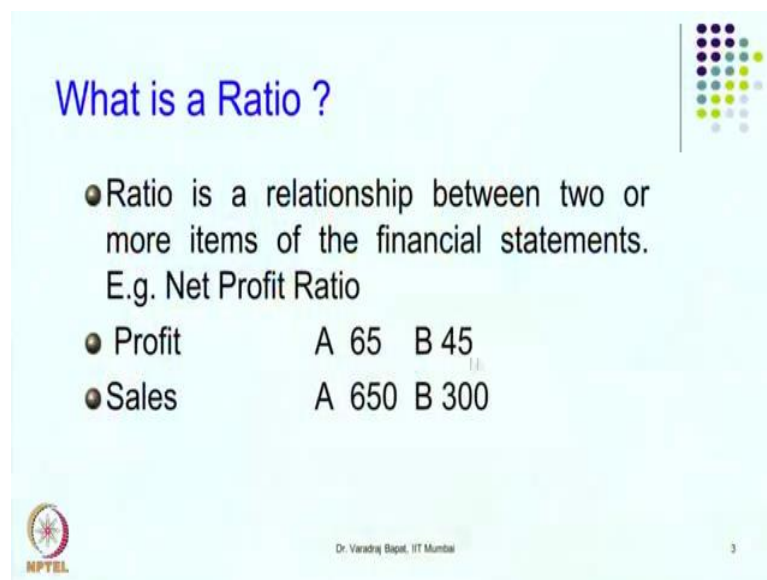


**Financial Accounting**  
**Prof. Varadraj Bapat**  
**School of Management**  
**Indian Institute of Technology, Bombay**

**Lecture - 30**  
**Ratio Analysis and Interpretation 1**

Namaste. In our last session we had started discussion on analysis of financial statement and its interpretation. So, financial statements give vast amount of data, different users can extract the relevant information. So, they may either go for horizontal statement, vertical statement or benchmarking. The most important technique for analysis is Ratio Analysis where variety of ratios are calculated.


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**What is a Ratio ?**

- Ratio is a relationship between two or more items of the financial statements.  
E.g. Net Profit Ratio

Profit	A 65	B 45
Sales	A 650	B 300

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So, last time we had seen these example that if you want to know about profitability only comparing the profits does not give a fair picture. We want to know the profit as a percentage of sales then we will have to calculate the ratio known as net profit ratio. So, we will know that company B has more profitability than that of A as a percentage of sales. There are variety of ratios which are calculated because different stakeholders want different type of information.

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## Ratio Analysis - Advantages

**Ratios** help stakeholders (like owners, managers, investors, lenders, employees) to draw conclusion about the

- Performance (past, present and future)
- Strengths & weakness
- And take decision in relation to the firm



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Now, the ratios are useful for knowing the strengths and weaknesses of the company, they are also useful for taking decisions, they are also useful for knowing the performance. Now, the importance of ratios is that the financial statements tell you about the present and the past, but the ratios can be used even to project the future. So, we can make certain assumptions, look for the past trends and make the projections for the future that is an advantage of the ratios.

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## Types of Ratio

The ratios can be classified into following four broad categories:

- 1) Liquidity Ratios
- 2) Capital Structure/Leverage ratios
- 3) Activity Ratios
- 4) Profitability Ratios
- 5) Return Ratios

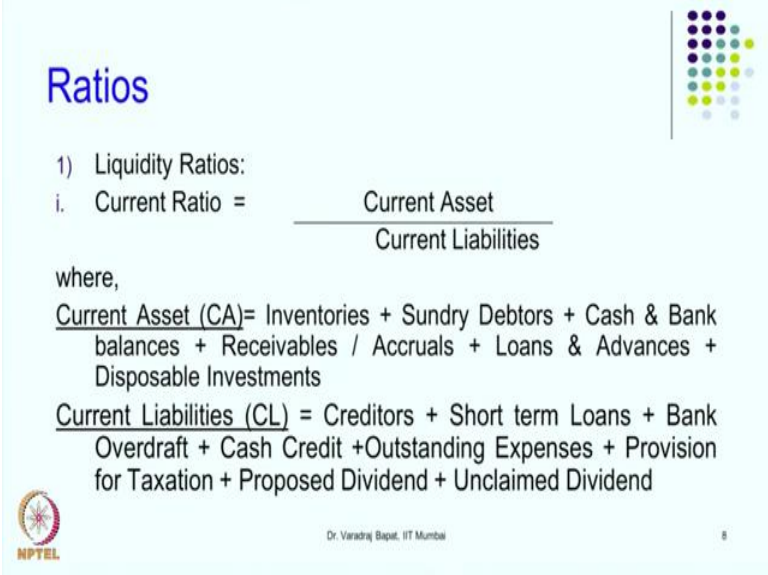


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Now, in our last session we had started discussion on first two type of ratios that is liquidity and capital structure.

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**Ratios**

1) Liquidity Ratios:

i. Current Ratio =  $\frac{\text{Current Asset}}{\text{Current Liabilities}}$

where,

Current Asset (CA) = Inventories + Sundry Debtors + Cash & Bank balances + Receivables / Accruals + Loans & Advances + Disposable Investments

Current Liabilities (CL) = Creditors + Short term Loans + Bank Overdraft + Cash Credit + Outstanding Expenses + Provision for Taxation + Proposed Dividend + Unclaimed Dividend

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Within liquidity current ratio is the most important ratio which is used extensively, here we want to know whether company has enough current assets to pay for its current liabilities.


$$\text{Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

where,

Current Asset (CA) = Inventories + Sundry Debtors + Cash & Bank balances + Receivables / Accruals + Loans & Advances + Disposable Investments


Current Liabilities (CL) = Creditors + Short term Loans + Bank Overdraft + Cash Credit + Outstanding Expenses + Provision for Taxation + Proposed Dividend + Unclaimed Dividend

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## Ratios

A generally acceptable current ratio is 2:1.  
But whether or not a specific ratio is satisfactory depends on the nature of business and characteristics of its CA and CL.




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So, ratio normally is considered to be 2 is to 1 to be acceptable, but it can considerably change from industry to industry. General idea is we should have enough of current assets to meet the current liabilities and avoid any default or bankruptcy. Now, a more conservative measure of this ratio is quick ratio, where we calculate quick assets to quick liabilities. Then we had started looking at the long term liquidity of the company for that we calculate the capital structure ratios.

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## Ratios

1) Equity ratio:  
This ratio indicates proportion of owners fund to total fund invested in the business.

$$\text{Equity Ratio} = \frac{\text{Shareholder's Equity}}{\text{Total Capital Employed}}$$


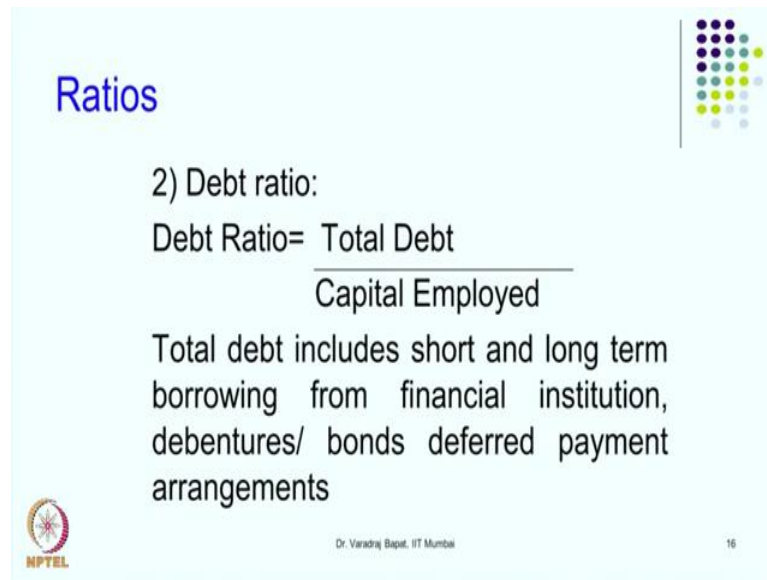
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So, we know that there are two important funding sources one is a equity other is a debt.  
So, equity ratio we seek to calculate equity as a percentage of capital employed.

$$\text{Equity Ratio} = \frac{\text{Shareholder's Equity}}{\text{Total Capital Employed}}$$

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- 2) Debt ratio:
- Debt Ratio =  $\frac{\text{Total Debt}}{\text{Capital Employed}}$
- Total debt includes short and long term borrowing from financial institution, debentures/ bonds deferred payment arrangements

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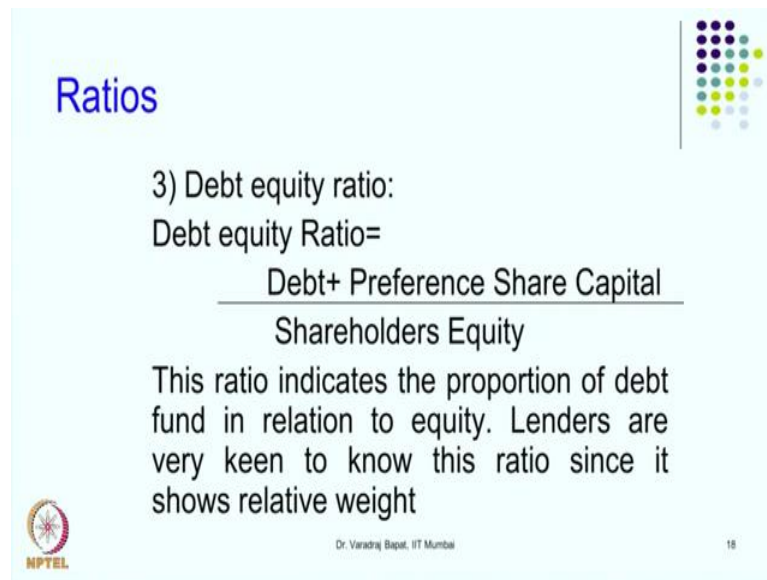
In debt, debt as a percentage of capital employed.

$$\text{Debt Ratio} = \frac{\text{Total Debt}}{\text{Capital Employed}}$$

Where,

Total debt includes short and long term borrowing from financial institution, debentures/ bonds deferred payment arrangements

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## Ratios

3) Debt equity ratio:

Debt equity Ratio =

$$\frac{\text{Debt} + \text{Preference Share Capital}}{\text{Shareholders Equity}}$$

This ratio indicates the proportion of debt fund in relation to equity. Lenders are very keen to know this ratio since it shows relative weight

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And, the debt equity ratio which is perhaps is the most common and extensively used; debt is calculated as a percentage of equity. But, while calculating the ratio in the numerator we take debt plus preference share capital. Keep in mind actually normally shareholders equity includes preferential capital, but for the purpose of this ratio we deduct it from the denominator and add it to the numerator because, though it is a shareholders funds it is repayable within 5 to 10 years. So, it has acquired a nature like debt. So, we add debt plus preference capital and divide it by shareholders equity minus the preference capital got it.

$$\text{Debt equity Ratio} = \frac{\text{Debt} + \text{Preference Share Capital}}{\text{Shareholders Equity}}$$

So, debt equity ratio is a very important ratio where the bankers are extensively interested. In fact, no loan is granted by any bank unless they calculate debt equity ratio. How much debt equity ratio is acceptable? Suppose you want to buy a vehicle of 10 lakhs, how much loan bank will give any idea normally, how much loan banks give? Banks normally say that we will finance 75 percent of vehicle; that means, what debt equity ratio they are looking for? From 10 lakhs they will give 7.5 lakhs and owner has to put in 2.5 lakhs.

So, what is the debt equity ratio? 7.5 by 2.5; that means, acceptable debt equity ratio is 3 like that Reserve Bank of India and the regulators fix the maximum debt equity ratio

which bank can give and individual banks also decide the maximum. And, again from case to case basis they can vary it a bit normally they bring it down. Suppose, the borrower is not very sound as does not have a very strong position they can also say that out of 10 lakhs we will finance only 6 lakhs. Then what will be the debt equity? 6 by 4; that means, it becomes 1.5. So, norm is 3, but they can bring down maximum financing as per the requirement.

So, debt equity ratio is a very important ratio which is looked by banker while sanctioning any loan proposal. Other lenders also see it like non-banking companies or leasing companies many times if a company wants to make a credit sale, they check the customers debt equity ratio. Because, will the customer be able to repay that loan for that both current ratio is also important, debt equity ratio is also important. In a short term transaction current ratio is given more weight, for a long term debt equity is given more weight.

This debt equity ratio also changes from the nature of project or the asset financed. For example, as I told you for a vehicle normally bank gives 75 percent loan. So, the debt equity ratio is how much? 75 by 25 means 3 is to 1. For a housing loan, let us suppose you are buying a house of 1 crore, how much loan bank will give? Normally, bankers finance 80 percent of house or even more sometimes, but if they finance 80 percent; that means, 80 lakhs banks will give 20 lakh the borrower will give.

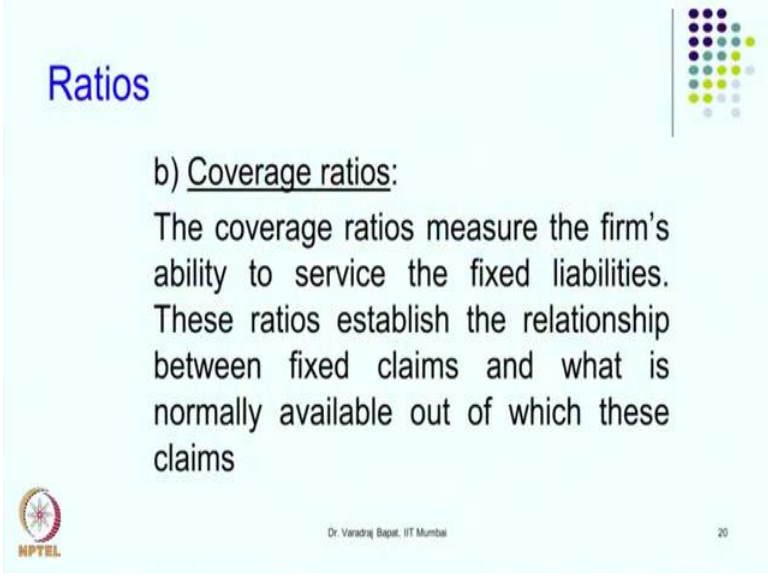
So, what is the debt equity ratio? 80 by 20 means it is 4 is to 1, many times bankers even finance 85 percent; that means, 85 by 15. So, it is almost the ratio of 5.5 or 6. So, house is considered to be much more safer as it than vehicle. So, they are willing to go for higher debt equity ratio, are you getting me? Suppose some infrastructure project to be started like construction of road or construction of railways, will the debt equity ratio be higher or lower?

The debt equity ratio for such long term projects is much higher, it can be 6, 10, 15 also sometimes for railways because, the returns from these assets are going to come over a longer period of time. And these are much more safer and stable assets, bankers do give much more debt equity ratio. Have you heard of subprime problem in U.S.? There was very big crisis in 2008 known as subprime crisis.

In subprime crisis bankers gave lot of loans to those borrowers which were subprime, subprime means of lower quality. Bankers went on giving more and more debt equity ratio that created very big problems of non-performing assets that is known as subprime crisis. Those who are interested you can type subprime crisis in Google, lot of articles will come and you will get more information right now we will not discuss more about it, but what I am trying to tell is debt equity ratio is very important. If the debt equity ratio is violated by bank, bank start giving more debt equity ratio it going it gives a problem to the bank in the long run.

It also creates problem to the company, if the debt equity ratio is high because you are taking more and more risk when you are going for more and more debt. The company's which has stable assets like more land and building can have more debt equity ratio. But, if companies are like service sector companies or it companies they must have lower debt equity ratio. For example, many it company like Infosys in fact, are called as 0 debt company, they have no debt at also. So, 0 debt equity ratio is a basis they go for later on we will see some cases of the companies. Now, the next type of ratios are known as coverage ratios.


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**Ratios**

b) Coverage ratios:


The coverage ratios measure the firm's ability to service the fixed liabilities. These ratios establish the relationship between fixed claims and what is normally available out of which these claims

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We were discussing about the bankers so, bankers want to decide on maximum debt equity ratio, but they also look at whether the interest which is going to be repaid is covered by the income or earnings of the company.




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## Ratios

are to be paid. The fixed claims of:

- i) Interest on loans
- ii) Preference Dividends
- iii) Repayment installment of loans




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Now, the fixed claims are like interest on loan or preference dividend or the repayment of instalments. So, important ratio which is mainly considered by bankers is debt service coverage ratio.

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## Ratios

1) Debt Service Coverage ratios=

$$\frac{\text{Earnings available for debt service}}{\text{Interest + Installments}}$$

Earnings for debt service= Net Profit + Non cash operating expenses like depreciation and other amortisation +



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So, the numerator is earnings available for debt service upon interest plus instalment. So, normally net profit is available plus some non-cash expenses like depreciation are added and some adjustments may be made for loss on sale of assets and interest on debts. So,

this much is a money available is kept as a numerator and the instalment to be paid and including the interest is to be kept as a denominator.

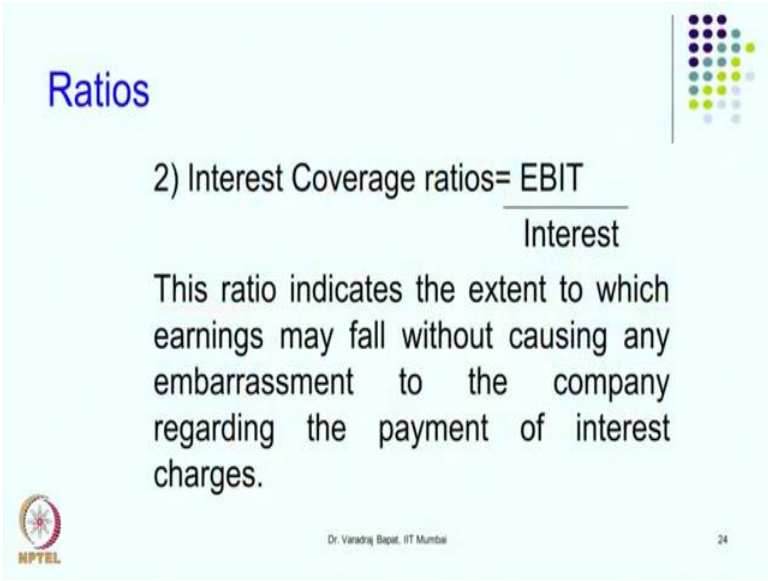
$$\text{Debt Service Coverage ratios} = \frac{\text{Earnings available for debt service}}{\text{Interest} + \text{Installments}}$$

Where,

Earnings for debt service= Net Profit + Non cash operating expenses like depreciation and other amortisation

So, bankers here we know that how many times the earning is available for repaying their instalment whether the company has capacity to make the repayment on time ok, that is a debt service coverage ratio. Same way one can also calculate interest coverage ratio. So, whether the company will be able to at least repay interest for that normally the numerator is a bit or profit before interest and tax divided by interest good.


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**Ratios**

2) Interest Coverage ratios=  $\frac{\text{EBIT}}{\text{Interest}}$

This ratio indicates the extent to which earnings may fall without causing any embarrassment to the company regarding the payment of interest charges.


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$$\text{Interest Coverage ratios} = \frac{\text{EBIT}}{\text{Interest}}$$

Where,

EBIT= Earnings before interest and tax


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## Ratios

non-operating adjustments like loss on sale of fixed assets + Interest on debt funds

Lenders are interested in debt service coverage to judge the firm's ability to pay off current interest and instalments.




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So, higher ratio both the debt service and interest coverage if the ratio is higher; that means, there is a good coverage available for repayment of interest or instalment; that means, the chances of default are less. So, bankers normally insist on at least the minimum debt coverage ratio which they want to emphasize on.


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## Ratios

3) Preference dividend Coverage ratio = 
$$\frac{\text{EAT}}{\text{Preference dividend liability}}$$

This ratio measures the ability of a firm to pay dividend on preference shares which carry a stated rate of return.



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$$\text{Preference dividend Coverage ratios} = \frac{\text{EAT}}{\text{Preference dividend liability}}$$

Where,

EAT= Earnings after tax

Same way, preference shareholders will be interested to know the coverage for their dividend that is why preference dividend coverage ratio; now the preference dividend can be paid only after paying interest and taxes. So, numerator now we have taken EAT or you can also call it PAT: Earning After Tax or Profit After Tax divided by preference dividend liability.

So, if the profit after tax is sufficient, the company will be able to pay the dividend as per the contracted terms. So, the coverage is seen in this ratio. Now, there is one important ratio known as capital gearing ratio.

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The slide is titled "Ratios" in blue text. It features a decorative graphic of colored dots in the top right corner. The main content is the formula for the Capital Gearing ratio, presented as follows:

$$\text{4) Capital Gearing ratio} = \frac{\text{Preference Share Capital} + \text{Debenture} + \text{Long Term Loan}}{\text{Equity Share Capital} + \text{Reserves \& Surplus} - \text{Losses}}$$


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$$\text{Capital Gearing ratio} = \frac{\text{Preference Share Capital} + \text{Debenture} + \text{Long Term Loan}}{\text{Equity Share Capital} + \text{Reserves \& Surplus} - \text{Losses}}$$

This is very similar to debt equity ratio which we discussed earlier. So, in the numerator we consider the preference capital plus debt and the denominator we see the owners fund that is equity capital plus reserves minus any possible losses. So, here also if the ratio is higher the company is considered to be more risky or it can also be calculated for a

particular project, if the ratio is higher the project is considered to be risky; you need to a balance too high ratio is to be avoided.


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## Ratios

3) Activity Ratios:

Activity ratios are also called as Turnover ratios or Performance ratios. These ratios are used to evaluate efficiency with which the company manages and utilises its assets.




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Now, the next type of ratios are known as activity ratios. They are sometimes also called as efficiency or performance or turnover ratios because, here we calculate how better or how efficiently the company is able to utilise their assets.

Now, the assets are being used mainly for generating sales. So, a comprehensive ratio for this is capital turnover ratio.

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## Ratios

a) Capital Turnover Ratio=

$$\frac{\text{Sales}}{\text{Capital Employed}}$$

This ratio indicates the firm's ability of generating sales per rupee of long term investments.



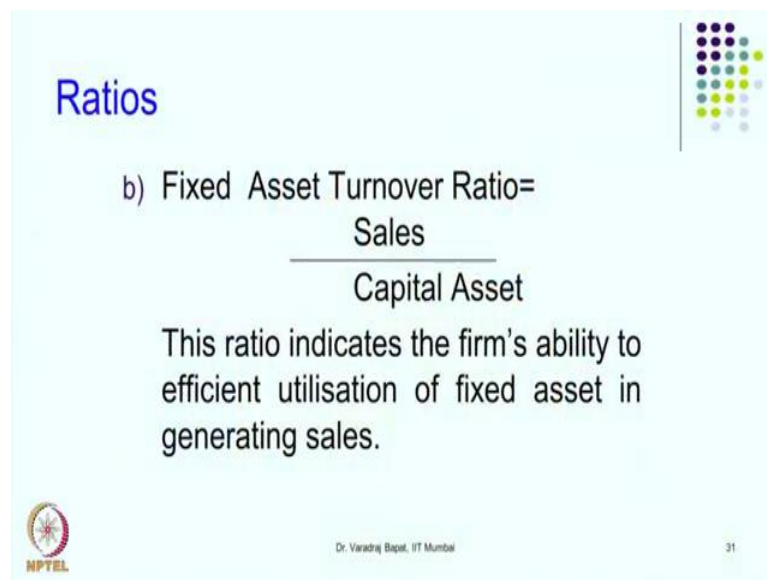
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$$\text{Capital Turnover Ratio} = \frac{\text{Sales}}{\text{Capital Employed}}$$

Now, we employ the capital in business to generate the sales. So, we are calculating sales upon capital employed. A company which is efficient will be able to sell more and more using lesser capital right. So, higher the ratio is preferable, higher ratio means they are able to generate more turnover and most likely their profits also will be high ok. So, to do it over all for all the assets taken together we calculate capital turnover ratio. Other popular ratio is fixed asset turnover ratio.

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**Ratios**

b) Fixed Asset Turnover Ratio =  $\frac{\text{Sales}}{\text{Capital Asset}}$

This ratio indicates the firm's ability to efficient utilisation of fixed asset in generating sales.

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$$\text{Fixed Asset Turnover Ratio} = \frac{\text{Sales}}{\text{Capital Asset}}$$

So, sales again in the numerator, the denominator we are taking fixed assets or capital assets. So, what are the long term assets used by the company and how much sales they are able to generate. This shows the efficiency in utilisation of fixed assets, this can be also calculated for individual asset, either it can be calculated for the whole company, it can be calculated for a particular project or a plant, it can even be calculated for a single asset.

If that asset is able to generate the revenue just see how efficiently you are using the asset. Let us consider a simple example, suppose there is a auto rickshaw driver, he or she as a auto rickshaw let us say the cost of rickshaw is 4 lakhs. He is able to generate a daily turnover of say 1000 rupees, what will be the fixed asset turnover ratio? Just calculate daily turnover of 1000 rupees, normally rickshaw cannot be used for the whole year; let us say it is used for 300 days in a year.

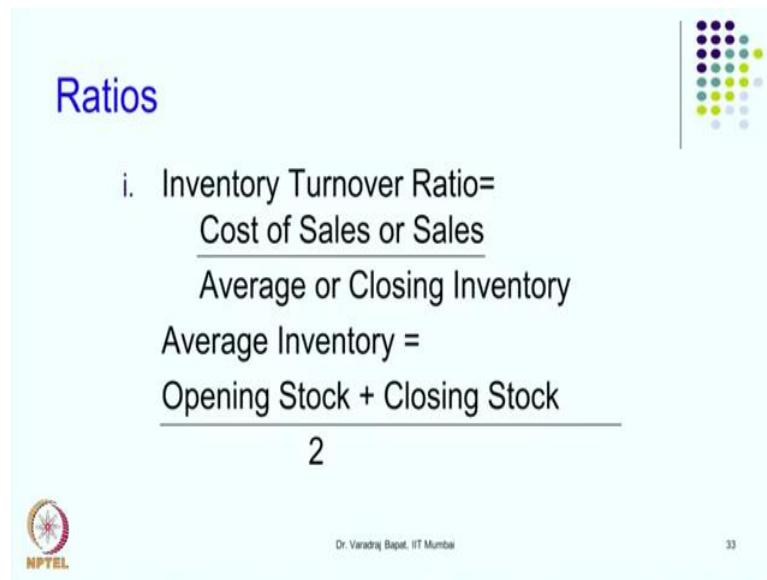
What will be the turnover? 300 in to 1000; that means, 3 lakhs is a turnover and the value of fixed asset was 4 lakhs. So, 3 by 4; that means, in the year the ratio is less than 1; assuming that this rickshaw is operated in a single shift of 8 hours turnover generated was 1000. The ratio is 3 lakhs upon 4 lakhs or 3 by 4, now if the same rickshaw is operated in 2 shifts so, 1000 in the morning 1000 in afternoon.

So, now the turnover has doubled, what will be the ratio? So, 1000 plus 1000 means 2000 in a day into 300 days so, 6 lakhs divided by 4 lakhs. So now, you can see earlier the ratio as 0.75, now it has become 6 by 4 that is 1.5. So, the efficiency of use of asset has improved, I am just giving a simple example that it can also be calculated for one single auto rickshaw because, one asset is able to generate the turnover, same way it can be done at various levels.

Now, generation of turnover is very important for success of company because, that is what is going to give you profits, that is why this ratio is very important for the ability of the business to generate the sales. Now, just like fixed asset we can also see how efficiently business is using working capital. So now, it is sales upon working capital that is current asset minus current liability. So, are they effectively using their working capital, higher the ratio will be good because that shows a more or a bad more efficiency of the company.

Now, this ratio is very interesting because if you want to study the working capital management of the company these ratio is now subdivided into inventory turnover, debtors turnover and creditors turnover.


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**Ratios**

i. Inventory Turnover Ratio =  $\frac{\text{Cost of Sales or Sales}}{\text{Average or Closing Inventory}}$

Average Inventory =  $\frac{\text{Opening Stock} + \text{Closing Stock}}{2}$

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$$\text{Inventory Turnover Ratio} = \frac{\text{Cost of Sales or Sales}}{\text{Average or Closing Inventory}}$$

Where,

$$\text{Average Inventory} = \frac{\text{Opening Stock} + \text{Closing Stock}}{2}$$

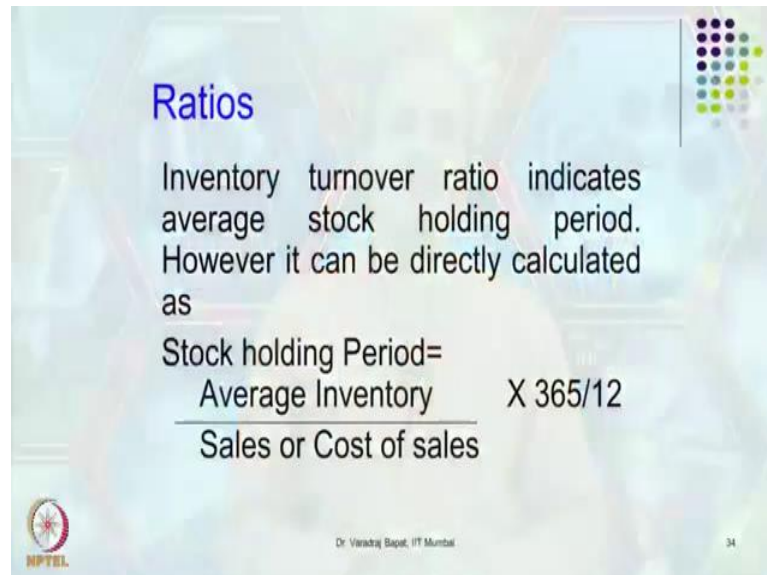
Now, this is about the inventory turnover because, there will be different units or departments in the company looking after the stock management, debtors management, creditors management. So, we can know the efficiency of each part of the business. The first one here we are looking for is inventory turnover over. Now, either we can take sales upon inventory, but more sophisticated would be cost of sales because you know inventory is recorded at cost. So, numerator also will take at cost of sales instead of just taking the closing inventory it will be better if we take average inventory because, we know that on an average how much is a stock and how much is a sales generated.

So, cost of sales upon average inventory is the better or improved formula getting it. Now, the same formula can be also converted to number of days to make it more meaningful. Suppose, a company has let us say a turnover of 4 lakhs and has debtors of 40,000 what will be the ratio; sorry, as an inventory of 40,000 and turn over of 4 lakhs



so, 4 lakhs upon 40,000. So, ratio is 10; inventory turnover ratio is 10, but it can be also calculated in terms of number of days. Now, can you calculate it in number of days?

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**Ratios**

Inventory turnover ratio indicates average stock holding period. However it can be directly calculated as

$$\text{Stock holding Period} = \frac{\text{Average Inventory}}{\text{Sales or Cost of sales}} \times \frac{365}{12}$$

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$$\text{Stock holding Period} = \frac{\text{Average Inventory}}{\text{Sales or Cost of sales}} \times \frac{365}{12}$$

How much was inventory? 40,000, sales was 4 lakhs; now 40,000 upon 4 lakhs instead of doing 4 lakh upon 40 which was 10 we are doing 40,000 upon 4 lakhs; that means, 1 by 10 multiplied by 365 days. So, you will get 36.5, now this is in terms of days, now you can I think understand it better. So, company on an average holds inventory of 36.5 days.

Now, we can compare it with their inventory policy, If there policy is to keep one month stock; that means, stocks should have been 30 days, but actually they are having 36.5 days. So, we can compare their policy with the actual and accordingly take the decisions for improving the efficiency. Now, the same ratio can be calculated for debtors.

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## Ratios

ii. Debtors Turnover Ratio=

$$\frac{\text{Credit Sales}}{\text{Average Accounts Receivables}}$$

This ratio throw light on the collection and credit policies of the firm.




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$$\text{Debtors Turnover Ratio} = \frac{\text{Credit Sales}}{\text{Average Accounts Receivables}}$$

For debtors what will be the formula? It is sales upon debtors or accounts receivables, but since accounts receivables are only applicable to credit sales we can improvise it by taking the numerator as credit sales and divide it by average accounts receivable.


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## Ratios

Debtors turnover ratio indicates average collection period. However it can be directly calculated as

Debtors velocity=

$$\frac{\text{Average Debtors} \times 365/12}{\text{Credit Sales}}$$


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$$\text{Debtors velocity} = \frac{\text{Average Debtors}}{\text{Credit Sales}} \times \frac{365}{12}$$

Same ratio like stock we can convert it into terms of number of days that is also known as debtors velocity. So, instead of having debtors turnover in number of times it is better understood if we go for number of days. Suppose the sales of the company is 10 lakhs and they have receivables of 2 lakhs, now what will be their ratio 10 lakh by 2 lakhs so, how much is the ratio? 5. Now, in terms of days how much it is? 2 lakhs by 10 lakhs; that means, we get 1 by 5 into 365. So, how much it will be?

If it is more than 70 days, around 70 to 75 days roughly 72 days we can say is the debtors, now you can really understand the gravity of the situation. Suppose, their policy is to have credit for 30 days, they must have collected in 30 days at least in 30 to 35 days. But, here they have debtors for 72 days means almost more than a double their policy; that means, their debtors management system is not efficient. So, for managers they would continuously calculate this ratio and try to improve their performance. Will it be useful to investors also or the shareholders also or the auditors also?



Answer is yes, because auditors or shareholders will also calculate this ratio when they come to know that the policy of the company is 30 days, but the ratio is 72 days what does it mean? There is every possibility that the debtors which the company as shown has lot of wrong entries or false entries or there is a windowing dressing, there is a over statement of debtors. So, we would try to investigate to find out the nature of debtors. There are more ratios also like aging statements. So, we will try to find out that how many days that debtors are still there with the company; like that lot of hints can be there further investigation in that. Now, the next ratio is creditors turnover ratio.

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## Ratios

iii. Creditors Turnover Ratio = 
$$\frac{\text{Credit Purchase}}{\text{Average Accounts Payables}}$$

This ratio shows the velocity of the debt payment by the firm. This ratios reflect the credit terms granted by creditors.



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$$\text{Creditors Turnover Ratio} = \frac{\text{CreditPurchase}}{\text{Average Accounts Payables}}$$



So, normally we take sales upon that item, but since creditors are related to purchases, we take purchases particularly we will take credit purchases. So, credit purchase upon average accounts payable.

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## Ratios

Average payment period can be calculated as

Creditors Velocity = 
$$\frac{\text{Average Creditors}}{\text{Credit Purchases}} \times \frac{365}{12}$$



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$$\text{Creditors velocity} = \frac{\text{Average Creditors}}{\text{CreditPurchases}} \times \frac{365}{12}$$

So, here also we can convert it into number of days and know within how many days we are repaying. Suppose our normal policy is to have a credit of 30 days, but we are repaying in only 20 days; we will have to check whether we are getting any discount for early repayment or where our people are unnecessarily paying before time. Or, if it is too long, investors will be interested in knowing whether there is any problem with the company; That they don't have cash on time therefore they are not repaying or whether their purchases are dummy, they are showing some wrong figures in purchase, but do not pay in time. So, this ratio is also important.

So, we have now covered the liquidity ratios, then we have also discussed the ratios like debt equity which were about stability and now we have discussed the ratios on efficiency. In the next session we will go for next round of ratios. Namaste.