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POST DEMERGER FINANCIAL PERFORMANCE ANALYSIS: A CASE STUDY OF SELECT INDIAN

INDIAN COMPANIES

Dr Seema Singhal^{*}

ABSTRACT

Demergers are important corporate strategy actions that aid the company in external growth and provide it competitive advantage. In today's globalized economy,rather than mergers and acquisitions (M&A), demergers are being increasingly used the world over, for improving competitiveness of companies through gaining greater market share. This paper has focused on the performance of Indian Companies which has gone for demergers. The main objective of this paper is to analyze whether the demergered Companies have achieved financial performance efficiency during the post demerger period specifically in the areas of profitability, leverage and liquidity. Paired sample t-test has been performed to determine the significance differences in financial performance standards four year before and four year after the demerger activity. In general, demerged Companies in India does not bring significance difference on the financial performance after the demerger. The finding of this study shows that there is no improvement in resulting Company's return on equity, net profit margin, interest coverage, earning per share and dividend per share post-demerger.

KEYWORDS: Demergers, Profitability, Leverage, Liquidity, window period, announcement date. Introduction

The present paper examines the impact of demergers on the financial efficiency of the selected financial companies in India.By using the ratio analysis approach, we calculate the change in the position of the companies. we examine changes in the efficiency of the companies during the pre and post demerger periods. We found there is no significant change in liquidity position of the companies. This paper aims to examine the impact of demergers on the financial performance of the companies. The pre and postdemerger performances in terms of variables like Sales, Net Earnings, Debt Equity Ratio, and Return on Equity Ratio of the company are analyzed by applying independent sample t test as a main statistical tool.

OBJECTIVES

- To study pre and post demerger influence on profitability of the demerger companies. 1.
- 2. To analyze pre and post demerger effect on leverage standards of the companies.
- To determine pre and post demerger liquidity position of the companies. 3.

RESEARCH HYPOTHESES:

- 4. H0: Pre and Post-demerger, there is no significant improvement in profitability standards.
- 5. H0: Pre and Post-demerger, there is no significant improvement in leverage standards.
- H0: Pre and Post-demerger, there is no significant improvement in liquidity position of the companies. 6.

Objectives of the Study

To study to what extent, demergers have resulted in improving the financial performance. For this purpose, financial performance of pre and post de-merger period will be measured, analyzed and compared in

Associate Professor, Department of Commerce, MDSD Girls College, Ambala City, Haryana, India,

respect of selected cases. Also the average annual rate of growth in terms of profitability, solvency and activity prior to and during the post demerger period will also be analyzed;

Scope of the Study

The sample companies for the present study have been selected in two stages. First, about 70 demergers during 1996 to 2006 were taken from Prowess 3.1; a database developed by Centre for Monitoring Indian Economy. Subsequently the companies whose announcement date of demerger is not given were left out.

In the second stage those companies were excluded whose Stock Price Data for two years before announcement of demerger and two years after the announcement is not available.

This exercise leaves me with a sample of 18 demerged companies which I have taken for my research work. The list of demerged companies was identified first from Bombay Stock Exchange (BSE) and National Stock Exchange web sites then finally from prowess 3.1.

Sources of Data

Besides reputed books and journals, the study is based on data taken from Prowess 3.1; a database developed by Centre for Monitoring Indian Economy (CMIE), company reports and Capitaline data basis. Web sites like bseindia.com, nseindia.com. moneycontrol.com, indiainfoline.com have also been extensively consulted.

Statistical Techniques and Tools Used

To analyze the data collected from sources and to prove hypotheses, various statistical tools and techniques have been applied in this study. Mean, Variance and standard deviation were used for descriptive statistics. The data has been analyzed with the help of SPSS andMS-Excel.

In order to analyze the data, student's t-test is used to evaluate the statistical significance of differences in paired means of financial variables computed for two sample groups, namely pre- demerger period and post demerger period. Pre and post demerger average ratios are calculated to measure the improvement in financial position. Then their significance is tested with the help of t- test and p- value.

Ratio analysis is regarded as one of the best tools in analyzing and comparing the time series accounting data of different companies. That is why it has been used in the present study. For our study 10 important ratios of demerged companies for four years before demerger and four years after demerger have been calculated. The year of demerger is omitted because it is considered as transitional period. The ratios used for this purpose are liquidity ratios, solvency ratios, activity ratios and efficiency ratios.

DATA ANALYSIS

Pre and post-demerger performance ratios are computed for the entire set of sample companies, which have gone through demerger during the selected period. The pre and post demerger performance ratios are compared to see if there is any statistically significant change in performance of demerged company after demerger, using "sample t-test" at confidence level of 0.01 or 99%.

LITERATURE REVIEW

Chang and Hertzel (2004)³⁷ in their paper investigated the relation between changes in firm value and changes in ownership structure that take place around non-control-related targeted repurchases of common stock for a sample of223 target repurchases from 1979 to 1995. In contrast to the negative average abnormal return associated with the announcement of a control-related targeted repurchase (greenmail transaction), they found that the announcement of a non-control-related targeted repurchase is associated with a positive and significant average abnormal return. Cross-sectional analysis indicated that the change in firm value at the announcement of a non-control-related repurchase is negatively related to the resulting changes in both insider ownership and outside block-holdings. They also found significant differences in announcement-period stock price effects depending on the identity of the selling

shareholder.

Mishra and Goel (2005)³⁸ they examined the financial implication of RIL-RPL merger on the shareholders' wealth. The profitability for shareholders was investigated by examining the daily excess returns that accrue to the shareholders around the date of announcement of the merger deal. The study

shows that positive excess return occurred to the shareholders of the target company RPL and negative excess returns to the shareholder of the acquiring company, RIL. They found that in this process of merger, despite the deal appearing to be favourable to the shareholders gained from the deal. This deal was led with the 'empire building' motive along with spreading the risk and return more equally among the shareholders of two companies.

Mallik and Rakshit (2006)³⁹in their article examined and explained how a company restructures its business and increase shareholders value through demerger. It also seeks to discuss the importance of demerger as a business planning tool. Pre and post demerger financial performance evaluation under traditional method and EVA based method has also been attempted in this paper. The efficiency of strategic decision in ensuring over all value creation for an enterprise will be examined on the basis of case study of Dabur India Ltd They analyzed that under traditional performance measurement system ROCE is 9.2% i.e. the company earns profit from its investment and the company is value creating company. But the EVA based evaluation it appears that the company has destroyed value to the extent of Rs. 22.84 Cr. In the end they concluded that before post demerger financial performance analysis was made, it was expelled that the demerger would represent a win - win situation for both the companies and create greater value for shareholders. Hence from the post demerger financial performance analysis it appears that Dabur India Ltd.; performance is good but Dabur Pharma Ltd.; financial position is not good. In the following areas the company should take immediate action for long-term better performance.

- 1. Dabur Pharma Ltd.; require efficient working capital management.
- 2. For Evaluation of Investment proposal modern methods should be used.
- 3. According to them, any company can succeed as a Pharmaceutical company unless the company invents and develop new drugs.
- 4. The company recently entered into tie up with US based drug major to sell its oncology drugs. Ability to provide high quality products at reasonable / low prices is essential not only to combat competition and to emerge as Key player, but also to meet social goals.

NAG (2006)⁴⁰ explained in his article that companies like L & T and Reliance have demerged their entities which is beneficial to their shareholders. He discussed the process of demerged and how it impacts the shareholders' wealth. According to him demerger is the process of corporate restructuring in which a single or multiple business unit(s) is spun off as a new entity. Demerger is just the opposite of merger and tends to go in and out of fashion. When the market prices of shares are rising, the companies like to use their shares to acquire other companies. At this juncture, advisors of the company may suggest and encourage for a merger after taking over the other company. Where as in a falling market, mergers and initial public offers are less popular, and the merchant banks, which normally earn their fees from corporate activity, start looking at demerger possibilities of their clients. Demerger is not of recent origin. In the UK, Argos was spun out from British American Tobacco in 1990 and Zeneca was spun off from ICI in 1993. In India, the most prominent demergers in recent times include the cement division of L & T Ltd, named as Ultratech Cement Ltd, Reliance energy Ventures Ltd, Reliance Natural Resources Ventures Ltd, and Reliance Capital Ventures Ltd, - which spun out from RIL. While the demerger of Ultra tech from L & T seems to be one of L & T's grand strategies to concentrate more on Infrastructure, Engineering, Energy and Turnkey businesses, the demergers of RIL were the outcome of ownership settlements between two siblings (Promoters) in RIL. This demerger had two important issues. The first important issue was that L & T Employees Welfare Foundation was given a stake in the company; in a way, it protected the interests of both existing and former employees. While the second issue was that shareholders at large also got benefited from this demerger. During early 2003, L & T's Rs. 10 face value share prior to demerger was hovering around Rs. 350/400 per share. After the demerger, for every 100 shares of L 7 T, shareholders got 50 shares of L & T of Rs. 5 face value each and 40 shares of UCL with face value of Rs. 10 each. Around April 2004, the entire demerger process was complete. Initially there were some corrections in the market. Later, share prices of both L & T and UCL started rising. Within two years, shareholders of erstwhile L & T have almost trebled their wealth with a growth more than SENSEX or Nifty. In the first week of April 2006, face value of Rs.5 a share of L & T was quoted at Rs.2432, while of UCL quoted Rs.683 per share. This means shareholders' value went up more than 100 % within two years, which was unprecedented in the history of demergers of any company.

Sudarsanam and Qian (2007)⁴¹ in their findingsproposed and tested from a sample of 170 European spinoffs completed during the period from 1987 to 2005, the governance-based model for spin off value effects, which argued that spinoffs create shareholder value by enhancing corporate governance and mitigating agency costs in pot-spinoff firms., they present some evidence supporting the governancebased hypotheses. First, they found that spinoff parents are likely to have weaker corporate governance than non-spinoff control firms. Therefore, agency problems in spinoff parents seem to be more severe than those in non-spinoff control firms. Second, they found the strength of corporate governance for spinoff parents is generally negatively associated with the spinoff announcement period abnormal returns although the relationship is insignificant. Third, they concluded that post-spinoff firms with increased board independence or facing takeover threats earn significantly higher long-run abnormal returns than those without such activities. Finally, they document evidence that family-controlled parent firms have significantly lower performance than non-family-controlled parent firms. Therefore, they evidence indicates that the gains from spinoffs reflect the lessening of agency conflicts.

Unyong (2007)⁴²in his article explored changes in compensation and pay-for-performance relationships for a sample of 124 spinoffs during 1990-1997. They concluded that the operating performance results support management incentive explanation over business focus as the source of value creation in spinoffs. Their findings suggested that changes in managerial incentive compensation are a significant motivation for corporate spinoffs. Corporate spinoffs enhance managerial incentive compensation and the changes in managerial incentive compensation explain the value enhancement and operating performance improvements 'that occur following spinoffs.' They reached a conclusion that the pay-performance relations improve following spinoff distributions in three aspects. First they found that PPS increases for spinoff subsidiaries but remains the same for the parent firms. Second, they advocated that PPS for spinoff subsidiaries does not decrease when a pre-parent's CEO becomes a spinoff subsidiary's CEO adjusting for size effects. Third, resulted the higher incentives are offered to the CEO of spinoff subsidiaries created from FI spinoffs than that of pre-parents involved in FI spinoffs. So the changes in managerial incentives are significant motives for corporate spinoffs. Firms appear to use spinoffs as a way to rewrite managerial compensation contracts more efficiently and to improve firm performance. While the managerial incentive hypothesis and the business focus hypothesis are not mutually exclusive, the results from operating performance show that the managerial incentive effect appears to dominate the business focus effect.

Lundh (2007)⁴³in his project concluded that spinoffs are an increasing phenomenon on the Swedish stock market. He had observed 17 pre-spinoff companies that become 34 post- spin off companies which continued to be traded on the stock market. In this report one can read about factors that trigger spinoffs as well about the short and medium term risk and return that spinoffs yield. He compared the spinoff company and the parent company in the post-spinoff scenario it can be concluded that the company who is performing the best is also the riskier alternative and the spinoff performs better than the parent company in eleven out of seventeen times. There is also a correlation between risk and return- when higher return is observed it also brings higher risk, and it holds true in all samples except one.

Veld and Merkoulova (2008)⁴⁴ in their researchreviewed the literature on the factors that influence the wealth effects associated with the announcements of corporate spin-offs. They used meta-analysis to summarize the findings of 26 event studies on spin-off announcements. They found a significantly positive average abnormal return of 3.02% during the event window. Returns are higher for larger spin-offs, for divestments that are tax or regulatory friendly and for spin-offs that lead to the divestiture of a non-related division. They also found that spin-offs that were later completed were associated with lower abnormal returns than non-completed spin-offs. They overviewed studies on the long-run stock price performance of spin-offs. Even though early studies found a long-run superior performance, this effect was no longer found in later studies that use more refined statistical tests.

Ramakrishnan (2008)⁴⁵ indicated that he long-term post-merger performance of 414 mergers between 1993 and 2005. He has carried out statistical analyses of financial data pertaining to 87 pairs of merged firms. These mergers took place in the period 1996 to 2002. It is found that the merged firms demonstrate improvement in long-term financial performance after controlling for pre-merger performance, with increasing cash flow returns post merger, at an annual rate of 4.3%. This improved operating cash flow return is on account of improvements in the post-merger operating margins of the firms, though not of the efficient utilization of the assets to generate higher sales. Increase in market power also appears to be driving gains through mergers in India. As far as wealth gains on merger announcement are concerned, only the shareholders of the acquired firms appear to be enjoying significant positive share price returns of 11.6%. The shareholders of the acquiring firms and the combined firms do not seem to be witnessing any significant change in returns. With regard to the strategic factors affecting long-term postmerger financial performance, related mergers seem to be performing 5.4% lower than unrelated mergers. Both the transfer of corporate control from the acquired firm to the acquiring firm, and the business health of the acquired firm are positively related to the long-term post-merger performance of the firms. In the case of mergers where there is a transfer of management control, none of these three groups of shareholders witnesses any abnormal returns on announcement of the merger. The wealth gains to acquired firm shareholders on announcement of a merger are positively influenced by the relative size and the pre-merger performance of the acquired firm. The transfer of corporate control from the acquired firm to the acquiring firm is negatively associated with these abnormal share price returns. The level of industryrelatedness of the acquired and the acquiring firms, the method of payment for the acquired firm and the business health of the acquired firm do not appear to be playing a role in affecting the share price returns to the acquired firm shareholders, on announcement of a merger.

Anand and Singh (2008)⁴⁶ they used event study methodology to analyze five mergers in Indian Banking Sector to capture the returns to shareholders as a result of the merger announcement during the period of 1999 to 2005. They explored the short-term shareholder wealth effects of the Indian Bank mergers. The merger of Times Bank with HDFC Bank (1999), The Bank of Madura with the ICICI Bank (2000), the ICICI Ltd. with ICICI Bank (2001), the Global Trust Bank (GTB) with the Oriental Bank of Commerce (OBC) (2004), and the Bank of Punjab (BOP) merger with the Centurian Bank (2005) have been studied. The findings of the study were in agreement with the European and the US bank mergers and acquisitions except for the fact that the value to the shareholders of the bidder banks has been destroyed in the US context. From the study, it emerged that merger announcement in the Indian banking industry has positive and significant shareholders' wealth affect both for the bidder and target banks.

Analysis and Interpretation:

A brief about financial position is detailed as under:

Liquidity Position

Liquidity refers to the ability of a firm to meet its short-term (usually up to 1 year) obligations. The ratios which indicate the liquidity of a company are Current ratio, Quick/Acid-Test ratio, and Cash ratio. These ratios are discussed below.

Current Ratio

The higher the current ratio, the greater will be the short-term solvency. A current ratio of 2:1 is considered satisfactory.

After calculating current four years before and after demerger average is taken to apply t- test and significance level is assessed. Average of ratios is calculated by adding four years ratio and then dividing them with number of ratios. To test the significance level t-value and p-value is calculated with the help of SPSS package and Data analysis tool in Excel.

Sr.	Company Name	Average	Average after	Increase/	t- value	p- value
No.		before	Demerger	Decrease		
		Demerger				
1	CEAT	1.318	1.308	-0.010	0.122	0.907
2	CROMPT	1.293	1.060	-0.233	6.887	0.000*
3	DABUR	1.628	1.610	-0.017	0.091	0.930
4	GODREJ	1.233	0.925	-0.308	5.796	0.001*
5	GRASIM	1.508	1.380	-0.128	0.737	0.489
6	HMT LTD	1.290	0.875	-0.415	3.726	0.010*
7	INFOSYS	4.370	2.658	-1.713	2.017	0.090***
8	JKSYNT	0.648	0.320	-0.328	2.539	0.044**
9	KESORAM	1.478	1.230	-0.248	1.670	0.146
10	KODAK	1.613	2.533	0.920	-3.614	0.011**
11	LARSON	1.158	1.310	0.153	-3.588	0.012**
12	NIRMA	1.643	2.833	1.190	-2.075	0.083***
13	RAYMOND	1.473	1.640	0.168	-0.497	0.637
14	SAIL	1.198	0.763	-0.435	7.992	0.000*
15	TATACOM	1.505	2.408	0.903	-2.855	0.029**
16	VOLTAS	1.020	0.990	-0.030	1.260	0.254
17	WIPRO	1.400	2.543	1.143	-3.297	0.016**
18	ZEE	2.428	1.543	-0.885	2.394	0.054***

 Table 2-Test of Significance for difference in Current Ratio before and after Demerger

* denotes significance at 1% level, **denote significance at 5% level, ***denote significance at 10% level For better interpretation increase and decrease is shown in separate table

Table 3-Effect on Current Ratio after demerger

Results after demerger	Number of companies	In percentage terms
Current ratio increased	6	33.33
Current ratio decreased	12	66.67
Total	18	100

Again separate table is made to check the significance level of increase and decrease in Current Ratios of Selected Companies.

Table 4-Classification on the basis of Significance level of the increase and decrease in Current Ratios of
Selected Companies

Level	of	Companies	indicati	ng an	increase	in	Companies	indica	ting a	decrease in
significance		Current Ratio	0				Current Ratio			
		Number	of	In perce	entage terr	ns	Number	of	In	percentage
		companies					companies		terms	
1%		-		-			4		33.33	
5%		4		66.67			1		8.33	
10%		1		16.67			2		16.67	
More than 10%		1		16.66			5		41.67	
Total		6		100			12		100	

After demerger current ratio of 2/3 companies has decreased. Significant decrease in current ratio is in 27.78% companies like Godrej, Crompt, HMT, JK Synthetic, Sail companies and decrease but insignificant is in 38.89% companies. It is observed that liquidity position has improved in 33.33 % cases and declined in 66.67% cases. Overall demerger is not favourable for the short term solvency of the firm because it is statistically significant only for 4(22%) companies out of eighteen companies.

Quick Ratio

Quick ratio of 1:1 is considered good. One drawback of the quick ratio is that it ignores the timing of receipts and payments.

Sr. No.	Company Name	Average	Average after	Increase/	t- value	p- value
		before	demerger	Decrease		
		demerger				
1	CEAT	1.318	1.308	-0.010	0.122	0.907
2	CROMPT	0.785	0.600	-0.185	7.400	0.000*
3	DABUR	1.628	1.610	-0.017	0.091	0.930
4	GODREJ	1.233	0.925	-0.308	5.796	0.001*
5	GRASIM	1.508	1.380	-0.128	0.737	0.489
6	HMT	1.290	0.875	-0.415	3.726	0.010*
7	INFOSYS	3.865	2.253	-1.613	1.752	0.130
8	JKSYNT	0.648	0.320	-0.328	2.539	0.044**
9	KESORAM	0.800	0.593	-0.208	2.193	0.071***
10	KODAK	1.613	2.533	0.920	-3.614	0.011**
11	LARSON	0.310	0.595	0.285	-4.437	0.004*
12	NIRMA	1.643	2.833	1.190	-2.075	0.083***
13	RAYMOND	1.473	1.640	0.168	-0.497	0.637
14	SAIL	1.198	0.763	-0.435	7.992	0.000*
15	TATA COM	1.505	2.408	0.903	-2.855	0.029**
16	VOLTAS	1.020	0.990	-0.030	1.260	0.254
17	WIPRO	1.400	2.543	1.143	-3.297	0.016**
18	ZEE	2.428	1.543	-0.885	2.394	0.054***

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Table 5-Te	est of Significance for d	lifference in Quick Ratio	before and after Demerger

* denotes significance at 1% level, ** denotes significance at 5% level, *** denotes significance at 10% level,

Table 6-Effect on Quick Ratio after demerger

Number of companies	In percentage terms
Number of companies	
6	33.33
12	66.67
18	100
	12

 Table 7- Classification on the basis of Significance level of the increase and decrease in Quick Ratio of

 Selected Companies

Level	Companies indicat	ing an increase in	Companies indicat	ting a decrease in
of significance	Quick Ratio		Quick Ratio	
	Number	In percentage terms	Number of	In percentage
	of companies		companies	terms
1%	1	16.67	4	33.33
5%	3	50.00	1	08.33
10%	1	16.67	2	16.67
More than 10%	1	16.66	5	41.67
Total	6	100	12	100

It is observed that liquidity position has improved in 33.33 % cases and declined in 66.67% cases. Overall position after demerger is not better from creditor's point of view because it is statistically significant only for four (22%) companies out of eighteen companies.

TURNOVER RATIOS

These ratios are based on the relationship between the level of activity represented by sales or cost of goods sold and levels of investment in various assets. The important turnover ratios are debtor's turnover

ratio, inventory/stock turnover ratio, fixed assets turnover ratio, and working capital turnover ratio. These are described below:

Debtors Turnover Ratio

Efficiency of the Company to manage the credit is assessed with the help of Debtors Turnover Ratio. It measures the liquidity of a firm's debts. It is calculated by dividing the Net Credit Sales by Average Debtors outstanding during the year. Net credit sales are the gross credit sales minus returns, if any, from customers. Average debtors are the average of debtors at the beginning and at the end of the year.

This ratio shows how rapidly debts are collected. Higher Debtor Turnover Ratio shows that the organization has better **and efficient management of credit.**

r						
Sr.	Company	Average before	Average after	Increase/	t- value	p- value
No.	Name	demerger	demerger	Decrease		
1	CEAT	6.480	6.870	0.390	-0.488	0.643
2	CROMPT	3.058	3.248	0.190	-0.603	0.569
3	DABUR	6.488	9.675	3.188	-9.294	0.000*
4	GODREJ	9.575	9.220	-0.355	0.343	0.743
5	GRASIM	6.175	10.640	4.465	-3.802	0.009*
6	HMT	5.778	1.508	-4.270	7.820	0.000*
7	INFOSYS	8.530	8.078	-0.452	1.772	0.127
8	JKSYNT	9.720	13.020	3.300	-2.052	0.086***
9	KESORAM	8.838	8.470	-0.368	0.593	0.575
10	KODAK	7.918	12.998	5.080	-2.845	0.029**
11	LARSON	6.765	4.870	-1.895	3.660	0.011**
12	NIRMA	10.783	12.000	1.218	-1.071	0.325
13	RAYMOND	5.850	3.948	-1.903	3.733	0.010*
14	SAIL	7.715	9.423	1.708	-2.231	0.067***
15	TATA COM	3.965	3.243	-0.723	2.086	0.082***
16	VOLTAS	5.595	4.138	-1.458	3.405	0.014**
17	WIPRO	6.330	5.483	-0.848	0.912	0.397
18	ZEE	3.353	2.110	-1.243	3.999	0.007*

Table 8-Test of significance for difference in Debtors Turnover Ratio before and after Demerger

* denote significance at 1% level, ** denote significance at 5% level, *** denote significance at 10% level **Table 9 - Effect on Debtor Turnover Ratio after demerger**

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Results after demerger	Number of companies	In percentage terms				
Debtor Turnover Ratio increased	8	44.44				
Debtor Turnover Ratio decreased	10	55.56				
Total	18	100.00				

The impact of demerger on the liquidity position of a company depends on the quality of debtors to a great extent. Higher the value of Debtors Turnover ratio, the more efficient is the management of credit.

Table 10-Classification on the basic of Significance level of the increase and decrease in Debtor Turnover
Ratio of Selected Companies

Level of significance	Companies ind	icating an increase in	Companies indicati	ng a decrease in	
	Debtor turnove	er ratio	Debtor turnover ratio		
	Number of In percentage		Number of	In percentage	
	companies	terms	companies	terms	
1%	2	25.0	3	30	
5%	1	12.5	2	20	
10%	2	25.0	1	10	

More than 10%	3	37.5	4	40
Total	8	100	10	100

To conclude, it is observed that in 44.44% companies after demerger collection period have reduced and collection period have increased in 55.56% cases. After demerger collection period of debtor have reduced, it is better for the company but this increase is statistically significant only in three companies. Overall management of credit is not efficient after demerger.

INVENTORY TURNOVER RATIO

Inventory Turnover Ratio reflects the efficiency of inventory management. The higher the ratio, the more efficient is the management of inventories, and vice versa. However, a high inventory turnover may also result from a low level of inventory that may lead to frequent stock outs and loss of sales and customer goodwill.

Sr.	Company Name	Average befor	e Average after		t- value	p- value
No.		demerger	demerger	Decrease		p raise
1	CEAT	6.745	7.085	0.340	-0.412	0.695
2	CROMPT	2.948	3.170	0.223	-1.004	0.354
3	DABUR	6.150	9.838	3.688	-3.380	0.015*
4	GODREJ	10.098	8.635	-1.463	1.665	0.147
5	GRASIM	6.258	9.383	3.125	-3.241	0.018*
6	HMT	6.138	1.765	-4.373	8.593	0.000*
7	INFOSYS	5.755	5.445	-0.310	1.050	0.334
8	J.K.SYNT	10.248	13.888	3.640	-3.784	0.009*
9	KESORAM	8.080	8.005	-0.075	0.151	0.885
10	KODAK	7.775	14.813	7.038	-2.565	0.043**
11	LARSON	6.190	4.628	-1.563	3.206	0.018*
12	NIRMA	9.413	9.990	0.578	-0.603	0.569
13	RAYMOND	5.385	3.740	-1.645	3.433	0.014*
14	SAIL	7.100	10.313	3.213	-4.978	0.003*
15	TATA COM	3.583	2.720	-0.863	2.458	0.049**
16	VOLTAS	5.588	4.068	-1.520	3.763	0.009*
17	WIPRO	5.938	4.320	-1.618	1.710	0.138
18	ZEE	2.480	1.715	-0.765	4.100	0.006*

Table 11 -Test of Significance for difference in Inventory Turnover Ratio before a	nd after Demerger
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* denotes significance at 1% level, ** denotes significance at 5% level, *** denotes significance at 10% level

Table12 -Effect on Inventory Turnover Ratio after demerger

Results after demerger	Number of companies	In percentage term
Inventory Turnover ratio increased	8	44.44
Inventory Turnover ratio decreased	10	55.56
Total	18	100.00

Inventory Turnover ratio is calculated to assess the impact of demerger on utilization of inventories of a company. This ratio is indicative of good inventory management.

 Table 13-Classification on the basis of Significance level of the increase and the decrease in Inventory

 Turnover Ratio of Selected Companies

Level of significance	Companies indicating ar	increase	in	Companies	indicating a	decrease	in
	Inventory Turnover ratio			Inventory T	urnover ratio		

	Number	of	In percentage term	Number of	In percentage
	companies			companies	term
1%	2.0		25.0	3.0	30.0
5%	3.0		32.5	3.0	30.0
10%	-		-	-	-
More than 10%	3.0		37.5	4.0	40.0
Total	8.0		100.0	10.0	100.0

To conclude, liquidity position has improved in 5 companies out of 18 companies means inventory is turning into receivable very rapidly through sales and declined in 6 companies out of 18 companies which shows slow moving stock. This ratio shows how rapidly the inventory is turning into receivables through sales. High ITR indicates good inventory management. Demerged firms' efficiency in tuning its inventories is continuously improving in five companies (28%) out of eighteen companies which have shown significant increase. These companies are Dabur, Grasim, JK Synthetics, Kodak and SAIL. Demerged firms' shows slow moving stock in six companies (33%) out of eighteen companies which have shown significant decrease. These companies are HMT, Larson, SAIL, TATA COM, Voltas and Zee.

FIXED ASSETS TURNOVER RATIO

This ratio measures the efficiency with which fixed assets are employed. A high ratio indicates a high degree of efficiency in asset utilization while a low ratio reflects an inefficient use of assets. However, this ratio should be used with caution because when the fixed assets of a firm are old and substantially depreciated, the fixed assets turnover ratio tends to be high (because the denominator of the ratio is very low). It may also be indicative of under utilizations or non-utilization of certain assets. Thus with the help of this ratio, it is possible to identify such underlined or unutilized assets and arrange for their disposal.

I able T	4-Test of Significant	Le loi unierence în F	ikeu Assel Turnover	Natio beiore	and after De	merger
Sr.	Company Name	Average before	Average after	Increase/	t- value	p- value
No.		demerger	demerger	Decrease		
1	CEAT	6.745	7.085	0.340	-0.412	0.695
2	CROMPT	2.948	3.170	0.223	-1.004	0.354
3	DABUR	6.150	9.838	3.688	-3.380	0.015*
4	GODREJ	10.098	8.635	-1.463	1.665	0.147
5	GRASIM	6.258	9.383	3.125	-3.241	0.018*
6	HMT	6.138	1.765	-4.373	8.593	0.000*
7	INFOSYS	5.755	5.445	-0.310	1.050	0.334
8	JKSYNT	10.248	13.888	3.640	-3.784	0.009*
9	KESORAM	8.080	8.005	-0.075	0.151	0.885
10	KODAK	7.775	14.813	7.038	-2.565	0.043**
11	LARSON	6.190	4.628	-1.563	3.206	0.018*
12	NIRMA	9.413	9.990	0.578	-0.603	0.569
13	RAYMOND	5.385	3.740	-1.645	3.433	0.014*
14	SAIL	7.100	10.313	3.213	-4.978	0.003*
15	TATA COM	3.583	2.720	-0.863	2.458	0.049**
16	VOLTAS	5.588	4.068	-1.520	3.763	0.009*
17	WIPRO	5.938	4.320	-1.618	1.710	0.138
18	ZEE	2.480	1.715	-0.765	4.100	0.006*
¥ 1			·C:	***		4.00/1

Table 14-Test of Significance for difference in Fixed Asset Turnover Ratio before and after Demerger

* denote significance at 1% level, ** denote significance at 5% level, *** denote significance at 10% level.

Table 15- Effect on Average Fixed Asset Turnover Ratio After demerger

Results after demerger	Number of companies	In percentage terms
Fixed Asset Turnover Ratio increased	8	44.44
Fixed Asset Turnover Ratio decreased	10	55.56
Total	18	100

The firm's ability to produce a large volume of sales for a given amount of assets is assessed by measuring Fixed Asset Turnover.

Table 16- Classification on the basis of Significance level of the increase and decrease in Fixed Asset Turnover Ratio of Selected Companies

Level of significance	Companies indicat	ing an increase in	Companies indicat	ing a decrease in	
	Fixed Asset Turnove	er Ratio	Fixed Asset Turnover Ratio		
	Number of	Number of In percentage terms		In percentage	
	companies		companies	terms	
1%	4	50%	5	50%	
5%	1	12.5%	1	10%	
10%	-	-	-	-	
More than 10%	3	64%	4	40%	
Total	8	100%	10	100%	

After demerger Fixed Asset Turnover ratio of ten (55.56%) firms has decreased. Above Table shows that 50% companies of decreased Fixed Asset turnover Ratio are significant at 1% and 10% companies of decreased debtors' turnover Ratio are significant at 5% level of significance. The six demerged companies out of 18 companies which have shown significant decrease are HMT, Larson, Raymond, Voltas, Tata Com and Zee entertainment Enterprises Ltd.

To conclude, it is observed that after demerger in 28% cases assets are efficiency utilized means assets are efficiently utilized for generating sales and declined in 33% cases which shows assets are not utilized efficiently.

Working Capital Turnover Working Capital Turnover is calculated by dividing Net Sales by Net Working Capital. The use of this ratio is two fold. First, it can be used to measure the efficiency of the use of working capital in the unit. Secondly, it can be used as a base for measuring the requirements of working capital for an expected increase in sales.

Table 17- Test of significance for difference in Workin	g capital Turnover Ratio before and after Demerger

<u>v</u>		• •			
Company Name	Average	Average after	Increase/	t- statistics	p- value
	before	demerger	Decrease		
	demerger				
CEAT	9.355	10.673	1.318	-0.337	0.754
CROMPT	205.343	176.945	-28.398	1.127	0.303
DABUR	6.130	8.383	2.253	-2.778	0.032**
GODREJ	15.289	-547.94	-563.235	1.130	0.302
GRASIM	7.839	18.827	10.988	-1.599	0.161
HMT	6.700	4.178	-2.523	0.209	0.841
INFOSYS	2.635	3.530	0.895	-1.035	0.341
J.K.SYNT	-12.438	-1.314	11.123	-1.750	0.131
KESORAM	9.543	30.678	21.135	-1.846	0.114
KODAK	7.455	4.670	-2.785	1.245	0.260
LARSON	6.173	6.848	0.675	-0.830	0.438
NIRMA	9.093	4.753	-4.340	2.009	0.091***
RAYMOND	7.220	7.000	-0.220	0.099	0.924
SAIL	9.445	-7.975	-17.420	8.369	0.000*
	CEAT CROMPT DABUR GODREJ GRASIM HMT INFOSYS J.K.SYNT KESORAM KODAK LARSON NIRMA RAYMOND	before demerger CEAT 9.355 CROMPT 205.343 DABUR 6.130 GODREJ 15.289 GRASIM 7.839 HMT 6.700 INFOSYS 2.635 J.K.SYNT -12.438 KESORAM 9.543 KODAK 7.455 LARSON 6.173 NIRMA 9.093 RAYMOND 7.220	before demergerdemergerCEAT9.35510.673CROMPT205.343176.945DABUR6.1308.383GODREJ15.289-547.94GRASIM7.83918.827HMT6.7004.178INFOSYS2.6353.530J.K.SYNT-12.438-1.314KESORAM9.54330.678KODAK7.4554.670LARSON6.1736.848NIRMA9.0934.753RAYMOND7.2207.000	before demergerdemergerDecreaseCEAT9.35510.6731.318CROMPT205.343176.945-28.398DABUR6.1308.3832.253GODREJ15.289-547.94-563.235GRASIM7.83918.82710.988HMT6.7004.178-2.523INFOSYS2.6353.5300.895J.K.SYNT-12.438-1.31411.123KESORAM9.54330.67821.135KODAK7.4554.670-2.785LARSON6.1736.8480.675NIRMA9.0934.753-4.340RAYMOND7.2207.000-0.220	before demergerdemergerDecreaseCEAT9.35510.6731.318-0.337CROMPT205.343176.945-28.3981.127DABUR6.1308.3832.253-2.778GODREJ15.289-547.94-563.2351.130GRASIM7.83918.82710.988-1.599HMT6.7004.178-2.5230.209INFOSYS2.6353.5300.895-1.035J.K.SYNT-12.438-1.31411.123-1.750KESORAM9.54330.67821.135-1.846KODAK7.4554.670-2.7851.245LARSON6.1736.8480.675-0.830NIRMA9.0934.753-4.3402.009RAYMOND7.2207.000-0.2200.099

15	TATA COM	8.245	2.130	-6.115	2.007	0.092***
16	VOLTAS	192.873	10.710	-182.163	2.150	0.075***
17	WIPRO	7.953	4.476	-3.476	2.425	0.051***
18	ZEE	1.717	2.221	0.504	-1.267	0.252

* denote significance at 1% level, ** denote significance at 5% level, *** denote significance at 10% level Table18- Effect on Average Working Capital Turnover Ratio After demerger

Results after demerger	Number of companies	In percentage terms				
Working Capital Turnover ratio increased	9	50				
Working Capital Turnover ratio decreased	9	50				
Total T Total	18	100.00				

The impact of demerger on the liquidity position of a company has been assessed by measuring working capital turnover ratio.

Table 19- Classification on the basis of Significance level of the increase and decrease Working Capital Turnover Ratio of Selected Companies

Level of significance	Companies indicat	ing an increase in	Companies indicati	ng an decrease in
	Working Capital Tu	rnover Ratio	Working Capital Tur	nover Ratio
	Number of In percentage N		Number of	In percentage
	companies	terms	companies	terms
1%	-	-	-	-
5%	1	11.11%	1	11.11%
10%	-	-	4	44.44%
More than 10%	8	88.89%	4	44.45%
Total	9	100	9	100

It is observed that liquidity position has improved in 50 % cases which indicates that after demerger demerged companies need less fund from outside and declined in 50% cases means after companies need more funds from outside which is statistically significant also.

Only one company Dabur has shown significant increase in working capital turnover ratio means after demerger this company is utilizing working capital efficiently. Only one company SAIL has shown a significant decrease in working capital turnover ratio means working capital is not utilized properly after demerger.

LEVERAGE RATIOS

These ratios measure the long-term solvency of a firm. Financial leverage refers to the use of debt finance. While debt capital is a cheaper source of finance, it is also a risky source. Leverage ratios help us assess the risk arising from the use of debt capital. Coverage ratios show the relationship between the debt commitments and the sources for meeting them.

INTEREST COVERAGE RATIO

The long-term creditors of a firm evaluate its financial strength on the basis of its ability to pay the interest on the loan regularly during the period of the loan and its ability to pay the principal on maturity. The firm may not fail on its commitments to pay interest even if profits fall substantially.

Sr. No.	Company Name	Average before	Average after	1	t- statistics	p- value
51.100.		demerger	demerger	Decrease		p value
1	CEAT	0.935	1.065	0.130	-0.853	0.427
2	CROMCROMPT	1.483	1.265	-0.218	0.315	0.764
3	DABUR	2.725	4.900	2.175	-2.444	0.050**
4	GODREJ	0.843	4.140	3.298	-2.303	0.061***
5	GRASIM	2.098	4.343	2.245	-1.817	0.119
6	HMT	0.125	-0.135	-0.260	0.369	0.725
7	INFOSYS	54.573	-	-	-	-
8	JKSYNT	-0.200	0.135	0.335	-0.528	0.616
9	KESORAM	1.563	1.915	0.353	-0.761	0.476
10	KODAK	2.128	28.815	26.688	-2.100	0.080***
11	LARSON	4.010	3.983	-0.027	0.015	0.989
12	NIRMA	25.908	5.895	-20.013	1.832	0.117
13	RAYMOND	1.693	4.265	2.573	-1.591	0.163
14	SAIL	1.728	0.075	-1.653	3.612	0.011**
15	TATA COM	368.175	7273.578	6905.403	-1.030	0.343
16	VOLTAS.	0.880	0.665	-0.215	0.195	0.852
17	WIPRO	2.523	193.643	191.120	-2.429	0.051***
18	ZEE	117.358	8.363	-108.995	1.753	0.130

 Table 20-Test of significance for difference in Interest Coverage Ratio

* denote significance at 1% level, ** denote significance at 5% level, *** denote significance at 10% level *Ratio of one company Infosys is not available

Table21- Effect on Average Interest Coverage Ratio after demerger

Results after demerger	Number of companies	In percentage terms
Interest coverage ratio increased	10	58.82
Interest coverage ratio decreased	7	41.18
Total	17	100

Interest Coverage Ratio is calculated to assess the debt servicing capacity of a company after Demerger. Table 22-Classification on the basis of Significance level of the increase and decrease in Interest Coverage Ratio of Selected Companies

Level of significance	Companies indicat	ting an increase in	Companies indicat	ing a decrease in	
	Interest coverage r	atio	Interest coverage ratio		
	Number of	In percentage	Number of	In percentage	
	companies	terms	companies	terms	
1%	-	-	-	-	
5%	2.0	20.0	1.0	14.3	
10%	3.0	30.0	-	-	
More than 10%	5.0	50.0	6.0	85.7	
Total	10.0	100.0	7.0	100.0	

It has improved in 58.82 % cases means demerged firms ability to make contractual payments have improved and declined in 41.18% cases which indicate that after firms are using excessive debt and do not have capacity to offer assured payment of interest to lenders. But it is clear that only one company Dabur (5.5%) has shown significant increase in Interest coverage ratio means after demerger ability of firm to handle fixed charged liabilities and to make contractual payment has improved. Only one company SAIL has shown a significant decrease in Interest coverage ratio means company is using excessive debt and don't

have capacity to offer assured payment of interest to lenders after demerger. On the whole, there is no significant affect on the debt servicing capacity of a company after Demerger.

Debt-Equity Ratio

Debt-Equity Ratio shows the relative proportions of debt and equity in financing the assets of a firm. The debt includes short-term and long-term borrowings. The equity includes the net worth (paid-up equity capital and reserves and surplus) and preference capital. It can be calculated by dividing Debt by Equity. This is a measure of owner's stake in the business. Generally a ratio of 2: 1 (i.e., 2 units of debt for 1 unit of equity) is considered normal, but in certain cases relaxations are allowed.

Sr. No.	Company Name	Average	Average after	Increase/	t- statistics	p- value
		before	demerger	Decrease		
		demerger				
1	CEAT	1.835	1.678	-0.158	0.665	0.531
2	CROMPT	1.070	1.625	0.555	-1.797	0.122
3	DABUR	1.205	0.565	-0.640	4.781	0.003
4	GODREJ	1.705	1.058	-0.648	3.210	0.018
5	GRASIM	0.960	0.660	-0.300	6.255	0.001
6	HMT	13.818	18.140	4.323	-0.392	0.708
7	INFOSYS	0.013	-	-	-	-
8	J.K.SYNT	0.035	-1.350	-1.385	0.374	0.721
9	KESORAM	1.318	1.480	0.163	1.336	0.230
10	KODAK	0.448	0.050	-0.398	2.686	0.036
11	LARSON	0.703	0.893	0.190	-1.049	0.335
12	NIRMA	0.665	0.590	-0.075	0.502	0.634
13	RAYMOND	1.175	0.545	-0.630	8.985	0.000
14	SAIL	2.043	4.678	2.635	-3.110	0.021
15	TATA COM	0.110	0.043	-0.068	1.306	0.240
16	VOLTAS	1.885	0.780	-1.105	3.600	0.011
17	WIPRO	1.230	0.035	-1.195	12.202	0.000
18	ZEE	0.170	0.080	-0.090	1.529	0.177

Table 23 -Test of significance for difference in Debt equity Ratio

* denote significance at 1% level, ** denote significance at 5% level, *** denote significance at 10% level Table 24- Effect on Average Debt equity Ratio after demerger

<u> </u>		
Results after demerger	Number of companies	In percentage terms
Debt Equity ratio increased	5	29.41
Debt Equity ratio decreased	12	70.59
Total	17	100

Debt Equity Ratio is calculated to assess the impact of demerger on the financial structure of a company.

Table 25-Classification on the basis of Significance level of the increase and decrease in Debt equity Ratio of Selected Companies

Level of significance	Companies indicating an increase in				Companies	indica	ating a decrease
	Debt Equity ratio			ratio in Debt Equity ratio		io	
	Number of In percentage		Number	of	In percentage		
	companies		terms	5	companies		terms
1%	-		-		4		33.33
5%	1		20		3		25.00
10%	-		-		-		-

More than 10%	4	80	5	41.67
Total	5	100	12	100

It is observed that 29.41% demerged companies owners are putting relatively less money of their own. It is a danger signal for creditors. After demerger debt equity ratio has shown significant increase in only one company (5.5%) SAIL In SAIL claim of creditor has increased after demerger. It indicates that companies are depending more on outsider funds to finance its expending activities. This confirms that leverage imbalances have increased in post demerger period, which is risky from creditor's point of view. The ratio of 7 companies (39%) out of eighteen companies has declined which is statistically significant at 1% level of significance in the post demerger period. It is beneficial from creditors, shareholders and creditor's point of view. These companies are Dabur, Godrej, Grasim, Kodak, Raymond, Voltas and Wipro.

PROFITABILITY RATIOS

While valuing the efficiency and worth of companies, we need to know the return that a company is able to earn on its capital, namely its equity plus debt. A company that earns a higher return on the capital it employs is more valuable than one which earns a lower return on its capital. The tools for measuring these returns are:

Return on Capital Employed (ROCE)

Return on Capital Employed thus reflects the overall earnings performance and operational efficiency of a company's business. It is an important basic ratio that permits an investor to make inter-company comparisons. Return on Capital Employed is valuable financial ratio for evaluating a company's efficiency and the quality of its management. The operating profit of a company is a better indicator of the profits earned by it than is the net profit. ROCE indicates the efficiency with which the long-term funds of a firm are utilized.

Sr.	Company Name	Average	before	Average	after	Increase/	t-	p- value
No.		demerger		demerger		Decrease	statistics	
1	CEAT	-00.960		0.300		1.260	-0.587	0.579
2	CROMP	05.333		-1.018		-6.350	1.087	0.319
3	DABUR	14.858		15.378		0.520	-0.323	0.757
4	GODREJ	-01.780		8.773		10.553	-2.898	0.027
5	GRASIM	06.325		8.648		2.323	-0.938	0.384
6	HMT	-20.733		-79.970		-59.238	0.826	0.440
7	INFOSYS	36.315		45.265		8.950	-1.755	0.130
8	JKSYNT	-26.913		197.663		224.575	-0.993	0.359
9	KESORAM	04.978		6.250		1.273	-0.490	0.642
10	KODAK	-04.803		11.173		15.975	-1.476	0.190
11	LARSON	09.555		7.530		-2.025	0.842	0.432
12	NIRMA	25.300		12.478		-12.823	4.267	0.005
13	RAYMOND	05.720		5.990		0.270	-0.081	0.938
14	SAIL	04.015		-10.198		-14.213	3.951	0.008
15	TATA COM	27.990		19.608		-8.383	2.025	0.089
16	VOLTAS	-02.285		-5.753		-3.468	0.491	0.641
17	WIPRO	19.555		41.430		21.875	-3.718	0.010
18	ZEE	35.480		3.063		-32.418	18.246	0.000

Table 26-Test of Significance for difference in Return on Capital Employed Ratio

* denote significance at 1% level, ** denote significance at 5% level, *** denote significance at 10% level

 ie 27 Enert on Average netarn on capital Employea natio arter aemerger							
Results after demerger	Number of companies	In percentage terms (%)					
ROCE ratio increased	10	55.56					
ROCE ratio decreased	8	44.44					
Total	18	100					

Table 27- Effect on Average Return on Capital Employed Ratio after demerger

Table 28 -Classification on the basis of Significance level of the increase and decrease in Return on CapitalEmployed Ratio of Selected Companies

Level of significance	Companies indic	ating an increase	Companies indic	ating a decrease
	in ROCE ratio		in ROCE ratio	
	Number of	In percentage	Number of	In percentage
	companies	terms	companies	terms
1%	1.0	10.0	3.0	37.5
5%	1.0	10.0	-	-
10%	-	-	1.0	12.5
More than 10%	8.0	80.0	4.0	50.0
Total	10.0	100.0	8.0	100.0

The impact of demerger on the profitability related to sources of long term funds of a company has been assessed by measuring Return on Capital Employed Ratio.

It is observed that in 55.56% demerged company's long term funds of owners and lenders (Capital employed) are used efficiently after demerger. In 44.44% companies Capital employed is not used efficiently.

The impact of demerger on the profitability related to sources of long term funds of a company has been assessed by measuring Return on Capital Employed Ratio. Return on Capital Employed is to test the profitability related to sources of long term funds. Only two companies have shown significant increase in ROCE means long term funds of owners and lenders (Capital employed) are used efficiently after demerger. These companies are Wipro and Godrej. It is clear from the tables only 3 companies have shown significant decrease in ROCE means capital employed is not used efficiently after demerger. These companies are Nirma, SAIL and Zee.

Return on Net Worth

Return on net worth (RONW) is defined as Profit after Tax divided by net worth. It is a basic ratio that tells a shareholder what he is getting out of his investment in the company. It determines earning power of equity capital and corresponds more closely to the shareholders' value maximization hypothesis. It is comparable across time (pre-and post-demerger time of eight years) The impact of demerger on the return of the shareholders of a company has been assessed by measuring Return on Net worth Ratio.

Sr.	Company Name	Average before	Average after	Increase/	t-	p- value
No.		demerger	demerger	Decrease	statistics	
1	CEAT	-1.370	0.298	1.668	-0.673	0.526
2	CROMPT	7.145	-3.570	-10.715	1.102	0.313
3	DABUR	21.463	21.308	-0.155	0.067	0.948
4	GODREJ	-3.483	13.300	16.783	-2.887	0.028**
5	GRASIM	10.895	13.555	2.660	-0.679	0.522
6	HMT	-154.933	58.518	213.450	-2.489	0.047**
7	INFOSYS	37.038	45.265	8.228	-1.705	0.139
8	JKSYNT	5.520	13.813	8.293	-0.115	0.913
9	KESORAM	10.715	10.143	-0.573	0.103	0.921
10	KODAK	-6.305	12.293	18.598	-1.385	0.215
11	LARSON	13.288	10.348	-2.940	1.403	0.210
12	NIRMA	34.198	17.738	-16.460	4.892	0.003*

Table 29- Test of significance for difference in Return on Net worth Ratio

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13	RAYMOND	9.588	7.150	-2.438	0.528	0.616
14	SAIL	10.260	-35.700	-45.960	3.903	0.008*
15	TATA COM	29.133	19.613	-9.520	2.307	0.061***
16	VOLTAS	-4.808	-6.115	-1.308	0.147	0.888
17	WIPRO	27.375	40.370	12.995	-2.286	0.062***
18	ZEE	35.670	3.165	-32.505	21.685	0.000*

* denote significance at 1% level, ** denote significance at 5% level, *** denote significance at 10% level Table30 -Effect on Average returns after demerger

Results after demerger	Number of companies	In percentage terms (%)				
RONW Ratio increased	8	44.44				
RONW Ratio decreased	10	55.56				
Total Total	18	100				

Table 31-Classification on the basis of Significance level of the increase and decrease in Return on Net
Worth Ratio of Selected Companies

Level of significance	Companies inc	licatin	g an	increase in	Companies	indicating	a decrease RONW	
RONW ratio					ratio			
	Number	of	In	percentage	Number	of	In percentage terms	
	companies		terms		companies			
1%	-		-		3		30.00	
5%	2		25.00		-		-	
10%	1		12.50		1		10.00	
More than 10%	5		62.50		6		60.00	
Total	8		100.0		10		100.0	

It is observed that 44.44% demerged companies have earned satisfactory returns after demerger. 55.56% companies have not earned satisfactory returns after demerger. In nutshell shareholders assessed the effectiveness of management in running the company after demerger in 2 companies Godrej and HMT. Return on Net Worth is important from shareholders point of view. The demerged companies Nirma, SAIL and Zee have shown significant decrease in Return on Net worth means shareholders of these companies have not earned satisfactory returns after demerger.

Conclusion

From the above analysis following conclusions were drawn:

1. Overall demerger is not favourable for the short term solvency of the firm because it is statistically significant only for 4(22%) companies out of eighteen companies.Overall position after demerger is not better from creditor's point of view because it is statistically significant only for four (22%) companies out of eighteen companies. It indicates scarcity of resources to pay its debts over the short-term period and difficulty meeting current obligations. Over the year's relative increase in current liabilities is greater than the addition in current assets on account of rising financial charges, creditors paymentsetc.

A falling acid-test ratio indicates worsening liquidity positions of demerged companies and failure to meet immediate current liabilities.

2. After demerger collection period of debtor have reduced, it is better for the company but this increase is statistically significant only in three companies. Overall management of credit is not efficient after demerger.

2 .Demerged firms' efficiency in tuning its inventories is continuously improving in five companies (28%) out of eighteen companies which have shown significant increase. These companies are Dabur, Grasim, JK Synthetics, Kodak and SAIL. Demerged firms' shows slow moving stock in six companies (33%) out of

eighteen companies which have shown significant decrease. These companies are HMT, Larson, SAIL, TATA COM, Voltas and Zee.

3. The six demerged companies out of 18 companies which have shown significant decrease are HMT, Larson, Raymond, Voltas, Tata Com and Zee entertainment Enterprises Ltd.

To conclude, it is observed that after demerger in 28% cases assets are efficiency utilized means assets are efficiently utilized for generating sales and declined in 33% cases which shows assets are not utilized efficiently. Only one company Dabur has shown significant increase in working capital turnover ratio means after demerger this company is utilizing working capital efficiently. Only one company SAIL has shown a significant decrease in working capital turnover ratio means working capital is not utilized properly after demerger.

3. It has improved in 58.82 % cases means demerged firms ability to make contractual payments have improved and declined in 41.18% cases which indicate that after firms are using excessive debt and do not have capacity to offer assured payment of interest to lenders. But it is clear that only one company Dabur (5.5%) has shown significant increase in Interest coverage ratio means after demerger ability of firm to handle fixed charged liabilities and to make contractual payment has improved. Only one company SAIL has shown a significant decrease in Interest coverage ratio means company is using excessive debt and don't have capacity to offer assured payment of interest to lenders after demerger. On the whole, there is no significant affect on the debt servicing capacity of a company after Demerger.

4.It is observed that 29.41% demerged companies owners are putting relatively less money of their own. It is a danger signal for creditors. Over the years the debt amount had increased on account of inefficient borrowing policies and at the same time low operating probability contributed limited funds to service the debt and amortization of the same. The analysis indicates that the claims of lenders are more than the equity shareholders' and their interests are not safe & they have to bear the probable futurelosses.

5. After demerger debt equity ratio has shown significant increase in only one company (5.5%) SAIL In SAIL claim of creditor has increased after demerger. It indicates that companies are depending more on outsider funds to finance its expending activities. This confirms that leverage imbalances have increased in post demerger period, which is risky from creditor's point of view. Over the years the debt amount had increased because of inefficient borrowing policies. This analysis indicates that the claims of lenders are more than the equity shareholders' and their interests are not safe & they have to bear the probable futurelosses.

6 The ratio of 7 companies (39%) out of eighteen companies has declined which is statistically significant at 1% level of significance in the post demerger period. It is beneficial from creditors, shareholders and creditor's point of view. These companies are Dabur, Godrej, Grasim, Kodak, Raymond, Voltas and Wipro.

7.The impact of demerger on the profitability related to sources of long term funds of a company has been assessed by measuring Return on Capital Employed Ratio. Return on Capital Employed is to test the profitability related to sources of long term funds. Only two companies have shown significant increase in ROCE means long term funds of owners and lenders (Capital employed) are used efficiently after demerger. These companies are Wipro and Godrej. It is clear from the tables only 3 companies have shown significant decrease in ROCE means capital employed is not used efficiently after demerger. These companies are Nirma, SAIL and Zee.

8.It is observed that 44.44% demerged companies have earned satisfactory returns after demerger. 55.56% companies have not earned satisfactory returns after demerger. In nutshell shareholders assessed the effectiveness of management in running the company after demerger in 2 companies Godrej and HMT. Return on Net Worth is important from shareholders point of view. The demerged companies Nirma, SAIL and Zee have shown significant decrease in Return on Net worth means shareholders of these companies have not earned satisfactory returns after demerger.

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