#### Ratio Analysis

determining and Ratio analysis is the possess of interpreting numerical gretationships based on final statement. by computing grations. It is easy to understand the financial position of the firm. Ratio analysis is used to tocus on financial issue such as liquidit ponofitability and solvency of a given firm.

Ratio is a simply a number exporessed in teams one fears to the numerical on quantitative grelationship byn two variables which owne comparable. It is an expression devived by dividing vousiable by the other it is statistical measure that provides an insight into the grelationship bln two variables. Ratios used siightly may even develop understanding and stimulate thinking. Ratios can be Expressed in teams of peropotions and quoties oilso. Later to the state of

### Types of Ratios

Based on their nature, the gratios can broadly be clasified into four categories. The number of Ratios are their. mainly five ratios in bellow.

- 1 Liquidity ratio @ ponofitabulity ratio
- 3 Activity ratio (4) solvency ratio (01)
  - Leverage ration/ Morket stractur ratio)
  - 6 Ponofirator ratio.

## Liquidity ratio :=

Liquidity ratio measure the ability of a company to repay its short-team debts and meet unexpected cash needs. Their and 3 types.

- O current ratio (2:1)
  - 2 Quik | Liquidity ratio. (1:1)
- Absulut Liquidity (1:2) super quik ratios.

#### cusionent ratio := ニン

The current ratio is also called of the working capital ratio. as working capital is different b/n current Assets & current liabilities. This ratio measures the ability of a company to pay its current obligations using current assets. The current ratio is calculated by dividing current assets by current liabilities.

This ratio indicates the company has made current assets than current liabilities.

=> caliculate Liquidity Ratios from Balens sheet

Liabilities	Amount	Assets	Amount
share capital	1,00,000	fined Asset	2,50,000
Preference capital	1,00,000	stock of Row meteria	450,000
reserve	2,00,000	goods	1,00,000
pebentures	the second	debtors	1,00.000
sundry coreditors	1,00,000	Bank balance	20,000
Bills paybles	50,000	With the state of	FF-Ord
EH B	6 1201000	Marian State	6,50,000
	132,12	Contract to	

```
=> current Ratio =
                            current Liability.
       current asset
     stock of Raw metionial = 1,50,000
                             1,00,000
          finished goods
                            = 1,00,000
        debtors
                           20,000
        Bank balance
                           4,00,000
             To tal
       current Liability
                              4,00,000
       sundry debtors =
                                50,000
          Bills paybule
                               1,50,000
                   Total =
   current Ratio =
                               current Liability
                               4100,000
                                1,50,000
                                 2.67:1
> Quick Ratio :=
                                       Q. L = 1,50,000
                       as Assety
       Duick Ratio = B. Liabilities.
    Duick Assets = current Assets - stock
                  = 4,00,000 - 2,50,000
                    = 1,50,000
                   1,50,000
                            = 1.1
```

OUR =

1150,000

Abs. Liquid Assets Absolute Liquid Ratio = Mas Liabilities.

\* Liquid Assets meanice exceetly pay to cosh book

Bills payble = 50,000 sundry creditors = 1,00,000 Total = 1,50,000

bank ballence = 50,000 from Assets side.

1,50,000 4 1 = 10.33:1

(2) Profitability ratios

\* Profitability natios throw light on how well the firm is organising it's activities in a Ponofitable maner. \* The owners expect greasonable grate of greturn their investment. The firm should generate enough porofit not only to meet the expectations of the owners but also to finance the expansion activities. The following agre the eight ratios most commonly

used to Emplan Ponotiterbility. Profital ratios used propeoply

peopled in overal time of \* Gross perofit ratio

He profilesoning more \* Net parofit ratio

operating ratio

- (4) Return on investment (ROI)
  - (i) Return on capital Employed.
  - (ii) Return on equity.
- (5) Earnings peur share (EPS)
- Dividend yield. (6)
- (7) ponice l eavinings ratio (pleratio)
- Earning power. (8)

Cross porofit ratio Ps the ratio bln grass profit to sales during a given peopled. It is expressed in terms of pericentage. Grass porofit is the different bln the net saled and the cost of goods sold.

suppose the Net sales is 50,000 for a firm and Cost of goods sold & Rs 20,000. The gross profit ratio is problem

calculated as bellow.

Cross profit= sales - cost of the goods sold goods sold = 20,000

Chross profit= sales = 
$$50,000 - 20,000$$

GPR =  $\frac{ap}{N \text{ sales}} \times \frac{100}{1000} = \frac{30,000}{1000}$ 

In other words. 60% of its sales is the gross profit.

Net parofit ratio Ps the ratio bln net profits after taxes and net sales. It indicates what portion of sales is left to the owners after openating expenses. Non - openating income such as interest on investments. Net profit after tames

suppose the net sales is 50,000 for a firm and cost Problem of goods gold is RS 20,000. The details of Expensess owne as given bellow, Maria II w

-Administration Eupensey RS 3000 selling and and Pstribution Emp 13 4000 Loss on sales of fixed asset PS 3000 RS 2000 Interest on investment Tan 20%

John van all twee dear

```
computation of Net porofits
                                       in (R8)
                         500,000
  sales
                         20,000
  Less cost of goods sold
                                      30,000
   Circuss Profit
                          40,00
  less administration expensess
                           4000
  selling and Distr. Expensess
                                      8000
                                     22,000
      Net Profit
  Add: Interest on investment
                                     24 1000
      ( Non operating incom)
                                    (-) 300D
  Less: Loss on sales of Assets
                                       21,000
                             42100
     Tames 20%.
                        Net Profit = 16,800
  Net Profit = 16,800 × 100
                30,000
               = 33.67.=1 way 12 42 27 61 84 and
The highest the net porofit ratio
 The bln is the parofitability and vice-versa.
          natio is widly used as a measer of
          parofitability. It should be used along
 Thes
  with openating ratio for bin intemporetation.
      openating ratio Ps the ratio bln costs of goods
 operating Ratio :=
 sold plus operating expensess and the net sales
 This is expressed as a pearcentage to net
```

sales.

The higher the openating gratio. the lower is the profitability and vice vensu.

operating expenses x100 openating ratio= Net sales

openating Expenses = cost of goods sold + Administrative expenses selling and distribution

Ex:= Administrative expensess cover all ofice and management Expenses such as salasies, office rent, insurance, direct fee. legal Expenses, and so on. selling and distribution expenses include salatiles to sales staff, adventising, travelling Expenses. cost of samples and so on.

Net sails = sales less/ sales returns.

-> In intempreting operating ratio, the possibility of variation in Expenses from years to years or company to company due to change in policies should be considered.

Profitability (1) = (100- operating ratio 1.)

Total Eupenses = 3,215,000 defreciations = 75,000

Intrest Enpency = 125,000

Net sales = 4,215,000

3,215,000 - 75,000 - 125,000 OPR= 4,215,000

operating Profit Ratio = Cross Posofit - office and admini

problem

sales returns 1,500

cost of sals 37,500

office and Admin Expe 37,500 2,250

Salling and distibut Experson

Salling and distibut Exper

In come from investmen 53,400

 $opr = \frac{221500 - 21250 - 3,900}{601000} \times 1000$ 

= 27.25%

working nots

arross frofit = Net Saley - Cost of Saley = (61,500 - 1,500) = 34,500

= 22,500

=> Return on investment (ROI) &=

Return on investment is one of the very important parameters affecting business plans. The profitability of the firm is measured in teams of return on investment.

Net Profit After Taxes total investment. ROI =

# Return on capital employed (ROCE)

This is a widely used ratio. This is the only Satisfactory measure which greveals the overall peorformance of a firm in teams of possitiability.

ROCE = (Adjusted net parofits/ capital Employed)

## Return on equity (ROE)

This relates the net ponofits available to earnity shareholders to the amount invested by them. The higher the ROE is the more is the profitability and vice veorsa.

ROE = ( Net profits - dividends to preference sharehol

Eauity Share capital

This ratio is compared with that of other companies The eavity shaneholder can lake a decision to swich over from one company to the other by selling the shares based on this rotio.

RO'I % = 0% meance -) Break even.

It you boy DRJ -> selle DRJ NO change No profit It is the Break even Analysis we were adjusted net porofits refer to

any abnormal or non-recurring losses or gains

depreciation based or replacement cost of the \*

income from investment outside the business.

interest on long-teory liabilities

[ Which is to be added back to the net profit for

in come tan Calways take net profits between

=> Net capital employed refers to the total of

1 poid up share capital

reserved (both capital and revenue reseave)

pebenture if any.

Buy / Sell stock .

200000 in stock. you Investment

bough a used a car 1,0000 RS. you

you sold the car for 160000

so your net profit was 60,000

what was the return on your investment?

$$RO1 = \frac{60000}{1.00000} \times 1000 = 60\%$$

you invested 2,00000 Rs, one years laters. Sold the stock for 1,00,000, your net profit 60,000 -) Now your numbers in to the formula, you see that investment return on investment was a nagative Thirty pencent

$$POI = \frac{-60.000}{2.000,000} \times 100 = -30\%$$

It you buy a Jotski for P3 2,00000 Then you sell it for 140,000, you net profit LOSS . 60,000 . Rg.

$$= \frac{-68000}{140.000} \text{ RoI} = \frac{60,000}{260000}$$

=> 5 Eagnings per share CEPS) :=

EPS is the grelationship bln net parofits and the number of shapes outstanding at the end of the number of shapes outstanding at the end of the given period. This can be compared with parevious years to provide a basis for assessing the company periformance.

[EPS = (Netponofit taxes | Number of showner outstanding

en: Given the number of shares 10,000 and then profit taxes for a given accounting period is two profit taxes for a given accounting period is

Given that number of shares = 10,000/parofit taxes = 4,50,000 Rs

EPS = Netprofit temes

N. share outstandings

10,000

45

The higher the EPS is the moore is likely to be the demand for the share of that company to the wever, it is to be noted that EPS is one of the many factors effecting the demand for a given shows.

Dividend yield :=

yield grefeons to the amount of total gretusing the investor will neceive for a given peopled of time for the amount of his investment Dividend yield necteons to the peonecentage netwin on the parice paid for sharpes. It is calculated as given

Nominal of face value of the shape bellow; x 1, dividend per annum cost or manket posice of the share Dividend yield = -

82: Given that current manket posice of a share RS 300, face value of the share is RS300, perscentage of dividend declared is 20%. Then yield is.

market price of a share PS 300 face value of the shape P8300 pencentage of divident = 20%.

> 300 × 20 Dividend yield =

In general, yield and sisk asse investely peropositional In other words, the higher the yield meflects that the investments are niskien and the lower the yield. Sufer one the investments.

>= Ponice/ Econning Ratio %= parice earning Ratio divided by the P/E ratio. Manket price per share Porice/earning Ratio = earnings per shore. ar a wally bright the stopping

Given that market price of a share is Rs 340. and EPS PS 10. calculate P/E gratio?

manket price per share earning peur sharre. 

34 Vat 27 Irenalista breaking

=> & carning power ratio :=

easining power gratio as a measure of overall profitability A firm can sell small quantities out highey price or large anantities at relatively lower prices to continue to be making posofits

In other words the cooming power of the company is based on two factoris. Cas net parofit morigin and

(b) the investment funnovers.

- \* These factors together peasent a complete picture of the effectiveness of the firm's operations.
- \* The percentage of one twom on investment (ROI) can highlight
  the firms operating efficiency. ROI oneflects the earning,
  power and it is the product of het possifit mangin
  and investment two nover.

earning power = Return on investment

= Net profit mangin X Investment tuomo very

EP = Netprofit aftern takes x sales total capital

CP = Net Ponofit after takes

Total Capital

Here the total capital may mean (a) total assets or
(b) equity share capital

The following example illustration the concept of earning powers.

#### => Activity Ratios :=

Activity ratios express how active the firm is in teoms of selling its stocks, collectings its receivedles and paying its coreditors. These were three types.

- 1) Inventory tuomo vea Ratio.
- Debtors Tuernover Ratio.
- @ coreditor's turnover Rotio.

Inventory twomover Ratio

It is also called as stock two noved ratio. It is indicated the number of times the avarage stock is being sold during a given accounting peniod. It is established the nelation by the cost of the sold during a given period and the average amount of inventory outstanding during the period. The higher the inventory twinover the bettern is the peon-tormance of the firm in selling its stocks.

It is calculated as given bellow.

Inventory tuenover ratio = cost of goods / Average inventory

when cost of goods sold = sales - Gross profit

Average inventory is the average of opening stock at the beginning of the year and the closing stock at the end of the year, that is

-Nerage stock = opening stock + closing stock

A higher inventory twomover ratio implies the efficienty of the firm whereas a low inventory twomover ratio indicates that the firm is not a position to clear the stock.

from inventory two nover ratio, we can also determine the inventory holding peopled. It is determined as given bellow.

Inventory holding peopled = 365 days / Inventerry TR

gross profit is 20 percent of sales. The inventory at the beginning of the years was RS 16,000 and at end of the years was 14,000 compute Inventory turnover ratio and also the inventory holding period.

=> caliculation of Inventory twomovers Ratio To calculated Inventory turnover ratio, we need to cost of goods sold and average stock. cost of goods sold = sales - Cross profit. cross profit = 2011. of sales value ire PS 1,00,000 cost of goods sold = RS 5,00,000 - 1,00,000 = 4,00,000 Average inventory = (16,000 + 14,000)/2 > (b) = 15,000 Inventory turnover ratio = costof goods sold average inventory 4,00,000 15,000 = 26.66 unt This means that during the year, the average Stock is being sold 26.66 times. 365 => (c) Inventory holding pessiod. = Inventory turnover ratto = 365 = 13.69 days = 14 days approximately.

### Debtor's two no ver Ratio :=

Debtors twomover ratio reveals the number of times the average debtors are collected during a given accounting persion. In other words, it shows how quikly the firm is in a position to callect its debts. It is neccessary to keep closing monitoring of relisation of debts because it directly effect the wonking capital position.

Debtor's Twomoves Ratio is calculated as given bellow. Debtors tuennover ratio = Credit sales

Average debtors

\* where coredit sales refer to goods sold on credit. Average debtors is the average of opening and closing balances of debtors for the given accounting period.

\* A highest debtors tuornover ratio explain that the firm is efficient in callecting its debts whereas lower ratio signifies its inefficiency.

## Debt callection peniod ;-

Debt callection peoriod refeors to the time taken to callection the debts. from debtor's. twomover ratio. we can find out the debt callection peoriod follows debt callection peniod = 365 [day] | debtors two moves

The 188801 the time, more 95 the efficiency of the firm and vice veorsa.

A firm's sales during the year was RS 40,00,00% between 60 percentage were on coredit basis. The balance of debtor's as the beginning and end of the year, were 25,000 and 15,000 respectively, calculate debtor's turnover ratio of the firm AISD find out debt collection persiod.

soli-

Given that sales during year = 40,000 and box.

beginning debtors = 25,000

ending of Amount = 15,000

coreditsales = 60%. of 40,000 = 2,40,000

\* Average debtoon's = Copening balance of debtoons +ebD) = (25,000 + 15,000) /2

20,000

caliculation of debtoons turnover vatio = 240,000/20,000 = 12 times.

In this Example, the firm is collecting its average debtors 12 times during the given accounting period debt callection period.

= debtors turnover ratio

= 365

= 30.41 duy.

on an average, the firm is taking around 31 days to

coreditors turnover ratio reveals the number of times the average coneditors are paid during a given accounting peoniod. In other woords, it shows how ponomply the firm is in a position to pay its coreditors. It is necessory to keep close monitoring of payment schedules because It directly affets the working capital position. In case, the firm is not in a position to pay its creditors it will affect the goodwill or hunthern supplies may be cut off. To be on safe side, most of the firms the aged list of the coneditors which provêdes the details of when to pay, how much to pay and to whom to pay.

coredit tuornover ratio is calculated as given bellow Coredit Tuomover Ratio = coredit puncheses / Average creditors

From this, we can also determine the coreditoris payment

period by using the given formula 365 days

Artifologies, if \$1 care from the order

credit payment period = Coredit turnover ratio

(2) capital stone ratios (Lerwrage Ratios/Solvencyr)

capital staucture on leverage matio is differed as the financial matio, which focusses on the hong-teams the financial matio, which focusses on the hong-teams the solvency of the firm its ability to meet firm its always meflected in its ability to meet the solvency of t

as and when due.

All the financial institutions offering long-teory
tinance are interested in these ratios.

The following cure the most commonly used capital structure matios.

- (a) debt-equity notio.
  - (b) Interest average matio.
- (c) Ratio of properietors funds to tated
- assets.
  (i) Ratio of fixed Assets funds
  - (ii) Ratio of current Assets peroperietors
    funds

## debt - equity (DIE) Ratio :=

gratio is the gratio bln outsideoi's funds. (debt) and insiden's funds (equity). This is used to measur the firm's obligations to coreditors in relation to the of solvency. The yasidstice owners funds. It is the measure for this ratio. is I'll In other words. for every, supers of debt, there should be one super worth internal funds. internal funds.

### for exmple !=

This is also industry I sector specific ratio. depending upon the industry, the standard for the debt-equity ratio. diffeors. for instance, in case of capital intensive or steel manufacusing such as shipping companies companies. the DIE ratio can be high 20:1, so this ratio has to be intemponeted considering industry, and competitoris DIE ratio.

Debt - early ratio is calculated as follow:

Note: Outsideons funds I Insides or shareholdeon's funds

Debt or outsideois funds include debentuoies, bonds, long-team loans, and so, on. shareholder's fund or equity shave capital (both pore terrence and equity) rescove (both general and specific) retained earnings here includes and such others. equity does not only mean eauity Share capital. equity heore is inter proted a insideo funds. debt' have meanie only long-teen debt.

Example Problem ==

Calculated debt-eauity gratio from the duta given Pn Exam D.

The following owne the outsideon's funds.

team 100m 2,00,000 Debentures 400000, Long

out sideois = debentures + long team loan

= 400000 + 2,00,000

6,00,000 = equity Inside funds =

Preference share capital 1,00,000, emity share capital 1,50,000, General Reserve 2,50,000, parofit and loss Account 109000 PS.

Long team Debt = psc + esc + GR + P&I = 1,00,000 + 1,50,000 + 2,50,000 + 1,00,000 6,00,000 = delot

pebt equity ratio =

= 6,00,000 6,00,000

Debt eauity ratio of 1:1 means that for every of debt, there is an equity fund of Rel, which meets the standard yardstick of 1:1. This is quite satisfactory.

=> b) Interest coverage Ratio 0=

to judge the Interest coverage ratio is calculated firm's capacity to pay the interest on debt it borrows It gives an idea of the Extent the firm's earnings may contract before it is unable to pay interest payment out of current earnings. It is very importent natio for the financial institution to judge the ability of the borrower to seavice. the loan from the current years porofits. The higher the gratio, better it is other wods, a higher gratio implies that the company has no Problem in paying interest.

Interest coverage ratio Ps calculated as Net porofit befor interrest External follows:

Intrest coverage Ratio = fixed internest changes

The moore the numbers of times of coverage, the better is the solvency pasition of the borrower,

En. - The earnings befor interest and taxes (EBIT) of a company is RS 5,60,000. It's fixed commitments include payment of 10% on 7000 debentures of RS 100 each. It payment of 10% on 7000 debentures of annum.

sol:- calculate interest coverage ratio.

Net parofit before interest and taxes = 5,60,000

Net parofit before interest and taxes = 5,60,000

fixed interest changes on the debentures

= (7000×100) ×10%.

= 70,000;

Internest coverage gratio = (5,60,000/70,000)
= 8 times

Interiest coverage ratio of 8 times means that the net profit earning over 8 times to the fixed interest charges payble during the years.

The more the number of times the coverage the Safeon is the investment. Entending finances to such a company getting a net profit covering such a company getting a net profit covering the stimes of its fixed charges. Is a safe bet for a the lender.

=> Ratio of peroperie toom's funds to testal Assets

This establishes the melationship bln panoparietor's funds and the total assets. Heere, the total assets include the tangible fixed assets plus current assets. As a guidelines a ratio of amound. 0.5:1 or 50:1 is considered as the minimum desirable. In other words. half of the tangible assets are owned by share holder's on owners and half by contailbutous of othern types of sharn and loan capital and by aneditoris. Intangible assets such as goodwill agre not consider beare because, if the business has to be sold off forcibly, goodwill may not be of any worth This shows that the potophie -915 have solid stake in the ogganisation.

Ratio of Paroparietoars funds to total Assets = total Assets to Assets A

Ex: - Compute ratio of paroparietoris funds to total

Assets from the data given in Example.

Sol: - The gratio of paroparietoris funds to total

assets can be computed as follows;

Paroparietoan's funds = 7,00,000 RS. Total Assets = 15,00,000 Pone fevrence shape capital = 1,00,000 equity share capital= 1150,000 general reserve = 2,50,000 employee parovident fund = 1,00,000 2 1,00,000 P&L accounts 7,00,000 poroporetors fund Ratio of paroparietors funds to total Assets = total Assets XIDO

= 7,00,000 / 15,00,000 × 100

= 46,66%

This neveals that 46.66 % of the total assets owner financed by proprietor's funds. In other woods the balance (53, 34%) Ps financed by outsider's funds.

This ratio is furthern Employed in a finer way by considering the volume of fixed assets and current asset's to the peroperitoris funds separatly. (i) Ratio of fixed Assets to Ponoponie toon funds :=

This ratio Explains whether the fixed Assets have been bought from the polopolietors funds or not, by matching the long team investment with the long team finance. It is possible to determine whether the borrowing has been made to finance fixed Assets. It is not safe to use short-term finance to buy long-term assets because when the borrowing is to be rapaid theore may be a problem. as the fixed Assets cannot be readily convented into cash. The long-team sources of finance can be used for buying cumment assets but no Short-team sources of finance can be utilised to acquire fixed assets.

This ratio shows the people centage of poropoletors tor industrial funds. locked up in fixed Assets. Nonmally establishements this can be 65% of the poropoletors funds.

Ratio of fixed Assets to poroponietor's funds

= fixed Assets x 100
Paroprietures fund

en: - compute ratio of fixed assets to poropositetoon!s

funds from the data given in Example.

fixed ASSET ane = 5,75,000 and poropositor's funds when 7,00,000 Ratio of fixed Assets poropositors ?

501:

Given that

fixed Assets = 5.75,000, peroperietor's funds =  $\frac{\text{fixed Assets}}{\text{P.f}}$ 

= 5,75,000 × 100

= 82.14%

Considering that this is industrial establishment 821. Is on very high side. A large position of proprietors funds is blocked in fixed Assets. This not a desirable.

Ratio of current Assets to propositions funds:=

A higher ratio of current assets to proprietors

funds 9s considered as financial strength to the business.

It is necessary to hold adequate funds in working

capital to generate profits.

This caliculated as follows:-

Ratio of current Assets to P.F = Current assets

peroprietors funds

compute matio of current assets to peroperitors funds from the data given in Example. Current Assets 9.25,000 PS proposieter 5 funds - 7,00,000

= Ratio of curren assets to P.F = Poroponietoris funds

$$=\frac{9125,000}{1,00,000} \times 100$$

Eauthing Power of firms pand @ := Problem There we two firms pand @ each having total assets worth RS 4,00,000 and average net profits of 20%. that Ps 80,000 each. Horm phas sales of RS 100,000 and from D has sales of RS 10,00,000. Determine the earning the powers (Do .... D)

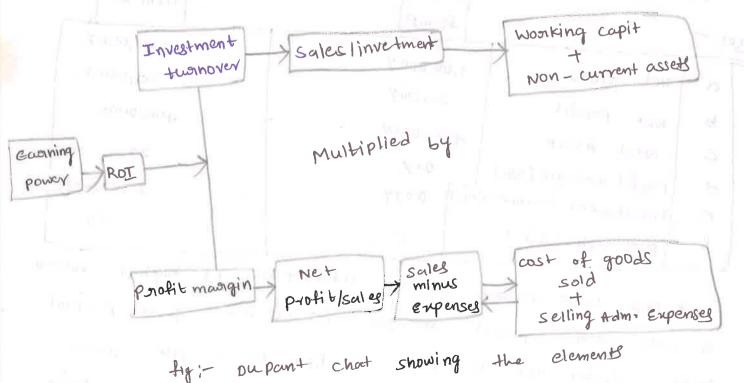
of both firms.	Firmp	firm 0)
titar pinang	The state of the s	10,00,0007.
was cales	1,00,000%	20,000%.
b Net perofit	20,000%	400,000%
C. Total Assets	400,000%	21.
d Porofit mangin (	101)	2.5 times
e Inrytment turn		5%
f ROI ratio Cd'e	57.	

A bove table valued is no advantage of higher volume of sales when posofit marigin is so low. firm p could make similar ROI to that of firm Q despite lower volume of sales because the profit moorgin is high.

The elements that go into computation of evenings power have been built into the following charit by Du-Du pont company for the time and hence it is called

it is can be seen that the easthing power is Dupont Chart. dependent on many vaniables. Any change in these factoris will affect the easinings powers. If the selling Posice incoreages, it will incoreage the possifit and vice versa. If the cost of goods sold incorease, the profit margin declines. The earning powers will imposo ve only if turnover or net profit or both increase. ewining power 9s an important ratio that can be used to evaluate and companie the pernformances of

departments by well as the firm as a whole. It is a valuable tool for inter-firm companison also. Working capit Saleslinvetment Investment Non-current assets tworkers



power of earning

- => Limitations of Ratio Analysis == Ratio analysis, despite its wide applications, is not tree limitations.
- (1) Accounting grations are gretonospective:=

The ratios agre computed based on the past data of Prievious periformance. They may not necessarily hold good in the future and may not be helpful in making projections

- (2) Accounting methods, policies and procedures are not common;= where accounting data is generated following different accounting methods C such as different methods of deponeciation on methods of valuing closing stock following fifo or Life) The gratio are not strictly comparable. The difference In the accounting methods on policies may distored conclusions.
- (3) Inflationably tendencies connot be highlighted != In times of inflotion, the accounting data of several year cannot be compored. Any analysis of such data based on gratios cannot be meaningful.
- (4) concepts of Ratio are not the same := Based on the needs of the firm, the gratios asse built upon. The formula may been different. Interiter Companison connot be nealistic in such a case.
- (s) qualitative factors cannot be considered := factors such as characters or manageorial abilities connot be considered, here It is because Ratio analysis is purely quantitative omalytical tools.

(6) Ratio by itself has no utility :=

Ratios to be meaninful have to be nead along with the other ratios. Any single ratio is meaningless by ?bself.

(7) Ratios can be manipulated :=

During festival season, theore will be good turnover of stocks when compared to the earlier periods. If this inventory two nover matio Ps considered for decision making the negults get distored.

(8) factors weakening ratio analysis:=

Sudden changel in the economy such as economics

Sudden changel in the economy the rightyt coisis, lack of uniform data. identifying. the rightype of ratio for analysis and intemponetation and so forth ane some of the factors that threaten the utility of ratio analysis.

tatio analysis continues to be a powerful tool for tratio analysis continues to be a powerful tool for training and companision of financial statements. analysis and companision of all ton one alog to algoring a with most all to open all no went

the position was for something our comments

continue and the same

- glass to the state of the sta

there was an exact

Colonial Col

No. of the Contraction of the Co

bond of the G

and to the B

Statement of a 100

served primes (g)

Property of the second

Comment Contract Committee of

April 10 Person parts 13

Inches only

I may be the party

Maria Company

flow Analysis := Funds

> of funds := Meaning

teom funds. we geneously mean cash, but from the point of view of accountants and finance manageons, funds' mean working capital on net working capital. In the content of funds flow statement. When we use team funds. it means working capital only.

# Current Assets - current liabilities

#### current Assets current - Habilities cash in hand 0 Bank in over draft cash at bank (D) sundry coneditors 9 Bills necievable (3) Bills payble 3 sundry debtors 4 outstanding Expenses (1) manketable / temporary (3) Dividends payable (5) investments Taxes payable 6 Advances ( short team) (b) Parovision for taxation (F) closing inventory of fingsla P 8 Porofision for dividenda goods/ work in progress unearned income. (1) raw meterial (8) priepaid Eupenses Accurred income (9)

# Impartent of fundflow statement 3=

Main Impaintents aux 6 types aure their.

- D Financial consequence @ financial palaies & divident
- Financial budgets @ points out weak financial positions. (3)
- (5) Bomkers & wiedtoons (6) sownses of funds.
- Poreparation of fund flow statement := parepared the ffs 3 types.
  - statement (or schedule) of chenges in woonking 0 capital
  - funds from operation (P&L types)
  - funds flow statement (3) statment of soughces and aplication of funds.

## statement of changes in working capital

Particulers	year (es)	deals	Norking capital	
current Assets			18 Magazin, I	Introduction of
Cash	***	XXX	not to I day	1 11 11
pebtors	×××	_×××,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	المادرية) الله	
Stock	***	XXX	-	-
current Liabilities				
sundry creditors	×××	*××		
Bills purpable	* *>	xxx		Towns or the second
working capital	xxx	×××		
Net increas   Decrete	×××	×××		

assets	1/1/2017	11112018
cash	3,5000	7,5000
zills recivable	98,000	90000
Stock	& 70000	1,20,000
ang twom investment	15,000	0000
Land	20,000	30,000
1/80	2,55,000	3,25,000
Labilities		
Bills payble	70,000	1,001,000
capital	1,25,000	1120,000
Retarned earnings	60000	75,000
route 4	2,55,000	3,25,000
	The Warren	

Step-P

schedule of changes in working 2 revolustreng 1/1/2017 111/2018 Incoreage Decoreose A-ssets current cash 35,000 75,000 49,000 Bills Receivable 98,000 9,0000 0008 87,00 1,20,000 Total Stock 33,000 current Asset 2,20,000 2,85000 current Liabilities Bills payble (B) 70,000 30000 100000 Wasting capita (AB) 150,000 185000 35,000 35,000 Net Inchese in working capital 185000 185000 73,000 G00,EF

### Adjustment of operations (PEL)

A count

particules	Amount-	particulers	Amous
To Balence C/d	15000	By balance bld	60000
		by funds from operations	15,000
		(balencing figer)	
	75000		75000

step-III

statement of sources and application of

Sour ces	Amount	Application or uses	Amoun4
Funds from openation	××××	punchase of fixedassu	XXXX
Issue of equity share		purchase of investines	xxxx
Cincluding Share Parenium)	××××	Clong team)	
Cincluding share potential)		rendering were stand	
Issue of poreference share if any	××××	Redemption of parefery	
Issue of debenture	XXXX	Redemption of debentu	XXXX
sales of fined Assets sale of investman	***	Internim dividend paid	XXXX
(long-tevim)		Tames paid	××××
		Dividend paid	XXXX
		Incoreage in woorking capital	XXXX
Total	XXXX	To tal	XXXX

Fundflow statement of sources and Applications.

sources of funds	Amount	Application of funds.	Amoun
sale of long Team Invest	no 5,000	purches of Land	10,000
Issue of capital	1 1	Net In corese in working capital	35,000
Funds from openations	45,000		457,000
NOTE: Sources of fun	ds meance	Inflows of cesh.	ash
application of fu	nds mean	ce outflow of the (	plication
-) funds from	35,000)	value entening the	surces
side side		Single and and page	

1-

=> (2) Priefound from the following Balen's Sheet. Shedule

Labulities	2016	2017	Assets	2016	2017
Shave capital	000,00	45,000	cood will	30,000	25,000
retained earnigs	34,000	26,000	platamasi	60,000	50,00
current Liabilities	12,000	3,000	192 170 21	lo lud	19,000
00.2)			current Assets	16,000	(-1100)
	10,6000	94,000		10,6000	94,000
Adjust ments	n propi	sistem 3	Ameste		
D Deposiciation on	FACE I	1	2) dividends pg 12000 to be	1	
plants & machinary	106 · 10	Į.	paid during	ilean in	
P8:- 20,000	ed pg		the years.	to the	1
	-		100 rot	gad ar	

Particuleus	2016		In wiese	king capited decreose
musel current Assets	16,000	19,000	3000	lo Bicira
current Linbulity	121000	3,000	9000	anniel vert
Prison Inf	100		3.443	And Topo S
wonking capital  (A-B)	4000	16000	_	121000
				mark toward
Gind's hackgoon beiseds	Surviva II	1/4	12000	EM 12,000

Net changesing in woosking capital = 12,000

Particulen	Amoum-1	fit and Loss Account:	Amound
211iw bood ot	0000	By balance Bld	34,000
To Deposiciations	20,000	telligis a	
To dividend	12,000	P I Supplied to the state of th	
To balance c/d	26,000	By funds from operation	29,000
	63,000		63,000
1 3 0 0 0	=1011	Table of	
DY	plant & m	achinably A/C	-
Particulery	Amount	particulers	Amount
To opening balence	hing	by deposiciation	20,000
plant & machinar	y 60,000	by balence cld	50,000
	10.000		

1				1
	To barence	10,000		
	(cash punches)	40,000		79000
1	La ba i finivation	Entidores por	Des dukember	
	Fun	deflow sta	Hemen to	
The same of	sounce of funds	Amount	Application of funds	Amount
	Issue balansing Capital	8000	punchee of flant &	(00010)
	(F10) & /	- 00	divident	121000
	Found from openations	29,000	Net incorecising working capital	12,000
		341000		4,000
- 11				

## cash flow statement

cash flow means: - It is statement of precogning systemetic, all inflows & out flows of cash. specifically building building

Cosh flow Statment Their wre 5 types.

to evaluated the current cash positions.

the future cast posistion.

take financial laons. KEEK WITHOUT OPENING XXXX

teome financial position 

Enplain the poon cash position. turnelle in chimens (will be ). [ tillimeter ]

Cashflows Emplain two types

D Adjusted PEL AIC

@ cash flow statements.

Lasters will Asso cash flow statement

( from the year ended 31stee)

Inflow of cash	PS	outflow of cash	RS
opening bulence cosh & bunk	n 3 (6)	cash outflows	
cash inflows	no bet for	po dention of pore-share	XXXX
Issues of Shanes	XXXX	repayment of bebentures	XXXX
Issue of debentures	* ***	punchese of fixed Assets	WKX "
Raisly Long twom locals	XXXX	pusiches of	XXX
sale of fined Assets	××××	Responsement Long twom Loans	XXX
divident Received	XXXX	payment of the divident	XXXX
	Inab	cash flow in openations	XXXX
cash from openiations	XXXX	Incorease in current Assets	XXXX
Decorease in current	XXXX	in Guerrent Lightlith	XXXX
A SSETE CINTIONAL	19 46	peurese in current Liability	
Encorese in current Liability (outflow)	XXXX	read off with the 3	
1	17 pes.	'o 2-/-	

JIA JA9 . Between

Shortwards shorteness

Problem D	Liabilities	2017	2018	Assete	2017	2018	(2)
X-III	shows capital	2,00000	2,50,000	cash	3,00,000	4,7000	
	coreditors	7,0000	4,5000	Debtogs	120000	1,15,000	
I,	Porofit & Loss alc	10,000	23,000	Stock	8,000	90000	
	Total	28,0000	3,18,000	Land	5,0000	66000	
			3(8)	Total	280000	3,10,00	5
	year A	daluate	- 4	and the latest the lat	r 51x-1	descrip	
01:-	step-0	Ac	ljusted	PEL alc			CY
i i	DY			0. %	Heulear		Amou

	5tep-D Adjusted  DY  painticulars Ann	ter particuleurs	Amoun
	To finance c/d 23,0	by I have hid	10000
,	(A00, Z2)	By cash from operations	13000
Y	23,0	(Balancing figer)	23,000
133	bea I resultant I to		1
step:	CAN GLA Cash of	210w statement	CATTE
	cash Inflows Amo	unt cash outflows	Amound
1	opening balance: cash 30,00	Do punchase of Land	16,000

CAY GLY	سنہ س	to all thought for the	CLVJE
cash Inflows	Amount	cash outflows	Amount
opening balance: cash	30,000	pworchase of Land	16,000
Issue of shape capital	000,02	Increase in stock	10,000
Deconeage in debtoons	5,000	Decrease in aneditors	25,000
cash from openations (taken from PELL)	13,000	clasing balance: cash	47000
(taken from PEL)			98,000
	98,000		

share capital	60000	65000	Crood will	30,000	25000
parofit & Loss alc	,		plant & machinory	60000	\$000
current Liabilities	12000		2	16000	19000
	10,6000	94,000		10,6000	94000
		-	1	1	

Adjusted: O dependation on plant & machinory

20000 - Adjust

dividends payble -12,000 Adjust

Adjusted P&L a/C

DY	3) 0.2		CY
particuler	Amounty	particuler	Amony
To written off Goodwill	5,000	By balanced bld By cash from	34,000
To depreciation plant & machin	20,000	By cash from openation (Balancing fig)	29,000
To Bal CH	26,000		63,000
(rough going)	63,000		

plant and machinary

~		
Amound	particulery	Amount
60,000	by Deponiciation	20000
000,01	by balance 9d	00000
70,000	· Mac Someter	70000
	10,000	60,000 by Deposiciation 10,000 by balance 92

from operation = 29000 cash punches Plant & machinory = 10,000 (from Above tables)

CAN CAT CLA cash flow statement cash out flows eash Inflows Amount -Amount purches plant & opening balence: cosh 16,000 machinary 000,01 Issueof Sharre Capital 5000 Decorease in C Laibilities 9,000 divident payble 12,000 cash from operations 29,000 closing balance 19,000 50,000 000,02