, and Panikkos, 1999)
Current ratio	Current assets/current liabilities

Pearson correlation coefficient was used to determine the degree of relationship between long-term loan, trade credits, short term loan and financial performance. Multiple regression analysis was used to predict the financial performance of SMEs.

These regression equations are outlined below.

$$y_i = \beta_1 + \beta_1 x_1 + \beta_2 x_2 + \varepsilon$$

Yi (i= 1.....3) = Profit Margin ratio, Liquidity and Return on Asset

 X_1 = Short Term debt X_2 = Long term debt ϵ = error term.

4. EMPIRICAL FINDINGS

Means and standard deviations for all the variables were calculated in order to get an idea about the direction of all the variables (profit margin ratio ,liquidity ratio, return on asset,trade credit, long term debt ratio and short term debt ratio.

Table 2:	Descriptive	Statistics
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				Std.		
	Min	Max	Mean	Deviation	Skewness	Kurtosis
Profit Margin Ratio	0	3.62	0.6107	0.24898	-0.741	0.105
Liquidity Ratio	0	3.24	0.5881	0.12115	0.981	0.075
Return On Asset	0	2.64	0.5023	0.26888	0.803	0.196
Long Term Debt Ratio	0	2.62	0.3935	0.22536	-0.813	0.41
Short Term Debt Ratio	0.02	0.93	0.5226	0.33017	0.944	0.269
Performance	0	4.34	0.7283	0.22391	0.231	0.330

Table 2 reveals that profit margin (PMR) score was averaged 0.61%, liquidity ratio at 0.58%, ROA at 0.50%. Further, results indicated that there are average 39% and 52.26% Long-term and short term loans among SMEs respectively. Moreover, all standard deviation values are below the means values reflecting a small coefficient of variation. The range of variation between maximum and minimum is also reasonable.

	Profit margin ratio	Liquidity ratio	Return on asset	Long term debt ratio	Short term debt ratio
Profit Margin Ratio	1				
Liquidity Ratio	.329**	1			
Return On Asset	.281**	0.038	1		
Long Term Debt Ratio	0.061	-0.102*	-0.033	1	
Short Term Debt Ratio	478**	373**	351**	-0.123	1

Table 3: Correlations Analysis

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

Long term debt was reported to have significant and negative relationship with liquidity ratio (r = -0.102, value< 0.05), this results reported that long term debts had negative influence on performance and liquidity ratio, however, there was no evidence to suggest relationship between long term debts, ROA and profit margin ratio.

Short term debt ratio was negatively and significantly correlated to profit margin ratio (r = -0.478 p value<0.01), liquidity ratio (r = -0.373, p value<0.01) and return on asset (r = -0.351, p value<0.01). These results suggest that long term and short- term loans in SMEs negatively affect the performance of the SMEs.

	Model 1, Dependent Variable: Profit Margin Ratio		Model 2, Dependent Variable: Liquidity Ratio		Model 3, Dependent Variable: Return on Asset	
	Beta	t	Beta	t	Beta	t
Long Term Debt Ratio	-0.003	-0.037	-0.155*	-2.092	-0.08	-1.043
Short Term Debt Ratio	-0.94	-6.595	-0.384*	-5.176	-0.356*	-4.625
ANOVA (F ratio)	17.539		0.21		0.27	
ANOVA (Prob)	0		0.194		0.261	
R Square	0.265		12.92		8.408	
Adjusted R Square	0.25		.000a		0	

Table 4: Regression Results

Dependent Variable: Profit margin ratio ,: Liquidity ratio,: return on asses

From table 4 we had enough evidence that Long term debt affect liquidity negatively (β = - 0.155, p<0.05), hence the study reject null hypothesis long term debt has no significant effect on SME financial performance (liquidity ratio), we therefore suggest that an increase of long term debts in SMEs will lower SMEs performance through liquidity. More

findings indicated short term debts having a negative effect on both liquidity and return on asset (β = -0.384, p<0.05 and β = -0.356, p<0.05 respectively). We therefore reject hypothesis that short term debts have no effect on SMEs financial performance (ROA and liquidity). Increase of short term debts reduces ROA and SMEs liquidity.

5. CONCLUSION

Empirical results showed enough evidence that long term debts affect SMEs financial performance negatively. These results are contrary to Schiantarelli and Jaramillo (1996) argument that long-term loans may lead to improvements in productivity. The findings further disagrees with Moore (1995) argument that Long-term debt limits managerial discretion by making access to new funds and over-investment less likely: a feature that would enhance profitability.

Similarly, findings showed that short term debts negatively affects SMEs performance through ROA and liquidity, the study findings contradicts Garcia-Terul and Martinez-Solano (2007) that short-term debt is positively correlated with firm's growth opportunities. Short-term debt is not the best financing tool for SMEs.

Thus, both short term and long term loan affect SMEs financial performance negatively. Caprio et al (1997), opines that long term debt dampens the firm's response to deterioration in market conditions, and enables the firms to avoid exiting the market when the continued operation of the firm has become socially undesirable (cited in Tanko,2002). Brunila (1992) asserted that credit regulations of banks have major influence on SMEs' operations, because they cannot get financing from bond markets, stock markets or abroad as effortlessly as large and stable corporations.

The study findings suggest both long term and short term loans reduce the financial performance. This calls for capacity building of SMEs in areas of business management (including financial record keeping) if they are to be rated as need to improve on their financial performance, thus they should reflect in reduction of loan processing time and the cost of borrowing (i.e. interest rates). Given the above, it could be suggested that Government will gain a lot from promoting SMEs through training and skill acquisition that will enable them better utilize their loans thereby reducing the probability of their being credit rationed. This becomes even more important for Kenya given the level of unemployment and government efforts in terms of policy frameworks that the Government has put in place to address them.

One of the feasible options open to SMEs in Kenya is the formation of cooperative societies where there will be a kind of risk pooling when applying for bank loans. Indeed, banks are likely to be more comfortable dealing with groups than individual SMEs who may not have relevant experience and financial skills to convince banks to part with liquidity in form of loans. Hence, SMEs in Kenya are likely to benefit more from commercial bank loans if they work with themselves as a group rather than doing it all alone. We must bear in mind that the most important goal of commercial banks is profit making. For best results, financial statements and other key performance indicators should be prepared on a regular and consistent basis and compared with prior periods.

Monitoring performance using successive monthly or quarterly accounts can show trends that otherwise might not be apparent

Further research could test the issues raised in this study across a large representative sample of SMEs. It is very important to monitor a wide range of performance indicators in the SMEs in order to ensure that appropriate and timely decisions and plans can be made. Given that profit margin ratios, current asset ratios and Return on Asset are the lifeblood of SMEs.

More frequent reporting periods are needed for more important data as well as use of other financial and non-financial indicators. Examples are number of enquiries, number of customers per day, average sales value, number of quoted jobs lost, and customer satisfaction.

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