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CHAPTER

CHANGES IN CAPITALSTRUCTURE

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The data required for the ouroose of this thesis was collect- ed mainly from the audited balance sheet and the published financial information. Wherever found necessary the information was collected directly from the comoany officials. For the purpose of this thesis the information \& data was collected from the year 1989 to 1996.The information was classified in the following categories in order to arrive at conclusions :
1. The capital structure of the company and changes taking place in it over the above period
2. The profitability of the company and the changes taking place in it over the above period
3. Computation of Financial \& Operating leverage
4. Computation of financial ratios
5.The Earnings per share and changes therein
This chapter is devoted to analyse changes in capital structure and various ratios based on it.
4 . 1 CHANGES IN CAPITAL STRUCTURE
During the period of seven years beqinning from 1989 to 1996
the cadital structure of the company underwent substantial
change both in terms of ouned funds and borrowed firms. The
changes occurred both in the nature of funds and their
respective proportion in the capital structure. This was necessitated by the growing business needs. As the company
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started growing in accordance with the growth in demand for
the products of the company the requirements of funds also
increased.With the growth in owned funds and profitability
the capacity of the company to raise funds also increased.
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    4. 1 (i) Changes in Share Capital :
    The authorised share capital of the company consisted of
$10,00,000$ Equity shares of $R=10$ each paid up in 1989. The
authorised share capital was enhanced in 1995 to $50,00,000$
Equity shares of $R s .10$ each paid up and aqain the autho-
rised capital was enhanced in 1996 to $80,00,000$ equity
shares of Rs. 10 each paid up. Thus during the geriod $1989-$
1996 the authorised share capital has increased by 8 times
to Rs.8,00,00,000 from Rs.1,00,00,000. The increase in the
authorised share capital in rupee terms is as under:
Fs.
31.03 .1989
31.03 .1995
31.03 .1996
$8,00,00,000$

Even though increase in authorised share capital does not represent actual inflow of money in the company the very

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|  | R5. |
| :--- | :--- |
| 31.03 .1989 | $60,00,000$ |
| 31.03 .1995 | $85,00,000$ |
| 31.03 .1996 | $1,70,00,000$ |

Thus the paid up cadital increased by $283 \%$ as on 31.03 .1996 as compared with the figure of capital as on
31.03.1989.Another noteworthy feature of increase in the paid up share capital as on 31.03 .1996 was that the share capital doubled to Rs.1,70,00,000 by issue of bonus shares in the ratio of $1: 1$. In keeping with the guidelines for Issue of Bonus Shares the bonus shares were issued out of the Share Premium Account. The company made a private placement in 1995 of 250000 equity shares of R5. 10 each paid up at a premium of Rs .173 .40 per share. This resulted in total share premium amount collected by the company amounting to Rs.4,33,50,000. This share premium amount collected in 1995 was utilised for issue of bonus shares in 1996.
4. 1 ( ii ) Increase in Reserves \& Surolus :

Increase in Reserves $\%$ Surplus reoresent increase in Revenue or Capital Reserves and Profit \& Loss Account balance respectively.As on 31.03 .1789 the comoany possessedmeagre reserves. The total amount of reserves as on 31.03 .1989 was Rs. 20026 . The break uo was as under : Rs.

Capital Reserve 14926
C Created by way of Profit
on reissue of forfeited shares,
Share Premium 5100


Capital Reserve 14926
( Profit on reissue of shares )

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| Share Premium | $3,26,67,100$ |
| :--- | :--- |
| General Reserve | $2.89,36,456$ |$\quad$| (Created out of Profits) |
| :--- |
| Profit \& Loss Account |
| TOTAL |
|  |

Thus as on 31.03 .1996 the total revenue reserves i.e.reserves created by the company by setting aside its business profits amounted to $\mathrm{Rs} .3,67,41,269$ as against nil in the year ending on 31.03.1989.

Thus as on 31.03 .1996 the total awned funds amounted to $\mathrm{Rs} .8,64,23,295$ as against $\mathrm{Rs}=60,20,026$ as on 31.03.1989. The following table depicts the yearwise changes taking place in the capital \& reserves of the company.

TABLE 4 . 1 showing changes in cadital \& reserves


Graph No.4.1 63


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Revenue Reserves (94.61) (55.27) $1.44 \quad 22.59 \quad 87.04 \quad 143.23 \quad 252.32 \quad 367.40$
(Rs. in lacs)

The progress of the company took off since the year 1994. The revenue reserves increased significantly since 1994 alongwith the capital reserves. The profitability of the company also increased since 1994.

Thus the owned funds of the company increased considerably during the eight year period beginning with 1989 \& ending with 1996. The increase took place both in the share capital as well as the revenue reserves which were helped by the issue of shares at a premium \& good profitability.

## 4. 1. ( iiii) CHANGES IN DEBT <br> ;

The total loans of the company both in terms of nature and amount also underwent substantial change during the above period. This refiects the fact that the need for loans was felt to cater to the growing business needs of the company. The debt of the company comorised of both term loans \& working capital finance from financial institutions and barks as well unsecured loans from public,associate companies and others.

## 4. 1. (iii) a. DETAILS OF SECURED LDANS :

The term loans are availed to acquire fixed assets for the exoansion project of a company.They are secured by the hypothecation or mortgage of the land $\&$ building of the company. The position of secured loans of the company as on

|  | Rs. |
| :--- | :--- |
| Term Loan From Financial Institution |  |
| SICOM | $12,14,692$ |
| MSFC | $16,22,220$ |


|  | $28,36,912$ |
| :--- | :--- |
| Cash Credit From Banks | $79,78,059$ |

$$
\text { TOTAL } \quad 1,08,14,971
$$

$$
==============
$$

As against the above loans the total gross block of the companv as on 31.03 .1989 amounted to $R 5.1,22,28,380$ and the net block i.e.amount after deducting accumulated depreciation amounted to Rs.54,98,965 while the capital mork in progress was $\mathrm{R}_{\mathrm{s}}=93$, 183. The total amount of secured loans during the above period yearmise were as under : TABLE 4.2 showing details of Secured Loans

| YEAR | Ps. in lacs |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1989 | 1790 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| Term Loans | 28.36 | 20.30 | 25.00 | 30.49 | 84.30 | 133.63 | 195.42 | 296.13 |
| Cash Credit | 79.78 | 58.00 | 67.16 | 90.81 | 120.68 | 127.02 | 129.53 | 178.83 |
| TOTAL | 108.14 | 78.30 | 92.16 | 121.30 | 204.98 | 260.65 | 324.95 | 474.96 |



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| 1991 | 54.82 | 4.71 | 0 | 30.00 | 15.00 | 104.53 |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- |
| 1992 | 54.82 | 6.41 | 0.66 | 10.00 | 15.00 | 86.89 |
| 1993 | 54.82 | 0.00 | 5.31 | 0.00 | 7.83 | 67.96 |
| 1994 | 54.82 | 0.00 | 18.00 | 0.00 | 9.30 | 82.12 |
| 1995 | 71.24 | 0.00 | 17.67 | 0.00 | 50.00 | 138.91 |
| 1996 | 118.14 | 0.00 | 12.80 | 0.00 | 66.94 | 197.89 |

The above table brings out the following points in regard to the unsecured loans of the company :
i ) Major portion of the unsecured loans came from the SICOM interest free sales tax loan which can be availed only by a company which expands its manufacturing business in a notified backward area.This loan jumped from 54.82 lacs in 1990 to 118.14 iacs in 1996. This loan helped the company in maintaining good working capital position as it contributed long term funds to the working capital requirements. Further the fact that the loan was interest free helped the company in reducing the cost of borrowings. This loan is repayable over a period of 15 years and to that extent the company could raise further long term loans.
ii , The company did not raise any fixed deposits from the public under section 58 A of The Companies Act, 1956 until the year 1993. Thereafter the company invited new deposits and renewed the existing deposits under the above section. The fixed deposits from public were recognised as 10w.

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4.2 RATIO ANALYSIS :


#### Abstract

In addition to what has been stated in the above pages the presentation and analysis of the figures and performance of the company for the above period can be done by calculating some key capital structure ratios and solvency ratios \& by calculatng the cost of capital of the company over the period.


```
            4.2 * {i % CAPITAL STRUCTURE RATIO :
            1.DEBT EQUITY RATIO :
In capital structure ratios Debt Equity Ratio occupies
prominent place since long term solvency of a company
depends on this ratio.This ratio has been discussed in
detail in Chapter 5 point 3 a.
            LONG TERM DEBT
DEBT EQUITY RATID =
                    OWNED FUNDS
                4. 2. ( ii ) FIXED ASSETS RATIO :
                            Fixed Assets
FIXED ASSETS RATID=
                            Duned funds
This ratia shows the contribution of owned funds to the
total investment in fixed assets.This ratio should be
```


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| funds the investment in fixed assets is Rs.67 leaving the |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| balance for investment in current assets. |  |  |  |  |  |  |  |  |
| TABLE 4.4 showing calculation of fixed assets ratio |  |  |  |  |  |  |  |  |
| YEAR | 1989 | 1990 | 1991 | 19921 | 1993 | 1994 | 1995 | 1996 |
| - ASSETS | 55.91 | 60.73 | 72.72 | 104.80 | 172.95 | 226.58 | 473.34 | 593.50 |
| (R5. in lacs) |  |  |  |  |  |  |  |  |
| OWNED |  |  |  |  |  |  |  |  |
| FUNDS | 60.20 | 60.20 | 61.45 | 82.791 | 147.252 | 203.44 | 749.15 | 864.23 |
| (Rs.in lacs) |  |  |  |  |  |  |  |  |
| $\%$ | .93 | 1.00 | 1.18 | 1.26 | 1.171 | 1.11 | . 63 | . 69 |
| As stated above the ratio improved only in 1995 \% 1996 due |  |  |  |  |  |  |  |  |
| to | Iough | ack of p | profits. | In the e | eariier | years | due to |  |
| inadequacy of profits the ratio could not be improved or |  |  |  |  |  |  |  |  |
| alternativel |  | fresh f | funds had | to be brought i |  | in to improve |  |  |
| the ratio. |  |  |  |  |  |  |  |  |
| As a natural corollary the current ratio also has to be |  |  |  |  |  |  |  |  |
| below the required norm. |  |  |  |  |  |  |  |  |
| TABL | 4-5 | showing | calculation of |  | Current Ratio |  |  |  |
| YEAR | 1989 | 1990 | 1991 | 1992 | 1793 | 1994 | 1995 | 1996 |
| CURRENT |  |  |  |  |  |  |  |  |
| ASSETS | 232. | 268.92 | 269.77 | 357.91 | 510.346 | 680.1312 | 201.4614 | 78. 65 |

CURRENT
$\begin{array}{llllllllllll}\text { LIABILITIES } & 146.51 & 174.87 & 87.01 & 172.59 & 281.19 & 378.59 & 479.88 & 520.98\end{array}$
$\begin{array}{lllllllllll}\text { CASH CREDIT } & 79.78 & 57.99 & 97.16 & 100.81 & 120.68 & 127.02 & 129.53 & 243.86\end{array}$
$226.29 \quad 232.86 \quad 184.17 \quad 273.40401 .87505 .61 \quad 609.41 \quad 764.84$
$\begin{array}{lllllllll}\text { RATIO } & 1.02 & 1.15 & 1.46 & 1.31 & 1.27 & 1.35 & 1.97 & 1.93\end{array}$

Thus because of insufficient profits \& accumulated losses the current ratio was also not satisfactory in the earlier years. With the profitability increasing in the later years the current ratio also improved \& approached the norm of 1.33.
4.2. (iii \} TURNOVER RATIO :

Amongst many turnover ratios the most important ratio appropriate for this study is the fixed assets turnover ratio. This ratio shows how many times of fixed assets the turnover is.This ratio is computed as under :

TURNDVER

FIXED ASSETS TURNDVER =

FIXED ASSETS
TABLE 4 : 6 showing Fixed Assets Turnover Ratio
( Rs. in Lacs)
$\begin{array}{llllllllll}\text { YEAR } & 1989 & 1990 & 1991 & 1992 & 1993 & 1994 & 1995 & 1996\end{array}$

FIXED
$\begin{array}{lllllllllll}\text { ASSETS } & 55.91 & 60.73 & 72.72 & 104.80 & 172.95 & 226.58 & 473.34 & 593.50\end{array}$

RATIO
4.65
7.57
$7.83 \quad 7.30$
6.36
5.22
3.41
3.35

This ratio shows the efficiency with which the fixed assets of a comoany are used by the management. A high ratio indicates efficiency in utilisation of assets since it shows that with the same assets the management has sold more. The ratio even declined in 199581996 from the level of 1989 g 1990. The ratio started declining from 1991 onwards even as the comoany decided to grou in terms af assets and sales.This explains the slow growth in saies and returns to shareholders and decline in profit marains since 1975 onwards.

### 4.3. COST OF CAPITAL :

The cost of capital comprises of cost for debt and for shareholders funds. In the case of debt it is the interest rate adjusted for tax deduction availabie e.g. where term loan is raised e $18 \%$ the effertive cost to the companv would be ( 1 - tax rate $>*$ interest rate i.e. ( 1 - 40 ) * 18 which comes to 10.80 .

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The computation of cost of equity poses some problems. It can not be ascertained exactly what is the cost of obtaining the funds from shareholders.lt would in most cases be the enoectations of the shareholders of the likely returns on the investment.Further the expectations of returns depend uoon the opportunity cost of funds i.e the likely returns on some other investment \& the returns prevailing in the market, the returns offered by competitors etc. Further the rate of dividend and the expected capital aporeciation also form part of the decision regarding investment in the company by the shareholders.

The cost of capital forms the basis of the theories of capital structure. The theories of capital structure aim to establish relationship between the value of a company \& its capital structure e.g.whether value of a company can be increased or decreased by increasing or decreasing the cost of capital through the use of debt capital in the capital structure. The application of the theories of capital strueture to the company under study is done below :

TABLE 4.7 showing Profits \& Capital of the company ( Rs. in lacs)

| YEAR | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| EBIT | 33.50 | 69.88 | 196.75 | 125.84 | 221.66 | 232.18 | 266.13 | 370.36 |

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| NP | 11.03 | 39.34 | 62.52 | 33.34 | 79.45 | 72.39 | 130.17 | 148.10 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| DEBT 178.93 | 152.75 | 196.69 | 208.20 | 272.90 | 342.79 | 463.86 | 705.19 |  |

$\begin{array}{llllllllllll}\text { FUNDS } 60.20 & 60.20 & 61.45 & 82.79 & 147.25 & 203.44 & 749.15 & 864.23\end{array}$

TOTAL $239.13 \quad 212.95 \quad 258.14 \quad 290.99 \quad 429.15 \quad 546.231213 .01 \quad 1569.42$

CAPITALISATION RATE ASSUMED TO BE $20 \%$ *
4. 3. a . NET INCOME APPROACH :

TABLE 4 : $日$ showing cost of capital under Net
Income Approach


ACTUAL
$\begin{array}{llllllllll}\text { CAPITAL } & 239.13 & 212.95 & 258.14 & 290.99 & 420.15 & 546.23 & 1213.01 & 1569.42\end{array}$
\% OF

COST OF
$\begin{array}{llllllllll}\text { CAPITAL } & 14.31 & 19.99 & 20.97 & 33.57 & 33.07 & 32.95 & 23.87 & 25.62\end{array}$
\% DF

COST OF
ACTUAL
$\begin{array}{llllllllll}\text { CAPITAL } & 14.00 & 32.81 & 41.35 & 43.24 & 52.75 & 42.51 & 21.94 & 23.36\end{array}$

4 . 3. b. NET OPERATING APPROACH:

In this alternative instead of capitaiising the NP at the capitalisation rate for arriving at the market value of the equity the EBIT is cabitalised at the capitalisation rate \& the total value is divided into equity \& debt.

TABLE 4 . 9 showing cost of capital under Net Operating Income Approach

| YEAR | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EBIT | 33.50 | 69.8 | 106. | 125. | 221. | 232 | 266 |  |

value

ACTUAL

CAPITAL $239.13 \quad 212.95 \quad 258.14 \quad 290.99 \quad 420.15 \quad 546.23 \quad 1213.01 \quad 1569.42$
$\%$ COST OF
ACTUAL
$\begin{array}{lllllllllll}\text { CAPITAL } & 14.00 & 32.81 & 41.35 & 43.24 & 52.75 & 42.51 & 21.94 & 23.36\end{array}$

| The actual capital of the company was less than the capital |
| :---: |
| under the first alternative. |
| As a result the cost of capital also decreased in these two |
| years.However in the second alternative the actual capital |
| remained below the capital at the capitalisation level |
| throughout the period except 1989. Therefore the actual cost |
| of capital remained higher than $20 \%$ except 1989. The cost o |
| capital under bath the approaches worked out to different |
| figures and as per the actual figures also there was wide |
| diversion. The primary reason being that in actual oractice |
| many decisions are taken on the basis of expectations of |
| future earnings \% growth the actual outcome of which depends |
| on many uncertain factors As a result the actual figures of |
| the cost of capital do not necessarily correspond with the |
| figures of the above theories.As stated above the expecta- |
| tions of investors from a company vary according to the |
| progress and size of the company, the perception of |

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#### Abstract

investors regarding its risk and a host of other factors.As a result the actual average figures of cost of capital over a Deriod of time would be more representative. However still it would be very difficult for the management of a company to take decisions on the basis of the average cost of capital figures since the actual market conditions may be adverse or the govt. policies may have undergone a substantial change.e.g. where a company decides to reduce its cost of capital by raising cheap foreign currency loans the rupee may get devalued or where a company proposes to issue shares the market conditions may be unfavourable.Therefore the concept of cost of capital as a tool of management to arrive at minimum cost of capital has had limited application.


## 4. 4. LIMITATIONS OF THEORIES DF COST DF CAPITAL

The limitations of the theories of capital structure can be better understood with the above two calculations of cost of capital \& the actual capital \% the capital at the capitalisation rate.
i ) The corporate income taxes do exist. In fact the profits of the company would have been much higher in the years 1992 \& 1993.The benefit of tax deductibility is the most impor tant consideration in financial leverage.

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