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# IMPACT OF FINANCIAL LEVERAGE ON FINANCIAL PERFORMANCE OF SELECTED CEMENT COMPANIES OF INDIA

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## ABSTRACT

Financial Management basically deals with raising of financial resources and its proper allocation in order to maximize shareholders wealth. For a successful running of an organization fixed and current assets play a crucial role as organization generally invests in these options. A firm's working capital consists of its investments in short-term assets like cash and bank balance, inventories, receivable and short term investments. Therefore, the working capital management mainly refers to the management of all these individual current assets. In this research paper an attempt has been made to study the components of financial leverage and the possible implications of financial leverage on financial performance of selected cement companies of India. The paper also attempts to analyse the correlation between liquidity, profitability and return on investments of selected cement companies. The study is based on secondary data collected from annual reports of selected 5 cement companies for the period 2007-08 to 2016-17. In this paper there is an application of regression analysis to identify the significant impact of financial leverage on the financial performance. Financial leverage is essential as it might have a direct impact on profitability and liquidity.

Keywords: Financial Leverage, Liquidity, Cement Companies, Financial Performance.

## Introduction

Financial leverage is a measure of how much firms use equity and debt to finance its assets. A company can finance its investments by debt and equity. The company may also use preference capital. The rate of interest on debt is fixed irrespective of the company's rate of return on assets. The financial leverage employed by a company is intended to earn more on the fixed charges funds than their costs. As debt increases, financial leverage increases. It has been seen in different studies that financial leverage has effect on corporate performance of quoted pharmaceutical companies in Nigeria. The primary motive of a company in using financial leverage is to magnify the shareholders' return under favourable economic conditions. The role of financial leverage in magnifying the return of the shareholders' is based on the assumptions that the fixed-charges funds (such as the loan from financial institutions and other sources or debentures) can be obtained at a cost lower than the firm's rate of return on net assets (RONA or ROI). Damouri, et al (2013) states that leverage ratios contribute in measuring the risk of using equity costs. They adds that there are various measures known for the capital structure among which the most important are book value based measures, market value based measures and semi- market value based measures (adjusted market value). Financial leverage affects profit after tax or earnings per share. The combined effect of two leverages can be quite significant for the earnings available to ordinary shareholders (Pandey, 2010).

## **Objectives of the Study**

- To study relationship between financial leverage and Financial Performance
- To study the impact of financial leverage on financial performance of selected cement companies

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#### **Literature Review**

Akhtar, et al (2012) examines the relationship between financial leverage and financial performance, evidence from fuel and energy sector of Pakistan. The result shows that there is a general perception that a relationship exists between the financial leverage and the performance of the companies' i.e most of the financial performance indicators have positive relationship with debt to equity ratio while the gearing ratio indicates negative relationships with the leverage indicators. The result adds that gearing ratio may differ from that of debt to equity ratio while debt equity ratio takes into account the long term debt.

**Rehman (2013)** studies the relationship between financial leverage and financial performance in listed sugar companies of Pakistan. The results shows positive relationship of debt equity ratio with return on asset and sales growth, and negative relationship of debt equity ratio with earning per share, net profit margin and return on equity. This negative relationship between debt equity ratio and earnings per share (EPS) support the fact that as debt increases, the interest payment will also rises, so EPS will decrease.

**Akinmulegun (2012)** examines the effect of financial leverage on selected indicators of corporate performance in Nigeria. This shows that financial leverage significantly affects corporate performance in Nigeria.

**Rajin (2012)** investigates the influence of financial leverage on shareholders return and market capitalization, evidence of telecommunication sector companies in India. He find out that the nature of relationship and the state of influence of the financial leverage on shareholder's return and market capitalization individually indicates positive relationship between financial leverage and shareholder return but negative relationship between financial leverage and market capitalization.

Ujah and Brusa (2013) suggested that financial leverage and cash flow impact the degrees to which firms manage their earnings.

**Obradovich and Gill (2013)** indicates that larger board size negatively impacts the value of American firms and CEO duality, audit committee, financial leverage, firm size, return on assets and insider holdings positively impact the value of American firms.

**Nasrollah et al (2013)** studies effect of financial leverage and investment diversification on income- increasing earning management. The results show that financial leverage coefficient is meaningful at level of 95% of confidence, consequently, it can be concluded that financial leverage has an influence on income-increasing earnings management.

**Nazir and Saita (2013)** studies financial leverage and agency cost, an empirical evidence of Pakistan. The study found out that general and admin expense ratio to sales ratio is negatively related to all four leverage ratios.

**Taani (2012)** investigates impact of working capital management policy and financial leverage on financial performance. The study shows that firm's working capital management policy, financial leverage and firm size have significant relation to net income and also no significant impact on return on equity (ROE) and return on Assets (ROA).

**Akbarian (2013)** examines the investigation effect of financial leverage and environment risk on performance firms of listed companies in Tehran stock exchange. The result shows that there is a negative relation between financial leverage and cash flow per share. It also indicates that financial leverage, market risk and economic risk with return of equity have positive significant relationship.

# **Research Methodology**

#### Sample Size

For this study, researcher has selected 5 cement companies to study the relation between financial leverage and financial performance

#### Sources of Data

Secondary sources of data has been used for this study. Annual reports of cement companies has been analysed.

# **Research Period**

Last 10 years' (2007-08 to 2016-17) annual reports of cement companies has been collected

## **Data Analysis Techniques**

Regression techniques has been used

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## **Data Analysis**

Ratio	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Operating Profit Margin(%)	17.99	17.41	15.80	15.42	21.30	19.24	22.22	27.65	27.02	30.09
Profit Before Interest And Tax Margin(%)	12.06	11.45	10.54	9.31	15.16	13.22	16.33	22.39	22.01	25.25
Gross Profit Margin(%)	12.25	11.68	10.79	9.52	15.43	13.43	16.57	22.72	22.37	26.38
Net Profit Margin(%)	7.93	7.45	8.06	7.41	9.24	9.92	11.82	14.77	16.03	19.56
Current Ratio	0.68	0.79	0.76	0.76	0.70	0.78	0.76	0.70	0.82	0.78
Quick Ratio	0.51	0.66	0.59	0.59	0.54	0.58	0.57	0.51	0.61	0.59
Interest Cover	9.23	8.30	10.49	11.85	13.38	13.37	14.52	26.85	24.94	19.68
Financial Charges Coverage Ratio	14.14	12.59	14.20	16.74	17.17	17.54	18.31	31.22	28.87	21.73
Long Term Debt Equity Ratio	0.55	0.69	0.91	0.86	0.71	0.58	0.56	0.58	0.55	0.45
Debt Equity Ratio	0.84	1.02	1.24	1.29	0.78	0.76	0.74	0.75	0.73	0.58
Inventory Turnover Ratio	9.56	9.69	8.96	8.54	10.81	13.83	15.16	17.93	20.90	17.73
Asset Turnover Ratio	1.07	1.04	1.07	1.12	1.10	0.95	0.96	1.06	1.04	1.06

# **Regression Analysis**

# Debt Equity Ratio vs Operating Profit Margin (%)

Summary Output				
Regression Statistics				
Multiple R	0.8128			
R Square	0.66065			
Adjusted R Square	0.61823			
Standard Error	3.23028			
Observations	10			

ANOVA

	df	SS	MS	ŀ	=	Sign	ificance F
Regression	1	162.515	162.515 15.5		15.5745		00426
Residual	8	83.4774	10.4347	7			
Total	9	245.992					
	Coefficients	Standard Error	t Stat	P-value	Low	or 05%	Upper 95%
	COEfficients			r-value	LOW		
Intercept	37.2223	4.13384	9.00428	1.8E-05	27.6	896	46.7549
X Variable 1	-18.116	4.59047	-3.9465	0.00426	-28.7	/02	-7.5304

## Interpretation

H<sub>0:</sub> There is no linear relationship between Debt equity ratio vs operating profit margin of selected cement companies

H<sub>1:</sub> There is linear relationship between Debt equity ratio vs operating profit margin of selected cement companies

Multiple R = 0.812, which indicates that there is linear relationship between Debt equity ratio vs operating profit margin of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.004 which is less than specified  $\alpha$  of 0.05. So null hypothesis is rejected and it concluded that there is linear relationship between Debt equity ratio vs operating profit margin of selected cement companies.

#### • Debt Equity Ratio vs Profit Before Interest and Tax Margin (%)

Summary Output						
Regression Statistics						
Multiple R	0.78894					
R Square	0.62243					
Adjusted R Square	0.57523					
Standard Error	3.64307					
Observations	10					

	Df	SS	MS	F	Significance F					
Regression	1	175.032	175.032	13.1881	0.00667					
Residual	8	106.175	13.2719							
Total	9	281.207								

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	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	32.1778	4.6621	6.902	0.00012	21.4269	42.9286
X Variable 1	-18.801	5.17707	-3.6315	0.00667	-30.739	-6.8624

#### Interpretation

H<sub>0:</sub> There is no linear relationship between Debt equity ratio vs profit before interest and tax margin of selected cement companies

H1: There is linear relationship between Debt equity ratio vs profit before interest and tax margin of selected cement companies

Multiple R = 0.788, which indicates that there is linear relationship between Debt equity ratio vs profit before interest and tax margin of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.006 which is less than specified  $\alpha$  of 0.05. So null hypothesis is rejected and it concluded that there is linear relationship between Debt equity ratio vs profit before interest and tax margin of selected cement companies

# • Debt Equity Ratio vs Gross Profit Margin (%)

Summary Output					
Regression Statistics					
Multiple R	0.78499				
R Square	0.6162				
Adjusted R Square	0.56823				
Standard Error	3.8091				
Observations	10				

#### ANOVA

	Df	SS	MS	F	Significance F
Regression	1	186.36	186.36	12.8443	0.00715
Residual	8	116.074	14.5092		
Total	9	302.434			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	33.0407	4.87457	6.77819	0.00014	21.8	44.2815
X Variable 1	-19.4	5.41302	-3.5839	0.00715	-31.882	-6.9172

## Interpretation

Ho: There is no linear relationship between Debt equity ratio vs gross profit margin of selected cement companies

H1: There is linear relationship between Debt equity ratio vs gross profit margin of selected cement companies

Multiple R = 0.784, which indicates that there is linear relationship between Debt equity ratio vs gross profit margin of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.007 which is less than specified  $\alpha$  of 0.05. So null hypothesis is rejected and it concluded that there is linear relationship between Debt equity ratio vs gross profit margin of selected cement companies

#### • Debt Equity Ratio vs Net Profit Margin (%)

Summary Output					
Regression Statistics					
Multiple R	0.7273				
R Square	0.52897				
Adjusted R Square	0.47009				
Standard Error	3.07774				
Observations	10				

# ANOVA

	df	SS	MS	F	Significance F
Regression	1	85.0998	85.0998	8.9839	0.01714
Residual	8	75.7798	9.47248		
Total	9	160.88			

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	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	22.6584	3.93864	5.75286	0.00043	13.5759	31.7409
X Variable 1	-13.109	4.3737	-2.9973	0.01714	-23.195	-3.0236

#### Interpretation

- H<sub>0</sub>: There is no linear relationship between Debt equity ratio vs net profit margin of selected cement companies
- H1: There is linear relationship between Debt equity ratio vs net profit margin of selected cement companies

Multiple R = 0.727, which indicates that there is linear relationship between Debt equity ratio vs net profit margin of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.017 which is less than specified  $\alpha$  of 0.05. So null hypothesis is rejected and it concluded that there is linear relationship between Debt equity ratio vs net profit margin of selected cement companies

# Debt Equity Ratio vs Current Ratio

Summary Output					
Regression Statistics					
Multiple R	0.01224				
R Square	0.00015				
Adjusted R Square	-0.1248				
Standard Error	0.04941				
Observations	10				

ANOVA

	df	SS	MS	F	Significance F
Regression	1	2.9E-06	2.9E-06	0.0012	0.97323
Residual	8	0.01953	0.00244		
Total	9	0.01953			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.74968	0.06323	11.8569	2.3E-06	0.60388	0.89548
X Variable 1	0.00243	0.07021	0.03463	0.97323	-0.1595	0.16434

#### Interpretation

- H<sub>0</sub>: There is no linear relationship between Debt equity ratio vs current ratio of selected cement companies
- H1: There is linear relationship between Debt equity ratio vs current ratio of selected cement companies

Multiple R = 0.012, which indicates that there is no linear relationship between Debt equity ratio vs current ratio of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.973 which is higher than specified  $\alpha$  of 0.05. So null hypothesis is accepted and it concluded that there is no linear relationship between Debt equity ratio vs current ratio of selected cement companies

# Debt Equity Ratio vs Quick Ratio

Summary Output					
Regression Statistics					
Multiple R	0.32419				
R Square	0.1051				
Adjusted R Square	-0.0068				
Standard Error	0.04608				
Observations	10				

	df	SS	MS	F	Significance F
Regression	1	0.002	0.002	0.93952	0.36079
Residual	8	0.01699	0.00212		
Total	9	0.01898			

ANOVA

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.51921	0.05897	8.80416	2.2E-05	0.38322	0.6552
X Variable 1	0.06348	0.06549	0.96929	0.36079	-0.0875	0.21449

#### Interpretation

- Ho: There is no linear relationship between Debt equity ratio vs quick ratio of selected cement companies
- H1: There is linear relationship between Debt equity ratio vs quick ratio of selected cement companies

Multiple R = 0.324, which indicates that there is no linear relationship between Debt equity ratio vs quick ratio of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.360 which is higher than specified  $\alpha$  of 0.05. So null hypothesis is accepted and it concluded that there is no linear relationship between Debt equity ratio vs quick ratio of selected cement companies

## Debt Equity Ratio vs Interest Cover

Summary Output				
Regression Statistics				
Multiple R	0.555122			
R Square	0.30816			
Adjusted R Square	0.22168			
Standard Error	5.692004			
Observations	10			

#### ANOVA

		7.1017			
	df	SS	MS	F	Significance F
Regression	1	115.4492	115.4492	3.563368	0.095766
Residual	8	259.1912	32.39891		
Total	9	374.6405			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	28.5852	7.284156	3.924298	0.004392	11.7879	45.38249
X Variable 1	-15.26908	8.08877	-1.887688	0.095766	-33.92181	3.383659

## Interpretation

Ho: There is no linear relationship between Debt equity ratio vs interest cover ratio of selected cement companies

H1: There is linear relationship between Debt equity ratio vs interest cover ratio of selected cement companies

Multiple R = 0.555, which indicates that there is no linear relationship between Debt equity ratio vs interest cover ratio of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.095 which is higher than specified  $\alpha$  of 0.05. So null hypothesis is accepted and it concluded that there is no linear relationship between Debt equity ratio vs interest cover ratio of selected cement companies

#### Debt Equity Ratio vs Financial Charges Coverage Ratio

Summary Output				
Regression Statistics				
Multiple R	0.508705			
R Square	0.258781			
Adjusted R Square	0.166129			
Standard Error	5.712994			
Observations	10			

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ANOVA									
	df	SS	MS	F	Significance F				
Regression	1	91.15984	91.15984	2.793032	0.133219				
Residual	8	261.1064	32.63831						
Total	9	352.2663							

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	31.08953	7.311018	4.252421	0.00279	14.23029	47.94876
X Variable 1	-13.5681	8.118599	-1.671237	0.133219	-32.28962	5.153422

## Interpretation

- $H_0$ : There is no linear relationship between Debt equity ratio vs financial charges coverage ratio of selected cement companies
- H1: There is linear relationship between Debt equity ratio vs financial charges coverage ratio of selected cement companies

Multiple R = 0.508, which indicates that there is no linear relationship between Debt equity ratio vs financial charges coverage ratio of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.133 which is higher than specified  $\alpha$  of 0.05. So null hypothesis is accepted and it concluded that there is no linear relationship between Debt equity ratio vs financial charges coverage ratio of selected cement companies

### Debt Equity Ratio vs Long Term Debt Equity Ratio

Summary Output				
Regression Statistics				
Multiple R	0.933063			
R Square	0.870606			
Adjusted R Square	0.854431			
Standard Error	0.056129			
Observations	10			

#### ANOVA

		/			
	df	SS	MS	F	Significance F
Regression	1	0.169579	0.169579	53.82651	8.1E-05
Residual	8	0.025204	0.00315		
Total	9	0.194783			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.132322	0.071829	1.842176	0.102702	-0.033316	0.297961
X Variable 1	0.585199	0.079764	7.336655	8.1E-05	0.401263	0.769134

## Interpretation

- Ho: There is no linear relationship between Debt equity ratio vs long term debt equity ratio of selected cement companies
- H1: There is linear relationship between Debt equity ratio vs long term debt equity ratio of selected cement companies

Multiple R = 0.933, which indicates that there is linear relationship between Debt equity ratio vs long term debt equity ratio of selected cement companies.

From the ANOVA table, it can be seen that p-value 8.1E-05 which is less than specified  $\alpha$  of 0.05. So null hypothesis is rejected and it concluded that there is linear relationship between Debt equity ratio vs long term debt equity ratio of selected cement companies

## Debt Equity Ratio vs Inventory Turnover Ratio

Summary Output					
Regression Statistics					
Multiple R	0.748038				
R Square	0.559561				
Adjusted R Square	0.504506				
Standard Error	3.123283				
Observations	10				

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		ANOVA			
	df	SS	MS	F	Significance F
Regression	1	99.14562	99.14562	10.16368	0.012841
Residual	8	78.03917	9.754897		
Total	9	177.1848			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	25.65762	3.99692	6.419349	0.000205	16.44071	34.87454
X Variable 1	-14.14992	4.438422	-3.188052	0.012841	-24.38494	-3.914902

## Interpretation

H<sub>0</sub>: There is no linear relationship between Debt equity ratio vs inventory turnover ratio of selected cement companies

H1: There is linear relationship between Debt equity ratio vs inventory turnover ratio of selected cement companies

Multiple R = 0.748, which indicates that there is linear relationship between Debt equity ratio vs inventory turnover ratio of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.01 which is less than specified  $\alpha$  of 0.05. So null hypothesis is rejected and it concluded that there is linear relationship between Debt equity ratio vs inventory turnover ratio of selected cement companies.

# Debt Equity Ratio vs Asset Turnover Ratio

Summary Output					
Regression Statistics					
Multiple R	0.449655				
R Square	0.20219				
Adjusted R Square	0.102464				
Standard Error	0.051698				
Observations	10				

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	df	SS	MS	F	Significance F			
Regression	1	0.005419	0.005419	2.027448	0.192292			
Residual	8	0.021381	0.002673					
Total	9	0.0268						

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	0.954719	0.066159	14.43077	5.2E-07	0.802157	1.107281
X Variable 1	0.104608	0.073467	1.423885	0.192292	-0.064806	0.274022

#### Interpretation

H<sub>0</sub>: There is no linear relationship between Debt equity ratio vs assets turnover ratio of selected cement companies

H1: There is linear relationship between Debt equity ratio vs assets turnover ratio of selected cement companies

Multiple R = 0.449, which indicates that there is no linear relationship between Debt equity ratio vs assets turnover ratio of selected cement companies.

From the ANOVA table, it can be seen that p-value 0.19 which is higher than specified  $\alpha$  of 0.05. So null hypothesis is accepted and it concluded that there is no linear relationship between Debt equity ratio vs assets turnover ratio of selected cement companies

#### Conclusion

Based on the data analysis it can be concluded that there is linear relationship between Debt equity ratio vs operating profit margin of selected cement companies, there is linear relationship between Debt equity ratio vs profit before interest and tax margin of selected cement companies, there is linear relationship between Debt equity ratio vs gross profit margin of selected cement companies, there is

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linear relationship between Debt equity ratio vs net profit margin of selected cement companies, there is no linear relationship between Debt equity ratio vs current ratio of selected cement companies, there is no linear relationship between Debt equity ratio vs quick ratio of selected cement companies, there is no linear relationship between Debt equity ratio vs interest cover ratio of selected cement companies, there is no linear relationship between Debt equity ratio vs financial charges coverage ratio of selected cement companies, there is linear relationship between Debt equity ratio vs long term debt equity ratio of selected cement companies, there is linear relationship between Debt equity ratio vs inventory turnover ratio of selected cement companies, there is no linear relationship between Debt equity ratio vs assets turnover ratio of selected cement companies

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