



Determinants of dividend policy In Ethiopian private banks

Thesis submitted to Accounting and Finance Department for Partial Fulfillment of the requirement for Master of Science in Accounting and Finance

By

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Statement of Declaration

I, Tadele Tesfaye, hereby declare this thesis on the topic entitled: Determinants of Dividend Policy in Ethiopian Private Banks submitted in partial fulfillment of the requirement degree of Master of Science program in Accounting and Finance with the guidance and support of the research advisor.

This study is my original work and that has not been presented for any degree or diploma program in any other university/institutions, and that all source of materials used for the thesis have been duly acknowledged.

Declared by: Tadele Tesfaye

Signature _____

Date _____

Statement of certification

This is to certify that the thesis prepared by Tadele Tesfaye, topic entitled: Determinants of Dividend Policy in Ethiopian Private Banks and submitted in partial fulfillment of the requirements for the degree of Master of Science in Accounting and Finance compiles with the regulations of the University and meets the accepted standards with respect to originality and quality.

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Abstracts

The dividend policy is one of the most debatable topics within corporate finance and some academics have called the company's dividend policy unsolved puzzle. Even though a lot of researches regarding dividends have been conducted, there is no uniform answer to the question: what are the determinants of the companies' dividend policy? Therefore, the researcher of this study decided to conduct a study regarding the determinants of dividend policy of Ethiopian private banks using bank specific factors and macro variables. The main objective of this study was to identify the determinants of dividend policy of Ethiopian private banks. To answer the objective of the study, explanatory and descriptive study used & the data covered the period from 2000-2015 for the sample of six Ethiopian private banks and used secondary and primary data. Both bank specific and macroeconomic variables were analyzed by employing the balanced panel fixed effect regression model and the study used dividend policy as a dependent variable and seven independent variables; they are profit, leverage, liquidity, retained earnings, loan loss provision, lagged dividend payout, economic growth rate and inflation rate. The result of the study revealed that profit, leverage, and lagged dividend payment have positive and statistically significant impacts on dividend policy of Ethiopian private banks while retained earnings, loan loss provision, inflation have negative and statistically significant impact on dividend policy of Ethiopian private banks whereas liquidity and economic growth rate were found to be statistically insignificant and have no any impact on dividend policy of Ethiopian private banks.

Keywords: *Dividend policy, Ethiopian private banks, bank specific factors, macro variables*

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Table of Contents	Page
Chapter One: Introduction	
Statement of Declaration	I
Statement of Certification	II
Abstracts	III
Acknowledgement	IV
Table of Contents	VI
List of Tables	VII
List of Figures	VIII
List of Acronyms and Abbreviations	VIII
1. Background of the Study	1
2. Overview of Banking Sector in Ethiopia	2
3. Problem Statement	3
4. Objective of the Study	5
4.1 General Objective	5
4.2 Specific Objective	5
5. Hypothesis of the Study	6
6. Significance of the Study	9
7. Scope of the Study	9
8. Limitations of the Study	10
9. Organization of the Study	10
Chapter Two: Literature Review	
2. Theoretical Literatures	11
2.1 Concept of Dividend	11
3. Background of Corporate Dividend Policy	12
4. Theoretical Background	14
4.1 Dividend Irrelevance Theory	14
4.2 Dividend Relevant Theories	15
4.3 The “Bird-in the Hand” Theory	15
4.4 Signaling Theory	16
4.5 Agency Theory	18

4.6 Tax Preference Theory	21
4.7 Peaking Order Theory	22
4.8 Clientele Effect Theory	23
4.8.1 Tax-Induced Clientele	23
4.8.2 Transaction Cost-Induced Clientele	23
5. Types of Dividend Policy	24
5.1 Fixed Percentage Payout Ratio Policy	24
5.2 Zero Dividend Policy	25
5.3 Constant or Steadily Increasing Dividend	25
5.4 Residual Policy	26
5.5 Smoothed Residual Dividend Policy	26
5.6 Alternative Policies to Paying Cash	26
5.7 Alternatives to Cash Dividend	27
5.7.1 Scrip Dividends	27
5.7.2 Share Repurchases	27
5.7.3 Special Dividends	27
6. Empirical Literature	28
7. Literatures Gap	33
8. Conceptual Frame Work	34
9. Definition and Measurement of Variables	35
 Chapter Three: Research Methodology	
3. Type of Study	37
3.1 Research Approach	37
3.2 Research Method	38
3.3 Sampling Method	38
3.4 Type of Data	39
3.5 Data Source and Collection Method	39
3.6. Data Analysis Method	39
3.7. Model Specifications	40
 Chapter Four: Results and Discussions	
4. Tests for the Classical Linear Regression Model (CLRM) Assumptions	42

4.1 Tests for Classical Linear Regression Assumptions	42
4.1.1 Assumption one: The errors have zero mean ($\epsilon = 0$)	42
4.1.2 Assumption two: Test for Homoscedasticity	42
4.1.3 Assumption three: Tests of Autocorrelation	43
4.1.4 Test for Normality Assumption ($U_t \sim N(0, \sigma^2)$)	44
4.1.5 Assumption Four: Test for Multicollinearity	45
4.3 Descriptive Statistics	46
4.4 Choice of Regression Results	50
4.4.1 Choosing Random Effect Verses Fixed Effect Model	50
4.5. Analysis and Interpretation of Regression Result	51
4.6. Interviews Results	55
4.7 Discussions of the Regression Results	56
4.8. Summary of the Analysis	62

Chapter Five: Conclusions and Recommendations

5.1 Conclusion	63
5.2. Recommendations	65

References

Appendix

List of Tables

Table 4.1: Heteroscedasticity Test: White	43
Table 4.2: Breusch-Godfrey Serial Correlation LM Test	44
Table 4.3: Correlation Matrix Between Independent Variables	46
Table 4.4: Descriptive Statistics	47
Table 4.5: Correlation Matrix of Dependent and Independent Variables	49
Table 4.6: Cross-Section Fixed Effects Test	51
Table 4.7: Regression Result- Fixed Effect Model (FEM)	53
Table 4.8 Comparison of the Test Result with the Expectation	62

List of Figures

Figure 4.1 Rejection and Non-Rejection Regions for DW Test	43
Figure 4.2 Normality Test	45

List of Acronyms and Abbreviations

CBE – commercial bank of Ethiopia

CLRM – Classical linear regression model

CSA – Central statistical agency

DVPO – Dividend payout

DW – Durbin-Watson

ECOG – Economic growth

FEM – Fixed Effect Model

GDP – Gross domestic product

INF - Inflation

LDVP – Lagged dividend payment

LEV – Leverage

LIQ – Liquidity

LLP- loan loss provision

M&M – Miller and Modigliani

MOFED – Ministry of finance economic development

NBE – National bank of Ethiopia

OLS- ordinary list square

NPV – Net present Value

RER- Retained earnings

PRO – Profitability

REM – Random Effect Model

ROE – Return on equity

USA – Unites States of America

Chapter One: Introduction

This chapter begins with presenting background of the study followed by statement of the problem, objective of the study, hypotheses of the study, significance of the study, scope & limitation of the study.

1. Background of the study

Dividend policy is one of the major decisions in corporate finance. Dividend is an appropriation or distribution of profit to shareholders. Dividend policy is a payout policy that managers follow in deciding the size and pattern of cash distribution to shareholders (Rozeff, 1982). Corporate dividend policy has been the concern of financial managers, and firms at large. Firms are faced with dilemma of sharing dividend to stockholders and retaining their earnings with the view to reinvesting it back into the business so as to promote further growth of the business. As the business grows, then earnings flow of the stockholders grows over time. The decision of the firm regarding how much earnings could be paid out as dividend and how much could be retained is the concern of dividend policy decision (Marfo-Yiadom and Agyei, 2011).

Researchers have asserted that firms use dividends as mechanism for financial signaling to the outsiders regarding the stability and growth prospects of the firm. Paying out more cash dividends will tend to increase the price of the stock. However, increasing cash dividends means that less money is available for reinvestment. Reinvesting back fewer earnings into the business will lower the expected growth rate. Alternatively, earnings retained are the most important internal sources of financing the growth of the firm. In practice every firm follows some kind of dividend policy, which retains a portion of the net earnings in such a manner that it will not constitute a threat to dividend payment (Chigazie, 2010).

Even though many research conducted by a number of researchers, the issue of dividend policy determinants still remains unresolved. Bearley and Myers (2003) listed dividends issue as one of the top ten important unresolved issues in the field of advanced corporate finance. Black and Scholes (1974) comprised it that dividends are the primary puzzle in the economics of finance. Black (1976) wrote that “the harder we look at the dividend picture, the more it seems like a puzzle, with pieces that just do not fit together”.

Now a day, a lot share companies like banks are emerging following economic growth of Ethiopia, the people making a huge investment in these companies and the companies also pay dividend as a return from their profits for shareholders, as it is observed, there is only a few studies have been conducted on determinants of dividend policy of companies in Ethiopia so this condition requires more studies to be conducted on the factors that determine dividend payout decision in Ethiopian private banks .

To knowledge of the researcher, Most of the studies conducted on determinants of dividend policy of Ethiopian firms are on company perspective where they focus on factors which are within the control of the firms. So there is a need to investigate whether bank specific factors and macroeconomics variables are determinant factors of dividend policy of Ethiopian private banks factors. Thus, the researcher of this paper is highly inspired to fill this academics literature gap.

2. Overviews of Banking Sector in Ethiopia

In Ethiopia banking history, bank of Abyssinia was the first bank established in 1905, and owned and managed by British-owned National bank of Egypt. Bank of Ethiopia which totally owned by Ethiopian government and the first African owned bank was established in 1931. During the period of Italian occupation, the operation of banking industry held by Italian banks. They open their branch throughout country. After the 1942 liberation, the Ethiopian government took up the tasks of reorganizing the monetary and credit conditions of the country. It then established the State Bank of Ethiopia in 1943. In 1963 the monetary banking proclamation split the bank in to two separate banks as The National Bank of Ethiopia (NBE) and the Commercial Bank of Ethiopia (CBE).

Addis Ababa bank the first private owned bank was established in 1964. Half of the bank share was held by Grindly Bank (Mauri, 2010). During the Derg, regime after the fall of imperial government in 1974, Ethiopia followed command economic system. The Banking sector was changed into a mono-banking system. The banking role also shaped to socialist economy principle that the country adopted. Housing and saving bank and Agriculture and Industrial development bank were established in 1975 and 1979 respectively. Commercial Bank of Ethiopia which was re-established in 1980 by combining the assets and liabilities of old Commercial Bank and Addis Ababa bank becomes the only bank rendering universal

banking services to the public. After the fall of Derg, the Ethiopian government adopted market based economic system. In 1994 the new monetary and banking proclamation issued and banks reorganized according to the proclamation based on market economic policy. This proclamation also established the National Bank of Ethiopia as legal entity and present legal basis for investment in the banking sector. As a result the proclamation many private banks and insurance companies begin their operation.

Currently there are 17 commercial banks operating in the banking sector out of this one of them is state owned and the rest are private commercial banks.

The dividend policy is one of the most debatable topics within corporate finance and some academics have called the company's dividend policy an unsolved puzzle. Even though a lot of researches regarding dividends have been conducted, there is no uniform answer to the question: what are the determinants of the companies' dividend policy?

3. Problem Statement

The dividend payout policy is one of the most debatable topics within corporate finance and many academics have been trying to find the missing pieces in the dividend puzzle for more than half a century (Baker and Powell, 2000). But a dividend is not a new phenomenon, dividend payouts to shareholders have been a standard procedure for most companies in hundreds of years. However, there is extensive debate and one of the most powerful arguments towards the impact of dividend was presented by Modigliani and Miller (1961). They stated that under perfect capital markets, without any taxes, and transaction costs the company value is independent of the dividend policy. Instead the firm value is solely depended of the earning power of the company's assets and its investment policy and not by how its profits are distributed to shareholders (Modigliani & Miller, 1961). In contrary, Linter (1956) argued that that dividend is relevant because it has an impact on the company's value by disregarding the assumption presented by Modigliani and Miller (1961) and concluded by him that in the real world dividends depend on the company's earnings and as the firm pays dividends the value of the firms increase. Linter's research also was supported by Gordon (1959) who stated that the shareholders prefer dividends to capital gains. Thus, the company's dividend payouts are important both to shareholders and managers since it

contributes to a higher value of a firm and shareholders would be willing to pay a higher price for stocks that pay dividends.

Since the argument persists to date, it is important to study factors that affect the dividend policy because it can be used as a mechanism to signal financial information to the outsiders regarding the stability and growth prospects of the firm, it can play an important role in a firm's capital structure, it can be affected by the firm's investment decisions, a firm's stock price is affected by the dividend pattern. Firms prefer not to reduce or eliminate dividend payments because they are confident of keeping up with their good performance because the success of a financial manager is tied to the maximization of shareholder wealth so it is needed to understand the determinants of dividend policy of firms (Butros, 2014).

In Ethiopia a lot of researches have also been conducted in order to describe the factors affecting the company's dividend payouts. For example, Hailemariam (2013) investigated the determinants of dividend policy of banks in Ethiopia by taking panel data for ten years' time period (2002-2011) for five banks and analyzed through panel least square method with fixed effect model. The study concluded that current earnings, previous year's dividend, bank's age and loan loss provision have positive and statically significant impact on the banks dividend payment whereas liquidity has negative impacts on bank dividend decision. Mitiku (2015) examined the determinants of dividend payout in Ethiopia private banks using banks audited financial statements from 2009/10 to 2013/14 and analyzed a panel data through regression technique. The study concluded that lagged dividend payout, growth, size, and risk have statistically significant impact on dividend payout. Profitability, liquidity, leverage have no statistically significant impact on dividend payout.

To knowledge of the researcher, most of the studies conducted on determinants of dividend policy of Ethiopian firms are on company perspective where they focus on factors which are within the control of the firms. Thus, there is a need to investigate whether bank specific factors and macroeconomics variables are determinant factors of dividend policy of Ethiopian private banks .As per Zipporah (2013) and Mitiku's (2015) recommendation that using company specific and macroeconomic factors that determine dividend payout is good instead of using macroeconomic variable and firm specific factors separately as the only determinant of dividend payout because it was possible to understand from findings of Basse

and Reddeman (2011) and Ghafoor et al. (2014) that macroeconomic factors: economic growth and inflation rate have impact on dividend policy of firms. Thus, the researcher of this paper is highly inspired to investigate whether bank specific factors and macro-economic variables jointly are determinant of dividend policy of Ethiopian private banks and fill this academics literature gap.

4. Objective of the study

4.1 General objective

The general objective of this study is to investigate determinants of dividend policy of Ethiopia private banks.

4.2 Specific objective:

- To examine whether profit has impact on the dividend policy of Ethiopian private banks.
- To investigate whether leverage has impact on the dividend policy of Ethiopian private banks.
- To identify whether liquidity has impact on the dividend policy of Ethiopian private banks.
- To evaluate whether retained earnings has impact on the dividend policy of Ethiopian private banks.
- To examine whether loan loss provision has impact on dividend policy of Ethiopian private banks.
- To investigate whether lagged dividend payment has impact on dividend policy of Ethiopian private banks.
- To identify whether economic growth rate has impact on dividend policy of Ethiopian private banks.
- To evaluate whether inflation rate has impact on dividend policy of Ethiopian private banks.

5. Hypothesis of the study

Profitability

Profitability measures the business performance. It is defined as the ability of a firm to generate profit. A firm's profitability is considered to be an important factor that affects dividend policy. This is because profitable firms are willing to pay higher amounts of dividends and hence a positive relationship is expected between firm's profitability and its dividend payments. This result is also supported by the signaling theory of dividend policy. Ayodeji and Lukmon (2014), Alzomain & Al-Khadiri (2013), Zameer et al. (2013), Hailemariam (2013), Nsikan Edet et al. (2014), Wasike & Amborse (2015), Awad (2015), Mirbagherijam (2014) Basse and Reddeman (2011) and Nohu (2014) found also a positive significant relationship between profit and dividend payout. Therefore, based on the above theory and empirical findings, the study hypothesizes that:

Hypotheses 1: Profit has a positive significant impact on dividend policy in Ethiopian Private Banks.

Leverage

Debt level is a ratio which shows the extent to which a firm is financed by external funds. Agency models suggest that dividend payments and capital structure can reduce the problems related to information asymmetry. Dividends and debt financing can serve as a mechanism to reduce cash flow under management control, and help to mitigate the agency problems. Therefore, a negative relationship is expected between dividend policy and capital structure. This means that firms with low debt ratios are willing to pay more dividends. It is supported by pecking order theory. Pecking order theory states that external financing is more costly compared to internal financing. Ayodeji and Lukmon (2014) Alzomain & Al-Khadiri (2013), Agyemang (2013), Mitiku (2015) found also a negative significant relationship between leverage and dividend payout. Therefore based on the above theory and discussion, the study hypothesizes that:

Hypotheses 2: Leverage has a significant negative impact on dividend policy in Ethiopian Private Banks.

Liquidity

A firm's liquidity is an important factor that affects the distribution of cash dividends. Liquidity measures the extent to which a firm is able to meet its payment of obligations. High liquid firms, i.e., firms with higher cash availability and near cash assets, pay higher dividends to shareholders than those with insufficient cash. This positive association between liquidity and dividend policy is supported by agency theory. Agency theory stated; companies with higher free cash flow have higher dividend payout ratios. A poor liquidity position means less generous dividend due to shortage of cash. Although, firms may have large retained earnings to declare dividend, it may not have sufficient funds to make such payment. Furthermore, if a firm chooses a high dividend payout without the cash flow to back it up, that firm will ultimately have to reduce its investment plans or turn to investors for additional debt or equity financing. All of these consequences are costly. Therefore, most managers do not increase dividends until they are confident that sufficient cash will flow in to pay them (Brealey et al. 1999). Ayodeji and Lukmon (2014) Agyemang (2013), & Zameer et al. (2013) found also a negative significant relationship between liquidity and dividend payout. Based on the foregoing discussion, the study hypothesizes that:

Hypotheses 3: Liquidity has a significant positive impact on dividend policy in Ethiopian Private Banks.

Retained earnings

Retained earnings represent part of the undistributed earnings of a company that are needed for future expansion of the firm i.e a firms retain more funds of its annual profit every year ,pay less dividend to shareholders than those retain less funds. Onali (2009) and Huda and Farah (2011) found a negative relationship between retained earnings and dividend payout. Therefore based on the above discussion, the study hypothesizes that:

Hypotheses 4: Retained earning has a significant negative impact on dividend policy in Ethiopian Private Banks

Loan Loss Provision

The loan loss provision is a measure of a bank's credit quality. A higher ratio goes together with a lower credit quality resulting in a lower profitability. Thus, lead to a lower dividend payout. Dietricha and Wanzenried (2009) & Ayodeji and Lukmon (2014) examined the relationship between the loan loss provisions and profitability and found loan loss provisions has negative effect on dividend payout. Therefore, based on the above discussion, the study hypothesizes that:

Hypotheses 5: Loan loss provision has a significant negative impact on dividend policy in Ethiopian Private Banks.

Lagged dividend

It is a dividend paid by a firm before one year, mostly firms strive not cut dividend payment from preceding year, instead they try to increase payout ratio. Thus, it has positive impact on current dividend payout. It is supported by signal theory where companies wants to give a positive signal to the market that the company is in good condition whereby it is continuing paying dividends. Zameer et al. (2013), Hailemariam (2013), Mitiku (2015), NsikanEdet et al. (2014), Alzomaia& Al-Khadhiri (2013), Rehaman (2012) & Maladjian & El-khoury (2014) found positive relationship between last year dividends and current period payout ratio. Therefore, based on the above discussion, the study hypothesizes that:

Hypotheses 6: A previous lagged dividend has a significant positive impact on dividend policy in Ethiopian Private Banks.

Economic growth

An increase in real economic activity increases the corporate earnings of different sectors operating in the economy leading to higher earnings which may ultimately lead to higher dividend payments. Ghafoor et al. (2014) found positive relationship between economic growth and dividend payout while Basse and Reddeman (2011) found negative relationship between economic growth and dividend payout. Therefore, based on the above discussion, the study hypothesizes that:

Hypotheses 7: Economic growth has a significant positive impact on dividend policy in Ethiopian Private Banks.

Inflation

During inflationary periods, companies usually retain huge part of their earnings so as to avoid a reduction in their scale of operation and to compensate for the fall in purchasing power, hence, would not be able to pay much dividend. If this occurs, the relationship between inflation rate and dividend payout would be negative. On the other hand, shareholders on their part would advocate for higher dividend due to the fall in purchasing power. Given this, the relationship between dividend payout and inflation rate would be positive. Mirbagherijam(2014) found positive relationship between inflation and dividend payout. Nsikanet al. (2014) found a negative relationship between inflation and dividend payout. Based on the foregoing discussion, the study hypothesizes that:

Hypotheses 8: Inflation has a significant negative impact on dividend policy in Ethiopian Private Banks.

6. Significance of the Study

This study has so many importances from different perspectives. It examines determinants of dividend policy of Ethiopian private banks and the findings enable board of directors, management, shareholders of banks and investors to identify significant factors affecting dividend payout. It reminds board of directors and management of the bank which bank specific factors and macro-economic variables should be taken into account before making dividend decision and establishes dividend policy. Even if some researchers conducted study related to dividend policy in Ethiopia, they have not incorporated the effect of inflation and real economic growth rate on dividend payout in their study to identify factors determine dividend policy of share companies but this study fills this literature gap and paves the way for other researchers who are interested to make further investigation in this area. It may serve as additional source of reference and tests various theory related to dividend policy.

7. Scope of the study

This study focused only on identifying the determinants of dividend policy of Ethiopian private banks. By doing so samples of six private banks were selected from the banking sector and analysis done only for sixteen years period. Therefore, the study has been limited to financial institution, specifically to private owned commercial banks In Ethiopia.

8. Limitation of the Study

Because of the ownership structure, Government commercial bank has been excluded from the sample and the generalization given for only Ethiopian private commercial bank in Ethiopia and because of this the study was conducted on Ethiopian private banks with long term dividend payout history and experience in the industry. Shortage of pervious similar researches in Ethiopian case, and limited resource may affect the qualities of the study output. This study does not consider the possible effect of absence of secondary market on dividend policy.

9. Organization of the Study

This study has five chapters. The first chapter included background information, statement of the problem, research hypotheses, objective, significance, scope and limitation of the study. The second chapter deals about review of literature, theoretical and empirical reviews. The third chapter deal about the research design and methodology, it includes research approach, data collection and analysis methods. The fourth chapter presents the research results including descriptive statistics result and regression result for models. The last chapter gives recommendation and conclusion.

Chapter Two: Literature Review

The second chapter introduces the reader with the necessary theoretical background and presents the most relevant theories and previous empirical studies related with determinants of dividend payout. The last part of the chapter discusses the company selected factors & macro-economic variables included in the research.

2. Theoretical literatures

2.1 Concept of Dividend

In discussing about dividend, it is important to highlight what a dividend is? Dividend is simply the money that a company pays out to its shareholders from the profits it has made (Ross et al. 2002). Such payments can be made in cash or by issuing of additional shares as a dividend (Brealey & Myers, 2003). Investopedia however, defined it as the amount payable to shareholders from profit or distributable reserves; it is a distribution of a portion of a company's earnings, decided by the board of directors, to a class of its shareholders. Companies that are listed in the stock exchange are usually obligated to pay out dividends on a quarterly or semiannual basis. The semiannual or quarterly payment is referred to as the interim dividend. The final payment, which is usually paid at the end of the financial year of the company, is known as the final dividend. Dividends are normally paid after the corporate tax has been deducted. The decision whether or not to pay a dividend rests in the hands of board of directors of a corporation (Brealey & Myers, 2003). A dividend is distributable to shareholders of record on a specific date. When a dividend has been declared, it becomes a liability of the firm and cannot be easily rescinded by the corporation. The amount of the dividend is expressed as dollars per share (dividend per share), as a percentage of the market price (dividend yield), or as a percentage of earnings per share (dividend payout) (Ross et al. 2002).

Most companies pay a regular cash dividend each quarter, but occasionally this regular dividend is supplemented by a one-off extra or special dividend. Dividends are not always in the form of cash. Frequently companies also declare stock dividends. That means it sends each shareholder some extra shares for every shares currently owned. A stock dividend is very much like a stock split. Both stock dividends and splits increase the number of shares,

but the company's assets, profits, and total value are unaffected. Eventually both reduce value per share. The distinction between the two is technical. A stock dividend is shown in the accounts as a transfer from retained earnings to equity capital, whereas a split is shown as a reduction in the par value of each share (Rosset al. 2002) & (Brealey & Myers, 2003).

Dividend policies tend to be one of the most stable and predictable elements of a company, and most companies began to pay dividends once they reach a level of business maturity where attractive investment opportunities are generally less available while cash flow generation is stable or growing more slowly when compared to the past. Decreasing or eliminating a dividend is tantamount to an announcement that the firm is financially distressed. Directors weigh dividend policies very carefully, they rarely lower dividends unless they have to, and they do not raise dividends unless they are confident that it can be sustained (Ross et al. 2002). When a company announces a larger than expected dividend or unexpectedly announces a dividend cut or omission, the market reaction is dramatic and sudden. Thus a stable dividend policy should convey stability or lower risk within the enterprise.

3. Background of Corporate Dividend Policy

As per Al-Malkawi et al. (2010) the issue of corporate dividends has a long history and is bound up with the development of the corporate form itself. Corporate dividends date back at least to the early sixteenth century in Holland and Great Britain when the captains of sixteenth century sailing ships started selling financial claims to investors, which entitled them to share in the proceeds, if any, of the voyages. At the end of each voyage, the profits and the capital were distributed to investors, liquidating and ending the ventures life. By the end of the sixteenth century, these financial claims began to be traded on open markets in Amsterdam and were gradually replaced by shares of ownership. It is worth mentioning that even then many investors would buy shares from more than one captain to diversify the risk associated with this type of business. At the end of each voyage, the enterprise liquidation of the venture ensured a distribution of the profits to owners and helped to reduce the possibilities of fraudulent practice by captains. However, as the profitability of these ventures was established and became more regular, the process of liquidation of the assets at the conclusion of each voyage became increasingly inconvenient and costly. The successes of

the ventures increased their credibility and shareholders became more confident in their management (captains), and this was accomplished by, among other things, the payment of “generous dividends”. As a result, these companies began trading as going concern entities, and distributing only the profits rather than the entire invested capital. The ownership structure of shipping firms gradually evolved into a joint stock company form of business. But it was chartered trading firms more generally that adopted the joint stock form. In 1613, the British East India Company issued its first joint stock shares with a nominal value. “No distinction was made, however, between capital and profit”. In the seventeenth century, the success of this type of trading company seemed poised to allow the spread of this form of business organization to include other activities such as mining, banking, clothing, and utilities. Indeed, in the early 1700, excitement about the possibilities of expanded trade and the corporate form saw a speculative bubble form, which collapsed spectacularly when the South Sea Company went into bankruptcy. In the early stages of corporate history, managers realized the importance of high and stable dividend payments. In some ways, this was due to the analogy investors made with the other form of financial security then traded, namely government bonds.

In addition to the importance placed by investors on dividend stability, another issue of modern corporate dividend policy to emerge early in the nineteenth century was that dividends came to be seen as an important form of information. The scarcity and unreliability of financial data often resulted in investors making their assessments of corporations through their dividend Payments rather than reported earnings. In short, investors were often faced with inaccurate information about the performance of a firm, and used dividend policy as a way of gauging what management’s views about future performance might be. Consequently, an increase in divided payments tended to be reflected in rising stock prices. As corporations became aware of this phenomenon, it raised the possibility that managers of companies could use dividends to signal strong earnings prospects and/or to support a company’s share price because investors may read dividend announcements as a proxy for earnings growth (Al-Malkawi et al. 2010).

4. Theoretical Background

Starting the 1961 Miller and Modiglian dividend irrelevant controversial preposition, scholars in corporate finance developed large numbers of theories to show how the firms dividend policy affect it value and what factors affect their dividend payment. Among them, Bird-Hand theory Gordon (1963), tax preference theory Brennan (1970). Agency theory of Jensen and Meckling (1976), signaling theory, Aharony and Swary(1980) and transaction cost and residual theory Mueller (1967) are the major ones.

4.1 Dividend Irrelevance Theory

The question of effect of dividend on firm's value has been controversial one for many years. Dividend irrelevant school originated with the paper published by Miller and Modiglian (1961). They argued that, under the certain assumption, the firm's value not depends on mixture of debt and equity, demonstrating capital structure is irrelevancy. Capital structure and dividend policy closely related. Cash paid as dividend leaves the firms with less equity and potentially a greater need to rise additional stock or debt in future. Consequently MM capital structure result is so crucial to dividend irrelevant. Investment decision was responsible for a company future profitability and hence the only decision determines market value (Miller and Modigliani, 1961).

Millor and Modiglian argue that share valuation is independent of level of dividend paid by the company the reason that any increase in dividend at some point in time is exactly offset by decrease somewhere else, so the net effect once account for the time value is zero. Dividend does not enrich shareholder, they simply modify the wealth composite, like a transfer from left hand to the right hand pocket. Millor and Modiglian were not arguing that dividend are residual payments, they were arguing was that as long the company followed its optimal investment policy, its value completely unaffected by its dividend policy. Hence according to MM a company choice of dividend policy, given its investment policy, it really a choice of financing strategy. In developing their dividend theory MM made a number assumptions:

- There is no transaction cost associated with converting share in to cash by selling them.
- Firms can issue shares without incurring flotation or transaction cost'

- There is tax at either a corporate or personal level.
- Capital market are perfect efficient.

Milloer and Modiglian, also did not argue, as is often assumed that investor were not concerned whether they receive dividend or not rather, they argue that shareholders were indifferent to timing of dividend payments. If no dividend were paid because all earnings consumed by the company's optimum investment schedule, the market value of the company would increase to reflect the expected future dividend payments or increase share price resulting from investment return.

4.2 Dividend Relevant Theories

The Dividend irrelevant argument given by Millor and Modiglian was not accepted since the assumption of perfect financial market did not exist and the real world market imperfect so the firm's dividend decision have an impact its value. After this conclusion researchers developed a large numbers of theories and models to show how dividend policies affect the firm's value. Among them, Bird-Hand theory, Gordon and Walter (1963), tax preference theory Brennan (1970), Agency theory of Jensen and Meckling (1976), signaling theory, Aharony and Swary (1980) and transaction cost and residual theory Mueller (1967) are discussed in the following sections.

4.3 The “Bird-in the Hand” Theory

The name “bird in hand” is the umbrella term for all studies that argues that dividends are positively correlated to the company's value. It is based on the expression that “a bird in the hand is worth more than two in the bush”. Expressed in financial terms, the theory says that investors are more willing to invest in stocks that pay current dividend rather than to invest in stocks that retain earnings and pay dividends in the future. This is due to the high degree of uncertainty related to capital gains and dividends paid in the future (Al-Malkawi et al. 2010)&(Gustav&Gairatjon,2012). Gordon (1959) gave the bird in hand theory. He maintained that the discounted value of near future dividends is higher than the present value of distant dividends. He argued that the dividends to be received in future have much uncertainty as compared to the dividends in the near future since the shareholders would prefer certain returns the stock prices would be higher for the dividend paying stocks as

compared to the companies paying lesser dividends. In a world of uncertainty and imperfect information, dividends are valued differently to retained earnings (or capital gains). Increasing dividend payments, *ceteris paribus*, may then be associated with increases in firm value. As a higher current dividend reduces uncertainty about future cash flows, a high payout ratio will reduce the cost of capital, and hence increase share value (Al-Malkawi et al. 2010). Moreover, when making dividend payouts, the firm gets a higher rating from rating agencies as compared to a firm not making any dividend payout. With a better rating, the firm will be able to raise finance more easily from capital markets since credit institutions will be willing to give loans to the firm since the payout of dividends shows that the firm has the ability to meet its obligations. Moreover, in some cases, the firm will be able to borrow at preferential rates and enjoy better facilities (Kinfu, 2011). Lintner's (1956) main arguments towards the bird in hand theory is based on that most companies are conservative in their financing policy and the dividend payments are therefore, based on an optimal payout ratio. The principal factor that contributes to deviations from the optimal payout ratio is due changes in the company's profit, and if the profit increases the dividend payout should increase in the same proportions. But uncertainty regarding future profits also has an impact on the company's dividends. If the estimated risk in the future is higher than the current risk, the company may decrease the dividend payout ratio.

4.4 Signaling Theory

Another hypothesis for why M&M's dividend irrelevance theory is inadequate as an explanation of financial market practice is the existence of asymmetric information between insiders (managers and directors) and outsiders (shareholders). M&M assumed that managers and outside investors have free, equal and instantaneous access to the same information regarding a firm's prospects and performance. But managers who look after the firm usually possess information about its current and future prospects that is not available to outsiders. This informational gap between insiders and outsiders may cause the true intrinsic value of the firm to be unavailable to the market. If so, share price may not always be an accurate measure of the firm's value. In an attempt to close this gap, managers may need to share their knowledge with outsiders so they can more accurately understand the real value of the firm (Al-Malkawi et al. 2010). The signaling theory of dividends has its origins in Lintner's (1956)

studies who revealed that the price of a company's stocks usually changes when the dividend payments changes. Even though M&M argued in favor of the dividend irrelevance they also stated that in the real world disregarding the perfect capital markets, dividend provides an "information content" which may affect the market price of the stock. Many researchers have thereafter been developing the signaling theory and today it is seen as one of the most influential dividend theories (Gustav & Gairatjon, 2012). Signaling theory assumes that managers typically have more information about the value of the firm's assets than outside agents. Managers therefore use dividend changes to communicate to the shareholders about the financial situation of the company. The information may reflect the strategies that the firm is employing in the short run or long run (Ross, 1977).

Bhattacharya (1979) presented one of the most acknowledged studies regarding signaling theories which states that dividends may function as a signal of expected future cash flows. An increase in the dividends indicates that the managers expect higher cash flows in the future. The research is based on the assumptions that outside investors have imperfect information regarding the company's future cash flows and capital gains. Another important assumption is that dividends are taxed at a higher rate compared to capital gains. Bhattacharya (1979) argues that under these circumstances even though there is a tax disadvantage for dividends, companies would choose to pay dividends in order to send positive signals to shareholders and outside investors.

According to the signaling hypothesis, investors can infer information about a firm's future earnings through the signal coming from dividend announcements, both in terms of the stability and changes in dividends. However, for this hypothesis to hold, managers should firstly possess private information about a firm's prospects, and have incentives to convey this information to the market. Secondly, a signal should be true; that is, a firm with poor future prospects should not be able to mimic and send false signals to the market by increasing dividend payments. Thus the market must be able to rely on the signal to differentiate among firm (Al-Malkawi et al. 2010).

As managers are likely to have more information about the firm's future prospects than outside investors, they may be able to use changes in dividends as a vehicle to communicate information to the financial market about a firm's future earnings and growth. Outside

investors may perceive dividend announcements as a reflection of the managers' assessment of a firm's performance and prospects. An increase in dividend payout may be interpreted as the firm having good future profitability (good news), and therefore, its share price will react positively. Similarly, dividend cuts may be considered as a signal that the firm has poor future prospects (bad news), and the share price may then react unfavorably. Accordingly, it would not be surprising to find that managers are reluctant to announce a reduction in dividends (Al-Malkawi et al. 2010).

Lintner (1956) argued that firms tend to increase dividends when managers believe that earnings have permanently increased. This suggests that dividend increases imply long-run sustainable earnings. This prediction is also consistent with what is known as the "dividend - smoothing hypothesis". That is, managers will endeavor to smooth dividends over time and not make substantial increases in dividends unless they can maintain the increased dividends in the foreseeable future.

4.5 Agency Theory

The agency theory is based on the principal agent relationships. The separation of ownership from management in modern corporations provides the context for the functioning of the agency theory. In modern corporations the shareholders (principals) are widely dispersed and they are not normally involved in the day to day operations and management of their companies rather they hire managers (agent) to manage the corporation on behalf of them (Habbash, 2010).

The agents are appointed to manage the day to day operations of the corporation. The separation of ownership and controlling rights results conflicts of interest between agent and principal. To solve this problem or to align the conflicting interests of managers and owners the company incurs controlling costs including incentives given for managers (Habbash, 2010). This controlling cost is called agency cost (Easterbrook, 1984).

Agency theory refers to a set of propositions in governing a modern corporation which is typically characterized by large number of shareholders who allow agents to control and manage their collective capital for future returns. The agent, typically, may not always own shares but may possess relevant professional skills and competence in managing the corporation. The theory offers many useful ways to examine the relationship between owners

and managers and verify how the final objective of maximizing the returns to the owners is achieved, particularly when the managers do not own the corporation's resources. Agency theory identifies the role of the monitoring mechanism of corporate governance to decrease agency costs and the conflict of interest between managers and owners (Habbash, 2010).

Implementing corporate governance system usually makes possible controlling the activities of managers and by expending resources to alter the opportunity the managers has for capturing non-pecuniary benefits. These methods include auditing, formal control systems, budget restrictions, and the establishment of incentive compensation systems which serve to identify the manager's interests more closely with those of the outside equity holders (Jensen & Meckling, 1976).

Easterbrook (1984), raises a question "why do most firms pay significant dividends, given the costs of paying them (and raising new capital), and given that all investors either prefer capital gains or are indifferent between dividends and capital gains?" and raised two possible explanation.

i. The first possible reason for firms to pay dividend steams from that managers are not perfect agents of the other participants in the corporate venture, but that they pursue their own interests when they can. Because the managers are not the residual claimants to the firm's income stream, there may be a substantial divergence between their interests and those of the other participants. Managers, investors, and other participants will find it advantageous to set up devices, including monitoring, bonding, and exposure adjustments that give managers the incentive to act as better agents. Therefore, dividend could use as a tool to achieve this purpose.

ii. The second possible reason for firms to pay dividend is related to market response for securities of firms simultaneously paying dividends and raising new money from the market will appreciate relative to other securities. According to agency theory the agent strive to achieve his personal goals at the expense of the principal. Mangers are mostly motivated by their own personal interests and benefits, and work to maximize their own personal benefit rather than considering shareholders' interests and maximizing shareholders wealth. To control and shape this inclination of mangers, shareholders adopt monitoring schemes like

payment of dividend. The costs of monitoring and bonding are agency costs borne by investors (Easterbrook, 1984).

Easterbrook (1984) states that two factors affect the agency costs in a company monitoring costs and the risk aversion preferences of managers. The monitoring cost refers to the costs incurred by the shareholders in order to supervise the managers and prevent them from following their own personal agenda instead of maximizing the value of the shareholders equity. The second source of agency costs is the risk aversion preferences of managers. The problem arises because most shareholders have diversified portfolios and they are therefore, only interested in systematic risk which cannot be eliminated through diversification. In contrast to shareholders, managers usually have a large amount of their personal wealth connected to the company. Therefore, if the company is unprofitable or even goes bankrupt, the managers' personal wealth becomes heavily affected. The managers will as a result be more risk averse compared to the shareholders and they may reject potential high value project due to their risk aversion preferences.

Jensen (1986) argued that in order to monitor the conflict between owners and managers, payment of dividend is not a good option claiming that Payouts to shareholders reduce the resources under managers' control, thereby reducing managers' power, and making it more likely they will incur the monitoring of the capital markets which occurs when the firm must obtain new capital. Financing projects internally avoids this monitoring and the possibility that the funds will be unavailable or available only at high explicit prices. Managers have incentives to cause their firms to grow beyond the optimal size. Growth increases managers' power by increasing the resources under their control. It is also associated with increases in managers' compensation. The problem is how to motivate managers to disgorge the cash rather than investing it at below the cost of capital or wasting it on organization inefficiencies. Therefore, Jensen developed two theories to prevent waste of free cash flow.

i. The benefits of debt in reducing agency costs of free cash flows by issuing debt in exchange for stock, managers are bonding their promise to pay out future cash flows in a way that cannot be accomplished by simple dividend increases. In doing so, they give shareholder recipients of the debt the right to take the firm into bankruptcy court if they do not maintain their promise to make the interest and principle payments. Thus debt reduces the agency

costs of free cash flow by reducing the cash flow available for spending at the discretion of managers.

ii. Debt can substitute dividend - Managers with substantial free cash flow can increase dividends or repurchase stock and thereby pay out current cash that would otherwise be invested in low-return projects or wasted. This leaves managers with control over the use of future free cash flows, but they can promise to pay out future cash flows by announcing a "permanent" increase in the dividend. Such promises are weak because dividends can be reduced in the future. The fact that capital markets punish dividend cuts with large stock price reductions is consistent with the agency costs of free cash flow. Debt creation, without retention of the proceeds of the issue, enables managers to effectively bond their promise to pay out future cash flows. Thus, debt can be an effective substitute for dividends.

4.6 Tax Preference Theory

Taxation is one of the critical factors that affect firm value and future expected profits. For example, discounted expected after-tax cash flows can be used as a determinant for the market value of a firm. In this respect, differential tax treatment of capital gains relative to the dividends can influence the after-tax returns of investors and in turn affect the willingness of investors to receive dividends (Kinfe, 2011).

The M&M assumptions of a perfect capital market exclude any possible tax effect. It has been assumed that there is no difference in tax treatment between dividends and capital gains. However, in the real world taxes exist and may have significant influence on dividend policy and the value of the firm. In general, there is often a differential in tax treatment between dividends and capital gains, and because most investors are interested in after-tax return, the influence of taxes might affect their demand for dividends. Taxes may also affect the supply of dividends, when managers respond to this tax preference in seeking to maximize shareholder wealth (firm value) by increasing the retention ratio of earnings (Al-Malkawi et al. 2010).

Brigham and Houston (2004) pointed out three tax-related reasons that investors might prefer a low dividend payout to a high dividend payout: first, that long-term capital gains are taxed at a maximum rate of 20 percent, whereas dividends are taxed at effective rates that go up to 39.1 percent in case of USA. Therefore, wealthy investors (who own most of the stock and

receive most of the dividends) might prefer to have companies retain and plow earnings back into the business. Earnings growth would presumably lead to stock price increases, and thus lower-taxed capital gains would be substituted for higher-taxed dividends. Second, Taxes are not paid on the gain until a stock is sold. Due to time value effects, a dollar of taxes paid in the future has a lower effective cost than a dollar paid today. Third, if a stock is held by someone until he or she dies, no capital gain tax is due at all, the beneficiaries who receive the stock can use the stock's value on the death day as their cost basis and thus completely escape the capital gains tax. Because of these tax advantages, investors may prefer to have companies retain most of their earnings. If so, investors would be willing to pay more for low-payout companies than for otherwise similar high-payout companies. The tax-preference theory suggests that low dividend payout ratios lower the cost of capital and increase the stock price. In other words, low dividend payout ratios contribute to maximizing the firm's value. This argument is based on the assumption that dividends are taxed at higher rates than capital gains. In addition, dividends are taxed immediately, while taxes on capital gains are deferred until the stock is actually sold. These tax advantages of capital gains over dividends tend to predispose investors, who have favorable tax treatment on capital gains, to prefer companies that retain most of their earnings rather than pay them out as dividends, and are willing to pay a premium for low-payout companies. Therefore, a low dividend payout ratio will lower the cost of equity and increases the stock price earnings (Al-Malkawi et al. 2010).

4.7 Pecking Order Theory

Fama & French (2007), Myers (1984) develops an alternative theory known as the pecking order model of financing decisions. The pecking order arises if the costs of issuing new securities overwhelm to other costs and benefits of dividends and debt. The financing costs that produce pecking order behavior include the transaction costs associated with new issues and the costs that arise because of management's superior information about the firm's prospects and the value of its risky securities. Pecking order can keep leverage of firms down when investments are persistently large relative to earnings, as a result dividend payers can keep their payout ratio low (Fama & French, 2007). Fama and French (2001) find that dividend payers are firms with high earnings relative to investment. Thus, for dividend payers, the prediction that firms with larger expected investments have less current leverage.

4.8 Clientele Effect Theory

The portfolio choices of individual investors might be influenced by certain market imperfections such as transaction costs and differential tax rates to prefer different mixes of capital gains and dividends. M&M argued that these imperfections might cause investors to choose securities that reduce these costs. M&M termed the tendency of investors to be attracted to a certain type of dividend-paying stocks “dividend clientele effect”. Investors’ investment goal and their demographic factors matter on decision whether to invest on high dividend paying shares to low dividend paying shares. For example, assuming that investors have a portfolio of investments, these investments are attuned to serve the investors’ goal such as: high growth, capital preservation or income generation. These goals vary in terms of investor’s age, family size, education expenses, career, employment package, and other characteristics.

Al-Malkawi et al. (2010) classified clientele effect in to tax-induced clientele effect and transaction induced clientele effect.

4.8.1 Tax-Induced Clientele

Since most of the investors are interested in after-tax returns, the different tax treatment of dividends and capital gains might influence their preference for dividends versus capital gains. This is the essence of the tax-induced clientele effect. For example, *ceteris paribus*, investors in low tax brackets who rely on regular and steady income will tend to be attracted to firms that pay high and stable dividends. In addition, some corporate or institutional investors tend to be attracted to high-dividend. On the other hand, investors in relatively high tax brackets might find it advantageous to invest in companies that retain most of their income to obtain potential capital gains, all else being equal. Some clienteles, however, are indifferent between dividends and capital gains such as tax exempt and tax deferred entities (Al-Malkawi et al. 2010).

4.8.2 Transaction Cost-Induced Clientele

Another argument of the clientele effect is based on the proposition that dividend policy may influence different clienteles to shift their portfolio allocation, resulting in transaction costs. For example, small investors (such as retirees, income-oriented investors, and so on) who

rely on dividend income for their consumption needs, might be attracted to (and even may pay a premium for) high and stable-dividend stocks, because the transaction costs associated with selling stocks might be significant for such investors. On the other hand, some investors (e.g. wealthy investors), who do not rely on their share portfolios to satisfy their liquidity needs, prefer low payouts to avoid the transaction costs associated with reinvesting the proceeds of dividends, which they actually do not need for their current consumption. Note that for both groups of investors, transforming one financial asset to another, transaction costs need to be incurred. That is, M&M's notion of homemade dividends is not costless and the existence of such costs may make dividend policy not irrelevant.

The other effect of transaction costs on dividend policy is related to the fact that firms may need to restore cash paid out as dividends with new equity issues (or debt financing) to take advantage of new investment opportunities. If issuing costs are significant, then firms are most likely to rely on retained earnings rather than external financing. This is reinforced by the empirical fact that retained earnings constitute the major source of firm finance not just in developing but also even in developed capital markets. In these cases, there should be a negative relationship between transaction costs and dividend payments. Firms can reduce or avoid such expenses by lowering dividend payments or not paying them at all. However, in practice, many firms continue to pay cash dividends, while at the same time issuing new equity and debt, suggesting that other factors may also be at work in influencing dividend policy (Al-Malkawi et al. 2010).

5. Types of Dividend Policy

There are a number of different dividend policies or payout strategies that companies can adopt.

5.1 Fixed Percentage Payout Ratio Policy

Here the company pays out a fixed percentage of annual profits as dividends, i.e. it maintains a constant payout ratio. The advantages of this policy from company's point of view are that it is relatively easy to operate and sends a clear signal to investors about the level of the company's performance. The disadvantage for a company is that it imposes a constraint on the amount of funds it is able to retain for reinvestment. This dividend policy is unsuitable

for companies with volatile profits which have shareholders requiring a stable dividend payment existence (Watson & Head, 2010).

5.2 Zero Dividend Policy

A company could decide to pay no dividend at all. Such an extreme policy is likely to be highly beneficial to a small minority of investors while being totally unacceptable to the majority. Such a policy is easy to operate and will not incur the administration costs associated with paying dividends. A zero dividend policy will allow the company to reinvest all of its profits and so will be attractive to investors who, from a personal tax perspective, prefer capital gains to dividends. Given that the majority of ordinary shareholders are institutional investors who rely on dividend payments for income, a zero dividend policy is hardly likely to be acceptable on an ongoing basis. A zero dividend policy, however, is often adopted by new companies which require large amounts of reinvestment in the first few years of their existence (Watson & Head, 2010).

5.3 Constant or Steadily Increasing Dividend

A company may choose to pay a constant or steadily increasing dividend in either money terms or in real terms. A constant or increasing dividend in money terms may result in a declining or increasing dividend in real terms, depending on the level of inflation (or deflation). A constant or increasing dividend in real terms will usually result in an increasing dividend in money terms. In both policies, dividend increases are kept in line with long-term sustainable earnings. It is important for a company to avoid volatility in dividend payments as doing so can help to maintain a stable share price. Cuts in dividends, however well signaled or justified to the markets, are usually taken to mean financial weakness and result in downward pressure on a company's share price. The drawback of keeping dividends constant or of steadily increasing them is that investors may expect that dividend payments will continue on this trend indefinitely. This can cause major problems when companies wish to reduce dividend payments, either to fund reinvestment or in the name of financial prudence. Because of the reaction of the market to a dividend cut, companies experiencing increases in profit tend to be cautious about a dividend increase. Rarely will a 20 percent increase in profits lead to a 20 percent dividend increase. This is reinforced by the fact that a certain level of profit rarely equates to an equal amount of cash, which is ultimately what

dividends are paid out of. Companies tend to increase dividends slowly over time, to reflect the new profit level, when they are confident that the new level is sustainable (Watson & Head, 2010).

5.4 Residual Policy

Dividends are just what is left after the company determines the retained profits required for future investment. This policy gives preference to its positive NPV (Net Present Value) projects and paying out dividends if there are still left over funds available. Dividend becomes a circumstantial payment paid only when the investment policy is satisfied. Firms adopt this type of policy because they more rely on internally generated funds and are not willing to raise new capital for saving floatation and other costs associated with issuing debt and the managers think that high retention cause more growth to the company. There is a tendency therefore, that this type of policy could give rise to a zero dividend structure. Firms may need to modify this policy to ensure that investors of the different clienteles are not chased out by a strict application of the policy (Kolb and Rodriguez, 1996).

5.5 Smoothed Residual Dividend Policy

This policy suggests dividend fluctuations should be kept to a minimum. Dividend policy changes tend to lag behind earnings fluctuations. Dividends are set equal to the long-run residual between forecasted earnings and investment requirements. Dividend changes, in turn, are made only when this long run residual is expected to change; earnings fluctuations believed to be temporary are ignored in setting dividend payments. The clear preference is for a stable, but increasing, dividend per share (Shapiro, 1990). As per Lintner (1956) it is many management's belief that most stockholders prefer a reasonably stable rate and that the market puts a premium on stability or gradual growth in rate were strong enough that most managements sought to avoid making changes in their dividend rates that might have to be reversed within a year or so.

5.6 Alternative Policies to Paying Cash

In order to give shareholders a choice between dividends or new shares, the firm might choose to buy back shares. This is share or stock repurchase. This has a significant advantage in terms of tax to the shareholders. While the dividend is fully taxed just as ordinary income,

the stock repurchase or buyback is not taxed until the shares are sold and the shareholder makes a profit or capital gain (Ross et al. 2002).

5.7 Alternatives to cash dividend

In addition to paying cash dividends, there are a number of other ways in which companies can reward their shareholders (Watson & Head, 2010).

5.7.1 Scrip Dividends

Scrip dividends involve the offer of additional ordinary shares to equity investors, in proportion to their existing shareholding (e.g. 1 for every 20 shares held), as a partial or total alternative to a cash dividend. Usually, shareholders are given the choice of taking either the declared cash dividend or the scrip alternative, allowing them to choose the alternative that best suits their liquidity and tax position. The major advantage with paying a scrip dividend is that it allows a company to keep the cash that would have been paid out in cash dividends. From a personal taxation point of view, the scrip dividend received is treated as income, with tax deemed to have been paid at the basic rate of personal income tax. Unfortunately, scrip dividends will be unattractive to investors who are exempt from paying tax on dividends as they are not able to reclaim tax which is only „deemed“ to have been paid (Watson & Head, 2010).

5.7.2 Share Repurchases

Share repurchases have become an increasingly common way of returning value to ordinary shareholders instead of distributing cash dividend. The reacquired shares may be kept in the company's treasury and resold if the company needs money (Brealey & Myers, 2003). The main benefit to shareholders of a share repurchase is that they receive surplus funds from the company which they use more effectively. The main benefit for a company of a share repurchase is that it enhances the value of the remaining shares. Another reason behind companies repurchasing their shares is if they consider the stock market to be undervaluing their company (Watson & Head, 2010).

5.7.3 Special Dividends

Occasionally, companies return surplus funds to shareholders by making a special dividend payment. A special dividend is a cash payout far in excess of the dividend payments usually made by a company. If a company has funds surplus to its investment requirements, paying out these funds via a special dividend enables shareholders to reinvest them according to their preferences (Watson & Head, 2010).

During the last fifty years several theories have emerged around dividend, claims and counter claims have forwarded by authors about the relevance of dividend. M&M claimed that under perfect capital market dividend payment is irrelevant, what is really important to increase firms value are the earning capability of the firms and their associated risk not how the profit is divided, but the presence of market imperfections such as taxes, asymmetric information, agency costs, and transaction costs means that we cannot dismiss the proposition that dividend policy is relevant to the firm's value and other theories have emerged claiming dividend is relevant like Agency theory, Bird in hand theory and signaling theory.

6. Empirical Literature

Ayodeji and Lukmon (2014) investigated the determinants of dividend payout in the Nigerian banking industry over the period 2006 to 2008. The study employed pooled regression techniques to analyze the data .Dividend payout is dependent variable while profitability, liquidity, Tax, revenues growth, Market to book value, loan deposit ratio, loan loss provision, capital adequacy, activity mix, size, cost income ratio, market power, debt to equity ratio, retained earnings were independent variables. The results show that profitability, liquidity size, and activity mix are spastically significant factors which positively influence dividend payout whereas revenue growth debt to equity ratio, retained earnings, loan deposit ratio and loan loss provision negatively influence dividend payout. The result of capital adequacy in inconclusive as it is combined with bank specific variables it has significant impact on dividend payout but insignificant in the combined variables with dividend payout.

Agyemang (2013) examined determinants of dividend payout policy of listed financial institutions in Ghana using panel data covering 2005-2009 and fixed and random effect. Profitability, liquidity, leverage, collateral capital, growth, and age of firm were independent

variables while dividend payout ratio was dependent variables. The finding indicated that age and liquidity have significant and positive effect on dividend payout ratio financial institutions fund in Ghana whereas profitability, leverage, growth & collateral have negative insignificant impact on dividend payment.

Alzomain & Al-Khadiri (2013) Examined determinants of dividend policy of 105 non-financial firms listed in stock market of Saudi Arabia for the period of 2004 to 2010 using panel data and regression model. Earnings per share, previous dividend per share for the last year, growth, debt to equity ratio, Beta & Capital size were independent variables while dividend payout was dependent variable. The results of the study shows that earning per share, size & pervious dividends per share have significant positive relationship with dividend per share whereas growth, leverage & Beta have insignificant negative impact of determination of dividend policy on non-financial firms listed in stock market of Saudi Arabia.

Zameer et al. (2013) investigated the determinants dividend policy of Pakistani Banking sector using data of 27 Pakistani banks listed at different stock exchange from 2003 to 2009 year. The study used step wise regression technique to analyze the data. Size, liquidity, profitability, agency cost, growth, last year dividend, risk and ownership structure, were independent variables while dividend payout was dependent variable. The study result shows that liquidity, profitability, last year dividend and ownership structure have positive significant relationship with dividend payout of Pakistani banks. Profitability, last year dividend, and ownership structure show positive impact on dividend payout. But liquidity shows negative impact on dividend payout of the Pakistan banking industry. Size, leverage, agency cost growth risk show insignificant impact on dividend payout of Pakistan banks.

Hailemariam (2013) investigated the determinants of dividend policy of banks in Ethiopia by taking panel data for ten years' time period (2002-2011) for five banks and analyzed through panel least square method with fixed effect model. The study used independents variables, current earnings, previous year's dividend, liquidity, leverage, loan loss provision and bank's age and dependent variables was dividend payment. The result shows that current earnings previous year's dividend , bank's age and loan loss provision have positive and statically

significant impact on the banks dividend payment whereas liquidity has negative impacts and leverage is not an important variables for bank dividend decision.

Mitiku (2015) examined the determinants of dividend payout in Ethiopia private banks using banks audited financial statements from 2009/10 to 2013/14 and analyzed panel data through regression technique. The study used dividend payout as dependent variable and seven independents variables; they are profitability, liquidity, leverage, lagged dividend payout, growth size and risk. The finding indicated that among the seven independents variables, lagged dividend payout, growth, size, and risk have positive statistically significant impact on dividend payout. The rest three variables have no statistical significant impact on dividend payout.

NsikanEd et al. (2014) examined the various determinants of dividend payout of selected Commercial Banks in Nigeria using Secondary data collected from 1989-2010 and analyzed using the Ordinary Least Squares (OLS) regression technique. Dividend payout was dependent variable and Current earnings, previous year dividend, liquidity, inflation rate, lending rate were factors of dividend payment. The findings revealed that while current earnings, lagged dividend and lending rate were the major determinants of cash dividend payout in these banks while Inflation rate and liquidity ratio have insignificant negative impact on dividend payout.

Kazmierska-Jozwiak (2014) investigated the determinants of dividend policies of polish companies listed on Warsaw stock exchange using panel data analysis. Leverage, liquidity, ROE, size, risks were used as exogenous variables and dividend payout ratio as endogenous variable. The finding of the study shows that profitability of the firm (ROE) & leverage have significant negative relationship with dividend payout ratio whereas the rest variables have no significant impact on dividend payout ratio.

Alzomaia& Al-Khadhiri (2013) examined the factors determining dividend for companies listed in the Saudi Arabia Stock Exchange using panel data covering the period from 2004 to 2010 for 105 non-financial firms by running a regression model. The study used profit (EPS), previous year dividend per share for last year, Growth, debt to equity ratio, beta & capital size as independents variables while dividend as dependent variables. The results of the study

showed that profit & previous dividend have positive significant influence on the company's decision to increase or decrease the level of dividend in Saudi stock market

Maladjian & El-khoury (2014) investigated factors determining the dividend payout policy in Lebanese Banks Listed on the Beirut stock exchange. The study considered the impact of seven variables, namely profitability, liquidity, leverage, firm size, growth, firm risk and previous years dividend payout on the dividend payout ratios by using panel data of listed banks between the years of 2005 to 2011. The empirical results show that dividend payout policies are positively affected by the firm size, risk and previous year's dividends but are negatively affected by the opportunity growth & profitability. The study concluded that firms pay dividend with intention of reducing the agency conflicts. Furthermore managers take in to consideration that stability of dividends while determining the dividend policy.

Wasike & Amborse (2015) investigated determinants of dividend policy of 60 companies listed at Nairobi securities exchange for the period 2004 to 2014 by using panel regression techniques. Profit, risk, cash flow, tax, institutional ownership and market book value, growth were used as independent variables and dividend policies (DPS) as a dependent variable. The result shows that profitability, cash flow, tax have positive & significant impact on dividend policy of firms while risk, institutional ownership, growth, & market to book value have negative association with dividend policy.

Awad (2015) examined the determinants of dividend policy of 56 firms listed in Kuwait stock exchange using panel data & OLS regression technique data for the period of 2011 to 2014. The study employed three determinants namely company size, profitability, financial leverage & dividend policy as dependent variable. The result indicated that dividend policy in Kuwait stock exchange market is positively affected by leverage, profit & company size. The study concluded that profitability, leverage, & size are major determinants of dividend policy in Kuwait stock exchange market.

Nohu (2014) re-examined the factors that determine dividend payout in 30 listed firms on Ghana stock exchange for the period of 2000 to 2009. The study used ordinary least squares panel regression model to estimate the determinants of dividend payout. Profitability, investment opportunity, taxation, leverage, firm size, Board size, Board independence & audit type were used as factors of dividend payout and dividend payout ratio as dependent

variable. The result show that profitability, Board size audit type have positive & significant effect on dividend payout of firms while profit, leverage, Board independence have negative & significant impact on dividend payout ratio. Tax & size have no significant impact on dividend payout ratio.

Mirbagherijam (2014) examined asymmetric effect of inflation on dividend policy of Iran's stock market using panel data of 322 companies listed on Tehran stock exchange for the period of 2005 to 2011 to test the effect of inflation on the companies' decision in decreasing, increasing and maintaining of dividends. Inflation rate, lagged dividend and profits were independent variables while dividend payout was dependent variable. The result showed that inflation, lagged dividend and earnings have the positive effect on dividend payout decision of companies. The study concluded that Inflation has significant contribution to the dividend policy maker decision according to the status of companies as making profit or loss.

Duncan and Wairimu (2013) conducted study on relationship between inflation and dividend payout for companies listed at Nairobi securities exchange using panel data for the period of 2002 to 2011. The finding shows that inflation has negative impact on dividend payout of companies. The study concluded that companies listed at Nairobi securities exchange should consider the effect of inflation rate before making dividend payment decision.

Basse and Reddeman (2011) analyzed the dividend policy of firms from a macroeconomic and firm factors Perspective of the 500 leading companies in the USA. A dividend was dependent variable while corporate earnings, real economic growth rate and inflation were dependent variables and the data were analyzed by applying cointegration techniques. The result indicated that inflation, corporate earnings, real growth have positive relationship with dividend payment.

Komrattanapanya & Suntrauk (2013) investigated factors that influence the dividend payout of all firms listed in the StockExchangeofThailandduringyear2006to2010 using Tobit regression analysis technique. The factors used in the study are profit, liquidity, financial leverage, investments opportunity, sales growth, business risk and firm size. The result showed that leverage, investments opportunity, sales growth and firm size have an impact on dividend payout of firms listed in the Stock Exchange of Thailand. While profitability, liquidity, and business risk are insignificantly related to dividend payout.

Mehta (2012) examined determinants of dividend policy of United Arab Emirates (UAE) companies' year 2005 to 2009 using multiple regression technique. The study used dividend policy as dependent variable and profitability, risk, liquidity, leverage and size. The result indicated that profitability and size are the only significant variables that have an impact on dividend policy of UAE companies.

Ghafoor et al.(2014) examined the dividends behavior of Pakistani firms by taking a macroeconomic perspective. And the study used annual data Pakistani firms for the period of 1966–2010 and analyzed by autoregressive distributed lag approach. Inflation rate, return on equity, real growth rate were independent variables while dividend payment was dependent variable. The finding shows that inflation has positive relationship with dividend payment whereas returns on equity and real economic growth rate have negative relationship with dividend payout Pakistani firms. The study concluded that Pakistani firms should not only take into account the effect of firm factors but also macroeconomic perspective while deciding dividend payout decision.

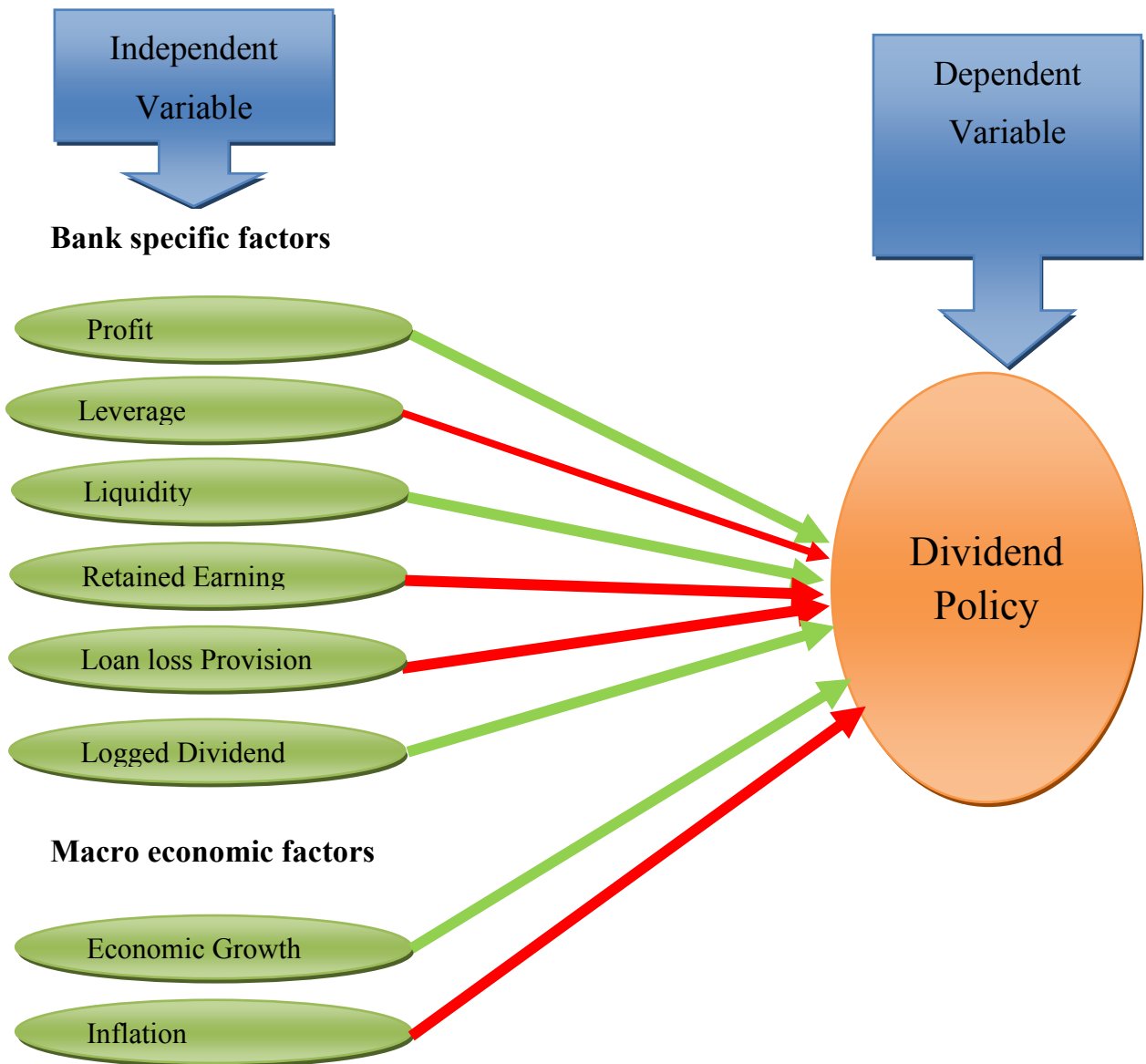
7. Literatures Gap

- It was possible to understand from empirical literature review that there are mixed results that indicate some factors of dividend policy of companies in a given country with secondary market and without ,they have significant impact on dividend policy of companies in a given country, the same variable have no significant effect on dividend policy of firms in other countries. As result of this, the researcher of this study decided to examine determinants of dividend policy of Ethiopian private banks.
- Most of previous studies conducted on the determinants of dividend policy of Ethiopian share companies, they have not considered the effect of inflation & economic growth from macro-economic perspective and loan loss provision and retained earnings from bank specific factors on dividend payout decision. Thus, the researcher of this study is highly inspired to investigate determinants of dividend policy in Ethiopian private banks by incorporating inflation and economic growth as variables together with bank specific factors of dividend policy.
- Now a day, a lot share companies like banks are emerging following economic growth of Ethiopia, the people making a huge investment in these companies and the companies also

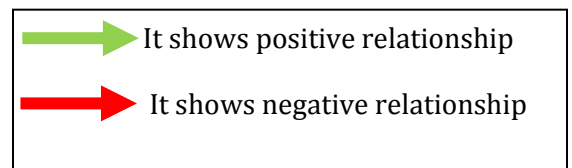
pay dividend as a return from their profits for shareholders. When it is observed, there is only a few studies have been conducted on determinants of dividend policy of companies in Ethiopia so this condition requires more studies to be conducted on the factors that determine dividend payout decision in Ethiopian private banks

8. Conceptual Framework

This conceptual frame work is self-extracted and shows the relationship between the dependent variable, dividend payout and the eight explanatory variables.



Source: personal design made as per theory and empirical literature



9. Definition and Measurement of Variables

Dividend policy – in this study dividend policy is the dependent variable and it is measured by dividend payout ratio. It is the proportion of profit distributed to shareholders and calculated by dividing the total dividend to net profit after legal reserve deducted.

Independent Variables

Profit – in this study return on equity (ROE) is a proxy for profit. It is calculated by dividing Profit after tax and legal reserve to total equity. Every bank in Ethiopia has a mandate to transfer 25% of yearly profit to legal reserve account maintained at National bank of Ethiopia as per proclamation No 84/1994. Due to this, banks cannot distribute all of the profit as dividend like other industries. Therefore, taking net profit after tax only without removing legal reserve would lead to higher ratio on return on equity and lower ratio on dividend payout. Ayodeji and Lukmon (2014), and Alzomain & Al-Khadiri (2013) also found positive relationship between ROE and dividend payout.

Leverage – leverage shows firms capital structure meaning that how much of the firm's capital is covered by debt and equity. Rozeff (1982), Lloyd et al. (1985), Collins et.al (1996) and D'Souza (1999), Amidu and Abor (2006) and Gill et al. (2010) found a statistically significant and negative relationship between firm's leverage and the dividend payout ratios. In this study, it is calculated by dividing total debt to total asset.

Liquidity – The liquidity position of a firm is an important determinant of its ability to pay dividend payout. A firm with a poor liquidity position means will be less generous in paying dividend due to shortage of cash. Amidu and Abor (2006) found a positive relationship between cash flow and dividend payout ratios. Thus, under this study, it is calculated by dividing current asset to current liability.

Retained earnings -Retained earnings represents part of the undistributed earnings of a company and is needed for future expansion of the firm. Onali (2009) and Huda and Farah (2011) found a negative relationship between retained earnings and dividend payout. In this study retained earnings is defined as retained earnings divided by profit after tax and legal reserve.

Loan loss provision-The loan loss provision is a measure of a bank's credit quality. A higher ratio goes together with a lower credit quality resulting in a lower profitability and thus lower dividend payout. Thus, a negative effect of the loan loss provisions relative to total loans on bank dividend policy is expected. Dietricha and Wanzenried (2009) examined the relationship between the loan loss provisions on profitability. In this study, loan loss provision (LL) is defined as loan loss provision divided by total loans.

Lagged dividend – it is a dividend paid by a firm one year back. Zameer et al. (2013), and Rehaman(2012) found that last year dividend significantly affect the current period payout ratio and firms strive not cut dividend payment from preceding year, instead they try to increase payout ratio. Under this study, it is measured by previous year dividend payout divided by previous year profit after tax and legal reserve.

Economic growth- An increase in real economic activity increases the corporate earnings of different sectors operating in the economy leading to higher earnings which may ultimately lead to higher dividend payments (Ghafoor et al. 2014). Annual GDP rate is used for measure of economic growth of the country.

Inflation- During inflationary periods, companies usually retain huge part of their earnings so as to avoid a reduction in their scale of operation and to compensate for the fall in purchasing power, hence, would not be able to pay much dividend. If this occurs, the relationship between inflation rate and dividend payout would be negative. On the other hand, shareholders on their part would advocate for higher dividend due to the fall in purchasing power (Duncan and Wairimu, 2013). Given this, the relationship between dividend payout and inflation rate would be positive. Consumer price index is used for measurement of inflation of the country.

Chapter Three: Research Methodology

This chapter discusses the research design and methodology. The chapter is organized in seven sections. The first section discusses the type of the study; research approach, research method, data collection, sampling design, data type, analysis methods, and model specification are presented in this section.

3. Type of Study

According to Saunders et al. (2009) there basically exist three different types of studies which aim to answer the research objective and questions in different ways. There are three different types of studies; these are exploratory, descriptive and explanatory. The main focus of an exploratory study is to examine problems in new ways and it is a very good method to increase the understanding of a specific topic. The most common data collection methods are interviews in order to get an in depth understanding of the subject being investigated. The second type of study is according to Saunders et al. (2009) a descriptive study and it is usually used as a forerunner to the two other types of studies. The main aim of the descriptive study is to get an accurate picture of the situation that is being studied. The third type of study is explanatory which aims to examine the cause and effect relationships between dependent and independent variables in order to detect a certain patterns. As noted by Saunders et al. (2009), explanatory research design examines the cause and effect relationships between dependent and independent variable. Thus, this research is to establish the cause and effect relationships between dividend payout and its determinants; the explanatory approach is the most appropriate. On the other hand, before testing the cause and effect relationship among variables included in the study have to be identified and presented in descriptive form. Therefore, this research combines the explanatory and the descriptive type of studies to answer the objective of the study.

3.1 Research approach

There are basically two main types of research approaches which describe the relationship between theory and the research process, deductive and inductive. The main difference between the two approaches is that the deductive tests already existing theories while the inductive approach tries to generate new theories based on the empirical data (Saunders et

al.2009). This study is going to base research on already existing theories therefore, the deductive approach is most appropriate in this case since it tests the different theories against formulated hypothesis.

3.2 Research Method

The qualitative, the quantitative, and mixed methods are the most common research methods used in academic studies. The quantitative method focuses on numbers and it is the systematic and scientific investigation of quantitative properties and phenomena and their relationships. If research problem is to identifying the factors that influence an outcome then the quantitative approach is best (Creswell, 2002). On the other hand the qualitative method focuses on words and involves studies that do not attempt to quantify their results through statistical summary or analysis it is more appropriate if the researcher's goal is to create an in-depth understanding of the subject that is being studied. The mixed method has both features quantitative & qualitative method. Using mixed method provides a better understanding of research problems than using one method alone (Creswell, 2002). Thus, for this study mixed method is used so as to achieve the objective of the study.

3.3 Sampling method

The population of the study is all private commercial banks in Ethiopia. Currently, in Ethiopia there are sixteen private commercial banks. These are Awash international bank(AIB), Bank of Abyssinia(BOA), Wegagen bank(WB),United bank(UB), Nib international bank(NIB), Dashen bank(DB), Cooperative bank of Oromia, Lion international bank, Zemen bank, Oromia international bank, Buna international bank, Berhan international bank, Abay bank S.C, Addis international bank S.C, Dehub global bank S.C and Enat banks. However only six banks (Awash, Abyssinia, Dashen ,Wegagen, United and Nib international bank) have full information for the study period (2000-2015). The other Private commercial banks have not full information for this study period because most of them are established after the study period specified. Therefore, Awash, Abyssinia, Dashen, Wegagen, United and Nib international bank have been taken as a sample based on non-probability purposive sampling technique. As noted by Kothari (2004), good sample design must be viable in the context of time and funds available for the study. Besides, judgmental sampling offers the researcher to deliberately select items for the sample concerning the choice of

items as supreme based on the selection criteria set by the researcher. Thus, the researcher's criteria: first sample selected banks should have positive earnings and pay dividend throughout the study period and they should also represent 56% & 67% of market share in terms of branch expansion & capital of total population respectively.

3.4 Type of Data

Numerical (secondary) data which represent the firms' characteristics are collected from the financial report of the sample selected bank. The data is a panel type of data is used because it has the two dimensions, time series and cross-sections, and the Panel Least Squares (OLS) regression method is used since it is suitable for panel data. To analysis panel data the Least square method has two alternatives techniques; the fixed and random effect technique. From the two techniques the fixed effect model is used since this model control all time invariant difference between the individuals the estimated coefficient of the fixed-effect models and omitted time-invariant characteristics (Brooks,2008).

3.5 Data Source and Collection

This study used secondary data annual reports of Private Banks financial report, such as income statements, cash flow statement and balance sheets of banks listed by NBE and annual macro-economic variables reported by MOFED& CSA for the period from 2000 to 2015, journals, and books, and primary data which was collected in the form of unstructured interview from board of directors & management of selected sample banks.

3.6 Data analysis Method

In this study to analysis the data, descriptive statistics and inferential statistics analysis were used. Descriptive statistics is used to measure the central value of the observations, Maximum and minimum to indicate the highest and lowest values respectively. The standard deviation also is used to measure the dispersion the values of all the dependent and independent variables.

Inferential statistics is used to measure the degree of association between the dependent and independent variable since it indicates the direction and the strength of association between independent and dependent variables and infer about the population (Kothari, 2014).To

estimate the causal relationship between dependent and independent variables, the Ordinary Least Square (OLS) Regression analysis method is used by statistical software E-views 8.

3.7 Model Specifications

Panel data involves the pooling of observations on a cross-section of units over several time periods and provides results that are simply not detectable in pure cross-sections or pure time-series studies. The panel regression equation differs from a regular time-series or cross-section regression by the double subscript attached to each variable. The general form of the panel data model can be specified more compactly as follow:

$$Y_{i,t} = \alpha + \beta X_{i,t} + \epsilon_{i,t}$$

With the subscript i denote the cross-sectional dimension and t representing the time-series dimension. In this equation, $Y_{i,t}$ represents the dependent variable in the model, which is the firm's dividend payout ratio; $X_{i,t}$ contains the set of explanatory variables in the estimation model; and α is constant term over time t and cross-sectional unit i . α is taken to be the same across units. $\epsilon_{i,t}$ represents error term over time t and cross-sectional unit which are not observable in the regression.

In the light of the above model and on the bases of the selected variables, the current study used the below econometric model:

$$\text{Model: } DVPO = f(\text{PRO, LEV, LIQ, RER, LLP, LDVP, ECOG, INF})$$

$$DVPO_{i,t} = \alpha_i + \beta_1 \text{PRO}_{i,t} + \beta_2 \text{LEV}_{i,t} + \beta_3 \text{LIQ}_{i,t} + \beta_4 \text{RER}_{i,t} + \beta_5 \text{LLP}_{i,t} + \beta_6 \text{LDVP}_{i,t} + \beta_7 \text{ECOG}_{i,t} + \beta_8 \text{INF}_{i,t} + \epsilon_{i,t}$$

Where,

DVPO = Dividend payout

PRO = Profitability

LEV = Leverage

LIQ = Liquidity

LLP= loan loss provision

LDVP = lagged dividend paid out

RER= Retained earning

ECOG= Economic growth

INF= Inflation

Chapter Four: Results and Discussions

This chapter deals with the results and analysis of the findings, presents the result of the fulfillment of the classical linear regression model (CLRM) assumptions, Section deals with descriptive statistics of the variables, presents the regression, and interview results then discusses the findings of the study.

4. Tests for the Classical Linear Regression Model (CLRM) Assumptions

In this study as mentioned in chapter three diagnostic tests were carried out to ensure that the data fits the basic assumptions of classical linear regression model. Consequently, the results for the model assumption tests are presented as follows:

4.1 Tests for Classical Linear Regression Assumptions

In order to use the regression models that developed earlier in the methodology section, the basic Ordinary least square assumptions should be valid. The following tests: Homoscedasticity Test, Test for autocorrelation, Multicollinearity and Normality test were conducted in order to check whether these assumptions are violated or not.

4.1.1 Assumption one: The errors have zero mean ($\epsilon = 0$)

According to Brooks (2008), if a constant term is included in the regression equation, this assumption will never be violated. Thus, since the regression model used in this study included a constant term, this assumption is not violated

4.1.2 Assumption two: Test for Homoscedasticity

The assumption of homoscedasticity is that the residuals are approximately equal for all predicted dependent variable scores- the variance of the errors is constant, if the assumption are met the pattern of the residuals will have about the same spread on either side of a horizontal line drawn through the average residual (Wooldridge, 2006). Otherwise if the errors do not have a constant variance, it is said that the assumption of homoscedasticity has been violated. This violation is termed as heteroscedasticity. In this study Harvey test was used to test for existence of heteroscedasticity across the range of explanatory variables.

Table 4 .1 Heteroskedasticity Test: Harvey

Heteroskedasticity Test: Harvey			
F-statistic	1.770826	Prob. F(8,74)	0.0965
Obs*R-squared	13.33644	Prob. Chi-Square(8)	0.1008
Scaled explained SS	14.91975	Prob. Chi-Square(8)	0.0607

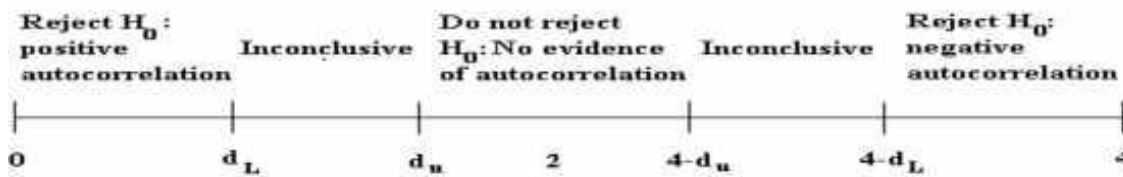
Source: E-view -8 output

The result in table 4.1 shows, the F-stat, X2, and scaled explained SS versions of the test statistic give the same conclusion that reveals the absence of heteroscedasticity, because the p-values are greater than 0.05.

4.1.3 Assumption three: Tests of Autocorrelation

This is an assumption that the errors are linearly independent of one another (uncorrelated with one another). If the errors are correlated with one another, it would be stated that they are auto correlated. The DW test statistic value from the regression result is 1.9986. There are 96 yearly observations in the regression and 8regressors excluding the intercept. According to DW statistics table, the relevant critical values for the test at 5% significance level were $d_L = 1.442$, $d_U = 2.097$. The DW statistics result of 1.9986 is above the lower level but lower from the upper level.

Figure 4.1



0	$d_L = 1.442$		$d_U = 1.903$	1.9986	$4 - d_U = 2.097$	$4 - d_L = 2.558$	4
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Continuing with Breusch-Godfrey Serial Correlation LM test is applied at 2 lagged level considering the 8 independent variables used on the study. The test result indicated below

shows the null hypothesis of no autocorrelation is not rejected, since it is above 5% significance level.

Table 4 .2 Breusch-Godfrey Serial Correlation LM Test:

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	0.800139	Prob. F(2,72)	0.4532
Obs*R-squared	1.804653	Prob. Chi-Square(2)	0.4056

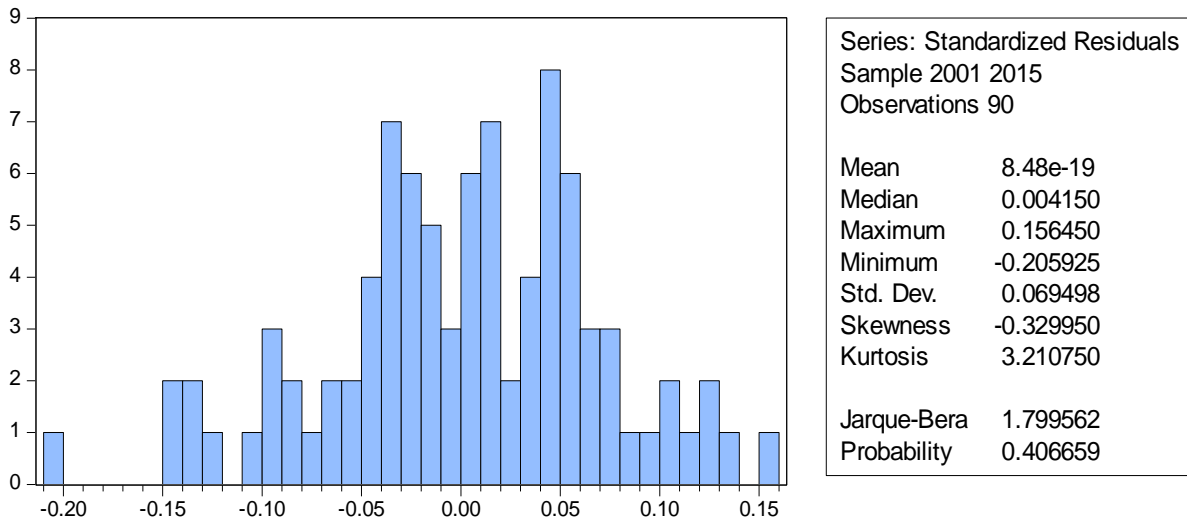
Source: E-view-8 output

4.1.4 Test for Normality assumption ($U_t \sim N(0, \sigma^2)$)

A normal distribution is not skewed and is defined to have a coefficient of kurtosis 3. BeraJarque formalizes this by testing the residuals for normality and testing whether the coefficient of skeweness and kurtosis are zero and three respectively.

Skewness measures the extent to which a distribution is not symmetric about its mean value and kurtosis measures how far the tails of the distribution are. The Bera-Jarque probability statistics/P-value is also expected not to be significant even at 10% significant level (Brooks,2008).According to Gujarati(2004), the JB is a large sample test and our sample of 96 falls within that range; suggesting possibility for using JB test also.

Figure 4.2 Normality Test



Source: E-view-8 output

As shown in the above Histogram, kurtosis approaches to 3 (i.e. 3.2107) ,skewness approaches to 0 (0.329950) and the Jarque-Berastatistics was not significant even at 5% level of significance as per the P-values shown in the histogram more than 5% (i.e. 0.406659). Hence, the null hypothesis that the error term is normally distributed should be accepted.

4.1.5 Assumption Four: Test for Multicollinearity

This assumption of multicollinearity is that explanatory variables are not correlated with one another. But, if the variables are not uncorrelated with one another, it will be the violation of the CLRM assumption of multicollinearity. To test the independence of the explanatory variables or to detect any multicollinearity problem in the regression model the study used a correlation matrix of independent variables. The problem of multicollinearity usually arises when certain explanatory variables are highly correlated. Malhotra (2007) stated that multicollinearity problems exists when the correlation coefficient among variables are greater than 0.75. Table 4.5 of correlation matrix has shown that the correlations among the independent variables are well below 0.75. Therefore, the risks of multicollinearity do not affect our regression analysis.

Table 4.3: Correlation Matrix between independent variables

	ROE	LEV	LIQ	RER	LLP	LDVPO	ECOG	INF
ROE	1.0000							
LEV	0.1105	1.0000						
LIQ	0.2630	0.1710	1.0000					
RER	-0.2212	-0.2358	-0.0663	1.0000				
LLP	-0.1334	0.0690	-0.1658	0.1547	1.0000			
LDVPO	0.0588	0.2281	0.0196	-0.5046	0.1048	1.0000		
ECOG	0.1630	-0.0691	0.1054	-0.0906	-0.1403	0.1687	1.0000	
INF	0.3561	0.2263	0.1637	-0.1016	0.0767	0.1365	0.3423	1.0000

Source: E-views-8

The results of the correlation matrix show that the highest correlation is 0.35 i.e. between ROE and INF. Since there is no correlation above 0.75 according to Malhotra (2007), it is possible to conclude in this study that there is no problem of Multicollinearity.

4.2 Descriptive statistics

Table 4.4 provides a summary of the descriptive statistics of the dependent and independent variables for six private banks from year 2000 to 2015 with a total of 96 observations. The table includes the mean, median, standard deviation, number of observations, minimum and maximum for the independent and dependent variables used in this research. It shows the average indicators of variables computed from the financial statements.

Table 4.4 Descriptive Statistics

	DVPO	ROE	LEV	LIQ	RER	LLP	LDVPO	ECOG	INF
Mean	0.563010	0.170283	0.831188	0.422297	0.436528	0.007516	0.550836	0.094533	0.123867
Median	0.560878	0.124016	0.850060	0.436004	0.429373	0.004315	0.547560	0.106000	0.106000
Maximum	0.905903	0.683127	0.920141	0.880795	0.732100	0.065999	0.905903	0.126000	0.364000
Minimum	0.319126	0.051724	0.669108	0.178990	0.129872	0.000125	0.319126	0.016000	-0.106000
Std. Dev.	0.142419	0.137077	0.066960	0.145005	0.142009	0.009980	0.138802	0.032552	0.120470
Observations	90	90	90	90	90	90	90	90	90

Source: E-view-8 output

Table 4.4 shows a mean value of dividend payout is 0.563010 indicating that the private banks in Ethiopia have paid 56.30 % of their income as dividend with 14.24% variability ups and downs for the period from year 2000 to 2015. As stated in chapter three, this study used profit after tax and legal reserve to calculate dividend payout. The figure indicated that Ethiopian banking industry distribute 56% of their profit to their shareholders with 14.24% variation.

Profit measured by return on equity shows the banks' profitability to generate income using the available shareholders' investment. The figure shows that Ethiopian private banks shareholders have generated on average 17.02% profit for a one birr funds invested by shareholders, this shows that Ethiopian private banks have earned 17.02% return from their equity investment with 13.70% variability ups and downs for the period from year 2000 to 2016.

Ethiopian private banks have on average 83.11% debt in their asset composition mainly from deposit which is an equity contribution of 16.89% which is well above the national bank of Ethiopia's requirement of a minimum of 8% equity to all banks to maintain in their capital structure. This condition shows banking industry is highly levered due to their main source of fund is from deposit, which is a liability with 6.69% variability ups and downs. A maximum debt ratio of 92.014% so there is no a bank with less than 8% equity thus all private banks maintain the requirement set by national bank of Ethiopia.

Ethiopian private banks have on average 42.22% liquidity position measured by current asset divided by current liability. This means that for a one birr current liability there is an available 0.42 cents on average on current assets, a maximum liquidity position of 87.07% and minimum of 17.89 % with a high dispersion of 14.50% ups and downs. The nature of the banking industry is highly dependent on deposit, which is a debt, to finance their operation, where they receive deposit from the public, mainly has a nature of short term, and extend loan to borrowers both for short and long period of time. Receiving short term deposit and providing long term loan, create a gap on banks liquidity management but evaluating the above figure based on National bank of Ethiopia liquidity requirement is a minimum of 15% this shows that Ethiopian private banks have maintained a liquidity requirement of NBE and it can be said they are solvent.

A retained earnings is a variable used as a proxy to measure how much Ethiopian private banks retain from their profits for expansions of banks and internal financing purpose. The average retained earnings is 43.65% which means Ethiopian private banks do not distribute 43.65% of their profit rather retain it for expansions and internal financing purpose with a variability of 14.20 % ups and downs for the last sixteen years from 2000 to 2015 years.

Loan loss provisions a variable used as a proxy for credit risk. The average value of loan loss provision is 0.75% which means that Ethiopian private banks loan loss provision is 0.75% in the last sixteen years from year 2000 to 2015 with a variability of 0 .99% ups and downs. Which means the quality of Ethiopian private banks' granted loan is good.

Lagged dividend paid by private banks shows average value of 55.08% with a variability of 13.88% ups and downs. This figure shows Ethiopian private banks have distributed 55 % of their revenues to shareholders, which indicates Ethiopian banking industry is a high dividend paying industry.

GDP measures the economic growth of the country. The average value of GDP is 9.45 % with 3.25 % up and down for the last sixteen years from year 2000 to 2015. Which means the average value of GDP indicates the average real economic growth of the country this shows that Ethiopia is registering good economic growth and from this result Ethiopian private bank are exploiting this good opportunity because as there is more deposits, it is possible to grant more loan and this results in more profit and leads to more dividend payout to shareholders.

Inflation rate is a variable which measures the variability of the price level in the economy. The average CPI rate 12.38% of the country over the last sixteen years from year 2000 to 2015 was more than the average Real Gross Domestic Products growth rate (GDP). The rate of inflation was highly dispersed over the periods under study towards its mean with standard deviation of 12.04%.

Table 4.5 Correlation Matrix of Dependent and Independent Variables

	DVPO	ROE	LEV	LIQ	RER	LLP	LDVPO	ECOG	INF
DVPO	1.000000								
ROE	0.206860	1.000000							
LEV	0.358436	0.110541	1.000000						
LIQ	0.031154	0.263071	0.171044	1.000000					
RER	-0.729526	-0.221213	-0.235873	-0.066340	1.000000				
LLP	-0.174808	-0.133459	0.069009	-0.165863	0.154795	1.000000			
LDVO	0.659392	0.058879	0.228167	0.019624	-0.504621	0.104830	1.000000		
ECOG	-0.047329	0.163004	-0.069165	0.105497	-0.090640	-0.140321	0.168794	1.000000	
INF	-0.058224	0.356154	0.226381	0.163741	-0.101652	0.076702	0.136545	0.342346	1.000000

Source: E-view-8output

As it can be seen from the table, the result of correlation between ROE and dividend payout showed a positive coefficient 20.68%. It indicates that if the ROE increases by one birr it will increase by 0.2068 cents. The correlation result between leverage and dividend payout showed a positive sign with a coefficient of 0.3584. This indicates, if the private banks' leverage increases by one birr, the dividend payout also increases by 0.3584 cents. Liquidity has a positive relationship with dividend payout with coefficient 0.0311 this means as liquidity or cash flow increases by one birr dividend payout will increase it by 0.0311 cents. A Retained earnings has negative correlation with dividend payout with a negative coefficient of -0.7295. This implies an increase in Retained earnings in one birr result decrease in dividend payout by 0.7295 cents. Loan loss provision has shown negative correlation with dividend payout with coefficient of -0.1748. This indicates that as loan provision increases by one birr dividend payout will decrease by 0.1748 cents. Lagged dividend payout has positive relation with current dividend payout with coefficient of 0.6593, this shows that as

Lagged dividend payout increases by one birr, current dividend payout will increase by 0.6593 cents. Economic growth of country has negative association with dividend payout with coefficient of -0.0473. This implies that as economic growth of the country increases by one birr dividend payout of private banks decrease by 0.0473 cents. Inflation rate of the country has a negative relation with dividend payout of private banks with coefficient of -0.0582. This indicates that as the inflation rate of the country increases by one birr, dividend payout of private banks decrease by 0.0582 cents.

Generally, the correlation results showed Retained earnings, loan loss provision, economic growth and inflation have a negative relation with dividend policy. On the other hand, ROE, leverage, liquidity and lagged dividend payout have positive relationship with dividend payout policy of Ethiopian private banks.

4.3 Choices of Regression Results

4.4.1 Choosing Random Effect (RE) Versus Fixed Effect (FE) Models

According to (Gujarati, 2004), if T (the number of time series data) is large and N (the number of cross-sectional units) is small, there is likely to be little difference in the values of the parameters estimated by fixed effect model/FEM and random effect model/REM. Hence the choice here is based on computational convenience. On this score, FEM may be preferable. Since the number of time series (i.e. 16 year) is greater than the number of cross-sectional units (i.e. six private banks), FEM is preferable in this case. According to Verbeek (2004); Wooldridge(2006), Brooks(2008); it is often said that the REM is more appropriate when the entities in the sample can be thought of as having been randomly selected from the population and the number of cross-sectional units is greater than the number of time series. Hence, this study chose to use FEM since the sample for this study was not selected randomly and the number of time series is greater than the number of cross-sectional units.

4.6 Table Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	0.233269	(5,76)	0.9468
Cross-section Chi-square	1.370705	5	0.9275

Source: E-view-8 output

The null hypothesis of the test was that the fixed effects method is the preferred regression method. Tables 4.6 show the p-value for the test is 94 percent, which indicates that the null hypothesis was not rejected. Hence, the fixed effects method was preferable. Accordingly, FEM was employed to estimate the relationship between the dependent variable and the independent variables.

4.4. Analysis and Interpretation of Regression Result

This section presents the regression result of fixed effect model to examine the determinant of DVPO of Ethiopian private commercial banks.

Accordingly, the regression result and coefficients of the variables were estimated via E-view version 8 software. As stated earlier in model selection part, fixed effect regression model is an appropriate model used in this study. Thus, the model used to examine the determinants of DVPO Ethiopian private commercial banks in this study is as follows:

$$DVPO_{i,t} = \beta_0 \alpha_i + \beta_1 ROE_{i,t} + \beta_2 LEV_{i,t} + \beta_3 RERN_{i,t} + \beta_4 LIQ_{i,t} + \beta_5 LLP_{i,t} + \beta_6 LDVPO_{i,t} + \beta_7 ECOG_{i,t} + \beta_8 INF_{i,t} + \epsilon_{i,t}$$

Where,

β_0 is an intercept

$\beta_1, \beta_2, \beta_3, \beta_4, \beta_5, \beta_6, \beta_7,$ and β_8 represent estimated coefficient for specific bank i at time t ,

$DVPO_{it}$ = the ratio of total dividend payment to total net profit for bank i at time t

PRO = Profitability is measured by ROE, it is the ratio of total net profit to total fund invested by shareholders for bank i at time t

LEV = Leverage, it is ratio of total debt to total asset for bank i at time t

RERN = Retained earnings, it is the ratio of total retained earnings to total profit for bank i at time t

LIQ = Liquidity, it is the ratio of total current asset to total current liability for bank i at time t

LLP = Loan loss provision, it is the ratio of total estimated uncollectible loan for bank to total loan granted i at time t

LDVP = lagged dividend payment, it is the ratio of previous year dividend payment to total net profit for bank i at time t

ECOG = Economic growth, it is measured by Real GDP growth rate of Ethiopia at time t

INF = Inflation, it is measured by consumer price index in Ethiopia at time t

ϵ = represents Error Term

I = cross section dimension, refers banks

t = Time series dimension, refers number of years

4.7 Table Regression result- fixed effect model (FEM)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.237562	0.140102	1.695630	0.0940
ROE	0.144844	0.071250	2.032907	0.0456**
LEV	0.459424	0.152337	3.015835	0.0035**
LIQ	-0.090143	0.069437	-1.298207	0.1981
RER	-0.460441	0.079108	-5.820374	0.0000*
LLP	-2.125608	0.925935	-2.295635	0.0245**
LDVPO	0.454770	0.081569	5.575304	0.0000*
ECOG	-0.502782	0.276658	-1.817342	0.0731
INF	-0.234274	0.080573	-2.907610	0.0048**

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.761875	Mean dependent var	0.563010
Adjusted R-squared	0.721143	S.D. dependent var	0.142419
S.E. of regression	0.075207	Akaike info criterion	-2.195102
Sum squared resid	0.429866	Schwarz criterion	-1.806243
Log likelihood	112.7796	Hannan-Quinn criter.	-2.038292
F-statistic	18.70457	Durbin-Watson stat	1.998608
Prob(F-statistic)	0.000000		

Source: E-view-8 output

*and ** indicate that significance at 1% and 5% level respectively.

Thus, based on the result Table 4.7above, the following model was developed to examine the determinants of DVPO in this study.

$$DVPO = 23.75 + 14.48ROE + 45.94 LEV - 9.01LIQ - 46.04RERN - 2.12LLP + 45.47LDVPO - 50.27ECOG - 23.42INF + \epsilon$$

According to table 4.7 fixed effect regression results, adjusted R2 has the value of 72.11% which reveals that the explanatory power of the model is good. The value (i.e. 72.11%) could be interpreted as; dividend payout of Ethiopian private banks 72.11% were explained by ROE, LEV, LIQ, RER, LLP, LDVP, ECOG, and INF whereas the rest 27.89% variation of dividend payout of Ethiopian private banks were explained by neither bank specific nor macroeconomic variables used in this study rather it explained by the error term. Generally, the value of adjusted R2 in this study indicated good model specification. Also, the overall test of significant F statistics shows that the model was good enough fitted and statistically significant at 1% level (i.e. p-value = 0.000).

Furthermore, the study examined the impact of both bank specific and macroeconomic factor on dividend payout of Ethiopian private banks for based on regression result of fixed Effect Model in Table 4.8 in terms of examination of coefficients of explanatory variables and significance level.

In examination of coefficients for bank specific factors, ROE, LEV, and LDVPO had positive impact on dividend payout having a coefficient of 14.48, 45.94, and 45.47 respectively. This indicates that one unit change (increase/decrease) in ROE, LEV, and LDVPO can result a change on dividend payout by 14.48, 45.94, and 45.47 units in similar direction respectively. However, LIQ, RERN, and LLP had negative impact on dividend payout having coefficient of -9.01, -46.04, and -2.12. This indicates that 1% change in LIQ, RERN, and LLP can result in a change on dividend payout by -9.01, -46.04, and -2.12 in opposite direction.

Besides, from macroeconomic factors, ECOG measure by GDP and INF measured by general inflation rate had negative impact on dividend payout having a coefficient of -50.27 and -23.42 respectively which indicates a one unit change (increase/decrease) in GDP and INF can result a change on dividend payout by -50.27 and -23.42 units in opposite direction respectively.

In terms of significance level (corresponding p-value); out of the total eight explanatory variables of the study two of them were statistically significant at 1% level (RERN & LDVP) while ROE, LEV, LLP, and INF were significant at 5% level. The rest two variables had no statistically significant impacts on dividend payout of Ethiopian private banks for the period

between 2000-2015. Inflation of the country measured by general inflation rate the only macroeconomic variable that significantly affected dividend payout, but the rest five variables were bank specific variables that significantly affected dividend payout. This indicated that most statistically significant variables are bank specific factors that affected dividend payout of Ethiopian private banks.

4.5 Interviews Results

Apart from the structured record review, this study employed interviews with Ethiopian private banks' officials. The in-depth interview was conducted with eight board members and six financial managers. Those board members and financial managers were from Awash International Bank (AIB), Dashen bank (DB), Bank of Abyssinia (BOA), Nib international bank (NIB), united bank (UB), and Wegagen bank (WB) share companies. The interview questions were unstructured and focused on view towards dividend policy, importance of dividend payout decisions relative to investment and financing decisions, and the main factors that affect the dividend payout policy of Ethiopian private banks.

The interview firstly explored whether Ethiopian private banks have dividend policy but interviewees revealed that their banks have no targeted ratio dividend policy on which the banks are to be guided rather they depend upon the current earnings. Secondly, about importance of the dividend payouts in the Ethiopian Private Banks relative to investment and financing decisions, all the interviewees considered dividend policy to be an important decision for their firms because investment, financing and dividend decisions exist in Ethiopian private banks and decisions of dividend was not taken alone rather it was considered along with the investment and financing needs of firms in order to maximize firm value.

Thirdly, regarding who decides the amount of dividend payment the interviewees suggested that board of director suppose the amount to be paid as dividend and it will be finally approved in annual general meeting by the vote of shareholders.

Fourthly, on the question that focuses on the determinants of dividend policy, respondents offered various factors, especially since the question was open ended. A number of factors were mentioned by particular interviewees as affecting their firm's dividend decision. Despite varying responses, the most common factor sighted were current earning, liquidity,

past dividends, total deposit, size, macro-economic variables, monetary rules and regulation, and investment opportunity.

Fifthly, from the factors listed on the interview, all the interviewees suggested that a firm's current year earnings was the main one leverage, liquidity, lagged dividend and economic growth of the country that has positive significant effect on a dividend payout policy while retained earnings, loan loss provision and inflation have negative significant effect on dividend payout policy.

Overall, Most of respondents stated that Ethiopian private banks did not have target ratios of dividend policies rather the dividend payout fluctuates from year to year. Most of board members and financial managers believe that dividend is important so as to increase the firm value and the dividend policies were influenced by bank specific and macro-economic factors.

4.6 Discussions of the Regression Results

In this section the discussions of regression results were made on the basis of related literature provided in chapter two of this study. Accordingly, the relationship between dependent and independent variables were discussed on the basis of the findings of this study and then it was associated to the theoretical literature and the finding of other researchers provided in the empirical review under this study.

Profitability

The result of profitability measured by ROE as shown in table 4.7 is positive and statistically significant. Profitability is a significant factor that determines dividend payout. The result shows the effect of profit measured by ROE on dividend payout with a coefficient of 0.1448 and a p-value of 0.0456 at 5% significance level. This implies that for one unit change in ROE, keeping the other things constant will result 0.1448unit changes on dividend payout in similar direction. Therefore, hypothesis 1 is not rejected. Hypothesis 1 states that profitability has positive significant impact on dividend policy of Ethiopian private banks. This means that Ethiopian private banks pay dividends for their shareholders when they are profitable. This result is consistent with the signaling theory of the dividend policy theory; it

states that the more profitable firm is, the higher the possibility to pay dividends the less profitable firm, the lower possibility to pay dividends.

This finding is similar to the finding of Lintner (1956) ,Ayodeji and Lukmon (2014), Alzomain & Al-Khadiri (2013) ,Zameer et al. (2013) ,Hailemariam (2013), NsikanEdet et al . (2014), Alzomaia& Al-Khadhiri (2013), Wasike & Amborse (2015) , Awad (2015) ,Mirbagherijam(2014) Basse and Reddeman (2011),Mehta (2012),and Nohu (2014) .All the interviewees suggested that a bank's current year earnings were the most important factor in influencing a dividend payment. The possible reason for the positive significant relationship with dividend payout could be Ethiopian banking industry is more profitable industry. This may indicates that Ethiopian private banks pay dividend by considering the level of profit.

Leverage

The result of leverage as shown in table 4.7 is positive and statistically significant. Leverage is a significant factor that determines dividend payout. The result shows the effect of leverage on dividend payout with a coefficient of 0.4594 and a p-value of 0.0035at 1% significance level. This implies that for one unit change in leverage, keeping the other things constant will result 0.4594 unit changes on dividend payout in similar direction. The increase or decrease in leverage ratio has positive statistical significant effect on dividend payout in Ethiopian private banks for the study period. Therefore, hypothesis 2 is also rejected. It states that leverage has a negative impact on dividend policy of Ethiopian private banks. The finding is against pecking order theory, Pecking order theory states that external financing is more costly compared to internal financing. This is explained by the high transaction costs and highly leveraged companies therefore have to rely on retained earnings in order to meet their obligations than less leveraged companies. As result of this a larger proportion of highly leveraged companies' profit and retained earnings gone for payment of obligations and financing cost, it leads to decrease in profit and this in turn results in decrease in the company the dividend payout ratio.

This finding of this study is consistence with the previous empirical study of Zameer et al. (2013) and Awad (2015).It is also consistent with the result found in the in-depth interview most of the interviewees revealed leverage has positive impact on dividend payout. The possible reason for positive significant impact on dividend payout might be the nature of

banking industry, where most of their asset comes from deposit, which is a debt. When banks collect more deposit then they will have a chance to extend more loans which in turn brings more profit to the banks. Thus, leverage has positive significant relationship with dividend payout. Second possible reason, Ethiopian private banks could use debt to make a dividend payment.

Liquidity

The result of liquidity as shown in table 4.7 is negative and statistically insignificant. Liquidity is insignificant factor that determines dividend payout. The result shows the effect of liquidity on dividend payout with a coefficient of -0.0901 and a p-value of 0.1981 at 5% significance level. This implies that for one unit change in liquidity, keeping the other things constant will result -0.0901 unit changes on dividend payout in opposite direction. The increase or decrease in liquidity ratio has negative statistical insignificant effect on dividend payout in Ethiopian private banks for the study period. Therefore, hypothesis 4 is also rejected, stating that liquidity has a positive significant impact on dividend policy of Ethiopian private banks. The finding is in contrary to the Jensen's (1986) agency theory stated; companies with higher free cash flow have higher dividend payout ratios. Based on this theory, companies that have higher liquid assets are more exposed to agency problem than a company with lower liquid assets. Because shareholders do not trust managers, and they therefore, think that the managers may be engaged in excessive spending if they have excess free cash flow at their hands.

This finding of this study is in line with results of Hailemariam (2013), Mitiku (2015), and NsikanEdet et al.(2014). But it is inconsistent with the answer of the interviewees as most of them claimed that after current earnings the availability of cash was the most important factor when deciding on the amount of dividend payment. The possible reason for insignificant and negative relationship between liquidity and dividend payout might be banks by their nature is required to maintain high liquidity in order to avoid insolvency problem due to large sum of their assets is made up from deposit and this deposit could be withdrawal at any time, to avoid this problem banks should always make sure that they have enough liquidity to entertain huge amount of withdrawals from deposit due to different reasons and they are also required to buy NBE bill 27% of total loan granted.

Retained earnings

Table 4.7 shows retained earnings has a negative and statistically significant relationship with dividend payout at 1% significance level. The result shows the effect of retained earnings on dividend payout with a coefficient of -0.460441 and a p-value of 0.0000 at 1% significance level. This implies that for one unit change in retained earnings, keeping the other things constant will result -0.460441 unit changes on dividend payout in opposite direction. The increase or decrease in retained earnings has negative statistical significant effect on dividend payout in Ethiopian private banks for the study period. Therefore, hypothesis 4 is not rejected; stating that retained earnings has a negative significant impact on dividend policy of Ethiopian private banks.

The finding is similar to Ayodeji and Lukmon (2014). It is also consistent with the answer of the interviewees as most of them stated that if the boards of directors decide to keep more retained earnings from profit for expansion and investment purpose, the possibility of paying high dividend decreases so it was the most important factor which was considered when deciding dividend payout. The possible reason for significant and negative relationship between retained earnings and dividend payout could be Ethiopian private banks retain more of their profit for the purpose of investment and internal financing and this decreases the dividend payout.

Loan loss provision

Table 4.7 shows loan loss provision is used to measure the risk of credit and has a negative and statistically significant relationship with dividend payout at 1% significance level. The result shows the effect of retained earnings on dividend payout with a coefficient of -2.125608 and a p-value of 0.0245 at 5% significance level. This implies that for one unit change in loan loss provision, keeping the other things constant will result -2.125608 unit changes on dividend payout in opposite direction. The increase or decrease in loan loss provision has negative statistical significant effect on dividend payout in Ethiopian private banks for the study period. Therefore, hypothesis 4 is not rejected, stating that loan loss provision has a negative significant impact on dividend policy of Ethiopian private banks.

The finding is similar to Ayodeji and Lukmon (2014) but contradicts to Hailemariam (2013). It is consistent with the answer of interview as the interviewees indicated that their bank's

dividend payment fluctuated with the bank's change in loan loss provision since it affects the current earnings of the bank. The possible reason for significant and negative relationship between loan loss provision and dividend payout could be Ethiopian private banks examine properly the quality of loan and maintain high provision for loans whose chance of collectability are doubtful in the future.

Lagged Dividend Payment

Table 4.7 shows lagged dividend payout has a positive and statistically significant relationship with dividend payout at 1% significance level. The result shows the effect of lagged dividend payout on dividend payout with a coefficient of 0.454770 and a p-value of 0.0000 at 1% significance level. This implies that for one unit change in lagged dividend payout, keeping the other things constant will result 0.454770 unit changes on dividend payout in similar direction. The increase or decrease in lagged dividend payout has positive statistical significant effect on dividend payout in Ethiopian private banks for the study period. Therefore, hypothesis 6 is not rejected; stating that lagged dividend payout has positive significant impact on dividend policy of Ethiopian private banks. The finding of study supports the theory of signaling, theory of signaling stated that when companies want to give a positive signal to the market that the company is in good condition whereby it is continuing paying dividends. A company that pays dividend this year is also expected to pay in the coming years.

The finding is similar to Zameer et al. (2013), Hailemariam (2013), Mitiku (2015), Nsikan Edet et al (2014), Alzomaia & Al-Khadhiri (2013), & Maladjian & El-khoury (2014). It is also consistent with the result found in the in-depth interview in which most of the interviewees revealed that lagged dividend payout has positive impact current on current dividend. The possible reasons for significant and positive relationship between lagged dividend payout and dividend could be Ethiopian private banks use previous year's dividend payment as signal that the firms are performing well and their shareholders expect positive thing in the future.

Economic growth

Table 4.7 shows economic growth of the country measured by GDP it has a negative and statistically insignificant relationship with dividend payout at 5% significance level. The result shows the effect of GDP on dividend payout with a coefficient of -0.502782 and a p-

value of 0.0731 at 5% significance level. This implies that for one unit change in loan GDP, keeping the other things constant will result -0.502782 unit changes on dividend payout in opposite direction. The increase or decrease in GDP has negative statistical insignificant effect on dividend payout in Ethiopian private banks for the study period. Therefore, hypothesis 7 is rejected, stating that GDP has positive significant impact on dividend policy of Ethiopian private banks.

The finding is in line with Ghafoor et al. (2014) but contradicts with Basse and Reddeman (2011). It is also inconsistent with the result found with interview in which most of the interviewees revealed that economic growth of the country has positive impact on dividend payout because as the economy of the country grows, the profit of bank increases and this leads to increasing of possibility of paying higher dividend. The possible reasons for insignificant and negative relationship between GDP and dividend payout might be Ethiopian private banks do not consider the effect of economic growth of the country on dividend payout while declaring dividend.

Inflation

Table 4.7 shows inflation of the country measured by consumer price index it has a negative and statistically significant relationship with dividend payout at 5% significance level. The result shows the effect of inflation of the country on dividend payout with a coefficient of -0.234274 and a p-value of 0.0048 at 5% significance level. This implies that for one unit change in consumer price index, keeping the other things constant will result -0.234274 unit changes on dividend payout in opposite direction. The increase or decrease in consumer price index has negative statistical significant effect on dividend payout in Ethiopian private banks for the study period. Therefore, hypothesis 8 is not rejected, stating that inflation has a negative significant impact on dividend policy of Ethiopian private banks.

The finding is consistent with Duncan and Wairimu (2013) & Nsikan Edet et al. (2014) but in contrary with Mirbagherijam (2014) Basse and Reddeman (2011), & Ghafoor et al. (2014). It was also consistent with the result obtained from the in-depth interview as the interviewees indicated that their company's dividend policy is affected during high inflation period since credit limit imposed by NBE so as to stabilize inflation across the country and this leads to decrease in profit of company and affect dividend payout of Ethiopian private banks.

The possible reasons for significant and negative relationship between inflation and dividend could be Ethiopian private banks prefer to retain much of their profit during inflationary periods, they usually prefer to retain huge part of their earnings so as to invest in fixed asset, increase their expansion in terms of branch and imposition of credit limit by NBE so as to stabilize inflation occurred across the country to some extent.

4.7 Summary of the Analysis

Table 4.8 Comparison of the Test Result with the Expectation

Hypothesis	Independent Variables	Expected Relationship with dependent variable (DPO)	Actual Result	Decision
Hypothesis 1	Profitability	+ve & sig	+ve & sig	Not Rejected@ 5%
Hypothesis 2	Leverage	-ve & sig	+ve & sig	Rejected
Hypothesis 3	liquidity	+ve & sig	-ve & insig	Rejected
Hypothesis 4	Retained earnings	-ve & sig	-ve & sig	Not Rejected@ 1%
Hypothesis 5	Loan loss provision	-ve & sig	-ve & sig	Not Rejected@ 1%
Hypothesis 6	Lagged dividend	+ve & sig	+ve & sig	Not Rejected@ 5%
Hypothesis 7	Economic growth	+ve & sig	-ve & insig	Rejected
Hypothesis 8	inflation	-ve & sig	-ve & sig	Not Rejected@ 5%

Note: sig. = statistically significant

Insig. = Statistically insignificant

Chapter Five: Conclusion and Recommendation

In this Chapter conclusion is made based on the findings of the study and forwarded possible recommendations and state future research areas which need further study.

5.1 Conclusion

Dividend policy has been analyzed for many decades, but no universally accepted explanation for companies' observed dividend behavior established & become a puzzle in corporate finance. The main purpose of the study was to examine the determinants of dividend policy of Ethiopian private banks. In order to meet the objective of the study sixteen years audited financial statements data from National bank of Ethiopia and macro-economic variables from CSA and MOFED were used from year 2000 to 2015 for six samples selected private banks. The collected data was analyzed using pooled fixed effect panel regression method to examine the relationship between the six bank specific factors, which are (profit, liquidity, leverage, growth, size and risk) and macro variables which are GDP & inflation rate with dividend payout. The result of the regression analysis showed that:

Profit has positive significant factor that determines dividend payout of Ethiopian private banks. This result supports the signaling theory, the more profitable bank is, the higher the possibility to pay dividends, the less profitable firm the lower possibility to pay dividends and confirms argument of Linter (1956) stated that paying dividend is relevant because as firm payout dividend their firm value increases. This implies that Ethiopian private banks are profitable and believe paying dividend is important so as to increase their firm value.

Leverage has positive significant relationship with dividend payout of Ethiopian private banks and the finding is against the theory of pecking order theory, Pecking order theory states that external financing is more costly compared to internal financing which means highly leveraged companies will have high transaction and financing cost as compared to non-levered firm due to this their profit decreases, this lead to decrease in proportion of dividend payout. This implies that Ethiopian private banks are highly levered firm by their nature because they extend loan to borrowers mainly from the deposit collected from the public. The increase in deposit will lead to the increase in loan to be granted to borrowers as

a result will lead to increase in profit, and the amount of dividend to be distributed to shareholders increases.

Liquidity has negative insignificant relationship with dividend payout of Ethiopian private banks and the finding is against the theory of agency. Theory of agency stated that agency companies with higher free cash flow will have higher dividend payout ratios. Based on this theory, companies that have higher liquid assets are more exposed to agency problem than a company with lower liquid assets. Because shareholders do not trust managers, and they think that the managers may be engaged in excessive spending if they have excess free cash flow at their hands. This indicates that Ethiopian private banks is required to maintain high liquidity in order to avoid insolvency problem due to large sum of their liquid assets is made up from deposit and this deposit could be withdrawal at any time, to avoid this problem banks should always make sure that they have enough liquidity to entertain huge amount of withdrawals from deposit due to different reasons.

Retained earnings have a negative significant relationship with dividend payout of Ethiopian private banks. The finding is similar to Ayodeji and Lukmon (2014). This shows that Ethiopian private banks retain more of their profit for the purpose of investment and internal financing.

Loan loss provision is used to measure the risk of credit and has a negative and statistically significant relationship with dividend payout of Ethiopian private banks. The finding is similar to Ayodeji and Lukmon (2014) but contradicts to Hailemariam(2013). This implies that Ethiopian private banks examine the quality of loan and maintain high provision for loans which are chance of collectability doubtful in the future.

Lagged dividend payout has a positive significant relationship with dividend payout of Ethiopian private banks. The results of the study supports the theory of signaling, it stated that companies wants to give a positive signal to the market that the company is in good condition and continuing paying dividends. A company that pays dividend this year is also expected to pay in the coming years. This indicates that Ethiopian private banks use previous year's dividend payment as signal that the firms are performing well and their shareholders expect positive and attractive dividend payout in the future.

Economic growth of the country measured by GDP it has a negative insignificant relationship with dividend payout Ethiopian private bank. The finding is in line with Ghafoor, et al (2014). This implies that Ethiopian private banks do not consider the effect of economic growth of the country on dividend paid out while declaring dividend.

Inflation of the country measured by consumer price index it has a negative and statistically significant relationship with dividend payout Ethiopian private banks. The finding of the study is consistent with Duncan and wairimu (2013) & NsikanEdet et al. (2014). This indicates that Ethiopian private banks take into account the effect of inflation while declaring dividend during inflationary periods, they usually prefer to retain huge part of their earnings so as to invest in fixed asset, increase their expansion in terms of branch and stabilize to some extent inflation occurred across the country.

Furthermore, as per interview made with most of respondents stated that Ethiopian private banks did not have target ratios of dividend policies rather the dividend payout fluctuates from year to year. Most of board of directors and financial managers believe that dividend is important so as to increase the firm value and the dividend policies were influenced by bank specific factors and macro-economic variables.

5.2. Recommendations

Based on the findings and conclusions of the study, the following recommendations are forwarded to the shareholders, investors, banks and the government:

Ethiopian private banks dividend decision is made by the General Assembly at the end of each financial year as per their articles of association, and they have no written target policy on dividend. The banks should develop such a policy by which they are to be guided while making decisions on dividend and investors are able to identify banks with attractive dividend policy.

Management and banks board of directors should give considerable attention for the following variables when deciding the dividend payment decision for their banks because profit, leverage, & lagged dividend paid out have positive statistical significant impact on dividend paid out while retain earnings, loan loss provision & inflation have negative statistical significant impact on dividend paid out of Ethiopian private banks.

Investors need to evaluate Ethiopian private banks' performance from bank specific factors and macro variables perspectives before making any investment decision because those : profit, leverage,& lagged dividend paid out have positive statistical significant impact on dividend paid out while retain earnings , loan loss provision & inflation have negative statistical impact on dividend paid out of Ethiopian private banks.

Government should facilitate the establishment of stock market in the country so that shares can be traded freely in the market. This will help Ethiopian private banks not to be depend on internally generated funds so as to make proper decision on dividend, and sell new shares in the market whenever needed and payout dividend.

For Future Research

This study examined six firms specific and only two macroeconomic determinant of dividend policy of Ethiopian private banks. Future researchers are recommended to include firm specific variable like growth, liquidity risk and age with additional macro variables in order to demonstrate the impact of both internal and external variables on dividend policy of Ethiopian private banks.

Reference

- ❖ Agymang, E (2013). *The determinants of dividend payout policy of listed financial institution in Ghana*. Research journal of finance & accounting 4(7).
- ❖ Ahmed, H and Javid, A Y (2009), *Determinants of Dividend Policy in Pakistan*, International Research Journal of Finance and Economics, 29(1)
- ❖ Aharony, J & I Swary (1980), *Quarterly Dividend and Earnings Announcements and Stockholders Returns: An Empirical Analysis*, Journal of Finance, volume 3(1).
- ❖ Alli, K.L., A.Q. Khan.(1993). *Determinates of corporate dividend policy: a factorial analysis*. Financial review, 28(4): PP523-547
- ❖ Al-Malkawi, H.-A.N., Rafferty, M., & Pillai, R. (2010). *Dividend Policy: A Review of Theories and Empirical Evidence*. International Bulletin of Business Administration 9(1).
- ❖ Al-Najjar, B and Hussainey, K 2009, *The Association between Dividend Payout and Outside Directorships*, Journal of Applied Accounting Research, 2(2) pp. 1-28.
- ❖ Alzomaia, Tand Al-chadhiri , A (2013). *Determinates of dividend policy: the evidence from Saudi Arabia* .International journal of business and social science 4(1)
- ❖ Amindu, M and Abor, J (2006), *Determinants of the Dividend payout ratio in Ghana* , the Journal of Risk Finance,7(2),
- ❖ Athanasoglou, P, Delis, M. and Staikouras, C (2006) *.Determinants of Banking Profitability in the South Eastern European Region*, Bank of Greece Working Paper 06/47.
- ❖ Awad, B(2015). *Determinates of dividend policy in kuwait stock exchange*. International journal of business and management 3 (7)
- ❖ Ayodeji ,R and Lukmon, S(2014), *Determinants of the Dividend payout in the Nigerian banking industry* . Annual London business research Conference College.
- ❖ Baker, H.K. and Powell, G.E.(2000). *Determinants of Corporate Dividend Policy: A Survey of NYSE Firms*, Financial Practice and Education, Spring/Summer,3(1) pp.
- ❖ Basse, T., and Reddemann,S (2011), *Inflation and the dividend policy of US firms*, Managerial Finance 37(1)
- ❖ Basse. T (2009).*Dividend policy and inflation in Australia: Results from cointegration tests*, International Journal of business and management 4(6)

- ❖ Berger, A. (1995), *The profit-Structure Relationship in Banking: Test of Market-Power and Efficient-Structure Hypotheses*, Journal of Money, Credit and Banking, Vol 27, pp.404-431
- ❖ Bhattacharya, S. (1979). *The Bird in the Hand Fallacy*. The Bell Journal of Economics, 10(1),
- ❖ Black, F. (1976). *The dividend puzzle*. Journal of Portfolio Management, 2 (2), pp5-8.
- ❖ Black, F., & Scholes, M. (1974). *The Effects of Dividend Yield and Dividend Policy on Common Stock Prices and Returns*. Journal of Financial Economics, 1 (1), pp 1-22.
- ❖ Brealey, R. A., Myers, S. C., & Allen, F. (2008). *Principles of Corporate Finance*. 9 ed. New York: McGraw-Hill Education.
- ❖ Brealey, R., & Myers, S. (2003). *Principles of corporate finance*. New York: McGraw Hill
- ❖ Brealey, R A, Myers, S C and Marcus, A J (1999). *Fundamentals of Corporate Finance*, 4th ed. London; Prentice Hall.
- ❖ Brennan, M (1970). *Taxes, Market Valuation and Financial Policy*, National Tax Journal 3(2)
- ❖ Brigham, E. F., & Houston, J. F. (2005). *Fundamental of Financial Management* (10 ed.). McGraw-Hill.
- ❖ Brooks, C. (2008). *Introductory Econometrics for Finance (2 ed.)*. UK: Cambridge University Press.
- ❖ Butros, A (2014). *Thesis submitted to the Cardiff School of Management in partial fulfillment of the requirements for the degree of Master of Philosophy*.
- ❖ Chang, R. P., & Rhee, G. S. (2003). *The Impact of Personal Taxes on Corporate Dividend Policy and Capital Structure Decisions*. Financial Management, 19(2), 21-31.
- ❖ Chigazie, O G. (2010), *A Diagnosis of the Determinant of Dividend Pay-Out Policy in Nigeria: A Factor Analytical Approach*, American Journal of Scientific Research, Issue 8(2010), pp.57-67
- ❖ Collins, MC, Saxena AK & Wansley JW, (1996). *The role of insiders and dividend policy: a comparison of regulated and unregulated firms*. Journal of Finance Strategic 4(2)
- ❖ Creswell, J. W. (2002). *Research Design Qualitative, Quantitative, and Mixed Methods Approaches* (2 ed.). SAGE publications.inc

- ❖ D'Souza, J (1999), 'Agency cost, market risk, investment opportunities and dividend policy an international perspective', *Managerial Finance journal* 3(1).
- ❖ Duncan, O.,E and Wairimu, K.H (2013) *Relationship between Inflation and Dividend payout for companies listed at the Nairobi securities exchange*, *international Journal of education and Research*, 1(6)
- ❖ Easterbrook, F. H. (1984). *Two Agency-Cost Explanations of Dividends*. *The American Economic Review*, 74(4).
- ❖ Ghafoor, A. Asif, M.K., Asim, S.S, and Hussain, H.K (2014). *Inflation and dividend behavior of Pakistani firms: An empirical investigation using ARDL*, *International Journal of business and management* 9 (9)
- ❖ Gordon, J. M. (1959). *Dividends, earnings, and stock prices*. *The Review of Economics and Statistics*, 41(2),
- ❖ Gordon M., J (1963).*Optimal Investment and Financing Policy*, *Journal of Finance*, 2(1), pp. 264-272.
- ❖ Gujarati, D. N. (2004). *Basic Econometrics* (4 ed.). The MacGraw-hill Companies.
- ❖ Gustav, H., & Gairatjon , I. (2012). *Determinants of Dividend Payout Ratios; A Study of Swedish Large and Medium Caps; A degree project*. Sweden: Umeå School of Business and Economics.
- ❖ Hailemariam.S (2013). *Determinants of Dividend policy of banks in Ethiopia*, Unpublished thesis submitted to Addis Ababa University in partial fulfillment of Masters of Accounting and Finance.
- ❖ Habbash, M. (2010). *The effectiveness of corporate governance & external audit on constraining*, *journal of finance* 2(1)
- ❖ Huda, F and Farah, T (2011), 'Determinants of Dividend Decision: A Focus on Banking Sector in Bangladesh', *International Research Journal of Finance and Economics*, Issue 77, pp.33-46.
- ❖ Jensen, M. C. (1986). *Agency Costs of Free Cash Flow, Corporate Finance, and Takeovers*. *The American Economic Review*, 76(2), 323-329.
- ❖ Jensen, M. C., & Meckling, W. H. (1976). *Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure*. *Journal of Financial Economics*, 3(4),pp 305-360.

- ❖ Kazmierska-jozwiak (2015). *Determinants of Dividend policy evidence from polish listed companies*. Academic World research and education center procedia Economics and Finance 23(3)
- ❖ Kinfe, T. (2011). *Determinants of Dividend payout: An Empirical Study on Bank Industry in Ethiopia*, unpublished thesis submitted to Addis Ababa University in partial fulfillment of Masters of Accounting and Finance.
- ❖ Kolb, R. W., & Rodriguez, R. J. (1996). *Financial Management* (2 ed.). Blackwell Publishers, Cambridge.
- ❖ Komrattanapanya, P., & Suntrauk, P. (2013). *Factors Influencing Dividend Payout in Thailand: A Tobit Regression Analysis*. International Journal of Accounting and Financial Reporting, 3(2), 2162-3082.
- ❖ Kothari, C., (2004). *Research Methodology, Methods and Techniques*. 2nd ed. India: University Of Rajasthan.
- ❖ Lintner, J. (1956). *Distribution of Incomes of Corporations among Dividends, Retained Earnings, and Taxes*. The American Economic Review, 46(2), 97-113.
- ❖ Lloyd, W.P., J.S. Jahera and D.E page, (1985). *Agency costs and Dividend-payout Ratios*, Quarterly Journal of Business and Economics, 3(2) PP: 19-29.
- ❖ Maladjian, C and El Khory , R (2014). *Determinants of the dividend policy: an empirical study on the lebananese listed*. International economics and finance 6(4)
- ❖ Malhotra , N. K. (2007). *Marketing Research: An Applied Orientation* (5 ed.). New Delhi: Pearson Publication.
- ❖ Marfo-Yiadom, E and Agyei, S A (2011), *Determinants of Dividend Policy of Banks in Ghana*, International Research Journal of Finance and Economics, Issue 61, pp 99-108.
- ❖ Mehta, A. (2012). *An Empirical Analysis of Determinants of Dividend Policy – Evidence from the UAE Companies*. Global Review of Accounting and Finance, 3(1), 18 – 31.
- ❖ Mirbagherijam, M (2014). *Asymmetric Effect of inflation on Dividend Policy of Iran's stock Market*, International Journal of Academic Research Business and social Science, 4(2)

- ❖ Mitiku, E. (2015). *Determinants of Dividend payout of Ethiopian private banks*, unpublished thesis submitted to Addis Ababa University in partial fulfillment of Masters of Accounting and Finance.
- ❖ Miller, M H, and Modigliani, F (1961), ‘Dividend Policy, Growth, and the of Valuation Shares’, *Journal of Business* Vol. 34, pp. 411-433.
- ❖ Mauri, A(2010), ‘*The Short life of the Bank of Ethiopia*, Acta University Danubius, *Economica*, No. 4(1), pp.67.
- ❖ Myers, S C and Majluf N S (1984),*Corporate Financing and Investment Decisions When Firms Have Information that Investors Do Not Have*, *Journal of Financial Economics*, Vol. 13, pp. 187-221
- ❖ Nsikan, B.E & Atairet, E.A Francis, A.A (2014), *Determinants of dividend payout of financial institutions in Nigeria: A study of selected commercial banks*, *Research Journal of Finance and accounting* (5) (7)
- ❖ Nuhu, E (2014), *Determinants of dividend payout ratio in Ghana*, *International journal of business & social science* 5(8).
- ❖ Onail, E (2009), *Dividends and Risk in European banks*’, Available at <http://papers.ssrn.com/sol3/papers.cfm?>
- ❖ Rehman, A., (2012), *Determinants of Dividend Payout Ratio: Evidence from Karachi Stock Exchange (KSE)*. *Journal of Contemporary Issues in Business Research*, 1(1)
- ❖ Ross, S. A. (1977).*The determination of financial structure: the incentive-signaling approach*. *The Bell Journal of Economics*, 8(1), 23-40
- ❖ Ross, S. A., Westerfield, R. W., & Jaffe, J. F. (2002). *Corporate Finance* (6 ed., Vol. 1). New York, USA: McGraw-Hill/Irwin.
- ❖ Rozeff,, M. S (1982),’*Growth, beta and agency costs as determinants of dividend payout ratios*. ‘*Journal of Financial Research*1(2)
- ❖ Saunders, M., Lewis, P., & Thornhill, A. (2009). *Research Methods for Business Students*. 5 ed. Harlow: Pearson Education.
- ❖ Shapiro, A. C. (1990). *Modern Corporate Finance*. New York: Macmillan Publishing *Company Shares*. *The Journal of Business*, 34 (4), 411-433.
- ❖ Verbeek, J., (2004). *A guide to modern econometrics*. 2nd ed. Rotterdam: John Wiley & Sons Ltd.

- ❖ Wasike. w.T., A. & Ambrose, J . (2015). *Determinants of Dividend Policy in Kenya*. International Journal of Arts and Entrepreneurship 4 (11), 71-80.
- ❖ Watson, D., & Head, A. (2010). *Corporate Finance: Principles & Practice* (5 ed.).Pearson Education Limited.
- ❖ Watson, D., & Head, A. (2010). *Corporate Finance: Principles & Practice* (5 ed.). Pearson Education Limited.
- ❖ Wooldridge, J. M. (2006). *Introductory Econometric: A Modern Approach*. International Student(3 ed.). Canada: Thomson South–Western
- ❖ Zameer, H., Rasool, S., Iqbal, S., & Arshad, U. (2013). *Determinants of Dividend Policy: A Caseof Banking Sector in Pakistan*. Middle-East Journal of Scientific Research, 18(3), 410-424.
- ❖ ZipPorah,M.w(2013),*The Effect of Macroeconomic Variables on the Dividend Payout of Firms listed at the NairobiSecurities Exchange* ,unpublished master of thesis, university of Nairobi 1(2)

Addis Ababa University
Faculty of Business of Economics
Accounting & Finance Department

Dear: Sir/Madam

This is to collect information on determinants of dividend policy of Ethiopian Private Banks. This Collected information will be used only for academic purpose & kept confidential.

Therefore, I kindly request you to give me your experience/ answers for questions stated below.

I thank you in advance for your kind cooperation.

Tadele Tesfaye, MSC student of Accounting & Finance

Name of the bank _____

Your position in the bank _____

Your education level _____

1. Do you have dividend policy on which the bank is to be guided?
2. What are importance of dividend payment relative to investment and financing decisions?
3. Who decides the amount of dividend payment?
4. Do you consider the effect of macroeconomic variables before deciding dividend payment?
5. What are the importance of the following factors to your company's dividend decisions and their relationship to your company dividend policy?
 - A .Profit
 - B. Leverage
 - C. Liquidity
 - D .Retained earnings
 - E. Loan loss provision
 - F. Lagged dividend
 - G. Economic growth of the country
 - H. Inflation
6. Do you have another comments or suggestion?

Appendix

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	0.800139	Prob. F(2,72)	0.4532
Obs*R-squared	1.804653	Prob. Chi-Square(2)	0.4056

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 01/15/17 Time: 17:30

Sample: 4 96

Included observations: 83

Pre sample and interior missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.116771	0.186807	-0.625088	0.5339
LOG(ROE)	-0.004461	0.029439	-0.151528	0.8800
LOG(LEV)	0.061117	0.231937	0.263506	0.7929
LOG(LIQ)	0.000842	0.050681	0.016608	0.9868
LOG(RER)	-0.020038	0.058936	-0.340001	0.7348
LOG(LLP)	-0.003162	0.014310	-0.220951	0.8258
LOG(DVPO(-1))	-0.081375	0.104185	-0.781065	0.4373
LOG(ECOG)	-0.012646	0.038697	-0.326789	0.7448
LOG(INF)	-0.001345	0.027123	-0.049585	0.9606
RESID(-1)	0.217802	0.172459	1.262925	0.2107
RESID(-2)	0.032489	0.142534	0.227938	0.8203
R-squared	0.021743	Mean dependent var	-8.26E-17	
Adjusted R-squared	-0.114126	S.D. dependent var	0.150328	
S.E. of regression	0.158674	Akaike info criterion	-0.721043	
Sum squared resid	1.812777	Schwarz criterion	-0.400474	
Log likelihood	40.92330	Hannan-Quinn criter.	-0.592257	
F-statistic	0.160028	Durbin-Watson stat	1.902484	
Prob(F-statistic)	0.998304			

Heteroskedasticity Test: Harvey

F-statistic	1.770826	Prob. F(8,74)	0.0965
Obs*R-squared	13.33644	Prob. Chi-Square(8)	0.1008
Scaled explained SS	14.91975	Prob. Chi-Square(8)	0.0607

Test Equation:

Dependent Variable: LRESID2

Method: Least Squares

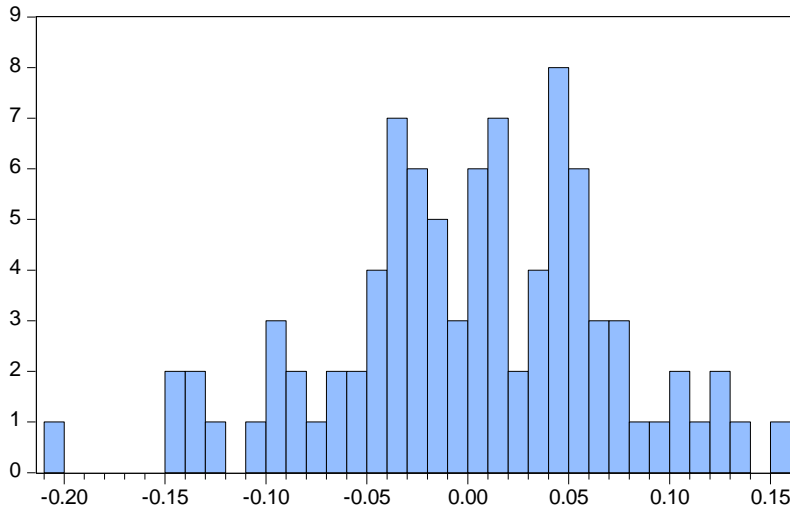
Date: 01/15/17 Time: 17:22

Sample: 4 96

Included observations: 83

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.428465	2.294209	-0.186759	0.8524
LOG(ROE)	0.251100	0.418749	0.599643	0.5506
LOG(LEV)	5.599233	3.237002	1.729759	0.0878
LOG(LIQ)	0.294014	0.727428	0.404182	0.6872
LOG(RER)	1.708472	0.812988	2.101473	0.0390
LOG(LLP)	0.169080	0.198962	0.849809	0.3982
LOG(DVPO(-1))	0.377295	1.162710	0.324496	0.7465
LOG(ECOG)	-0.246604	0.533230	-0.462473	0.6451
LOG(INF)	0.445297	0.387064	1.150447	0.2537
R-squared	0.160680	Mean dependent var	-5.332235	
Adjusted R-squared	0.069943	S.D. dependent var	2.363893	
S.E. of regression	2.279726	Akaike info criterion	4.588080	
Sum squared resid	384.5893	Schwarz criterion	4.850364	
Log likelihood	-181.4053	Hannan-Quinn criter.	4.693451	
F-statistic	1.770826	Durbin-Watson stat	2.055004	
Prob(F-statistic)	0.096542			

Normality test



Series: Standardized Residuals
 Sample 2001 2015
 Observations 90

Mean 8.10e-19
 Median 0.004150
 Maximum 0.156450
 Minimum -0.205925
 Std. Dev. 0.069498
 Skewness -0.329950
 Kurtosis 3.210750

Jarque-Bera 1.799562
 Probability 0.406659

Redundant Fixed Effects Tests

Equation: LAST

Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	0.233269	(5,76)	0.9468
Cross-section Chi-square	1.370705	5	0.9275

Cross-section fixed effects test equation:

Dependent Variable: DVPO

Method: Panel Least Squares

Date: 01/14/17 Time: 16:42

Sample (adjusted): 2001 2015

Periods included: 15

Cross-sections included: 6

Total panel (balanced) observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.248426	0.122218	2.032647	0.0454
ROE	0.152988	0.064110	2.386335	0.0193
LEV	0.412529	0.127127	3.245017	0.0017
LIQ	-0.058942	0.057160	-1.031167	0.3055
RER	-0.433437	0.067549	-6.416656	0.0000
LLP	-2.302784	0.843261	-2.730808	0.0078
LDVPO	0.465835	0.068304	6.820064	0.0000
ECOG	-0.537511	0.266851	-2.014274	0.0473
INF	-0.231990	0.076093	-3.048770	0.0031

R-squared	0.758220	Mean dependent var	0.563010
Adjusted R-squared	0.734341	S.D. dependent var	0.142419
S.E. of regression	0.073406	Akaike info criterion	-2.290984

Sum squared resid	0.436463	Schwarz criterion	-2.041003
Log likelihood	112.0943	Hannan-Quinn criter.	-2.190176
F-statistic	31.75193	Durbin-Watson stat	1.978711
Prob(F-statistic)	0.000000		

FixedEffect Regression Result

Dependent Variable: DVPO
Method: Panel Least Squares
Date: 01/14/17 Time: 16:40
Sample (adjusted): 2001 2015
Periods included: 15
Cross-sections included: 6
Total panel (balanced) observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.237562	0.140102	1.695630	0.0940
ROE	0.144844	0.071250	2.032907	0.0456
LEV	0.459424	0.152337	3.015835	0.0035
LIQ	-0.090143	0.069437	-1.298207	0.1981
RER	-0.460441	0.079108	-5.820374	0.0000
LLP	-2.125608	0.925935	-2.295635	0.0245
LDVPO	0.454770	0.081569	5.575304	0.0000
ECOG	-0.502782	0.276658	-1.817342	0.0731
INF	-0.234274	0.080573	-2.907610	0.0048

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.761875	Mean dependent var	0.563010
Adjusted R-squared	0.721143	S.D. dependent var	0.142419
S.E. of regression	0.075207	Akaike info criterion	-2.195102
Sum squared resid	0.429866	Schwarz criterion	-1.806243
Log likelihood	112.7796	Hannan-Quinn criter.	-2.038292
F-statistic	18.70457	Durbin-Watson stat	1.998608
Prob(F-statistic)	0.000000		