Golden Research Thoughts

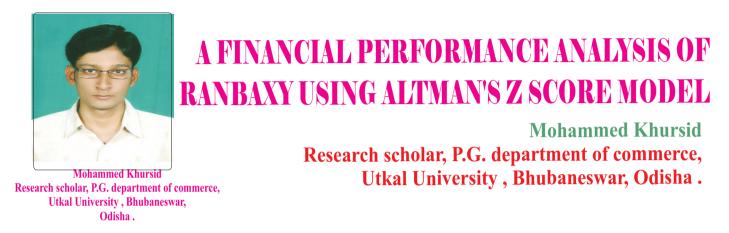
## **DRIGINAL ARTICLE**

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# Abstract:-

Financial performance analysis is a tool to estimate the financial position and also the strength and weakness of the company's management. These analysis are useful to increase the credibility of the company.

The present study discusses financial performance of Ranbaxy for the period prior and post to the merger between Ranbaxy and Daiichi Sankyo Co. Ltd for ten years (2003 to 2012). The goal of this analysis is to determine the efficiency and performance of firm's management, as reflected in the financial records and reports. The main reasons for financial performance analysis are to know i)



Financial distress ii) The extent of the company's leverage iii) Efficiency in generating profits iv) The solvency v) The ability in handling competition. This paper extends on the well-known Altman Z-score model presented by Altman (1968).

# **Keywords:**

Financial performance, Z score, financial distress, leverage, solvency



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# **INTRODUCTION :-**

Financial performance analysis is the process of determining the operating and financial characteristics of a firm. The goal of such analysis is to determine the efficiency and performance of firm's management, as reflected in the financial records and reports. Management of working capital in terms of liquidity and profitability management is essential for sound financial image as it has a direct impact on profitability of the company (Rajesh and Ramana Reddy, 2011). The crucial part in managing working capital is required maintaining its liquidity in day-to-day operation to ensure its smooth running and meets its obligation (Eljelly, 2004). The main reasons for financial performance analysis are to know i) Financial distress ii) The extent of the company's leverage iii) Efficiency in generating profits iv) The solvency v) The ability in handling competition.

The present study discusses financial performance of Ranbaxy for the period prior and post to the merger between Ranbaxy and Daiichi Sankyo Co. Ltd. This analysis is particularly important at this point to scrutinize SUN Pharma's decision of acquiring stake in Ranbaxy.

## **OBJECTIVE:**

The main objectives of the study are

To evaluate the financial performance of Ranbaxy prior to acquisition by Daiichi-Sankyo. To evaluate the financial performance of Ranbaxy prior to acquisition by SUN Pharma.

## **RESEARCH METHODOLOGY:**

The data used for the study is collected from the annual reports of Ranbaxy available on the company's website. The period of the study is 10years from 2003 to 2012 as five years prior and post to acquisition by Daiichi Sankyo Co. Ltd on 11th June 2008. The data has been analysed through Altman's Z score model and few accounting ratios. As It explicitly measure(s) a firm's relatively all aspects of corporate performance, lead to clearer conclusions, avoid judgment bias, reliability.

## **COMPANY PROFILE:**

Ranbaxy Laboratories Limited was incorporated in 1961, promoted by Ranbir Singh and Gurbax Singh. It was listed on Bombay Stock Exchange on 1973 and it became one of the largest pharmaceutical companies in India.

Ranbaxy at the time of takeover by Daiichi Sankyo Co. Ltd on 11th June 2008 was among the top 100 pharmaceuticals in the world and that it was the 15th fastest growing company in India. Daiichi Sankyo Co. Ltd was Japan's third-largest drug maker. Daiichi Sankyo Co. Ltd had its operations in 21 countries at the time of the deal. The deal with Ranbaxy would expand its presence to 56 countries and provide it the platform to launch its innovator products at competitive prices and expand its global operations. But there is sharp decline in the market value of Ranbaxy in recent times.

On April 7 2014 to increase presence in global and domestic market, Sun Pharmaceuticals Industries acquires Ranbaxy Laboratories Ltd for \$4 billion.

# **LITERATURE REVIEW:**

Financial longevity of a business is a concern to internal and external stakeholders. Internal stakeholders might be interested in whether skills are transferable, while external stakeholders might be concerned directly with their investment or profits (Mossman et al, 1998). To address these concerns, it may be of particular importance to the industry to predict bankruptcy or financial distress. Various authors (Dugan and Zavgren, 1989; Chen and Shimerda, 1981) have outlined seven financial factors that can help to predict financial distress: return on investment, financial leverage, capital turnover, short-term liquidity, cash position, inventory turnover and receivables turnover. By using financial ratios, the accuracy of predicting bankruptcy of a firm is greater than 90% (Chen and Shimerda, 1981).

One important tool that predicts the volatility and has gained popularity since 1985 is Edward Altman's Z Score Model (Altman, 1968). It is a multivariate formula used for the measurement of the financial health. It has gained wide acceptance with a variety of stake holders like investors, financial analysts, consultants, bankers, auditors, management accountants, courts, and database systems. Further it

Golden Research Thoughts | Volume-4 | Issue-1 | July-2014

is also used for evaluation of loans (Eidleman, 2003), as it offers an excellent measure for evaluating the financial health of a subject business. It explicitly measure(s) a firm's relative liquidity, longevity, operating profitability, leverage, solvency, and productivity—virtually all aspects of corporate performance, lead to clearer conclusions, avoid judgment bias, reliability.

The Altman model uses various ratios to consider the seven factors noted above. It should be noted that some researchers (i.e. Morris, 1998) argue that in so far as bankruptcy is due to unforeseeable events and therefore, it cannot be predicted. The widely popular Z-score function used for analyzing and predicting bankruptcies was first published in 1968 by Edward I. Altman (Altman, 1968). The z-score is used as a basic research tool in exploring such areas as merger and divestment activity (e.g. Shrieves and Stevens, 1979; Lasfer et al., 1996; Sudarsanam and Lai, 2001), asset pricing and market efficiency (e.g. Altman and Brenner, 1981; Katz et al., 1985; Dichev, 1998; Griffin and Lemmon, 2002; Ferguson and Shockley, 2003), capital structure determination (e.g. Wald, 1999; Graham, 2000; Allayannis et al., 2003; Molina, 2005), the pricing of credit risk (see Kao, 2000 for an overview), distressed securities (e.g. Altman, 2002: ch. 22; Marchesini et al., 2004), and bond ratings and portfolios (e.g. Altman, 1993: ch. 10; Caouette et al., 1998: ch 19). Z-score models are also extensively used as a tool in assessing firm financial health in going-concern research (e.g. Citron and Taffler, 1992; Carcello et al., 1995; Mutchler et al., 1997; Louwers, 1998; Citron and Taffler, 2001 and 2004; Taffler et al., 2004).

## Z score model

Altman (1968) is of the opinion that ratios measuring profitability, liquidity, and solvency are the most significant ratios. However, it is difficult to know which is more important as different studies indicate different ratios as indicators of potential problems. Altman's 1968 model took the following form:

 $Z = 0.01 2X_1 + 0.014 X_2 + 0.033 X_3 + 0.006 X_4 + 0.999 X_5$ 

Where:

 $X_1 =$  working capital/total assets,

 $X_2$  = retained earnings/total assets,

 $X_3 = earnings before interest and taxes/total assets,$ 

 $X_4 =$  book value equity/book value of total liabilities,

 $X_5 = sales/total assets.$ 

 $X_1$ : This is a measure of the net liquid assets of a firm relative to capitalization. Working Capital is calculated by subtracting the firm's current assets from current liabilities.

 $X_2$ : This measures a firm's cumulative profits relative to size. When a firm generates a profit, some of the profit is distributed to the shareholders as dividends and the rest is accumulated to the balance sheet in an account in the equity section. These retained earnings are used to pay off debt or invest in research and development. The age of the firm is implicitly considered due to the fact that relatively young firms have a lower ratio and the incidence of business failures is much higher in a firm's early years. It is also an indication of the firm's use of external capital to fund its investments and operations.

 $X_3$ : This is a measure of the earning power of the firm's assets without any influence from tax or leverage factors.

 $X_4$ : This measures the extent to which a firm's assets can decline in value before book value becomes negative and the firm becomes insolvent. This assesses the ability of a firm to fund its operations with equity capital, the cost of equity and the market's outlook for the firm's prospects. This also adds a market basis dimension to the calculation. Market Capitalization is another name for market value of equity and is calculated by multiplying the company's stock price by the total amount of shares outstanding.  $X_5$ : This is a turnover ratio that measures the sales generating capacity of the firm's assets.

## The zones of discrimination are:

Z<1.81 -- Distress 1.81<Z<2.99 --Inconclusive Z>2.99 --Solvent

Golden Research Thoughts Volume-4 | Issue-1 | July-2014

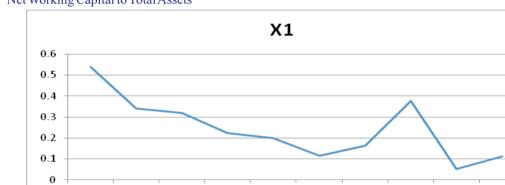
# ANALYSIS & INTERPRETATION:

# Z score variables : Table 1

YEAR	X 1	X 2	X 3	X 4	X 5	Zscore
2003	0.53867	0.14457	0.38726	0.30333	1.37605	1.39776
2004	0.33925	0.08136	0.22517	0.31229	1.25341	1.26667
2005	0.32015	0.01590	0.05715	0.14457	0.96721	0.97306
2006	0.22240	0.00830	0.07801	0.06612	0.69945	0.70450
2007	0.20003	0.03437	0.12305	0.06725	0.64692	0.65362
2008	0.11460	-0.11153	-0.21845	0.02241	0.58549	0.57764
2009	0.16318	-0.03384	0.14191	0.06124	0.60616	0.61209
2010	0.37755	0.07270	0.16664	0.06214	0.56070	0.57156
2011	0.05258	-0.16542	-0.21288	0.03145	0.52203	0.51298
2012	0.11161	-0.19516	-0.01267	0.04145	0.47128	0.46924

# Source: Annual reports(variables computed)

# **INTREPRETATION**



Net Working Capital to Total Assets

As shown in the above figure 1 the working capital of this company is never been stable during the study period but total assets decreased year by year except in the years of 2010 and 2012. It means the company shows its keen interest on investing in fixed assets rather in working capital. The ratio X1 range from 0.05258 to 0.53867. It clearly shows that the working capital management of the company is neither satisfactory nor effective.

2007

2008

2009

2010

2011 2012

# **Retained Earnings to Total Assets**

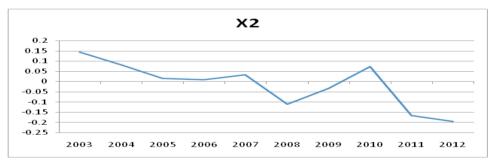
2003

2004

2005

2006





Golden Research Thoughts | Volume-4 | Issue-1 | July-2014 4

As shown in the above figure 2 the ratio of retain earnings to total assets is declined over the years. The range of this ratio X2 is from -0.19516 to 0.14457. This shows this company financing capital expenditure through borrowings rather than retained earnings.

# **Earnings Before Interest and Tax to Total Assets**

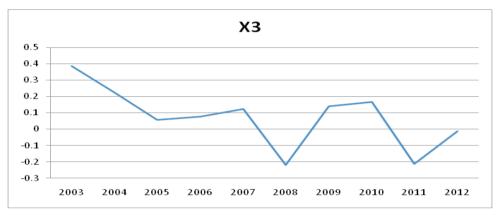
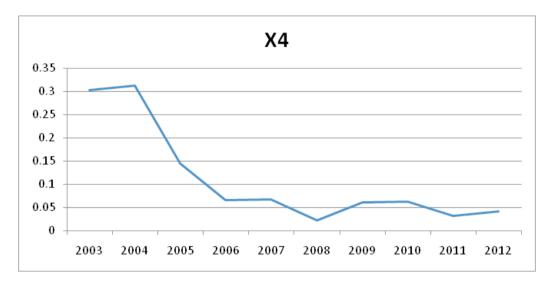


Fig 3 Graphical presentation of Earnings Before Interest and Tax to Total Assets

The ratio EBIT to Total Assets indicates the operating performance and productivity capacity of assets which leads to company success or failure. The ratio X3 ranges from -0.21845 to showing a low operating efficiency of the company and also indicates that the company is unable to operate the fixed assets properly.



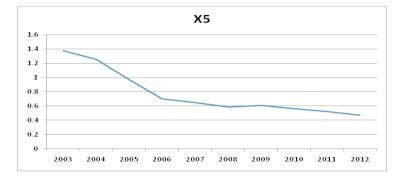


The ratio market value of equity to book value of debts measures the long term solvency of the company. As shown in figure 4 the ratio is fluctuating during the study period. The ratio X4 of the company ranges from 0.02241 to 0.31229. It shows the long term solvency of the firm is doubtful

# Sales to Total Assets.

# Fig 5 Graphical presentation of Sales to Total Assets

Golden Research Thoughts| Volume-4 | Issue-1 | July-2014 5



The ratio of Sales to Total Assets is a turnover ratio that measures the sales generating capacity of the firm's assets. The ratio X5 ranges from 0.47128 to 1.37605, which is declined over the study period. It shows the management is unable to generate sales using assets significantly

# Z Score Value

The financial analysis of the company Ranbaxy is analysed through Altman's Z score model, which shows financial soundness and efficiency of the management. As shown in Table 1 and in the figure below the Z score declined over the years. The Z score range from 0.46924 to 1.39776. As per the result the financial position is too weak during the study period.

# Fig6 Graphical presentation of Z score



# **DISCUSSION AND SUGESSTION :**

• The financial performance of the Company Ranbaxy is not sound whether it's prior or post to Daiichi Sankyo Co. Ltd acquisition. Even though the company is generating revenue over the years but the financial efficiency is not good enough.

• A steady net working capital shows that the capacity of liquidity maintenance but the company is unable to achieve a steady working capital growth, which affects the firms liquidity image negatively. The retained earnings also is not very much significant for the company as it comes down to negative figures, which means the company is comes to very much closer to bankruptcy after the acquisition by Daiichi Sankyo Co. Ltd.

The company is very much capable of expanding its sales volume to the desired level. Sun Pharma

after acquiring Ranbaxy should strategise to boost the sales to desired level as soon as possible and maintain it.

Golden Research Thoughts | Volume-4 | Issue-1 | July-2014

# **CONCLUSION:**

It can be concluded that the Z score of Ranbaxy over a period of ten years (2003 to 2012) Prior and post to acquisition by Daiichi Sankyo Co. Ltd ranges from 1.39776 to 0.46924., which shows the company is getting closer to bankruptcy before acquisition by Sun Pharma. The financial performance was on declining mode after acquisition by Daiichi Sankyo Co. Ltd too. Finally it can be concluded that the overall financial health of Ranbaxy is not sound and Sun Pharma has very tough task to rebuild Ranbaxy's healthy

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Golden Research Thoughts | Volume-4 | Issue-1 | July-2014 8