

THE IMPACT OF DIVIDEND POLICY ON SHAREHOLDERS' WEALTH EVIDENCE FROM INDUSTRY AND TECHNOLOGY SECTOR IN INDIA

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ABSTRACT

Now it can be said that DP can be regarded as one of the significant options of financial management. The dividends to be provided as the gain how much ever and how much could be retained by the company is a matter of choice. The DP decides to what extent benefit paid to the shareholders in terms of benefits:and up to what extent the benefit wrinkled back in the firm itself for reinvestment purposes. Advancement of such a DP would greatly be influenced by the theory opportunities opened to the firm, and regard of the benefits against the capital choice up to the shareholders. Every business should formulate such a DP that distributes the net profit to dividends, and the retained profit is an excellent way to achieve the objective of maximization of shareholders' wealth (SW). Next, the paper aims to investigate the impact of DP on SW of Industry and Development Division in India. Among 13 firms in Industrial and 17 firms in Development division listed on Bombay Stock Exchange (BSE), 6 companies each that have been paying dividends uninterruptedly for the last ten years have been chosen for analysis. Besides being realistic pieces of knowledge, Extended Dickey More full Test (ADF), Levin, Lin & Chu (LLC) t-test, Philip Perron (PP) Fisher test, Im-Pesaran-Shin W (IPS-W) and Breitung test are used to check whether or not the data is stationary and to meet one pre-condition for co-integration, Johansen Co-integration test is used. Backslide and test are also associated to isolate the influence between pre and post money related mellow down periods. The comes around of the co-integration test reveals that the closeness of a long run relationship between DP and SW in Industry portion and there is no co-integration between DP and SW in Technology Division in India. Backward result shows that DP has a very strong effect over SW and the Chow test result represents the fact that the effect of DP which has been highly affected by variables DPS and DY has been disturbed due to financial break down down for Industry Division in India and the effect of DP over SW is undisturbed due to budgetary crisis for Advancement division in India.

Keywords-Dividend Policy (DP),Shareholders' Wealth (SW),Financial Management

I. INTRODUCTION

In the rapidly growing Indian economy, globalization, liberalization, and privatization, along with mechanical movements, have

enhanced competition over all businesses. Consequently, Indian firms are responding to challenges in maintaining advancement,

maintaining competitiveness, and overhauling regard creation. Under such circumstances, budgetary officials play a remarkable role in making basic commerce and money-related decisions that ensure long run sustainability and achieve the full value of the SW. The central budgetary objective of any commerce venture is the maximization of SW which assume that corporate administrators act in the best interface of shareholders. This objective is achieved when theorists receive the highest possible returns, which include capital gains—reflected in increasing share prices—and benefits, determined from the firm's distributable profits. The regard of cash related organization relies on the wander, financing, and benefit choices of a firm, making cash related organization an fundamental instrument for regard creation. An advanced approach to financial organization provides conceptual and illustrative framework for decisions making to assure complete resource utilizations for overhaul of SW. Of the important budgetary decisions, DP becomes a crucial constituent for deciding stock taken a toll of a firm, and then SW. In conclusion, good DP will have that effect to illustrate its balance, its benefits. That is held so there; in order; the capital kept so there can further grow again. And because DP is appearing very obviously in a corporate back the study will find an opportunity look long-term association of DP and SW, along with an added concentration on sometimes long ago late as well and even after any big financial blow around the World budgetary crises. The report looks at the firms in the Industry and Advancement Divisions of the BSE. In this report, the firms with a continuous

record of profit distribution over the past ten years will be considered. The relationship between DP and SW is thought on by applying some econometric models, such as the Increased Dickey-Fuller (ADF) test, Levin, Lin & Chu (LLC) t-test, Philip Perron (PP) Fisher test, Im-Pesaran-Shin W (IPS-W) test, and Breitung test to check the data stationarity. Besides, the Johansen Co-integration test has been utilized to test for the existence of the long-run relationship; however, the presence of regression for backslid examination together with the Chow test is seen regarding time degrees of DP with SW before and after the financial crisis. This paper sheds light on how profit strategy impacts shareholder respect and corporate resilience in changing monetary situations.

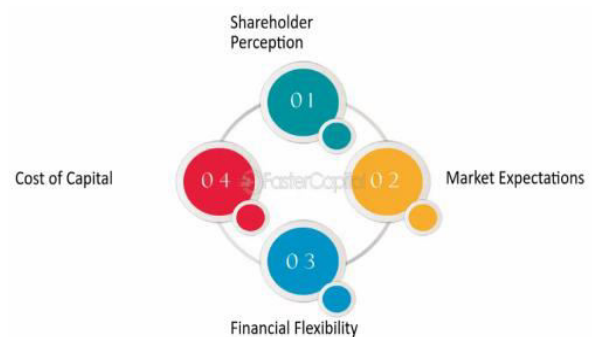


Fig 1: Dividend policy impact

II. RELATED WORK

Test of Testable Theories on a Few Parameters When the Number of Observations is Large

Author(s): Wald, A.

Provided testable theory testing for large datasets, formed a foundation for budgetary



research, including profit approach studies in DP.

2. Tests of Equality Between Sets of Coefficients in Two Direct Regressions

Author(s): Chow, G. C.

Designed the Chow test, widely utilized in fiscal analyses to test the significance of regression coefficients, as necessary for studying the impact of monetary shocks on DP.

3. Unit Root Tests in Time Series Regression

Authors: Phillips, P.C.B., & Perron, P.

Established the PP test, a unit root test showing that data are stationary, necessary to test the conditions for co-integration analyses in DP and SW researches.

4. Maximum Probability Estimation and Inferences on Co-integration with Applications to the Demand for Money

Author(s): Johansen, S., & Juselius, K.

He formulated the Johansen Co-integration test, which is applied in testing the long-run relationship between DP and SW in budgetary markets.

5. The Local Control of Some Unit Root Tests for Board Data

Author(s): Breitung, J.

Took giant leaps board information unit root tests, making monetary thinks about more dependable when analyzing profit approaches over firms.

6. Unit Root Tests in Board Information: Asymptotic and Limited Test Properties

Author(s): Levin, A., Lin, C. F., & Chu, C. S. (2002)

Introduced the LLC unit root test, enhancing

the precision of stationarity tests for board information in DP research.

7. Computation and Examination of Various Auxiliary Alter Model

Author(s): Bai, J., & Perron, P.

Assuming a test for detecting common breaks in monetary data, conduct contrast analysis of the role of shocks on profit policies.

8. Testing for Unit Root in Heterogenous Panels

Author(s): Im, K. S., Pesaran, M. H., & Shin, Y.

Developed the IPS test, allowing for better stationarity testing in panel data analyses on DP and SW.

9. Are Profits Disappearing? Profit Concentration and Coalescence of Earnings

Authors: DeAngelo, L., & Skinner, D. J.

Found that fewer companies are paying profits, leading to concentration in dividend-paying companies.

III. PROPOSED SYSTEM

The proposed system focuses on the influence of the Benefit Course of action (DP) on Shareholders' Wealth (SW) interior the Industry and Change Divisions of companies recorded on the Bombay Stock Exchange (BSE). The consider will take data from six firms in every division that have reliably paid benefits for the last ten years, which will be focused on budgetary parameters to incorporate Benefit per Share (DPS), Benefit Resign (DY), and share costs. Econometric tests that include ADF Test check for the stationarity of extended Dickey and Fuller, also include LLC t-test, the Philip Perron



Fisher Test. Then, two other tests which are called Im-Pesaran-Shin WIPS-W Test along with the Breitung Test, can be used by simply choosing the appropriate long-run relationship between DP and SW by conducting a Johansen Co-integration test. The backslide test will then look into the order of the effect of DP over SW and the Chow Test will investigate this relationship and the fiscal crises inducing influence. A comparative analysis will be conducted to analyze the pre- and post-financial crisis periods and to determine differences in DP impact between the Industry and Progression Divisions. Finally, the think around will collect authoritative pieces of information and provide key proposition for corporate decision-makers to optimize benefit spread and held benefit for maximizing SW.

IV.IMPLEMENTATION

The use of this consider follows an organized, data-driven approach using quantitative cash related examination and econometric modeling. The handle begins with data collection and preprocessing, where financial data for six firms each from the Industry and Headway Divisions recorded on the Bombay Stock Exchange (BSE) with unfaltering benefit installments over the last ten a long time will be amassed. Key money related gauges like Benefit per Share (DPS), Benefit Abandon (DY), Share Costs, and other execution pointers will be evacuated from company financial reports and stock grandstand databases, taken after by data cleaning and organization. Another, econometric testing and real examination is to be conducted, stationarity tests with the help of Expanded Dickey-Fuller (ADF), Levin, Lin & Chu

(LLC) t-test, Philip Perron (PP) Fisher test, Im-Pesaran-Shin W (IPS-W) test, and Breitung test to ensure the strength of time-series data. The Johansen Co-integration Test will be used to determine if there is a long-run relationship between the Benefit Course of action (DP) and Shareholders' Wealth (SW). However, the backslide analysis will determine whether DP has an easing effect on SW, and the Chow Test will analyze how financial crises influence this relationship. A comparative analysis will then be made to analyze the pre-crisis and post-crisis time frames as well as sector-specific mixes in DP's impact between the Industry and Change Divisions. The comes close almost will then be interpreted carefully, proven valid through quality checks and sensitivity analysis, and applied for inducing experiences on ideal benefit courses of action. At last, key recommendations will be presented to corporate cash management officers about how to alter the payout of benefits and held benefit to maximize long-term shareholder wealth.

V.ALGORITHM

1. Information Preprocessing & Highlight Selection

Any raw monetary information has to be cleaned and prepared for application of any fact-based test. This includes restoring lost values, standardizing the monetary factors and picking out significant highlights relevant to profit structure and shareholders' wealth

Normalization using Min-Max Scaling:

$$X' = \frac{X - X_{\min}}{X_{\max} - X_{\min}}$$

Where:

- X' is the normalized value
- X is the original value
- $X_{\min}, X_{\max}$ are the minimum and maximum values in the dataset

2. Stationarity Tests

Time arrangement information ought to be stationary (i.e., stable unidirectional and variation over time). Non-stationary information can result in spurious relapse results. Some tests are associated with validate stationarity.

$$\Delta Y_t = \alpha + \beta t + \gamma Y_{t-1} + \sum_{i=1}^p \delta_i \Delta Y_{t-i} + \varepsilon_t$$

Where:

- Y_t is the variable being tested
- ΔY_t represents the first difference of Y_t
- γ is the coefficient of interest
- If $\gamma < 0$ and statistically significant, the series is stationary

3. Long-Run Relationship Investigation (Co-integration Test)

If two or more time-series factors move together over time, they are said to be co-integrated. Johansen's Co-integration Test

makes a difference check the presence of this long-term relationship.

$$\Delta Y_t = \Pi Y_{t-1} + \sum_{i=1}^{k-1} \Gamma_i \Delta Y_{t-i} + \varepsilon_t$$

Where:

- Π represents the long-run relationship matrix
- If Π is rank deficient, no co-integration exists

4. Relapse Investigation for Affect Measurement

Multiple Straight Relapse (MLR) is used to analyze the effect of Profit per Share (DPS), Profit Abdicate (DY), and Profit per Share (EPS) on Shareholders' Riches (SW).

$$SW = \beta_0 + \beta_1(DPS) + \beta_2(DY) + \beta_3(EPS) + \varepsilon$$

Where:

- SW = Shareholders' Wealth
- DPS = Dividend per Share
- DY = Dividend Yield
- EPS = Earnings per Share
- $\beta_0, \beta_1, \beta_2, \beta_3$ = Regression coefficients
- ε = Error term

5. Money related Emergency Affect Analysis

Chow Test is used to determine a general break in the relationship between DP and SW prior to and post a money related crisis.

$$F = \frac{(RSS_1 + RSS_2 - RSS_c)/k}{RSS_c/(N - 2k)}$$

Where:

- RSS_1, RSS_2 = Residual sum of squares for pre- and post-crisis periods
- RSS_c = Residual sum of squares for the combined period
- k = Number of parameters
- N = Total observations

6.Comparative Analysis (Industry vs. Development Division)

A paired sample t-test is used to compare the effect of dividend policy on shareholders' wealth between the two sectors.

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$$

Where:

- $\bar{X}_1, \bar{X}_2$ = Mean values of SW for Industry and Development divisions
- s_1^2, s_2^2 = Variances of both samples
- n_1, n_2 = Sample sizes

RESULT

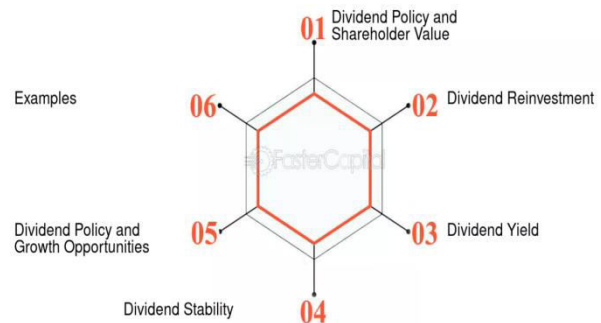


Fig 2:Dividend policy and firm performance

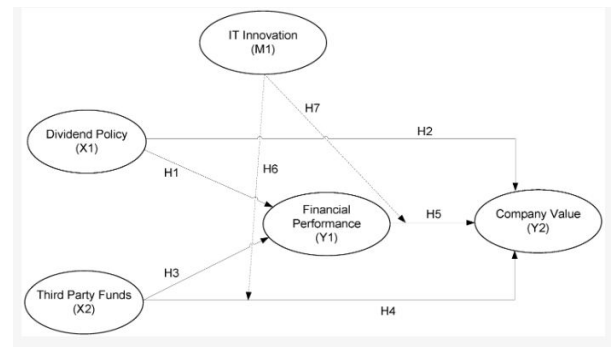


Fig 3:Financial performance model



Fig 4: Dividend policy and investor preferences



CONCLUSION

This research about Profit Arrangement (DP) and its influence on Shareholders' Riches (SW) in the Industry and Advancement Divisions that are recorded on the Bombay Stock Trade (BSE) unravels some quick findings to guide corporate monetary decision-making. The paper used sophisticated econometric tests, such as the ADF, LLC, PP Fisher, IPS-W, and Breitung tests, to analyze the stationarity of the data in firms that paid out a sound profit over the last ten years. The Johansen Co-integration Test found a long-run relationship between DP and SW in the Industry Division, but there was no such relationship found in the Improvement Division. The comes from the relapse investigation show a significant impact of DP on SW in the Industry Division, with variables like Profit per Share (DPS) and Profit Surrender (DY) playing noteworthy parts. However, the budgetary downturns, especially amid the worldwide monetary emergency, aggravated the anticipated impact of DP on SW in the Industry Division. In differentiate, the Advancement Division seemed more robust with no critical disturbances found in the relationship between DP and SW even in the post-crisis period. Furthermore, the Chow test showed that financial crises affected the effect of DP on SW in the Industry Division but less so in the Advancement Division. This implies that firms in the Improvement Division may have more stable monetary policies and much better chance management practices, which insulated them from more general market shocks. It should therefore be indicated that profits must go hand-in-hand with held

profit within a designed arrangement for allowing optimal shareholder richnesses. Within the Industry Division, profits, held profit should emerge as parts to create riches since the world economy is increasingly undergoing financial shock, and consistency must be enhanced since firms of Advancement Division consistently pay off some form of payout policy with resultant stability for maximum shareholder riches creation. The recommendations from the study will help corporate monetary managers make decisions nearly profit dispersion and maintenance for long-term shareholder esteem maximization, both in times of stability and turbulence.

REFERENCES

- [1]Wald, A. 1943. Tests of statistical hypotheses concerning several parameters when the number of observations is large. Transactions of the American Mathematical Society 54: 426-82
- [2]Chow, G. C. 1960. Tests of equality between sets of coefficients in two linear regressions. *Econometrica* 28 (3): 591-605.
- [3]Phillips, P.C.B., and P. Perron. 1988. Testing for unit roots in time series regression. *Biometrika* 75: 335-46.
- [4]Johansen, S., and K. Juselius. 1990. Maximum likelihood estimation and inferences on co - integration with applications to the demand for money. *Oxford Bulletin of Economics and Statistics* 52(2):169-210.
- [5]Breitung, J. 2000. The local power of some unit root tests for panel data. *Advances in Econometrics* 15: 161-78



- [6]Levin, A., C. F. Lin and C. S. Chu. 2002. Unit root tests in panel data: Asymptotic and finite sample properties. *Journal of Econometrics* 108: 01-24.
- [7]Bai, J., and P. Perron. 2003. Computation and analysis of multiple structural change models. *Journal of Applied Econometrics* 18: 01-22
- [8]Im, K. S., M. H. Pesaran and Y. Shin. 2003. Testing for unit root in heterogenous panels. *Journal of Econometrics* 115: 53-74.
- [9]DeAngelo, L., and D. J. Skinner. 2004. Are dividends disappearing? Dividend concentration and consolidation of earnings. *Journal of Financial Economics* 72(3):425-56
- [10]Baker, H. K., S. Saadi, S. Dutta and D. Gandhi. 2007. The perception of dividends by Canadian managers: New survey evidence. *International Journal of Managerial Finance* 3(1): 70-91.
- [11]Azhagaiah, R., and P. Veeramuthu. 2010. The impact of firm size on dividend behavior: A study with reference to corporate firms across industries in India. *Managing Global Transitions: International Research Journal* 8(1): 49-78
- [12]Okpara, G. C. 2010. Asymmetric information and dividend policy in emerging markets: Empirical evidence from Nigeria. *International Journal of Economics and Finance* 2(4): 212 -7.
- [13]Vijayakumar, A. 2011. Economic value added and shareholders' wealth creation: A factor analytic approach. *Research Journal of Finance and Accounting* 2(12): 22-37.
- [14]Iqbal, K. 2012. Effect of dividend on stock prices: A case of chemical and pharmaceutical industries of Pakistan. *Scientific and Academic Publishing* 2(5): 141-8.
- [15]Rafique, M. 2012. Factors affecting dividend payout: Evidence from listed non financial firms of Karachi stock exchange. *Business Management Dynamics* 1(11): 76 - 92.
- [16]Arif, A., and F. Akbar. 2013. Determinants of dividend policy: A sectoral analysis from India. *International Journal of Business and Behavioural Science* 3(9): 16-28.
- [17]Tahir, A., and N. Raja. 2014. The impact of dividend policy on shareholders' wealth. *International Journal of Business and Management* 16(1): 24-33.
- [18]Toby, A. J. 2014. Empirical test of the dividend policy irrelevance hypothesis in the Nigerian context. *Research Journal of Finance and Accounting* 5(6): 167-74