Impact of Fund flow and cash flow statement analysis in various factors of accounting with ratio in Deccan cements ltd.

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Abstract: The basis for financial planning, analysis and decision-making is Financial Information. Financial information is needed to predict, compare and evaluate the firm's earning ability. It is also required to aid in economic decision-making. The Financial information of an enterprise is contained in the Financial Statements (or) accounting reports. Financial analysis is the process of identifying the financial strengths and weaknesses of the firm by properly establishing relationships between the items of the Balance sheet and the profit and loss account. Management should be particularly interested in knowing financial strengths of the firm to make their best use and to be able to spot out financial weakness of the firm to take suitable corrective actions. Thus financial analysis is the starting point of making plans, before using any suplicated forecasting and planning procedures. The analysis helps us to say how well the firm could utilize the resource of the society in generating goods and services turnover ratios are the best tools in deciding this aspect. Financial analysis does indicate what can be expected in future from the firm.

Introduction: Financial Analysis is a tool of the management used to identify the strengths and weaknesses of an organization in order to evaluate the financial positions of the firm from the viewpoints of creditors, investors and the management’s itself. Financial Analysis server its purpose through the appraisal of a firm’s position be comparing the profit and loss account and the balance sheet of the frame with past performance and the industry average. Analysis is done on the basis of solvency, liquidity, activity and profitability. For example, the creditors of the frame are interested in receiving the interest as their debt in time and the repayment of the principal amount on the maturity. This is not possible for a frame unless it is sufficiently liquid to meet its obligation. As such the creditors of the frame are more interested in knowing the liquidity position of the firm. The suppliers of long-term debt are interested in knowing the solvency of the firm. The management is interested in knowing the efficiency of this working and liquidity position of the firm, its activity and profitability. The general public or customers are interested in knowing the rate at which the firm could generate production or sales with its resources. The analyst is able to say how will the firm could utilize the resources of the society in generating goods and services turnover ratios are the best tools in deciding this aspect. The analyst can say how for the firm could meet its obligation and satisfy kits claims.

Objectives of the Study
- The basic objective of studying the ratios of the company is to know the financial position of the company.
- To know the borrowings of the company as well as the liquidity position of the company.
- To study the current assets and current liabilities so as to know whether the shareholders could invest in Deccan Cements Ltd or not.
- To study the profits of the business and net sales of the business and to know the stock reserve for sales of the business.
- To know the solvency of the business and the capacity to give interest to the long term loan lenders (debenture holders) and dividend to the shareholders.
- To analyze the changes in financial position and suggest some strategies for protecting the fluctuation of Financial Management in “Deccan Cements Limited”.

Need for The Study
- A study of the Financial Performance in Deccan Cements Limited gives out the exact idea the Working Capital because that is an Organization with huge production and which also required huge Funds to meet the day to day expenses.
- Cash Flow statement is prepared to analyze the firm to plan the matching at inflow of Funds or Cash.
- The study of Ratio Analysis is one of the powerful tools to measure the financial strength and weaknesses of the firm.
- Financial Performance helps to know the current profitability of the Company.
- It also helps to know the achievements and new projects of the Company. After it became a Private Sector.

Methodology of The Study:
There are two type’s sources of Data. They are
- a) Primary Data
- b) Secondary Data
This study is mainly based on primary Data. The personal Acquaintance of the researcher with the Organization for a period of 8 weeks under summer placement provides much of imperial evidence. This close interaction with the department of finance of the
Deccan Cements Limited especially with its top and middle level executives provides a deep insight into the problem under the study.

Financial Data taken from Balance sheet and income statement of “Deccan Cements Limited” It has been utilized for the purpose of meeting the objectives of the study. The study is undertaken for the period of 3 years that i.e., 2014-2015 to 2016-17. Annual reports of 3 years i.e., 2014-15, 2015-16, 2016-2017 are attached to calculate the Funds flow statement, cash flow statement and also from magazines, newspapers, internets etc.

**Limitations of The Study**
- The analysis was made with the help of the secondary data collected from the company.
- All the limitations of ratio analysis, common-size statement, comparative statements, and trend analysis and interpret are applicable to this study.
- Some of the reports could not be available to analyze more information.
- Due to lack of time for execution in the Organization they did not allow me to conduct the interview.
- The collection of accurate information was not possible due to the regrouping of the B/S and P&L A/C schedules.
- Pay observing financial performance of “Deccan Cements Limited” whole Shipping industry’s performance can be judged.
- By observing the financial performance of “Deccan Cements Limited” whole shipping industries performance cannot be judged.

**Theoretical framework**

**Review of literature**

**Financial Statement:** A Financial Statement is an organized collection of data according to logical and consistent accounting procedures. Its purpose is to convey an understanding of some financial aspects of a business firm. It may show a position at a moment of time as in the case of a balance sheet, or may reveal a series of activities over a given period of time, as in the case of an income statement.

Thus, the term financial statement generally refers to the basis statements;

i) The income statement

ii) The balance sheet

iii) A statement of retained earnings

iv) A statement of charge in financial position in addition to the above two statement.

**Financial Statement Analysis:** It is the process of identifying the financial strength and weakness of a firm from the available accounting data and financial statement. The analysis is done by properly establishing the relationship between the items of balance sheet and profit and loss account the first task of financial analyst is to determine the information relevant to the decision under consideration from the total information contained in the financial statement. The second step is to arrange information in a way to highlight significant relationship. The final step is interpretation and drawing of inferences and conclusion. Thus financial analysis is the process of selection relating and evaluation of the accounting data/information.

**This studying contains following analysis:**

1) comparative analysis statement
2) common-size analysis statement
3) Ratio analysis
4) Trend analysis.

**Comparative Financial Statement:** Comparative financial statement is those statements which have been designed in a way so as to provide time perspective to the consideration of various elements of financial position embodied in such statements. In these statements, figures for two or more periods are placed side by side to facilitate comparison. But the income statement and balance sheet can be prepared in the form of comparative financial statement.

i) **Comparative Income Statement:** The income statement discloses net profit or net loss on account of operations. A comparative income statement will show the absolute figures for two or more periods. The absolute change from one period to another and if desired. The change in terms of percentages. Since, the figures for two or more periods are shown side by side; the reader can quickly ascertain whether sales have increased or decreased, whether cost of sales has increased or decreased etc.

ii) **Comparative balance sheet:** Comparative balance sheet as on two or more different dates can be used for comparing assets and liabilities and finding out any increase or decrease in those items. Thus, while in a single balance sheet the emphasis is on present position, it is on change in the comparative balance sheet. Such a balance sheet is very useful in studying the trends in an enterprise.

2) **Common-Size Financial Statement:** Common-size financial statement is those in which figures reported are converted into percentages to some common base in the income statement the sales figure is assumed to be 100 and all figures are expressed as a percentage of sales. Similarly, in the balance sheet, the total of assets or liabilities is taken as 100 and all the figures are expressed as a percentage of this total.
3) Ratio analysis: Ratio analysis is a widely used tool of financial analysis. The term ratio in it refers to the relationship expressed in mathematical terms between two individual figures or group of figures connected with each other in some logical manner and are selected from financial statements of the concern. The ratio analysis is based on the fact that a single accounting figure by itself may not communicate any meaningful information but when expressed as a relative to some other figure, it may definitely provide some significant information the relationship between two or more accounting figure/groups is called a financial ratio helps to express the relationship between two accounting figures in such a way that users can draw conclusions about the performance, strengths and weakness of a firm.

Classification of ratios:
A) Liquidity ratios
B) Leverage ratios
C) Activity ratios
D) Profitability ratios

A) Liquidity ratios: These ratios portray the capacity of the business unit to meet its short term obligation from its short-term resources (e.g.) current ratio, quick ratio.

i) Current ratio: Current ratio may be defined as the relationship between current assets and current liabilities it is the most common ratio for measuring liquidity. It is calculated by dividing current assets and current liabilities. Current assets are those, the amount of which can be realized with in a period of one year. Current liabilities are those amounts which are payable with in a period of one year.

\[
\text{Current ratio} = \frac{\text{Current assets}}{\text{Current liabilities}}
\]

ii) Quick Ratio: The term ‘liquidity’ refers to the ability of a firm to pay its short-term obligation as and when they become due. The term quick assets or liquid assets refers current assets which can be converted into cash immediately it comprises all current assets except stock and prepaid expenses it is determined by dividing quick assets by quick liabilities.

\[
\text{Quick ratio} = \frac{\text{Quick assets}}{\text{Current liabilities}}
\]

iii) Absolute liquidity ratio: Absolute liquid assets include cash, bank, and marketable securities. This ratio Obtained by dividing cash and bank and marketable securities by current liabilities.

\[
\text{Absolute liquidity ratio} = \frac{\text{Cash + bank +marketable securities}}{\text{Current liabilities}}
\]

B) Leverage ratios: Many financial analyses are interested in the relative use of debt and equity in the firm. The term ‘solvency’ refers to the ability of a concern to meet its long-term obligation. Accordingly, long-term solvency ratios indicate a firm’s ability to meet the fixed interest and costs and repayment schedules associated with its long-term borrowings. (E.g.) debt equity ratio, proprietary ratio, etc….

i) Debt equity ratio: It expresses the relationship between the external equities and internal equities or the relationship between borrowed funds and ‘owners’ capital. It is a popular measure of the long-term financial solvency of a firm. This relationship is shown by the debt equity ratio. This ratio indicates the relative proportion of debt and equity in financing the assets of a firm. This ratio is computed by dividing the total debt of the firm by its equity (i.e.) net worth.

\[
\text{Debt equity ratio} = \frac{\text{Outsider’s funds}}{\text{Proprietor’s funds}}
\]

ii) Proprietary ratio: Proprietary ratio relates to the proprietor’s funds to total assets. It reveals the owner’s contribution to the total value of assets. This ratio shows the long-time solvency of the business it is calculated by dividing proprietor’s funds by the total tangible assets.

\[
\text{Proprietary ratio} = \frac{\text{Proprietor’s funds}}{\text{Total assets}}
\]

C) Activity ratios: These ratios evaluate the use of the total resources of the business concern along with the use of the components of total assets. They are intended to measure the effectiveness of the assets management the efficiency with which the assets are used would be reflected in the speed and rapidity with which the assets are converted into sales. The greater the rate of turnover, the more efficient the management would be (E.g.) stock turnover ratio, fixed assets turnover ratios etc….
i) **Stock turnover ratio:** This ratio indicates whether investment in inventory is efficiently used or not. It also measures the effectiveness of the firms' sales efforts. The ratio is calculated as follows.

\[
\text{Stock turnover ratio} = \frac{\text{Cost of goods sold}}{\text{Average stock}}
\]

\[
\text{Average stock} = \frac{\text{Opening Stock} + \text{Closing Stock}}{2}
\]

ii) **Fixed assets turnover ratio:** The ratio indicates the extent to which the investments in fixed assets contribute towards sales. If compared with a previous year, it indicates whether the investment in fixed assets has been judicious or not. The ratio is calculated as follows.

\[
\text{Fixed assets turnover ratio} = \frac{\text{Net sales}}{\text{Fixed assets}}
\]

iii) **Working capital turnover ratio:** Working capital turnover ratio indicates the velocity of the utilization of net working capital. This ratio indicates the number of times the working capital is turned over in the course of a year. It is a good measure over trading and under-trading.

\[
\text{Working capital turnover ratio} = \frac{\text{Net sales}}{\text{Net working capital}}
\]

iv) **Debtors turnover ratio:** The Debtors turnover ratio is an accounting measure used to quantify a firm's effectiveness in extending credit and in collecting debts on that credit. The Debtors turnover ratio is an activity ratio measuring how efficiently a firm uses its assets. It is also called Accounts receivable turnover ratio.

\[
\text{Debtors turnover ratio} = \frac{\text{Credit sales}}{\text{Average Debtors}}
\]

v) **Creditors turnover ratio:** The Creditors turnover ratio is a short-term liquidity measure used to quantify the rate at which a company pays off its suppliers. Creditors turnover ratio is calculated by taking the total purchases made from suppliers, or cost of sales, and dividing it by the average accounts payable amount during the same period. It is also called Accounts payable turnover ratio.

\[
\text{Creditors turnover ratio} = \frac{\text{Credit purchases}}{\text{Average Creditors}}
\]

D) **Profitability ratios:** The profitability ratios of a business concern can be measured by the profitability ratios. These ratios highlight the end result of business activities by which alone the overall efficiency of a business unit can be judged, (E.g.) gross ratios, and Net profit ratio.

i) **Gross profit ratio:** This ratio expresses the relationship between Gross profit and sales. It indicates the efficiency of production or trading operation. A high gross profit ratio is a good management as it implies that cost of production is relatively low.

\[
\text{Gross profit ratio} = \frac{\text{Gross profit}}{\text{Net sales}} \times 100
\]

ii) **Net profit ratio:** Net profit ratio establishes a relationship between net profit (after taxes) and sales. It is determined by dividing the net income after tax to the net sales for the period and measures the profit per rupee of sales.

\[
\text{Net profit sales} = \frac{\text{Net profit}}{\text{Net sales}} \times 100
\]
iii) Expenses ratio: This ratio establishes the relationship between various indirect expenses to net sales.

A) ADMINISTRATIVE EXPENSES RATIO:

\[
\text{Administrative expenses ratio} = \frac{\text{Administrative expenses}}{\text{Sales}} \times 100
\]

b) SELLING & DISTRIBUTION EXPENSES RATIO:

\[
\text{Selling & distribution expenses ratio} = \frac{\text{Selling & distribution expenses}}{\text{Sales}} \times 100
\]

iv) Return on investment: The Return on investment is used to measure the performance, evaluate efficiency of investment. ROI measures the amount of return on an investment, relative to the investment’s cost.

\[
\text{Return on investment} = \frac{\text{Net profit after taxes}}{\text{Total investment}} \times 100
\]

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Data Analysis and Interpretation

Ratio analysis: Ratio analysis is a widely used tool of financial analysis. The term ratio in it refers to the relationship expressed in mathematical terms between two individual figures or group of figures connected with each other in some logical manner and are selected from financial statements of the concern. The ratio analysis is based on the fact that a single accounting figure by itself may not communicate any meaningful information but when expressed as a relative to some other figure, it may definitely provide some significant information. The relationship between two or more accounting figures is called a financial ratio helps to express the relationship between two accounting figures in such a way that users can draw conclusions about the performance, strengths and weakness of a firm.

Classification of ratios:
A) Liquidity ratios
B) Leverage ratios
C) Activity ratios
D) Profitability ratios

A) Liquidity ratios: These ratios portray the capacity of the business unit to meet its short term obligation from its short-term resources (e.g.) current ratio, quick ratio.

1) current ratio: Current ratio may be defined as the relationship between current assets and current liabilities it is the most common ratio for measuring liquidity. It is calculated by dividing current assets and current liabilities. Current assets are those, the amount of which can be realized with in a period of one year. Current liabilities are those amounts which are payable with in a period of one year.

\[
\text{Current assets} = \frac{\text{Current assets}}{\text{Current liabilities}}
\]

Current ratio:
Interpretation and Analysis: The above table and diagram shows that the current ratio in the year 2014-15 was 2.26 and then in increases to 3.38 in the year 2015-16, further move upwards to 3.80

ii) Liquid Ratio: The term ‘liquidity’ refers to the ability of a firm to pay its short-term obligation as and when they become due. The term quick assets or liquid assets refers current assets which can be converted into cash immediately it comprises all current assets except stock and prepaid expenses it is determined by dividing quick assets by quick liabilities.

\[
\text{Liquid ratio} = \frac{\text{Liquid assets}}{\text{Liquid liabilities}}
\]

<table>
<thead>
<tr>
<th>Year</th>
<th>Liquid assets</th>
<th>Liquid liabilities</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>47,782,491.51</td>
<td>20,073,088.54</td>
<td>2.38</td>
</tr>
<tr>
<td>2015-16</td>
<td>55,809,100.59</td>
<td>25,805,580.98</td>
<td>2.16</td>
</tr>
<tr>
<td>2016-17</td>
<td>54,831,547.34</td>
<td>20,615,801.31</td>
<td>2.65</td>
</tr>
</tbody>
</table>

Interpretation and Analysis: The above table and diagram shows the liquid ratio during the study period except in the year 2015-2016 is more than the normal (i.e.) 1:1. It was 2.38 in the year 2014-15 and reached the highest in 2016-17 to 2.65.

ii) Absolute Liquidity Ratio: Absolute liquid assets include cash, bank, and marketable securities. This ratio Obtained by dividing cash and bank and marketable securities by current liabilities.

\[
\text{Absolute liquidity ratio} = \frac{\text{Cash + bank +marketable securities}}{\text{Current liabilities}}
\]

<table>
<thead>
<tr>
<th>Year</th>
<th>Cash and securities</th>
<th>Current liabilities</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>1,002,474</td>
<td>27,943,268</td>
<td>0.03</td>
</tr>
<tr>
<td>2015-16</td>
<td>1,496,467</td>
<td>28,547,982</td>
<td>0.05</td>
</tr>
<tr>
<td>2016-17</td>
<td>332,231</td>
<td>23,128,596</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Interpretation and Analysis: The above table and diagram shows the absolute ratio for the study period 2014-15 to 2016-17. There is fluctuation in the absolute ratio. It was 0.03 in the year 2014-15. In 2015-16 and 2014-15 it was 0.05. It was 0.01 in 2016-17.

B) leverage ratios: Many financial analyses are interested in the relative use of debt and equity in the firm. The term ‘solvency’ refers to the ability of a concern to meet its long-term obligation. Accordingly, long-term solvency ratios indicate a firm’s ability to
meet the fixed interest and costs and repayment schedules associated with its long-term borrowings. (E.g.) debt equity ratio, proprietary ratio, etc.…

I) Debt equity ratio: It expresses the relationship between the external equities and internal equities or the relationship between borrowed funds and ‘owners’ capital. It is a popular measure of the long-term financial solvency of a firm. This relationship is shown by the debt equity ratio. This ratio indicates the relative proportion of dept and equity in financing the assets of a firm. This ratio is computed by dividing the total debt of the firm by its equity (i.e.) net worth.

\[
\text{Debt equity ratio} = \frac{\text{Outsider’s funds}}{\text{Proprietor’s funds}}
\]

<table>
<thead>
<tr>
<th>Year</th>
<th>Outsider’s funds</th>
<th>Proprietor’s funds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>21,220,083</td>
<td>53,331,692</td>
<td>0.40</td>
</tr>
<tr>
<td>2015-16</td>
<td>55,125,897</td>
<td>63,576,119</td>
<td>0.87</td>
</tr>
<tr>
<td>2016-17</td>
<td>40,741,814</td>
<td>65,810,599</td>
<td>0.62</td>
</tr>
</tbody>
</table>

Interpretation and Analysis: The above table and diagram shows the debt equity relationship of the company during the study period. It was 0.4 in the 2014-15 and then reached its highest in the next year and from there it began to slope downwards and ultimately came to 0.87 in the year 2015-16. In all the years the equity is more when compared with borrowings. Hence the company is maintaining its debt position.

II) Proprietary ratio: Proprietary ratio relates to the proprietor’s funds to total assets. It reveals the owner’s contribution to the total value of assets. This ratio shows the long-time solvency of the business it is calculated by dividing proprietor’s funds by the total tangible assets.

\[
\text{Proprietary ratio} = \frac{\text{Proprietor’s funds}}{\text{Total tangible assets}}
\]

<table>
<thead>
<tr>
<th>Year</th>
<th>Proprietor’s funds</th>
<th>Total assets</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>53,331,692</td>
<td>74,551,774</td>
<td>0.72</td>
</tr>
<tr>
<td>2015-16</td>
<td>63,576,119</td>
<td>118,702,016</td>
<td>0.54</td>
</tr>
<tr>
<td>2016-17</td>
<td>65,810,599</td>
<td>106,552,413</td>
<td>0.62</td>
</tr>
</tbody>
</table>

Interpretation and Analysis: The above table and diagram shows the proprietary ratio during the study period. In all the years the owner’s contribution to the total assets was appropriate and they maintain their share in the company’s assets. Except 2014-15 in all the years the proprietor’s contribution in to the total assets is more than the 2/3.

C) Activity ratios: These ratios evaluate the use of the total resources of the business concern along with the use of the components of total assets. They are intended to measure the effectiveness of the assets management the efficiency with which the assets are used would be reflected in the speed and rapidity with which the assets are converted into sales. The greater the rate of turnover, the more efficient the management would be (E.g.) stock turnover ratio, fixed assets turnover ratios etc.…

I) Stock turnover ratio: This ratio indicates whether investment is inventory is efficiently used or not it explains whether investment in inventories in with in proper limits or not. It also measures the effectiveness of the firms’ sales efforts the ratio is calculated as follows.

\[
\text{Stock turnover ratio} = \frac{\text{Cost of goods sold}}{\text{Average stock}}
\]

\[
\text{Opening Stock + Closing Stock} = \frac{\text{Cost of goods sold}}{\text{Average stock}}
\]
Stock turnover ratio:

<table>
<thead>
<tr>
<th>Year</th>
<th>Cost of goods sold</th>
<th>Average stock</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>147,163,123</td>
<td>4,186,860</td>
<td>35.14</td>
</tr>
<tr>
<td>2015-16</td>
<td>141,793,483</td>
<td>2,142,590</td>
<td>66.17</td>
</tr>
<tr>
<td>2016-17</td>
<td>154,284,918</td>
<td>4,065,741</td>
<td>39.08</td>
</tr>
</tbody>
</table>

Interpretation and Analysis: The above table and diagram shows the relationship between costs of goods sold and average stock. During the year 2015-16 it is 66.17% which shows higher position of cost of goods sold.

\[ \text{Stock turnover ratio} = \frac{\text{Cost of goods sold}}{\text{Average stock}} \]

\[
\begin{align*}
\text{Fixed assets turnover ratio} & = \frac{\text{Net sales}}{\text{Fixed assets}} \\
\text{Working capital turnover ratio} & = \frac{\text{Net sales}}{\text{Net working capital}} \\
\text{Total assets turnover ratio} & = \frac{\text{Total assets}}{\text{Net sales}}
\end{align*}
\]

\[ \text{Total assets turnover ratio} = \frac{\text{Total assets}}{\text{Net sales}} \]

Interpretation and Analysis: The above table and diagram shows the relationship between costs of goods sold and average stock. During the year 2015-16 it is 66.17% which shows higher position of cost of goods sold.

\[ \text{Fixed asset turnover ratio} = \frac{\text{Net sales}}{\text{Fixed assets}} \]

\[ \text{Working capital turnover ratio} = \frac{\text{Net sales}}{\text{Net working capital}} \]

\[ \text{Working capital turnover ratio} = \frac{\text{Net sales}}{\text{Net working capital}} \]

\[ \text{Total assets turnover ratio} = \frac{\text{Total assets}}{\text{Net sales}} \]

\[ \text{Total assets turnover ratio} = \frac{\text{Total assets}}{\text{Net sales}} \]
Total assets turnover ratio:  
\[
\text{Total assets turnover ratio} = \frac{\text{Net sales}}{\text{Net assets}}
\]

<table>
<thead>
<tr>
<th>Year</th>
<th>Total assets</th>
<th>Net sales</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>74,551,774</td>
<td>169,056,118</td>
<td>0.44</td>
</tr>
<tr>
<td>2015-16</td>
<td>118,702,016</td>
<td>173,896,782</td>
<td>0.68</td>
</tr>
<tr>
<td>2016-17</td>
<td>106,552,413</td>
<td>179,231,321</td>
<td>0.59</td>
</tr>
</tbody>
</table>

**Interpretation and Analysis:** The above table and diagram shows the relationship between the total assets to net sales. During all the study period years the relationship between sales to total assets is high. The ratio increased from 0.44 (2014-15) to 0.68 (2015-16) and then it was decreasing and reached to again 0.44 in the year 2014-15.

v) **Capital Turnover Ratio:** This is a ratio which shows how much sales are entertained from the capital. It shows how the sales are attracted from the Proprietor's Fund.

\[
\text{Capital turnover ratio} = \frac{\text{Sales}}{\text{Proprietor's fund}}
\]

<table>
<thead>
<tr>
<th>Year</th>
<th>Sales</th>
<th>Proprietor's funds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>169,056,118</td>
<td>53,331,692</td>
<td>3.17</td>
</tr>
<tr>
<td>2015-16</td>
<td>173,896,782</td>
<td>63,576,119</td>
<td>2.74</td>
</tr>
<tr>
<td>2016-17</td>
<td>179,231,321</td>
<td>65,810,599</td>
<td>2.72</td>
</tr>
</tbody>
</table>

**Interpretation and Analysis:** The above table and diagram shows the relationship between the sales and proprietors funds. In the year 2014-15 the ratio 3.17 and then it was decreasing and reached 2.72 in the year 2015-16 and again decrease to 2.72 in 2016-17.

vi) **Return On Total Assets:** Profitability can be measured in terms of relationship between net profit and total assets. It measures the profitability of investment. The overall profitability can be known by applying this ratio.

\[
\text{Return on total assets} = \frac{\text{Net profit}}{\text{Total assets}} \times 100
\]

<table>
<thead>
<tr>
<th>Year</th>
<th>Net profit</th>
<th>Total assets</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>10,699,894</td>
<td>74,551,774</td>
<td>0.144</td>
</tr>
<tr>
<td>2015-16</td>
<td>9,472,578</td>
<td>118,702,016</td>
<td>0.080</td>
</tr>
<tr>
<td>2016-17</td>
<td>231,044</td>
<td>106,552,413</td>
<td>0.002</td>
</tr>
</tbody>
</table>

**Interpretation and Analysis:** The above table and diagram shows the relationship between net profit and total assets in percentage. As the total assets were increasing year by year the net profit percentage was decreasing. The Net profit from the year 2014-15 is very less and in the year 2016-17 the company made a loss.

**D) Profitability ratios:** The profitability ratios of a business concern can be measured by the profitability ratios. These ratios highlight the end result of business activities by which alone the overall efficiency of a business unit can be judged, (E.g.) gross ratios, and Net profit ratio.
I) Gross Profit Ratio: This ratio expresses the relationship between Gross profit and sales. It indicated the efficiency of production or trading operation. A high gross profit ratio is a good management as it implies that cost of production is relatively low.

\[
gross\text{ profit ratio} = \frac{gross\text{ profit}}{net\text{ sales}} \times 100
\]

Interpretation and Analysis: The above table and diagram shows the relationship between the gross profit and net sales in percentage. During 2014-15 the gross profit position was 12.95% and in the very next year it slashed down to 9.29% and again raised to 13.92% and since then it was decreasing and finally reached the lowest to 6.70% in the year 2016-17.

ii) Net Profit Ratio: Net profit ratio establishes a relationship between net profit (after taxes) and sales. It is determined by dividing the net income after tax to the net sales for the period and measures the profit per rupee of sales.

\[
net\text{ profit ratio} = \frac{net\text{ profit}}{net\text{ sales}} \times 100
\]

Inference: The above table and diagram shows the relationship between net profit and net sales during 2014-15 it was 6.32% on sales and in 2015-16 it was 5.45. But in all other 3 years it is less than 1% and even negative in the year 2016-17. This means that either there is any defect in pricing the product or excess non-value added expenditures which reduces the net profit of the company. The sales of the organization are also decreasing and hence management must take care of the quality and market situations into consideration to resolve the issue so that it may bring good profits to the organization.

iii) Expenses Ratio: This ratio establishes the relationship between various indirect expenses to net sales.

a) Administrative expenses ratio:

\[
administrative\text{ expenses ratio} = \frac{administrative\text{ expenses}}{sales} \times 100
\]

b) Selling & Distribution expenses ratio:

\[
selling\text{ & distribution expenses ratio} = \frac{selling\text{ & distribution expenses}}{sales} \times 100
\]
Expenses ratio:

\[
\text{Expenses ratio} = \frac{\text{Administration expenses + selling expenses}}{\text{Sales}} \times 100
\]

**Expenses ratio:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Administration &amp; Selling expenses</th>
<th>Sales</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>28,296,402</td>
<td>173,896,783</td>
<td>16.27</td>
</tr>
<tr>
<td>2016-17</td>
<td>36,818,797</td>
<td>179,231,321</td>
<td>20.54</td>
</tr>
</tbody>
</table>

**Interpretation and Analysis:** The above table and diagram shows the relationship between the administration and selling expenses and sales. The administration and selling expenses during 2016-17 is very high when compared to previous year's % age as they were in between 13-20% of sales. This may also be one of the reasons to a net loss in that year.

**Findings**

1. The current ratio is more than 2% in all the first four years. But in 2014-2015 the current ratio is slightly lower than the normal. This shows that the company is enjoying credit worthiness.
2. The liquid ratio during the study period except in the year 2015-16 is more than the normal (i.e.) 1:1. Hence the firm is controlling its stock position because there is linear relationship between current ratio and liquid ratio.
3. There is fluctuation in the absolute ratio for all the years.
4. In all the years the debt equity is more, when compared with borrowings. Hence the company is maintaining its debt position.
5. The proprietary ratio during the study period to the total assets is more than the 2/3. During 2014-15 it is more than 50%.
6. During the year 2014-15 it is 66.17% which shows higher position of cost of goods sold. But at the same time during 2015-16 it is only 6.95.
7. The sales are 4 times more than the fixed assets 2009-10 and 2014-15. It is more than 3 times during 2015-16 and 2016-2017.
8. During all the years of study period the sales is 2 to 7 times more than the working capital.
9. During all the study period years the relationship between sales to total assets is high.
10. The Net profit from the year 2014-15 is very less and in the year 2015-16 the company made a loss.
11. During 2014-15 the gross profit position is 6.70%.
12. Net profit has been reduced from 100% to (0.25) %.
13. During the period of study, the total income was less than the total expenditure which is not good for the company.
14. Share capital has been increased in 2014-15 and after that it remained constant.

**Suggestions**

- The company's profit over the years has been decreasing when compared to previous years and even it incurred loss in the last year. The company must increase the profit in future. The company must take steps to increase the profit level.
- The Gross Profit ratio can be improved by increasing the gross profit and the factors decreasing the gross profit ratio should be thoroughly checked timely whether they are operating factors or any misleading factors.
- A Non-operating expense of the company is high. So the management should take necessary steps to reduce the non-operating expenses. The management should take steps to reduce the borrowed capital.
- Net fixed asset of the company has increased and even though they are not utilizing the enhanced technology to increase sales. So the management should take initiative steps for the proper utilization of the resources.
- The liquidity position of the company is quite satisfactory. And this must be improved further for the purpose of proper utilization of the liquid assets of the company.
- The cash ratio position of the company is not satisfactory for the last five years. It is fluctuating over the years and there is no standard ratio maintained. So the management should take steps to improving the cash position of the company.
- Debt equity ratio has not satisfactory for the past two years. So the company has enough scope for the more long-term borrowings from the outsiders as its current ratio is also good and has a sufficient amount of current assets.
• The sales of the organization can be further increased by improving the quality through optimum utilization of company's resources (i.e. assets, raw materials, credit system, etc.) and that in turn will increase the overall profits of the organization.
• The Management must find out the reasons for the decrease in sales and must take appropriate measures.
• The Management must also study the market position and it also find the demand prevailing in the market for the products and thus this will guide them to enhance their sales volume.

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