Tax Shield and Its Impact on Corporate Dividend Policy: Evidence from Pakistani Stock Market

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ABSTRACT

The problem: what is the taxation impact on dividend policy? While much optimal taxation research focuses on the economic effects of taxation, the purpose of this study is to add a new dimension by investigating the relationship between taxation and payout ratio and some other variables of dividend policy. These relations are tested using the data from financial statements of KSE listed companies. The results show that tax shield has no significant relation to the dividend payout ratio but mostly dividend policy is due to the size of the firm and its profitability.

Keywords: Dividend Policy; Tax Shield; Determinant’s of Dividends

1. Introduction

A snowy debate in finance and public economics literatures about the role of taxation in corporate dividend policies is there. Taxes and dividend policy are the one of the very important topics of corporate finance, as well as for the Pakistani stock market. A lot of arguments regarding taxes and dividend policy have attracted many educational researchers. Dividends, since the days of Miller and Modigliani, have been a topic of extensive research in academia and the debate between practitioners. Dividends provide “recompense” in a sense to investors who have taken a menace by investing in the stock of a certain company. Income that is earned by the company is distributed to shareholders, and repeatedly increases over time. They are normally paid on a regular basis, such as quarterly. Companies that have a record of paying dividends are usually traded at a first-class versus those that do not. Investors in the company are thus provided cash flow without having to sell shares; therefore, traditionally, companies paying relatively high dividends have been purchased by those on a fixed income. Manager’s base current dividend levels of past dividend levels and current earnings and imagine dividends are steady over time [1]. On the other side, some theories have conservative opinion that dividend policy is applicable due to the existence of differential taxes in the market [2] (Poterba and Summers, 1984; Ang et al., [3,4]). Others disagree that “Clientele Effects” matter in dividend policy decisions (Pettir, 1977; Scholz, 1992). It is because investors’ preferences divide them in groups that tend them to select a company where their investment goals and dividend policy are associated. Signaling models focus on allaying the information asymmetries. The former known as “Signaling” theory, assumes that the dividend is one of the sources through which a company can suggest information to the market (Bhattacharya, 1979; [5,6]). According to this theory, the dividend can moderate information asymmetries between managers and shareholders by conveying inside information of a firm’s future prospects. The latter, known as “Agency” theory, argues that the dividend reduces the costs of shareholder-manager conflict and it performs a controlling function where monitoring of a firm’s management by its Shareholders is inactive [7]; Easterbrook, in 1984, [8] argues that by paying dividends the flexible resources under managerial control can be decreased and in this way the over investment difficulty can be determined. Actual company earnings are another key determinant of dividend payouts. There is a statistically significant relationship between dividends and earnings [9,10] (Hsu, Wang, & Wu, 1998; Lintner, 1956). Bhattacharya (1979), Miller and Rock (1985) [11] show that adjustments in dividend payments are connected to changes in earnings. A relationship between dividends and earnings is also reported in other studies.
Analyzing time series and cross-sectional data, Fama shows that dividends and earnings are extremely correlated. However, a survey with 384 financial executives conducted by Brava, et al. (2005) shows that the connection between earnings and dividends has weakened the market debt to capital ratio which is another possible explanation of the variability in dividend payments. Several papers have found a negative relationship between leverage and dividend payout ratios. This negative relationship is plausible due to the extent that debts and dividends are substitutes employed by managers to mitigate agency conflicts or asymmetric information problems, and this implies that an increased market debt to capital ratio reduces dividend payout rates and vice versa. The objective of this study is to assess the effect of tax shield on the dividend policies in the KSE listed companies of Pakistan. This study will also evaluate the role of taxes to establish the dividend policies of the corporate sectors. This study has the capacity to be helpful to policy makers to better recognize how taxes impact dividend policies and they will be in a better position to develop dividend policies by keeping in view of the influence of taxes. Before conducting this study, our expectation was that tax saving would directly go to the shareholders of the company.

2. Literature Review

[14] suggested in their study that before- and after-tax returns to capital cannot be precisely estranged from the tax system. They emphasized that in the best dividend payout behavior, one cannot be separated away from equilibrium concern and the analysis of the effect of taxation on business valuation. [15] proposed that due to the impediment in personal tax advantage of dividend, the shareholder greatly prefers to invest in real assets to use internal financing as compared to external. The profitability of internally financed security investment is dependent on the tax status of security and also the tax bracket of shareholder. In contrast, externally-financed security purchases are making loss from a tax stand point.

[16] evaluated the tax effect on dividend policy of Nigerian banks and proposed in their study that various factors influenced the dividend pattern of companies. Due to the accessibility of the profit, the dividend policy of the banks is to frequently sustain a low but constant payout. The most important factor of the dividend structure is the liquidity position of the company. Dividend clients are a very alarming aspect in the concern of a dividend policy. [17] identified the signaling equilibrium with taxable dividends in their theory. They described in their theory that the employees of the organization, with more essential and confidential information, best allocate larger dividends and obtain higher prices for their stock whenever firms have a demand of cash; thus, its existing stockholders exceed its internal supply of cash. Green et. al. (1993) questioned the irrelevance argument and investigated the relationship between the dividends and investment and financing decisions. Their study showed that dividend payout levels are not totally decided after a firm’s investment and financing decisions have been made. Dividend decision is taken along with investment and financing decisions. The results however do not support the views of Miller and Modigliani (1961) [18]. Partington (1983) revealed that firms’ use target payout ratios, firms’ motives for paying dividends and extent to which dividends are determined are independent of investment policy. [19] indicates a direct link between growth and financing needs: rapidly growing firms have external financing needs because working capital needs normally exceed the incremental cash flows from new sales. Higgins (1972) shows that payout ratios are negatively related to firms’ need top fund finance growth opportunities. Rozeff (1982), Lloyd et al. (1985) and Collins et al. (1996) all show significantly negative relationship between historical sales growth and dividend payout. D, Souza (1999) however shows a positive but insignificant relationship in the case of growth and negative but insignificant relationship in case of market to book value. In the seminal work on dividends and company’s maturity, Grullon et al. (2002) analyzed listed companies of New York (NYSE) and American (AMEX) stock exchanges between 1967 and 1993. They argued that company that increases dividends experience a significant decline in their systematic risk and such companies do not increase their capital expenditure and experience a decline in profitability in the years after the change in dividends. They proposed an alternative explanation of Jensens’s (1986) free cash flow hypothesis known as “Maturity Hypothesis”. According to them in growing stage a company has many positive NPV projects and it earns large economic profits with high level of capital expenditure. Such companies are left with low free cash flows and experience rapid growth in their earnings. But as a company continues to grow due to market competition, its share price is cannibalized which reduces its profits. In this transition phase, the company’s investment opportunities begins to shrink and pace of its growth becomes slow, hence company starts generating larger amount of free cash flows. Ultimately it enters into maturity phase in which the return on investment is close to the cost of capital and its cash free cash flows are high. These mature companies are now able to pay higher dividends. Ahmed and Javid [20] proposed in their study that whenever the non-financial companies of Pakistan quoted on Karachi Stock Exchange set their dividend payments, these firms consider the existing earning per share and past dividend patterns. But, the tendency of dividend should be more responsive to current earnings than previous dividends. The listed non-financial companies having high momen-
tum of modification and low target payout ratio, show instability in smoothing their dividend payments. It is evident from existing literature that very few researchers have analyzed the relationship of tax shield and dividend policy. Although, many researchers have used taxation and dividend policy, but to the best of authors’ knowledge, none of the researchers have analyzed the nature of the relationship between tax shield and dividend policy in Pakistan. The main objective of present study is to analyze, using a non-linear model specification, whether mature companies pay more dividends or not?

3. Objective & Expectation

The objective of this study was to find out the relationship between the tax shield and dividend payout ratio and expectation was that tax shield would impact the positively on dividend payout policy.

4. Data Collection & Methodology

For present study a sample penal data of 33 companies listed at Karachi Stock Exchange (KSE) has been collected for the period of six years i.e. from 2005-2010. Companies were listed at KSE during years 2005 to 2010. Should not be a State Owned Enterprise. Panel regression is among the widely used technique to investigate the impact of firm specific characteristics on dividend. We have used the same estimation technique to analyze the impact of ownership structures and cash flow characters on dividend behavior of companies listed in KSE Pakistan.

Payout ratio is used as a proxy of dividend policy, which was calculated by dividend per share with EPS. Debt to equity ratio is used as a proxy of leverage. Moreover, tax shield was calculated by multiplying the tax rate with interest amount. Return on asset is used as a proxy of profitability. Size was calculated by taking the log of total assets.

5. Results and Discussion

Table 1 shows the mean, standard deviation, skewness etc. For measuring the deviation of the variables from each other’s as its objective is to investigate the relationship between tax shield and dividend policy. Table 2 shows that p-value of F-statistic are less than 0.05. Moreover, F-statistic value is non-zero. Both these values prove the model fitness. R square value shows that 7.23% variation in dependent variable is explained by independent variables. In addition to this, results shows that there is insignificant value between leverage and dividend policy as its p-value is greater than 0.05.

Results also showed that there is significant positive relationship between profitability and dividend policy. Its beta co-efficient value is 0.000908 and there is insignificant relation between the leverage and dividend policy as its co-efficient is −0.000450 and also insignificant relationship between the size of the firm and dividend policy as its co-efficient is 0.007738.

Table 1. Descriptive statistics.

<table>
<thead>
<tr>
<th></th>
<th>PAY</th>
<th>LEV</th>
<th>PROF</th>
<th>SIZE</th>
<th>TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>0.027734</td>
<td>1.014639</td>
<td>10.14954</td>
<td>14.38144</td>
<td>8.879438</td>
</tr>
<tr>
<td>Median</td>
<td>0.015676</td>
<td>1.075000</td>
<td>10.07500</td>
<td>15.00000</td>
<td>8.797155</td>
</tr>
<tr>
<td>Maximum</td>
<td>0.593824</td>
<td>9.710000</td>
<td>53.51000</td>
<td>17.00000</td>
<td>12.75032</td>
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<tr>
<td>Minimum</td>
<td>−0.714286</td>
<td>−14.75000</td>
<td>−46.73000</td>
<td>11.00000</td>
<td>2.734368</td>
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<tr>
<td>Std. Dev.</td>
<td>0.084186</td>
<td>2.447218</td>
<td>16.72553</td>
<td>1.529965</td>
<td>1.981065</td>
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<tr>
<td>Skewness</td>
<td>−0.992175</td>
<td>−2.178721</td>
<td>−0.260952</td>
<td>−0.196899</td>
<td>−0.270824</td>
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<tr>
<td>Kurtosis</td>
<td>46.19498</td>
<td>15.63794</td>
<td>3.648231</td>
<td>2.224797</td>
<td>2.680634</td>
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<tr>
<td>Jarque-Beta</td>
<td>15113.76</td>
<td>1444.531</td>
<td>5.598424</td>
<td>6.111124</td>
<td>3.195959</td>
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<tr>
<td>Probability</td>
<td>0.000000</td>
<td>0.000000</td>
<td>0.060858</td>
<td>0.047096</td>
<td>0.202305</td>
</tr>
<tr>
<td>Sum</td>
<td>5.380321</td>
<td>196.8400</td>
<td>1969.010</td>
<td>2790.000</td>
<td>1722.611</td>
</tr>
<tr>
<td>Sum Sq. Dev.</td>
<td>1.367854</td>
<td>1155.853</td>
<td>53990.45</td>
<td>451.7732</td>
<td>757.4514</td>
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<tr>
<td>Observations</td>
<td>194</td>
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</table>
Table 2. Regression analysis.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Coefficient</th>
<th>Std. error</th>
<th>t-statistic</th>
<th>Prob.</th>
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<tr>
<td>Intercept</td>
<td>-0.045003</td>
<td>0.059240</td>
<td>-0.759678</td>
<td>0.4484</td>
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<tr>
<td>LEV</td>
<td>-0.000450</td>
<td>0.002435</td>
<td>-0.184959</td>
<td>0.8535</td>
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<tr>
<td>TS</td>
<td>-0.005327</td>
<td>0.004029</td>
<td>-1.322216</td>
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<tr>
<td>PROF</td>
<td>0.000908</td>
<td>0.000418</td>
<td>2.168689</td>
<td>0.0314</td>
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<tr>
<td>SIZE</td>
<td>0.007738</td>
<td>0.005387</td>
<td>1.436339</td>
<td>0.1526</td>
</tr>
</tbody>
</table>

R-squared: 0.072338
Mean dependent var: 0.027734
Adjusted R-squared: 0.052705
S.D. dependent var: 0.084186
S.E. of regression: 0.081938
Akaike info criterion: -2.140280
Schwarz criterion: -2.056057
Log likelihood: 212.6071
Hannan-Quinn criterion: -2.106175
F-statistic: 3.684498
Darbin-Watson stat: 1.712100
Prob (F-statistic): 0.006493

6. Conclusion

The conclusion is that the firm size and profitability are positively related to the dividend payout policy. Whereas, our study showed the insignificant relationship between the tax shield and leverage on the dividend payout policy. Positive results mean that, if the company size and profitability increase, the company will pay more dividends whereas the tax shield and leverage will not affect the dividend policy. Our study supports some studies and also does not support some research findings. We support Talat Afza and Hamad Hassan Mirza’s findings in 2010 and do not support the Kanwal Anil Study in 2008.

7. Limitations

This study is limited to the KSE and may not apply to the other countries and this sample shows these results other study may find the different results more sample size may show the difference result.

REFERENCES


