FINANCIAL LEVERAGE AND VALUE OF FIRMS LISTED AT THE NAIROBI SECURITIES EXCHANGE.

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A RESEARCH PROJECT SUMITTED IN PARTIAL FULFILMENT OF THE DEGREE OF MASTER OF BUSINESADMINISTRATION, SCHOOL OF BUSINESS, UNIVERSITY OF NAIROBI.

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DECLARATION

I declare that this research is my original work and has never been presented to any other institution or University other than the University of Nairobi.

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DEDICATION

I dedicate this work to My Uncle Kisongochi for supporting my education, my wife Lucy Batekha and Son Dalton Wanyonyi and entire Javan Wanyonyi's.

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LIST OF ABBREVIATIONS

ANOVA:	Analysis Of Variance
DE:	Debt-Equity ratio
DR:	Debt Ratio
EPS:	Earnings Per Share
MM:	Miller and Modigliani
NSE:	Nairobi Securities Exchange
NPV:	Net Present Value
SPSS:	Statistical Package of Social Sciences
VIF:	Variance Inflation Factor

ABSTRACT

Investors both as a firm and households are keen to create more wealth and value from their investments. However the financing decision debate on whether gearing amplifies the value of the firm has never yielded desirable optimal levels. Some companies like Deacons and Athi River Mining remain suspended from the Nairobi Securities Exchange. Equally the companies actively trading declare relatively small magnitude of earnings per share and report losses in consecutive financial years. This study sought to examine the effect of financial leverage on the value of firms listed on the NSE from the year 2016 to 2020. A literature review of the MM-theory, trade-off, pecking and agency theories provided an understanding of financing decision. Research methodology was designed using the descriptive cross sectional study for a population of all the firms listed on the NSE. A a sample of 42 firms was used from which secondary financial data was extracted .The data was recorded and coded using Excel and analyzed the descriptive and inferential tests using the Statistical package for social sciences (SPSS) .Results showed a mixture of results with overall debt having a significant negative relation to the earnings per share while debt-equity ratio, liquidity and firm size revealing a significant positive relation to the EPS as a measure of firm value. The adjusted R square value of 0.226 revealed that 22.6% of variation in the value of the firm is accounted for by changes in the selected independent variables while 77.4% result from other variables not incorporated in the model. It was concluded that financial leverage negatively affects the value of firms listed on the Nairobi Securities Exchange.

CHAPTER ONE: INTRODUCTION

1.1Background

Financial leverage refers to using borrowed funds to finance the operations of a firm (Pandey 2015). A firm borrows funds through mortgage financing, securing credit from financial institutions and issuing of debentures to compliment shareholders' equity (Allen, Gale & Thakor, 2001). Leverage which is also called gearing creates more value for the firm because it has the advantage of interest tax shield (Mahmudi, 2020). Value of a firm refers to the ability of a firm to generate more wealth for its shareholders (Milimo, 2021). Shareholders wealth is reflected in high market share prices, earnings per share and how the market capitalizes the expected earnings from the firm assets (Michailetz & Artemenkov, 2018).

Firms trading on the NSE are financed with debt and equity though a majority prefer trading on equity to amplify their earnings (Yegon & Koske, 2021).Despite using leverage in their financing decisions(Roche, Olweny & Nasieku, 2020) several firms listed on the NSE are in financial distress a situation which is reflected in their depreciating share prices and numerous bankruptcy cases (Roche, Olweny & Nasieku, 2020).Empirical studies have shown mixed results about financial leverage and firm value. (Wambua M. F. 2019 and Wandera, 2021)establish a negative effect of gearing on the value of quoted companies, while (Hongli, Ajorsu & Bakpa, 2021 and Oduor, 2021) find a positive relationship between financial leverage and the value of firms listed on the NSE. (Milimo, 2021) equally establishes that profitability and stock returns have a positive relation for firms listed on the NSE.

Several financial theories advanced to address the financing decision lack consensus whether leverage can improve the value of a firm. Merton Miller and Modigliani set precedence in their capital structure irrelevancy theory, where neither debt nor equity mix is optimal to increase firm value but it depends on positive NPV in its investments (Franco Modigliani and Merton Miller1958).In a rejoinder, the trade-off theory argues that finance managers have to consider the benefits of debt financing against the costs of debt(Black and Scholes 1984). Pecking order theory suggests that firms follow a prescribed financing order starting with retained earnings, debt and issue equity as a last option(Myers1985). Finally this study will consider the agency theory (Jensen and Meckling 1976) which defines the relation between managers and owners where the agents are keen to self-benefits as opposed to shareholder wealth maximization.

From the foregoing analysis, a contrast exists in prior research findings over the influence of gearing on firm value (Milimo, 2021). Similarly, major financial theories contradict each other since no single agreeable optimal level of financing is desirable. Additionally, the firms listed on the NSE like Uchumi, Eveready, and Mumias face financial distress challenges, bankruptcy, liquidation and even delisting (Yegon & Koske, 2021).Following this situation financial managers are faced with the problem of deciding on how best they can employ leverage to improve the value of the firm. Therefore these preexisting misconceptions lay a foundation for this research to establish how leverage can amplify firm value and minimize financial distress facing firms listed on the NSE.

1.1.1Financial Leverage

Financial leverage is borrowing funds to supplement existing funds for investment to magnify the potential positive and negative outcomes (Ahmad, Guohui, Hasan, Rafiq & Rehman, 2017). Leverage also known as gearing assumes different debt instruments such as bonds, mortgages, and bank loans to obtain additional capital (Hovakimian, Opler & Titman, 2001). Many scholars agree that gearing can elevate a company's earnings because the interest charge on borrowings from lenders is exempted from taxation, which is an advantage to firms. Leverage is negatively related to firm investment but in most cases it has a disciplinary role towards managers (Aivazian, Ge & Qiu, 2005).

A study carried out (Haung et al. 2002) on Hongkong property markets shows that increasing gearing is positively related to returns made on assets though at the same time it has a significant negative effect on firm profit margins. (Mukras M.S 2015)studies how financial leverage affects a firm's performance, proxying performance with return on assets and leverage by debt ratio. Resultant statistical analysis shows that gearing has a significant negative influence over firms performance. However in a study (Achieng, Muturi & Wanjare, 2018) debt measures don't significantly influence the return on equity, but they agree that overall debt negatively influences a firms' returns on its assets.

Financial quantitative techniques can be used to determine whether a firm is geared and to what extent. Usually the debt ratio applies where the total amount of borrowed funds is compared with the overall total assets employed in the firm (Ibrahim & Isiaka, 2021).Incase this ratio is high then the firm is more likely to default on its financial obligations. Another measure is the one

that depict the proportion of gearing to the levels of equity, the Debt-Equity ratio. In case debt level is higher than the levels of equity then such a firm is financing most of its assets using borrowing from lenders (Brunnermeier & Krishnamurthy, 2020). In this study gearing will be analyzed using debt ratio and another ratio, the debt equity ratio(Pandey2015).

1.1.2 Value of Firm

The value of a firm refers to all obligations demanded by creditors and what the owners claim to be theirs in the business. Market value of securities and real assets can show the worthiness of a firm (Sari & Astini, 2020). The value of a firm is the total outstanding shares multiplied by the price per share on the securities market (Sari & Astini, 2020).

Valuation of a firm takes different forms and for the major purpose of determining the worthiness of the firm. The value of a firm provides a clear picture on whether the shareholders wealth is being maximized or not. Shareholders are keen to have their value increased by proper utilization of the firms' assets. A firms value can be as a result of leverage while it can wholly be equity financed. The value of an unlevered and levered firm does not matter(Franco Modigliani and Merton Miller1958).

Determination of the value of the firm is by estimating using the ratio analysis. Free cash flow ,dividend discount model and economic value added are such estimators(Khakali, 2021). The other ratios are the price earnings ratio, earnings per share and the Tobins . This study shall use the earnings per share as a measure of the dependent variable to avoid the pitfalls in the other methods(Entezarkheir & Sen, 2016).

1.1.3 Financial Leverage and Value of Firm

Financial leverage refers to using borrowed funds to boost shareholders equity financing. Gearing enables a firm to secure assets that could be out of reach with minimal owners contribution. The assets secured using debt financing enables a firm to create a promising environment for shareholders by investing in positive NPV projects that yield high cash inflows (Khakali, 2021).Through investing in profitable projects the firm is able to create value for the firm which can be reflected in an increased market share in its securities trading on the market(Pandey 2015). Employing gearing sigmake investors perceive a firm as overvalued or undervalued on the stock market. Firms' value is overvalued when the market price per share is higher than its intrinsic book value and undervalued when the market value is lower than its net book value (Entezarkheir & Sen, 2016).

Financial leverage has positive and significant impact on the value of a firm(Farooq & Masood 2016) as shown by the earnings per share .However (Khakali, 2021) leverage has a negative effect on share return of firms of when a cross sectional study is undertaken on leverage and listed on the NSE. Having mixed research findings locally and internationally, necessitates a need for further research in this area.

Firms which are geared have better firm value than those that are wholly equity financed because debt financing does not dilute ownership but rather acts as a disciplinary tool for the managers' efficiency (Otieno & Ngwenya, 2015).

1.1.4 Firms Listed on the Nairobi Securities Exchange

A stock market is an institution which deals in company stocks and derivatives (Bessler & Schneck, 2016) for general public. Nairobi securities exchange ranks as the oldest securities markets in East Africa. It was established in 1954 as a stock market for a few business entities where traders met at the Stanley Hotel where trading was on a gentleman's agreement over a cup of coffee. The security exchange has been growing ever since with new participants. The introduction of the first security exchange controls was done in 1965 to the market, which led to a slight slump in the stock market. The recession was long enough until 1984, when measures were taken to activate the capital market. But in 1991, a new dawn surfaced when first trading was introduced where traders bid on the open floor. In 1995 the market was available to foreign investors, boosting the capital market trading volumes and voted as the best security market. In 2007 trading was revolutionized at the stock market through digitization, where automated trading took place, and traders would no longer meet on the trading floor but rather trade through digital platforms. The stock exchange was rebranded to a securities exchange market and listed the FTSE NSE 15 and FTSE NSE 25 indices. Another milestone is that the security exchange is the founder of the Africa Security Exchange Association(ASEA), founded in Kenya, bringing together all 25 trading security exchanges in 37 countries in Africa. The NSE comprises 64 listed companies as of 13 September 2021, with a daily trading turnover of 347,099,539 Million and a capitation of approximately KES 2781.64 billion. The Nairobi securities market deals in equities, corporate bonds, derivatives, and government bonds. Companies listed on the NSE are classified according

to the industry in which they operate. Most of the companies are financed by debt which propels them to generate significant value.

1.2 Research Problem

Prudent financial management by corporate finance managers leads to continuous growth and survival of firms. Optimal financing decision has been a crucial element which financial managers have not been able to demystify (Achieng, Muturi & Wanjare, 2018). Gearing compliments other sources of capital and it is normally preferred by firms because it is presumed to amplify the value of shareholders wealth.

Despite high gearing levels, most of the NSE listed firms have low share prices and investor earnings per share (Otieno & Ngwenya, 2015). Case in point is the earnings per share of Mumias sugar and Eveready limited where investors have lost confidence and such shares earn negatively. Investors shun such stocks even if the companies are leveraged which further lowers the value of such firms (Entezarkheir & Sen, 2016).

A study carried out on how gearing affects the value of firms, shows that borrowing has a negative influence on the value and shareholders wealth (Otieno & Ngwenya, 2015), (Asim & Ismail, 2019). Another study carried out (Haung et al. 2002) on Hongkong property markets shows that increasing gearing is positively related to returns made on assets though at the same time it has a significant negative effect on firm profit margins. Similarly (Oduor M 2018) finds a positive relation between leverage and profitability in firms listed on the NSE. Theoretically, MM bench mark theory suggests that capital structure is irrelevant ,the tradeoff theory calls for arbitrage between costs (Asim & Ismail, 2019) and benefits of using debt while the

pecking order theory seeks to attain maximum value of a firm retained earnings is a priority then debt and lastly equity financing.

The conflict in empirical research and theories is a knowledge gap to be demystified. Therefore this research will seek to find out whether leverage influences the value of firms listed on the NSE.

1.3 Research Objective

To examine how leveraging in firms can influence the value of the firms listed on the Nairobi securities exchange.

1.4Value of the study

Findings from this research will benefit financial managers of corporations in general since they will understand how best to utilize debt financing in their capital structures to create value for the firm optimally. Secondly, the government agencies will use the results to develop policies that regulate the financing and bailing of non-performing firms. Thirdly research findings will be helpful in the Capital Markets Authority as a regulatory body to find relevant information and advice listed firms concerning their debt levels and resulting risks such as bankruptcy. Fourth, findings increase knowledge corporate finance arena creating an avenue for further research in the future

CHAPTER TWO: LITERATURE REVIEW

2.1 Introduction

The section discusses the theoretical pillars of capital structure that builds this research. The section will also depict the conceptual frame that maps out the flow of study linking the independent and dependent variables and lastly make a summary of literature review.

2.2 Theoretical Literature Review

In this section of the study the discussion will revolve around principal theories that will pivot this study which are; the Miller and Modigliani theory, Trade-off theory, Pecking order theory and the Agency theory relating to gearing and financial performance.

2.2.1 Miller and Modigliani Theorem

The MM theory is attributed to (Franco Modigliani and Merton Miller1958) MM who were among the first to diverge from the traditional view on firm value. Following this approach (Franco Modigliani and Merton Miller1958) a company's value is not in any manner related to the financial decision that the managers undertake and neither does the cost of the capital. Capital structure, in this case, is the composition of debt and equity in the financial mix of a firm. However, this approach assumes that the firm is majorly operating in a frictionless economic environment, where taxes are non-existent, without bankruptcy charges and no information asymmetry in the trading market. Within this (Franco Modigliani and Merton Miller1958) approach, lies a proposition that incase of two firms one which is geared and another is not, then their values are the same thing. However if it happens that the geared firm is more worthy than the ungeared firm, arbitrage solves the discrepancy. The arbitrage process occurs when the levered firm investors develop an appetite for the unlevered firm because they believe it is overvalued. Once the shift from the levered to the unlevered occurs, they tend to earn similar earnings, setting the equilibrium value of a leveraged firm and an unleveraged firm (Dempsey, M. 2019). Secondly, MM proposes that a companys' cost of equity is directly related to gearing levels as gearing increases. As leverage is increased, the cost of equity also rises to offset the interest tax shied of debt to keep the value of the firm arbitrary constant (Franco Modigliani and Merton Miller1958) .In realizing the shortcomings of the onset theoretic work, MM later on recognize that the value of a firm is relevant by considering the advantages of interest tax non deductibility. When they incorporate tax advantages they find that the value of a firm increases because of the tax advantages where interest is not taxable. Following from their findings, this study will be guided by the theory to understand why most firms prefer debt financing for other reasons other than tax shield advantages.

2.2.2 Trade -off Theory

Immediately after MM-approach was published and started gaining popularity, many other scholars joined the discussion in approval while others engaged in criticism.

One such theory as a result is the trade –off theory (Black and Scholes 1984) which proposes that firms do factor the costs and benefits that may arise out of its gearing financial decision. Trade-off theory is an argument over the MM approach, recognizing that debt interest tax deductibility shield creates more value for a firm. A firm makes its financing decision with the hope of creating more wealth for its shareholders and owners in terms of higher earnings per share. Motivation for higher returns makes managers seek external sources of funding, which carry the cost of a fixed charge.

The theory posits that organizations have to weigh the benefits that may accrue to a firm in leveraging as well as the cost charges that arise out of employing debt financing such as Agency costs (Black and Scholes 1984). Using debt financing has the benefit of an interest tax shield while at the same time, it carries bankruptcy costs. Financial managers have, over time, preferred that the benefits that arise over the use of debt are more compared to the bankruptcy costs.

In this study, this theory will shed light on how most firms listed on the NSE trade off the costs of gearing with the benefits to attain, if any the optimal level firm value.

2.2.3 Pecking Order Theory

Pecking order theory (Myers 1985) implores the hierarchical choice of financing for a firm. According to this theory, firms have a set of capital sources from which the most suitable type can be selected at any one time, ranging from equity, retained earnings, and debt. A firm that is levered is the one that has the composition of debt and equity, while an unlevered firm is wholly equity financed.

In deciding on the optimal capital structure, the finance managers ought to select the mix which will not lead to financial distress for the firm. Consequently, Myers puts across an order of choice of financing where firms need to explore the use of retained earnings, debt, then if issuing debt is no longer meaningful, equity financing is issued as a last resort. In light of the harsh consequences that managers can face, debt financing is usually used to control the activities of managers since they will work hard to repay the fixed cost charges of debt to remain in business; hence financial leverage influences firm value (Myers, 2001).

This theory will shed light in this study in identifying the ways in which financing managers in the companies listed on the NSE make financing choices; whether they follow the pecking hierarchy or they have their own approaches.

2.2.4 The Agency Theory

This theory is the work of Jensen and Meckling who identify a relationship between two parties the Principal and agent (Jensen and Meckling 1976). According to this theory the managers as agents have their interests while the shareholders as principals also have their interest concerning the firm. The shareholders employ the management to oversee prudent management of their borrowed money and equity holding. However, as the owners' agents, the managers have their interests which they put ahead of the shareholders' interests. Managers, in earnest, to maximize the profitability of firms put their interests first like increased perquisites, higher remuneration, expensive holidays, and huge bonuses, all of which contradict the shareholders' purpose of wealth maximization. Consequently, managers and owners are ever in conflict since managers' selfish interests are most likely to result in higher costs that managers should meet, like audit fees, monitoring charges for the managers, and risk of bankruptcy costs.

To mitigate the expenses of the agents' costly intent the owners do employ different mechanisms to control and regulate the managers (Bashir & Zachariah, 2020). This theory will help this study to elaborate how the actions of managers like undertaking debt financing decision will support shareholders interest. Indeed, most firms listed on the NSE have debt financing as a tool to control the agent's decisions since they have to work hard to repay liabilities.

2.3 Conceptual Framework

Figure 2.3 Conceptual Model

Independent variable **Dependent variable Financial Leverage** Debt/Equity ratio

VALUE OF FIRM

Earnings Per Share (EPS)

Source, (Author 2021)

Debt ratio

2.4 Summary of Literature Review

Seminal work by Miller and Modigiliani (1958) holds that capital structure is irrelevant and later on rescinded their stand to recognize the tax advantages of debt financing.(Kraus and Litzenberger1973) contrast the earlier work of Miller and Modigliani by proposing the idea that a firm should choose debt levels and equity, bearing in mind that equilibrium should exist between the interest tax deduction benefit and the associated costs of debt. Contrary to MM, (Myers and Majluf1984) debate that firms follow an order in making the financing decision by first utilizing ploughed back profits, borrowing from financial institutions, and lastly issue equity as a last resort. These contradictory theories point to a lack of consensus on capital structure choice, which creates a gap for further research.

Empirical literature reviews globally and locally give different findings. Internationally the works of (Lestari2021), (Bui2020) and (Matar & Eneizan 2018)and locally studies by (Achieng, Muturi & Wanjare 2018), (Kaara P M 2018), (Mutegi L M2016) (Otunge & Omoro 2017)and (Main Olweny & Wanjau 2018) give significant positive effects between leveraging firms and firm financial performance while others give a negative relation.

From the theoretical and empirical studies results, many conflicting results exist, which give room for further research in establishing whether financial leverage doe influence the value of firms listed on the NSE.

CHAPTER THREE: RESEARCH METHODOLOGY

3.1 Introduction

The research methodology part discussed the research design, the entire population, sampling procedure, how data was collected, analyzed and used the regression analysis model.

3.2 Research Design

The design is a schematic framework that was used in gathering and analyzing data to arrive at a conclusion in a study (Kothari, C. R. 2004). This study used the descriptive cross –sectional research design which described the relation between gearing and value of firms listed on NSE (Nissaji, H 2015). This study adopted a descriptive research design because it allows for describing the leverage and firm value variables in qualitative and quantitative terms about the sample from a population of 64 listed firms on NSE. The need for a clear description in the variables makes the descriptive design the most suitable for this study.

3.3 Target Population

Target population is the sum total of all the elements to be studied with the same characteristics (Mugenda & Mugenda 2003). In this study, the population comprised all the 64 listed companies on the Nairobi securities exchange at this time. Since most of the companies listed for trading on the NSE had similar financing options of debt and equity they were the most suitable in this study. All the 64 firms formed the sample size.

3.4 Data Collection

This research used secondary data that was abstracted from audited financial reports published by Capital markets authority, the NSE handbook, and financial reports published online by the representative companies. The data was collected for five years from 2016 to 2020 on an annual basis because during the period most of the firms filed for bankruptcy and delisting on the NSE. The retrieval of data focused on dependent variables and independent variables. Proxy for the dependent variable being EPS while independent variable proxy was net debt to net assets and total liabilities to total shareholders' equity and control variables firm liquidity and firm size.

3.5 Data Analysis

This study utilized descriptive quantitative data, and data analysis was carried out by descriptive analysis, correlational and inferential statistics. Regression analysis was obtained using SPSS and Microsoft Excel. The specific items to be measured will be debt ratio, return on assets, return on equity and earnings per share.

3.5.1 Analytical Model

The study used multiple regression analysis to determine how the independent parameters predict the dependent parameters, and the regression equation was as shown below:

$$EPS=\beta_0+\beta_1X_1+\beta_2X_2+\beta_3X_3+\beta_4X_4+\varepsilon_i$$

Where:

EPS = Earnings per share -Dependent variable

 β_0 = the constant term that measured the unit change in the dependent variable

 β_1 to β_4 = Constants of independent parameters that measured the responsive changes in EPS due to a unit change in X.

 X_1 = Debt/Equity ratio- measured by long-term borrowings divided by total equityhow much debt can be covered in the event of liquidation.

 X_2 = Debt ratio-measured by total liabilities divided by total assets.

 X_3 =Firm liquidity

 X_4 =Firm size –Ln in assets

3.5.2 Test of Significance

Analysis of variance (ANOVA) was undertaken to establish the F-statistic. The study also utilized a T-test to test the levels of significance between the variables. The level of significance was taken at 5%.

CHAPTER FOUR: DATA ANALYSIS RESULTS AND FINDINGS

4.1Introduction

The section was used to examine the effect of financial leverage on the value of the firm. The section utilized the inferential from SPSS of descriptive, regression, ANOVA and correlation.

4.2Response Rate

The targeted population was all the 64 firms listed on the NSE.A sample of 42 firms was used out of the 60actively trading where 4 are under suspension from2018.This represents a 70% response rate.

4.3Descriptive Analysis

In descriptive statistics the mean, standard deviation, minimum and maximum values for the dependent variable and independent variables are given as shown in the table 4.3below.Earnings per share as dependent variable had a mean of 1.742 with a standard deviation of 17.326.Debt equity ratio had a mean of -0.195 and a standard deviation of 12.738 while debt ratio mean was0.855 with 1.76 standard deviation as liquidity had a mean of 2.485 with 3.4 standard deviation and firm size had a mean of 15.735 and a standard deviation of 2.105 as independent variables.

Statistics						
		EPS	DE	DR	LQ	FZ
N	Valid	210.000	210.000	210.000	210.000	210.000
	Missing	0.000	0.000	0.000	0.000	0.000
Mean	n	1.742	-0.195	0.855	2.485	15.753
Std.		17.326	12.738	1.760	3.416	2.105
Devi	ation					
Mini	mum	-105.060	-168.281	0.028	-16.241	8.412
Max	imum	87.260	21.151	18.341	16.868	19.839

Table 4.3 Descriptive Statistics

Source ,(Author 2021)

4.3 Multiple Regression Assumptions Test

Multiple regression assumptions were run before conducting a regression model. The assumptions of regression run were; linearity, homoscedasticity, normality, multicollinearity and autocorrelation assumptions.

4.3.1Test of Linearity

The test of linearity involves checking if the scores of each variable should have a normal distribution. Pearson's Product Moment Correlation coefficients were used to examine the assumption of Linearity. The results below show a significant linear relation between EPS and the independent variables.

Table 4.3.1 Linearity Test

Variables	EPS	Sig.
DE	.059	.393
DR	.393	210
LQ	210	463**
FZ	463**	.000

Source, (Author 2021)

4.3.2Homoscedasticity Assumption

Levene's test of equality of error variances was used to homoscedasticity assumption. The test was used to establish whether their exists any correlation exists between the error terms. The P value obtained across the data set 0.241 is less that of p-critical 0.05.Thus the research failed to reject the null hypothesis at p-critical. Results are as shown in the table below.

Table 4.3.2 Homoscedasticity Assumption

Statistic	df1	df2	Sig.
3.378	209	25	0.241

4.3.3Normality Assumption Test

Shapiro-Wilk was used to test the normality of the data used in the study at 5% level of significance, to ensure that the data set is normally distributed. In all the cases the significant value was less than the p-critical of 0.05, which means the hull hypothesis is relevant and the data set assumes normal distribution.

Table 4.3.3 Normality Assumption Test

Variables	Statistic	Sig.
DE	.684	.165
DR	.897	.361
LQ	.707	.140
FZ	.840	.199

Source ,(Author 2021)

4.3.4Autocorrelation Assumption Test

Autocorrelation assumption test was conducted using Durbin-Watson. In statistics the value of autocorrelation should lie between 1.5 and 2.5. The results obtained in the table below shows that a Watson value of 1.6 showing no autocorrelation.

Table 4.3.4Model Summary

Mod	el R	R Square	Adjusted R	Std. Error of	Durbin-
			Square	the Estimate	Watson
1	.491a	.241	.226	15.23986	1.696

Source ,(Author 2021)

a. Predictors: (Constant), FZ, DE, LQ, DR

b. Dependent Variable: EPS

4.3.5 Multicollinearity Assumption Test

Multicollinearity assumption test was tested using tolerance and variance inflation factor (VIF). In case the VIF is greater than ten then multicollinearity exists, but less levels are acceptable which the case in this study was. Multicollinearity shows a strong correlation in the prediction variables.

Variables	Tolerance	VIF
v arrabies	Tolefance	V 11
DE	007	1 003
DE	.771	1.005
מת	766	1 205
DK	.700	1.505
IO	917	1 101
LQ	.047	1.101
E'Z	714	1 401
ΓL	./14	1.401

Table 4.3.5 Multicollinearity Assumption Test

Source ,(Author 2021)

4.4 Inferential Analysis

Inferential analysis used in this section was correlation and multiple regression models.

4.4.1Correlation Analysis

Pearson correlation analysis was carried out to show the strength and direction of the association between dependent and independent variables. The values of correlation lie between positive one and negative one. In the table below all the predictor variables have a small levels of correlation because the values are less than the 0.05 critical value but its has negative correlation to debt ratio. The results are as shown in the table below.

		EPS	DE	DR	LQ	FZ
EPS	Pearson Correlation	1				
	Sig. (2- tailed)					
	Ν	210				
DE	Pearson Correlation	.059	1			
	Sig. (2- tailed)	.393				
	Ν	210	210			
DR	Pearson Correlation	463**	019	1		
	Sig. (2- tailed)	.000	.785			
	Ν	210	210	210		
LQ	Pearson Correlation	.072	.032	125	1	
	Sig. (2- tailed)	.302	.644	.071		
	Ν	210	210	210	210	
FZ	Pearson Correlation	.316**	038	411**	287**	1
	Sig. (2- tailed)	.000	.580	.000	.000	
	Ν	210	210	210	210	210
**. Corr	elation is signif	icant at the	0.01 level (2	2-tailed).		

Table 4.4.1Multiple Correlation Analysis Results

Source ,(Author 2021)

4.4.2 Results for Multiple Regression Analysis

Multiple regression analysis was run to establish the effect of independent variables on dependent variable, EPS.

4.5Model Summary

The coefficient of determination (\mathbb{R}^2) and correlation coefficient (\mathbb{R}) shows the degree of association between dependent and independent variables. The result showed that \mathbb{R}^2 is 22.6% and therefore this percentage is variation in EPS due to changes in independent variables. Hence other factors not in the model are causing variation in the dependent variable up to 77.4%.

Table 4.5 Multiple Regression Model Summary

	R		Std. Error of the
R	Square	Adjusted R Square	Estimate
.491a	.241	.226	15.23986

Source, (Author 2021)

4.6Regression Model Fitness Test

Model fitness was run to find out if model best fit for the data. Test results showed a less than significant value 0.001 at F=16,4 and p<0.05. Thus the model has a best fit.

Table 4.6 Regression Model Fitness Results

	Sum of Squares	df	Mean Square	F	Sig.
Regression	15129.752	4	3782.438	16.286	.000b
Residual	47611.926	205	232.253		
Total	62741.678	209			

4.7Regression Model Coefficients

Regression model coefficients were run in order to use in the regression equation. The output of the test is shown in the table below.

		Unstanda	ardized	Standardized		
Model		Coefficie	ents	Coefficients		
		D	Std Emon	Data		Sia
		Б	Std. Error	Beta	l	51g.
1	(Constant)	-20.005	10.029		-1.995	.047
	DE	.077	.083	.057	.933	.352
	DR	-3.703	.684	376	-5.411	.000
	LQ	.385	.335	.076	1.148	.252
	FZ	1.522	.593	.185	2.567	.011

Table 4.7 Regression Model Coefficient

Source ,(Author 2021) a. Dependent Variable: EPS

The above test shows that debt –equity ratio, liquidity and firm size had a statistically significant positive influence on the EPS but debt ratio had a negative significant effect on earnings per share. All independent variables had values greater than p-value, 0.05.

From the analysis the regression model is shown below:

$Y = -20.005 + 0.07X_1 - 3.703X_2 + 0.385X_3 + 1.522X_4$

Where

Y = EPS, Earnings per share - Dependent variable

X₁= Debt/Equity ratio

 X_2 = Debt ratio.

X₃=Firm liquidity

X₄=Firm size

In the above model, if the X variables assume a zero value the constant term will be negative (-20.005) as the value of the firm. Similarly a unit change in debt –equity ratio will result in 0.07 units of earnings per share. A unit change in debt ratio implies a -3.703 change in EPS, a unit change in liquidity add 0.385 units in EPS and one unit change in the firm size leads to 1.522more units in EPS.

4.8 Discussing the research findings

The research did examine the effect of financial leverage on the value of firms listed on the NSE. The dependent variable was earnings per share while debt-equity ratio, debt ratio, liquidity and firm size represented the independent variables. Correlation results show a negative correlation between EPS and debt ratio at 95% confidence. This means that leverage has a negative influence in the firm value. A weaker positive correlation is seen in debt equity ratio and liquidity but a more stronger positive correlation is seen in firm size and EPS.

Regression model results showed that the adjusted r^2 is 0.226 meaning independent variables are causing 22.6% variation in the EPS, hence more disturbance is caused by either factors not in the model. The other factors are more at 77.3%.Overally the results show that financial leverage has a statistically negative influence on firm value. The results are similar to (Wambua 2019 and Wandera, 2021)who establish that debt has a negative impact on firm value of firms on NSE and investors tend to avoid such companies. However other studies establish that debt has a positive and significant influence on the value of a firms listed on the NSE (Oduor M 2018) and (Haung et al. 2002) on Hongkong property markets shows that increasing gearing is positively related to returns made on assets though at the same time it has a significant negative effect on firm profit margins.

CHAPTER FIVE: SUMMARY, CONCLUSION AND RECOMMENDATIONS.

5.1Introduction

This section had the summary, conclusion, recommendations and limitations basing on the major aim of the study and the test results.

5.2Summary

The research did seek to examine the effect of gearing on value of firms listed on the NSE. The dependent variable was firm value measured by the earnings per share (EPS) of the respective firms. The independent variables used were debt-equity ratio, debt ratio, liquidity and firm size. A literature review of MM theory, pecking order theory, trade off and agency theories was done to establish theoretical facts on leverage. The study focused on 42 firms actively trading on the market as non-financial firms. A descriptive cross sectional design was adopted for the study with the help of Excel and SPSS 22 statistical tool. Data was collected from online official website of the companies and the NSE electronic handbook.

Data was checked for conditional assumptions to ensure normality, linearity, homoscedasticity, multicollinearity and autocorrelation is achieved. The analysis of statistical data using 95% confidence at 0.05 gave correlation results that showed a weak significant positive correlation between earnings per share and the independent variables. A significant negative correlation was observed between debt ratio and EPS while debt equity ratio, liquidity and firm size showed a very weak positive correlation.

The coefficient of determination which shows the variation in the dependent variable was done. The results similarly showed that only 22.6% variation in the EPS is due to variation in the independent variables. Equally 77.4% variations in the model are caused by other factors outside the model tested to the 95% confidence.

From regression model results, if the X variables assume a zero value the constant term will be negative (-20.005) as the value of the firm. Similarly a unit change in debt –equity ratio will result in 0.07 units of earnings per share. A unit change in debt ratio implies a -3.703 change in EPS, a unit change in liquidity add 0.385 units in EPS and one unit change in the firm size leads to 1.522more units in EPS.

5.3. Conclusion

The objective of the study was to examine the influence of financial leverage on the value of firms listed on the NSE. Drawing from the preceding research findings, the value of a firm is negatively influenced by gearing as observed in the relation between EPS and debt ratio. The firms with higher debt levels are most likely to fall into the trap of financial distress. Similarly there is a significant weak positive effect of debt – equity ratio on the EPS .However liquidity and firm size positively affect the value of a firm, meaning large firms enjoy the benefits of economies of scale.

The dependent variables which were employed for the model show that indeed they influence the value of firms listed on the NSE. Basing on the ANOVA results other factors at 77.2% impact on the value of the firm. Leverage, however is negatively related to the value of the firm and this leads to lower earnings per share. Firms listed on the NSE have to check their EPS levels since lower earnings per share leads to financial distress.

These findings are similar to a study (Karlina & Ramadhan, 2020) conducted by case study on firms listed on the Bangladeshi stock exchange. The study intended to establish whether EPS was high in firms that use debt as a source of financing. Results showed a weaker positive relation in the study variables with debt negatively influencing the value of the firm.

5.4. Recommendations

Test analysis results show a strong statistically significant effect of debt on the EPS. The size of the firm is equally important from the research results. Firm size has a strong positive effect on the EPS which means smaller firms should expand in their operations to realize more value for itself and shareholders Debt-equity ratio shows very weak positive relation with EPS.

Financial managers should be wary of the debt levels in their financial structures when making financial decisions. They should prudently use debt in a moderate level but highly use retained earnings. Having relatively higher liquidity can improve the levels of EPS for a firm. Therefore firms should develop mechanisms to control their cash flows which can be used to secure debt financing. The government should develop better measures and mechanisms that limit the amount of debt a firm can secure from the open market and through individual and institutional lenders. The Capital markets authority, basing on these findings, should develop real time early warning systems to cautions firms that use excess debt of the eminent bankruptcy and financial distress challenges. This study recommends that the shareholders of firms should increase their financing to support the firms to realize more value. In equal measure, further research should be undertaken to establish why a mixture of results arise in findings of leverage and firm value.

5.5. Limitations

Data for the study was from the secondary sources such as company websites and online publishers. Such data is not highly valid because it is subject to manipulations. In another instance the data is not highly verifiable since some firms fail to audit their results.

Secondly, the scope of study in terms of time frame was limited to the period 2016 to 2018. There are many factors that can occur in the future. Therefore a broad time frame will reduce the challenges in reliability of results

Thirdly the statistical tools used in analysis have their own inefficiencies and it's important to select other tools part from SPSS. Equally the regression model is not adequate because of its limitations.

5.6. Suggestion for Further Research

The study did not fully analyze all the firms listed on the securities market because some of the firms are delisted while others are suspended. It would be more valid if future studies, analyze all the firms listed on the NSE. Second, the time frame was limited to five year, which is not long enough. Despite using the cross sectional research design, 5 years cannot fully explain differences of variances within the firms independent variables. Therefore future studies can yield better results by using a longer time frame.

Lastly, better statistical tools are being developed which can yield better results. This study used Excel and SPSS to perform descriptive and inference tests. Future research can apply better method like the R-studio to minimize the deficiencies of the methods applied in this research.

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No.	LIST OF COMPANIES						
I	AGRICULTURE	Π	AUTOMOBILESANDACCS				
1.	Sasini	8.	Car and General				
2.	Kakuzi	III	BANKING				
3.	Williamson tea Kenya	9.	BK Group				
4.	Limuru Tea	10.	Absa Bank Kenya				
5.	Rea Vipingo Plantations	11.	Diamond Trust Bank Kenya				
6.	Eaagads	12.	Equity Group Holdings				
7.	Kapchorwa Tea	13.	HF Group				
IV	COMMERCIAL&SERV	14.	KCB Group				
21.	Deacons	15.	National Bank of Kenya				
22.	Express	16.	NCBA Group				
23.	Kenya Airways	17.	The Corporative Bank of Kenya				
24.	Longhorn Publishers	18.	Stanbic				
25	Nation Media Group	19.	Standard Chartered Bank				
26	Nairobi Business Ventures	20	I&M Holdings				
27	Sameer Africa	V	CONSTRUCTION AND AL.				
28	Standaard Group	32.	E.A cables				
29	Scan Group	33.	Bamburi cement				
30	TPS Eastern Africa	34.	Crown Paints Kenya				
31	Uchumi supermarket	35.	Athi River Mining				
VI	ENERGY AND PETRO	36.	Portland Cement				
37.	Ken Gen	VII	INSURANCE				
38.	Kenya power	41.	Britam Holdings				
39.	Total Kenya	42.	CIC Ins. Group.				
40.	Umeme	43.	Jubilee holdings				
VIII	INVESTMENT	44.	Kenya Re				
47.	Trans-Century	45.	Liberty Holdings				
48.	Home Afrika limited	46.	Sanlam Kenya				
49.	Centum Investment	IX	INVESTMENT SERVICES				
50.	Olympia Capital Holdings	52.	Nairobi Securities Exchange				

APPENDICES: I List of Firms on the NSE.

51.	Kurwitu Ventures	X	MANUFACTURING
			&ALLD
XI	TELE-COMM&TECH	53	BOC Kenya
62.	Safaricom	54.	BAT Ke.
XII	REAL EST INVEST	55.	Carbacid Investments
63.	Stanlib Fahari I-REIT	56.	East African Breweries
XIII	EXCHANGE-TRADED F	57.	Eveready East Africa
64.	New Gold Issuer	58.	Flame Tree
		59.	Kenya orchards
		60.	Mumias Sugar Co.
		61.	Unga Group

APPENDIX II Data Summary.

Serial	YE	COMPANY	EPS	DE	DR	LQ	FZ
no	AR						
1	2020	BOC		0.299638	0.23055	2.51370	14.5523
			5.21	958	5537	27	195
2	2019	BOC		0.384363	0.27764	1.97718	14.5049
			2.86	515	6377	46	704
3	2018	BOC		0.409511	0.29053	1.88356	14.5771
			3.36	443	4316	47	324
4	2017	BOC		0.383336	0.27711	1.95386	14.6169
			2.02	789	0239	04	151
5	2016	BOC		0.627566	0.47676	2.26351	14.6147
			6.47	739	2246	4	451
6	2020	CARBACID	1.27	0.115536	0.10357	5.76301	15.1041
				257	015	46	455
7	2019	CARBACID	1.04	0.120227	0.10732	5.69404	15.0692
				006	3788	67	733
8	2018	CARBACID		0.107423	0.09700	9.42801	15.0307
			1.17	131	2788	52	891
9	2017	CARBACID		0.130945	0.11578	6.80233	15.0115
			1.38	183	2586	75	441
10	2016	CARBACID		0.152408	0.13225	7.08847	14.9410
			1.47	311	2006	36	14
11	2020	EABL	5.2	0.898789	0.15044	-	18.2415
				332	2584	0.83707	541
12	2019	EABL	11.2	0.220121	0.04084	-	18.2821
				003	2933	0.87852	683
						8	
13	2018	EABL		5.114536	0.83645	0.83486	18.0816
			7.19	893	5058	49	608
14	2017	EABL		4.561008	0.82017	1.00686	18.0152
			9.71	227	6493	35	103

15	2016	EABL		5.044181	0.83455	0.77070	18.0003
			12.2	571	1628	88	6
16	2020	BAT	55.1	0.830780	0.73328	1.30437	16.4131
			7	449	4129	37	824
17	2019	BAT	38.8	0.898503	0.75501	1.34114	16.2632
			6	491	0409	22	024
18	2018	BAT	40.8	1.534512	1.13890	1.66569	16.3456
			5	524	3614	04	933
19	2017	BAT	33.3	1.986192	1.38681	1.32383	16.2339
			6	229	3217	59	887
20	2016	BAT	42.3	1.082606	0.78357	1.42456	16.3131
			4	733	6466	47	557
21	2020	EvereadyEastAf	-0.33	3.905589	0.79615	1.03964	12.2114
		rica		032	0881	43	83
22	2019	EvereadyEastAf	-1.4	1.259306	0.55738	1.50185	12.4233
		rica		734	635	07	027
23	2018	EvereadyEastAf	-0.55	0.310969	0.23720	2.53246	13.2599
		rica		299	563	26	804
24	2017	EvereadyEastAf	1.27	0.406432	0.39999	2.69480	13.2325
		rica		823	1401	26	031
25	2016	EvereadyEastAf	-0.98	2.223294	2.18359	0.45379	13.1131
		rica		107	1866	92	713
26	2020	FlameTree	0.19	1.294217	0.56412	1.10992	14.7274
				464	1303	89	109
27	2019	FlameTree	1.25	1.157862	0.53657	1.21249	14.6401
				425	8662	24	973
28	2018	FlameTree	0.91	2.262231	1	1.14355	14.4248
				346		39	799
29	2017	FlameTree	0.25	1.297827	0.56480	1.29065	14.3347
				632	6684	71	614
30	2016	FlameTree		1.115218	0.52723	1.53054	14.2350
			0.06	183	5532	75	055

31	2020	Kenya Orchards	0.62	2.494293	0.39564	-	18.6537
				317	805	16.2414	468
						19	
32	2019	Kenya Orchards	0.25	1.444011	0.34637	-	18.7281
				278	6329	10.1301	93
						46	
33	2018	Kenya Orchards	0.69	3.725445	0.78837	2.11383	18.5566
				889	9759	16	591
34	2017	Kenya Orchards	0.29	4.748237	0.67590	1.71322	18.5002
				513	7161	63	15
35	2016	Kenya Orchards	0.29	4.825507	0.91663	1.97902	17.7520
				26	4575	72	628
36	2020	UngaGroup	0.45	0.978422	0.49454	1.57679	16.3046
				804	6869	26	479
37	2019	UngaGroup	4.52	0.758108	0.43120	1.95588	16.1807
				204	6795	83	01
38	2018	UngaGroup	6.72	1.143924	0.64598	2.14183	16.1113
				979	5911	51	393
39	2017	UngaGroup	0.28	1.557627	0.80892	1.65790	16.0620
				466	5265	68	877
40	2016	UngaGroup	4.32	1.158522	0.70788	2.29858	15.9379
				72	0888	59	588
41	2020	SASINI	0.33	0.116807	0.10459	5.73651	16.4950
				049	0179	63	073
42	2019	SASINI	-1.38	0.138866	0.12193	4.25359	16.5016
				617	4048	5	122
43	2018	SASINI		0.144615	0.12634	5.76247	16.3774
			1	717	434	44	847
44	2017	SASINI		0.964555	0.82712	4.24065	16.3954
			1	907	7563	37	262
45	2016	SASINI	1.5	0.938792	0.81383	5.45353	16.3885
				186	1289	42	913

46	2020	KAKUZI	31.7	0.240793	0.20165	11.2228	15.7096
			4	906	2375	07	64
47	2019	KAKUZI		0.238143	0.19962	11.0030	15.6441
			36.4	466	0199	85	438
48	2018	KAKUZI	24.5	0.272314	0.22906	5.94136	15.5295
			7	495	6498	13	027
49	2017	KAKUZI	30.1	0.329495	0.27764	3.90209	15.4504
			9	173	228	76	653
50	2016	KAKUZI		0.316711	0.26210	4.91759	15.3518
			28.7	983	0026	09	779
51	2020	WilliamsonteaK	7.59	1.019042	0.79146	3.91481	15.8824
		enya		156	454	39	455
52	2019	WilliamsonteaK	-9.39	0.975054	0.74466	4.03619	15.9283
		enya		671	2362	49	77
53	2018	WilliamsonteaK	21.2	0.382244	0.27536	2.98552	16.0673
		enya	7	857	5242	44	363
54	2017	WilliamsonteaK	-6.62	0.346131	0.25219	3.47208	15.9394
		enya		581	8466	33	625
55	2016	enya WilliamsonteaK	40.3	581 0.344848	8466 0.25924	33 4.95626	625 16.0050
55	2016	enya WilliamsonteaK enya	40.3	581 0.344848 94	8466 0.25924 64	33 4.95626 68	625 16.0050 832
55 56	2016	enya WilliamsonteaK enya LIMURUTEA	40.3	581 0.344848 94 0.203977	8466 0.25924 64 0.18526	33 4.95626 68 6.91638	625 16.0050 832 12.2550
55	2016 2020	enya WilliamsonteaK enya LIMURUTEA	40.3	581 0.344848 94 0.203977 335	8466 0.25924 64 0.18526 8059	33 4.95626 68 6.91638 25	625 16.0050 832 12.2550 866
55 56 57	2016 2020 2019	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA	40.3	581 0.344848 94 0.203977 335 0.214631	8466 0.25924 64 0.18526 8059 0.19015	33 4.95626 68 6.91638 25 8.37472	625 16.0050 832 12.2550 866 12.2968
55 56 57	2016 2020 2019	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA	40.3 -1.53 0.79	581 0.344848 94 0.203977 335 0.214631 029	8466 0.25924 64 0.18526 8059 0.19015 6119	33 4.95626 68 6.91638 25 8.37472 26	625 16.0050 832 12.2550 866 12.2968 224
55 56 57 58	2016 2020 2019 2018	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA	40.3 -1.53 0.79	581 0.344848 94 0.203977 335 0.214631 029 0.389015	8466 0.25924 64 0.18526 8059 0.19015 6119 0.33734	33 4.95626 68 6.91638 25 8.37472 26 3.50210	625 16.0050 832 12.2550 866 12.2968 224 12.3136
55 56 57 58	2016 2020 2019 2018	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA	40.3 -1.53 0.79 1.06	581 0.344848 94 0.203977 335 0.214631 029 0.389015 461	8466 0.25924 64 0.18526 8059 0.19015 6119 0.33734 7612	33 4.95626 68 6.91638 25 8.37472 26 3.50210 76	625 16.0050 832 12.2550 866 12.2968 224 12.3136 033
55 56 57 58 59	2016 2020 2019 2018 2017	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA LIMURUTEA	40.3 -1.53 0.79 1.06	581 0.344848 94 0.203977 335 0.214631 029 0.389015 461 0.395312	8466 0.25924 64 0.18526 8059 0.19015 6119 0.33734 7612 0.33351	33 4.95626 68 6.91638 25 8.37472 26 3.50210 76 3.55554	625 16.0050 832 12.2550 866 12.2968 224 12.3136 033 12.3129
55 56 57 58 59	2016 2020 2019 2018 2017	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA LIMURUTEA LIMURUTEA	40.3 -1.53 0.79 1.06 -9.22	581 0.344848 94 0.203977 335 0.214631 029 0.389015 461 0.395312 55	8466 0.25924 64 0.18526 8059 0.19015 6119 0.33734 7612 0.33351 7545	33 4.95626 68 6.91638 25 8.37472 26 3.50210 76 3.55554 15	625 16.0050 832 12.2550 866 12.2968 224 12.3136 033 12.3129 969
55 56 57 58 59 60	2016 2020 2019 2018 2017 2016	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA LIMURUTEA LIMURUTEA	40.3 -1.53 0.79 1.06 -9.22	581 0.344848 94 0.203977 335 0.214631 029 0.389015 461 0.395312 55 0.371786	8466 0.25924 64 0.18526 8059 0.19015 6119 0.33734 7612 0.33351 7545 0.30078	33 4.95626 68 6.91638 25 8.37472 26 3.50210 76 3.55554 15 5.16540	625 16.0050 832 12.2550 866 12.2968 224 12.3136 033 12.3129 969 12.4461
55 56 57 58 59 60	2016 2020 2019 2018 2017 2016	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA LIMURUTEA LIMURUTEA LIMURUTEA	40.3 -1.53 0.79 1.06 -9.22 -7.95	581 0.344848 94 0.203977 335 0.214631 029 0.389015 461 0.395312 55 0.371786 77	8466 0.25924 64 0.18526 8059 0.19015 6119 0.33734 7612 0.33351 7545 0.30078 3017	33 4.95626 68 6.91638 25 8.37472 26 3.50210 76 3.55554 15 5.16540 11	625 16.0050 832 12.2550 866 12.2968 224 12.3136 033 12.3129 969 12.4461 638
55 56 57 58 59 60 61	2016 2020 2019 2018 2017 2016 2020	enya WilliamsonteaK enya LIMURUTEA LIMURUTEA LIMURUTEA LIMURUTEA LIMURUTEA ReaVipingo	40.3 -1.53 0.79 1.06 -9.22 -7.95	581 0.344848 94 0.203977 335 0.214631 029 0.389015 461 0.395312 55 0.371786 77 0.315071	8466 0.25924 64 0.18526 8059 0.19015 6119 0.33734 7612 0.33351 7545 0.30078 3017 0.23958	33 4.95626 68 6.91638 25 8.37472 26 3.50210 76 3.55554 15 5.16540 11 9.02030	625 16.0050 832 12.2550 866 12.2968 224 12.3136 033 12.3129 969 12.4461 638 15.5786

62	2019	ReaVipingo		0.329157	0.24764	8.48596	15.4958
			6.4	199	7696	45	141
63	2018	ReaVipingo	22.6	0.349218	0.25882	7.60619	15.4447
			9	081	9974	83	929
64	2017	ReaVipingo		0.272357	0.21405	14.1989	15.3436
			15.6	694	749	14	299
65	2016	ReaVipingo	23.4	0.184843	0.15018	13.8792	15.3803
			6	501	0559	26	897
66	2020	EAAGADS		0.123050	0.12305	2.21408	13.7627
			-2.07	114	0114	79	225
67	2019	EAAGADS		0.112650	0.10124	6.98250	13.7561
			0.08	812	5432	59	044
68	2018	EAAGADS		0.109941	0.09905	8.77438	13.7166
			-1.94	005	1215	39	787
69	2017	EAAGADS		0.071023	0.06546	12.8294	13.7351
			0.56	976	5831	78	7
70	2016	EAAGADS		0.100051	0.09095	5.72840	13.5426
			0.01	161	1371	48	054
71	2020	KapchorwaTea	2.48	0.361002	0.26524	4.83966	14.4792
				347	741	66	3
72	2019	KapchorwaTea	-	0.385265	0.27811	10.5166	14.5251
			16.0	113	652	48	082
			6				
73	2018	KapchorwaTea	21.2	0.489001	0.32840	2.91968	14.7274
			7	381	8951	83	089
74	2017	KapchorwaTea	-6.67	0.434339	0.30281	3.46275	14.5236
				902	5184	16	995
75	2016	KapchorwaTea	16.7	0.453509	0.32020	4.25860	14.5784
			8	574	6641	92	576
76	2020	CarandGeneral		2.021710	0.66906	0.86546	16.2923
			6.85	854	1651	02	419
77	2019	CarandGeneral	4.27	2.259260	0.69318	0.87862	16.2814

				449	193	74	148
78	2018	CarandGeneral		1.409160	0.49919	0.99028	16.1352
			5.35	727	5346	94	975
79	2017	CarandGeneral		1.759999	0.63768	1.02986	16.0420
			1.71	011	103	07	29
80	2016	CarandGeneral		1.996782	0.66630	1.00543	16.0881
			2.22	809	8817	47	722
81	2020	Express	-0.64	2.125646	0.98257	1.53440	14.1274
				516	4099	34	486
82	2019	Express	-0.46	15.87217	1	1.49681	13.0641
				792		55	769
83	2018	Express	-1.97	-	0.99999	0.61867	12.6790
				2.345031	6884	44	157
				419			
84	2017	Express		-	1.18661	0.59742	12.7936
				6.358697	5805	34	704
			-2.55	594			
85	2016	Express		-	0.93893	0.85207	12.8468
				15.37510	17	04	075
			-2.74	785			
86	2020	KenyaAirways	-6.22	-	1.37422	0.31844	18.9598
				3.672204	286	6	722
				473			
87	2019	KenyaAirways	-2.23	-	1.21543	0.37838	19.0919
				13.28945	5957	24	555
				016			
88	2018	KenyaAirways	-1.01	-	1.01821	0.21601	18.7328
				55.89513	6549	09	164
				861			
89	2017	KenyaAirways		-	1.30733	0.37512	18.8001
				4.253790	3862	8	03
			-6.73	493			
90	2016	KenyaAirways	-	-	1.22909	0.40730	18.8633

			17.7	5.364959	7216	99	453
			6	206			
91	2020	LonghornPublish		2.334622	0.70011	0.95853	14.7116
		ers	-0.83	634	5992	7	655
92	2019	LonghornPublish		1.122888	0.52896	1.72786	14.6674
		ers	0.68	263	1699	92	693
93	2018	LonghornPublish	0.49	1.315737	0.56817	1.92873	14.6941
		ers		786	218	55	115
94	2017	LonghornPublish	0.49	0.965445	0.49120	2.19470	14.4354
		ers		921	9608	24	062
95	2016	LonghornPublish	0.66	0.970250	0.49245	3.18276	14.4398
		ers		125	0229	64	134
96	2020	NMG		0.490054	0.32888	2.04023	16.2853
			0.2	204	3475	34	543
97	2019	NMG		0.551356	0.35540	1.93412	16.3084
			4.1	204	2713	99	432
98	2018	NMG	5.9	0.421498	0.29651	1.95356	16.2312
				934	7235	19	457
99	2017	NMG	6.9	0.386221	0.27861	2.02233	16.2421
				422	4524	47	081
100	2016	NMG	8.9	0.972641	0.97094	2.07391	15.9809
				303	5504	43	119
101	2020	NairobiBusiness	-1	-	3.63695	0.20390	10.2055
		Ventures		1.075068	845	9	162
				02			
102	2019	NairobiBusiness	-0.9	-	3.46928	1.50843	10.2410
		Ventures		2.681335	2911	81	306
				649			
103	2018	NairobiBusiness	-3.2	-	2.71140	1.64717	10.6768
		Ventures		3.725903	4905	47	543
				614			
104	2017	NairobiBusiness	-1.4	3.193954	1.30793	2.99027	11.6071

		Ventures		884	5237	63	168
105	2016	NairobiBusiness	0.08	2.118030	0.90763	2.73455	11.6640
		Ventures		616	6357	92	315
106	2020	SameerAfrica		8.438500	0.92443	1.47963	13.8615
			-0.23	296	9075	93	875
107	2019	SameerAfrica		21.15055	0.95485	0.86601	14.2413
			-3.82	49	4404	12	317
108	2018	SameerAfrica		1.290965	0.56350	0.90377	14.7663
			-1.9	299	2773	78	279
109	2017	SameerAfrica	0.05	0.615943	0.38116	1.54851	14.9040
				377	6436	06	281
110	2016	SameerAfrica	-2.34	0.825472	4.59246	1.58049	12.7064
				402	3023	45	448
111	2020	StandardGroup		2.621757	0.72389	0.50721	15.2154
			0.62	484	0955	96	218
112	2019	StandardGroup		1.952375	0.66128	0.59693	15.2496
			-0.28	792	9731	32	294
113	2018	StandardGroup	2.41	1.392721	0.58206	0.91203	15.3579
				034	578	66	82
114	2017	StandardGroup	-3.32	1.391434	0.58197	0.84689	15.3105
				205	1358	6	779
115	2016	StandardGroup	2.14	1.121739	0.52868	1.16927	15.2982
				671	8645	83	352
116	2020	ScanGroup	3.77	0.658556	0.39682	2.32565	15.9836
				843	0914	7	362
117	2019	ScanGroup		0.780054	0.43821	1.99990	16.3652
			1	896	9573	5	036
118	2018	ScanGroup		0.699205	0.41148	2.06987	16.4844
			1.37	325	9603	5	871
119	2017	ScanGroup		0.558412	0.36385	2.28160	16.4371
			1.2	005	566	56	973
120	2016	ScanGroup	0.29	0.531180	0.34694	2.37790	16.4171

				47	0451	08	922
121	2020	TPS	-6.32	1.094969	0.59996	0.66565	16.5287
				592	2739	33	09
122	2019	TPS	0.81	0.954786	0.58185	0.66492	16.5301
				633	3397	41	181
123	2018	TPS	0.69	0.925907	0.66497	0.43384	16.3589
				577	7947	27	26
124	2017	TPS	0.36	0.908190	0.55364	1.07877	16.5257
				49	7452	24	867
125	2016	TPS		0.845392	0.53745	1.63471	16.5057
			0.48	541	8352	68	084
126	2020	EACABLES		3.260021	0.76525	0.72082	15.5959
			-2	213	9385	05	364
127	2019	EACABLES	2.68	1.946637	0.66063	0.71761	15.6520
				809	0161	56	644
128	2018	EACABLES		3.398721	0.77266	0.25773	15.7031
			-1.92	614	1221	76	346
129	2017	EACABLES		2.746228	0.73306	0.59915	15.7668
			-2.24	182	4845	1	944
130	2016	EACABLES		19.52744	0.66133	0.59772	15.8368
			-1.8	876	128	88	47
131	2020	Bamburicement	2.89	0.387771	0.26703	1.81117	17.7163
				284	879	29	917
132	2019	Bamburicement	1.74	0.465174	0.30451	1.37706	17.7090
				904	258	41	64
133	2018	Bamburicement	2.45	0.505872	0.33615	1.32059	17.7346
				157	9819	85	482
134	2017	Bamburicement	4.54	0.421777	0.29665	1.66076	17.6699
				108	4874	48	68
135	2016	Bamburicement	10.4	0.368624	0.26933	2.69656	17.5244
			1	032	9149	54	622
136	2020	CROWNPAINT	8.42	1.948851	0.66088	0.11877	15.5437

		S		8	4959	78	731
137	2019	CROWNPAINT		3.223589	7.63276	0.99921	13.2215
		S	4.54	661	1843	94	279
138	2018	CROWNPAINT		4.105406	0.69561	0.83355	15.6172
		S	2.58	774	7522	53	763
139	2017	CROWNPAINT		2.158639	0.58811	1.26213	15.6797
		S	3.14	885	4934	96	801
140	2016	CROWNPAINT		1.406096	0.58438	1.18342	15.5586
		S	3.77	068	8997	15	958
141	2020		-	1.948851	0.10578	0.75043	17.3759
			30.7	8	9673	36	
		PortlandCement	7				
142	2019		-	3.223589	0.11532	0.99457	17.4139
			37.3	661	8505	04	483
		PortlandCement	5				
143	2018		87.2	1.763085	1.16318	0.24447	17.4426
		PortlandCement	6	484	6517	56	091
144	2017		-	0.619644	0.38258	0.31456	17.1244
			16.3	517	0567	23	972
		PortlandCement	5				
145	2016		46.0	0.551373	0.35540	0.42619	17.1420
		PortlandCement	6	061	9717	85	605
146	2020			0.954051	0.48824	1.99565	19.8387
		KenGen	2.79	107	2658	94	812
147	2019			1.058950	0.51431	1.31376	19.8105
		KenGen	1.2	09	557	96	244
148	2018			0.995506	0.49887	1.50444	19.7539
		KenGen	1.2	424	4076	7	777
149	2017			1.059351	0.51441	1.47509	19.7482
		KenGen	1.37	429	0224	47	769
150	2016			1.125987	0.52963	1.20485	19.7215
		KenGen	1.08	577	0365	7	501

151	2020			4.925069	0.83122	0.36285	19.6001
		Kenyapower	-0.48	675	5613	73	58
152	2019			4.841891	0.82882	0.38650	19.6100
		Kenyapower	0.13	86	2576	1	31
153	2018			4.243246	0.80927	0.51403	19.6345
		Kenyapower	0.98	833	8481	46	698
154	2017			4.230022	0.80879	0.77755	19.6183
		Kenyapower	2.71	343	6228	28	424
155	2016		3.87	3.876815	0.79494	0.94424	19.4839
		Kenyapower		899	8175	7	518
156	2020			0.600398	0.37515	2.05161	17.5764
		TOTALKENYA	5.24	238	5523	21	123
157	2019			0.540662	0.35092	2.15291	17.4415
		TOTALKENYA	4.03	87	8734	63	754
158	2018			0.732058	0.42265	1.76973	17.4856
		TOTALKENYA	3.67	878	2421	46	893
159	2017			0.774838	0.43656	1.73405	17.4534
		TOTALKENYA	4.35	974	8605	21	155
160	2016		3.55	0.870113	0.46527	1.64540	17.4041
		TOTALKENYA		684	315	33	655
161	2020			-	1.06609	0.59461	15.7211
				3.142081	1605	34	984
		HOMEAFRIKA	-0.48	626			
162	2019			-	1.06240	0.62893	15.6543
				3.441953	4178	25	104
		HOMEAFRIKA	-0.47	803			
163	2018			-	1.23373	0.68810	15.3201
				5.278402	2123	9	349
		HOMEAFRIKA	-0.68	083			
164	2017			-	1.15138	0.74318	15.3146
				7.605732	3919	81	484
		HOMEAFRIKA	-0.44	663			

165	2016			-	1.12631	0.75080	15.1841
				8.916464	9017	28	525
		HOMEAFRIKA	-0.39	391			
166	2020	OlympiaCapitalH	-0.1	0.297173	0.22909	16.8684	14.3495
		oldings			2804	53	87
167	2019	OlympiaCapitalH	0.11	0.267228	0.21087	1.59585	14.3020
		oldings		27	619	81	019
168	2018	OlympiaCapitalH	0.03	0.275062	0.21572	1.74353	14.3216
		oldings		432	4677	08	55
169	2017	OlympiaCapitalH		0.274644	0.21546	1.74637	14.2938
		oldings	0.65	082	7271	24	345
170	2016	OlympiaCapitalH		0.310057	0.23667	2.38566	14.2896
		oldings	0.26	95	4988	66	674
171	2020	KurwituVenture	-71	0.001056	0.03356	3.00972	14.6122
		S		932	0405	33	914
172	2019	KurwituVenture	-105	0.001025	11.5117	3.53652	8.41227
		S		169	7255	79	702
173	2018	KurwituVenture	-36	0.002354	18.3406	0.63854	8.95931
		S		94	1697	24	162
174	2017		-	0.002006	10.9653	3.00972	9.39864
		KurwituVenture	105.	121	7442	33	4
		S	06				
175	2016	KurwituVenture		0.735971	0.42802	2.74076	11.7933
		S	-35.4	111	7499	98	563
176	2020			0.572951	0.54249	13.5297	14.6541
		NSE	0.65	914	9695	77	191
177	2019			0.683567	0.63595	7.85299	14.6230
		NSF	0.3	251	1375	94	577
		INDE					
178	2018	NSL		0.058518	0.05528	9.49623	14.6122
178	2018	NSE	0.73	0.058518 486	0.05528 3386	9.49623 53	14.6122 914
178 179	2018 2017	NSE	0.73	0.058518 486 0.047882	0.05528 3386 0.04569	9.49623 53 12.0481	14.6122 914 14.5613

180	2016			0.080831	0.07478	7.32915	14.5155
		NSE	0.71	068	6033	26	067
181	2020			0.490248	1.43673	0.86409	17.7036
		Safaricom	1.84	469	9844	9	957
182	2019			0.333425	0.96336	1.07998	17.7267
		Safaricom	1.56	703	9963	44	132
183	2018			0.351251	1.58491	0.63094	17.1283
		Safaricom	1.38	675	734	77	138
184	2017			0.504215	2.15413	0.46422	17.0407
		Safaricom	1.21	599	8882	26	59
185	2016			0.363576	1.53450	0.65167	17.1354
		Safaricom	0.95	209	7377	49	758
186	2020	STANLIBFAHA		0.028605	0.02781	3.59069	15.1723
		RI	0.74	534	0006	32	107
187	2019	STANLIBFAHA		0.030558	0.02965	3.53228	15.1709
		RI	0.8	728	2575	53	459
188	2018	STANLIBFAHA		0.034553	0.03339	3.74411	15.1642
		RI	0.71	966	9859	12	643
189	2017	STANLIBFAHA		0.260341	0.25373	1.35939	15.1403
		RI	0.82	756	595	48	621
190	2016	STANLIBFAHA		0.036108	0.03485	9.85001	15.1278
		RI	0.54	916	0502	16	922
191	2020	TRANCENTUR		2.492531	1.67000	0.26716	16.3456
		Y	-3.30	634	255	57	134
192	2019		-	-	1.54855	0.27821	16.3809
		TRANCENTUR	10.6	2.822980	2091	57	586
		Y	1	927			
193	2018		-7.95	-	1.19825	0.25305	16.6290
		TRANCENTUR		6.043954	7146	09	121
		Y		371			
194	2017	TRANCENTUR	-	-	1.00597	0.40486	16.7462
		Y	10.2	168.2807	7974	1	223

			3	476			
195	2016	TRANCENTUR	-1.56	3.937914	0.79748	0.50362	16.7552
		Y		799	5368	49	835
196	2020	Centum	10.2	0.935738	0.48340	1.85882	18.4391
			5	051	1461	56	453
197	2019	Centum		0.973088	0.49318	1.89867	18.4381
			6.68	608	0389	92	636
198	2018	Centum		0.887826	0.46929	2.44974	18.3828
			3.96	736	86	84	551
199	2017	Centum	10.9	0.786498	0.44024	2.60639	18.2972
			3	839	5928	16	197
200	2016	Centum	11.7	0.804361	0.44578	2.74585	18.1729
			5	684	7338	55	055
201	2020	UMEME	0.9	2.318006	0.69860	0.54444	18.3022
				947	6389	55	8
202	2019	UMEME	2.9	2.049380	0.67205	0.72769	18.2549
				939	6654	49	213
203	2018	UMEME	2.7	2.411332	0.70685	0.44679	18.2237
				198	939	58	043
204	2017	UMEME	0.7	2.803817	0.73709	0.60263	18.1762
				758	6815	51	369
205	2016	UMEME		2.702102	0.72988	0.81124	18.1068
			2	863	3248	59	053
206	2020	UCHUMI	-0.1	-	0.81020	0.08722	16.2940
				1.142155	5251	82	652
				261			
207	2019	UCHUMI	-0.49	-	0.73909	0.08876	16.3491
				1.155323	728	59	763
				066			
208	2018	UCHUMI	-0.2	-	0.65448	0.86934	16.4219
				1.193234	5992	05	104
				207			

209	2017	UCHUMI	-4.61	-	1.78216	0.08273	15.2804
				2.278491	9521	4	513
				189			
210	2016	UCHUMI	-7.77	3.890597	0.14198	0.25870	17.7275
				257	5567	56	779