

FINANCIAL ANALYSIS AND PLANNING - RATIO ANALYSIS

Classification of Ratios

- ① Liquidity Ratio / short term solvency ratio
- ② solvency Ratio / Leverage Ratios / Long term solvency ratio.
- ③ Activity / Efficiency / Performance / T/O ratio.
- ④ Profitability ratio.

I) Liquidity Ratio :

- Liquidity / short term solvency } means ability of the business to pay short term liabilities.

• Types of liquidity ratios :

- ① current Ratio
- ② Quick Ratio / Acid test ratio
- ③ cash Ratio / Absolute liquidity Ratio
- ④ Basic Defence Interval or Interval Measure Ratio.
- ⑤ Net working Capital Ratio.

Period : < 1 yr.

Current ratio :

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

Current Asset = Inventories + Sundry debtors + Cash & Bank bal.
+ Receivables / Accruals + Loans & Advances
+ Disposable Investments + Any other current assets.

current Liabilities = Creditors for goods & services + short term loans + Bank overdraft + cash credit +
o/s expenses + provision for taxation +
proposed dividend + unclaimed dividend +
any other current liability.

Note: Prov. for Doubtful debt is to be reduced from Sundry Dr.

Ideal ratio = 2:1

C.A

Cash & bank bal.

Sundry debtors

Inventory

Marketable securities

short term loan & Advances

other current assets

↳ prepaid exp

↳ adv. tax

Q)1 . From following info , calculate current ratio:

Particulars	₹	Particulars	₹
Trade payables	70,000	Inventories	95,000
Advance tax	4000	Trade Receivables	3,40,000
short-term borrowing	10,000	current Investment	10,000
Accrued Incomes	2000	Provision for doubtful debts	30,000
Other current liabilities	20,000	cash & cash eq.	10,000
short term provisions	1,20,000	short term loans & advances	4000
Prepaid Exp	5,000		

Solⁿ :

$$C:A = \frac{95000 + (3,40,000 - 30,000) + 10,000 + 30,000}{1,20,000 + 20,000 + 5,000 + 4,000}$$

current Assets :

Adv. tax	4,000
Accrued Income	2,000
Prepaid expn	5,000
Inventories	95,000
Trade Receivables (3,40,000 - 30,000)	3,10,000
current Inv.	10,000
cash & cash eqn	10,000
Short term loans & advances	4,000
	<hr/>
	<u>4,40,000</u>

Current liabilities

Trade payables	70,000
Short term borrowings	10,000
Other C.L	20,000
Short term provisions	1,20,000
	<hr/>
	2,20,000
	<hr/>

$$\text{Current ratio} = \frac{\text{C.A}}{\text{C.L}} = \frac{4,40,000}{2,20,000} = \frac{2}{1}$$

Quick ratio

Period: 1/2/3 months -
→ Cash

$$\text{Quick ratio} = \frac{\text{Quick Assets}}{\text{current liabilities}}$$

Also use
liquid
liabilities

Quick asset \Rightarrow assets which are quickly convertible to cash.

Quick assets = Current Assets - Inventory - Prepaid Expenses.

Ideal ratio = 1:1

Note: Prov. for doubtful debt is to be ~~separ~~ subtracted from total amount of sundry debtor.

Eg: C.A = 4,40,000
 Inventory 95,000
 Prepaid exp 5,000
 C.L 3,40,000
 Trade payables 20,000

Calculate Quick ratio

$$\rightarrow \text{Quick ratio} = \frac{\text{Current Asset} - \text{Inv} - \text{Prepaid exp}}{\text{C.L}}$$

$$= \frac{3,40,000}{3,40,000}$$

$$= \underline{\underline{1:1}}$$

* If simply 'current liability' is mentioned then it includes trade payables.

liq liability => current liabilities (-) Bank OD (-) Cash credit.
 = CA =

within
Period → 1/2 1/3 1/4 days
→ cash

Cash ratio / Absolute liquidity ratio

Immediately to cash

$$\text{Cash ratio} = \frac{\text{Cash \& Bank balances} + \text{Marketable securities}}{\text{current Liabilities}}$$

Basic Defense Interval / Interval Measure

C&B Bal + Marketable securities + Net Receivables
or

$$\text{Basic Defense Interval} = \frac{\text{Current Asset} - \text{Prepaid Exp} - \text{Inventories}}{\text{Daily Operating Expenses}}$$

$$\text{Daily operating expenses} = \frac{\text{Operating expenses}}{360}$$

- COGS
- (+) S&D exp'n
- (-) Depreciation
- (-) Other non-cash expenditures

Net working capital

$$\text{Net working capital} = \text{O.A} - \text{O.L} \quad \left[\text{exclude short term bank borrowing} \right]$$

II) Long term solvency Ratio | Leverage or Solvency Ratio (Period > 1yr)

- * Debt \Rightarrow Money borrowed from outsiders + Invested in business
- * Equity \Rightarrow own funds invested in business.

1) Debt:

- \rightarrow Borrowed funds / Loan funds
- \rightarrow ① Debentures + Long term loans from Bank & FI etc.
- \rightarrow ② Total Debt - G.L
- \rightarrow ③ Capital employed - Equity
[Total amnt invested in business]
Equity + Debt

2) Equity:

- \rightarrow Net worth / shareholders funds / owners funds / own fund
- \rightarrow ① Equity share capital xxx
- (+) P.S capital xxx
- Total share capital xxx
- (-) Accumulated losses (xxx)
- Equity xxx

3) Equity shareholders funds:

Share capital

$$ES \text{ capital} + PS \text{ capital} = \text{Equity}$$

$$\text{Total equity} - PS \text{ capital} = ES \text{ capital}$$

4) Total funds

→ capital employed = Debt + Equity
or

→ Long term funds

→ Investment

Leverage Ratios

Capital structure Ratio

- ① Equity ratio
- ② Debt ratio
- ③ Debt to Equity ratio
- ④ Debt to total assets ratio
- ⑤ Capital gearing ratio
- ⑥ Proprietary Ratio

Coverage Ratio

- ① Debt - service coverage ratio
- ② Interest coverage ratio
- ③ Preference Dividend Coverage ratio
- ④ Fixed charges coverage ratio

B! sheet

Capital Employed	Equity	ESC	xx	F.A	xx	} Non Current Asset	
		PSC Reserves & surplus	xx				xx
Debt	prov	Debt	xx	Other non-current asset		} Current Asset	
			Long term		xx		
			Sundry crs		xx		
Current Liabilities		other current liabilities	xx	Current asset	xx	} Current Asset	
			xx			xx	
			xx			xx	

I] CAPITAL STRUCTURE RATIO

1] Debt ratio

Debt ratio > 1 => • assets funded by debt
• risky scenario.

$$\frac{\text{Debt}}{\text{Net Assets}}$$

$$\frac{\text{Long term borrowings} + \text{Long term provisions}}{\text{Debt} + \text{Equity}}$$

2] Equity ratio

$$\frac{\text{Equity}}{\text{Net Assets}}$$

$$\frac{\text{ESC} + \text{PSC} + \text{Reserves \& surplus}}{\text{Net Assets}}$$

Higher the proportion of owner's fund, lower is the degree of risk for potential lenders.

3]

Debt Equity ratio

$$\frac{\text{Debt}}{\text{Equity}}$$

- * High debt to equity ratio \Rightarrow less protection for creditors
- * low ratio \Rightarrow wider safety cushion
- * used for making capital structure decisions such as issue of shares and/or debentures.
- * Debt equity ratio is the indicator of firm's financial leverage.

eg: $\frac{4}{1}$ \rightarrow not a good sign of health of business

$\frac{1}{1}$ \rightarrow very good health of business

eg: (1)

ESC - 1,50,000

PSC - 1,00,000

RBS - 1,50,000

Long term Borrowings } - 6,00,000

Long term provisions } - 2,00,000

Calculate Debt Equity ratio:

$$\text{Debt} = \text{LTB} + \text{LTP}$$

$$= 6,00,000 + 2,00,000 = \underline{\underline{8,00,000}}$$

Equity

$$= \text{ESC} + \text{PSC} + \text{RES}$$

$$= 1,50,000 + 1,00,000 + 1,50,000 = 4,00,000$$

$$\text{Debt Equity Ratio} = \frac{\text{Debt}}{\text{Equity}} = \frac{8,00,000}{4,00,000} = \frac{2}{1}$$

eg (2) :

$$\text{Current ratio} = 3:1$$

$$\text{Net Working Capital} = ₹ 2,00,000$$

$$\text{Total assets} = ₹ 3,50,000$$

$$\text{Total Debt} = ₹ 3,00,000$$

Calculate Debt Equity ratio.

Solⁿ : -

$$\text{CR} = \frac{\text{CA}}{\text{CL}} = \frac{3}{1}$$

$$\text{C.A} = 3 \times \text{C.L} \quad \text{--- (1)}$$

$$\text{N.W.C} = \text{CA} - \text{CL}$$

$$2,00,000 = \text{CA} - 3\text{CL} - \text{CL} \quad \text{--- (2)}$$

$$2,00,000 = 2\text{CL}$$

$$\text{CL} = \underline{\underline{₹ 1,00,000}}$$

$$\text{C.A} = \underline{\underline{₹ 3,00,000}}$$

$$\text{TD} = \text{Debt} + \text{O.L}$$

$$\text{Debt} = \text{TD} - \text{CL} = 3,00,000 - 1,00,000$$

$$= \underline{\underline{₹ 2,00,000}}$$

$$\text{Equity} = T.A - T.D$$

$$= 3,50,000 - 3,00,000$$

$$= \underline{\underline{₹ 50,000}}$$

$$\text{Debt Equity ratio} = \frac{D}{E} = \frac{2,00,000}{50,000} = \underline{\underline{4:1}}$$

Calculation of proprietor's funds [or SH's funds]

Particulars	₹	Particulars	₹
Method (1)		Method (4)	
A. SC (ESC + PSC)	xx	A. Non-Current asset	xx
B. (+) R & S	xx	B. (+) Current asset	xx
C. Proprietors funds (A+B)	xx	C. (-) Current Liabilities	(xx)
		D. (-) Non C.L	(xx)
		E. Proprietors funds	<u>xx</u>
Method (2)		Method (5)	
A. ESC	xx	A. Non-Current Assets	xx
B. + PSC	xx	B. (+) Working capital	xx
C. + R & S	xx	C. (-) Non C.L	(xx)
D. Proprietors' funds (A+B+C)	xx	D. Proprietors funds	<u>xx</u>

Method (3)

A. capital employed	xx
B (-) Non-current liabilities or Debt.	(xx)
C Proprietors' funds	xx

Method (6)

A. Total assets	xx
B (-) Total Debts	(xx)
[current + Non current]	
C Proprietors' funds	xx

4] capital gearing ratio.

$$\frac{\text{PSC} + \text{Debt}}{\text{ESH's funds}} \left[\begin{array}{l} \text{ESC} \\ (+) \text{R\&S} \end{array} \right]$$

* It shows the portion of fixed charge (dividend / Interest) Bearing capital to ESH's funds.

5] Proprietary Ratio

$$\frac{\text{Proprietary fund}}{\text{Total Assets}} \left[\begin{array}{l} \text{ESC} \\ (+) \text{PSC} \\ (+) \text{R\&S} \end{array} \right] \left[\begin{array}{l} \text{Non C.A} \\ (+) \text{C.A.} \end{array} \right]$$

exclude
✓ fictitious asset
✓ losses.

* shows extent of owners funds utilized in financing assets of business

Calculation of total assets

Method ①

$$\begin{array}{r} \text{Non-C.A} \\ (+) \text{C.A} \\ \hline \text{Total Asset} \end{array} \quad \begin{array}{l} \text{Value - Depn} \\ \uparrow \\ \text{Net F.A} \end{array} + \text{Non Current Inv} + \text{Long term loans Adv}$$

Method ②

Shareholder's funds

(+) Non-C.L. (eg: LT B, LT Provisions)

(+) C.L

Total Assets

Method ③

Shareholder's funds

(+) Total Debts [Non-Current & Current]

Total Asset

Method ④

Capital Employed

(+) C.L

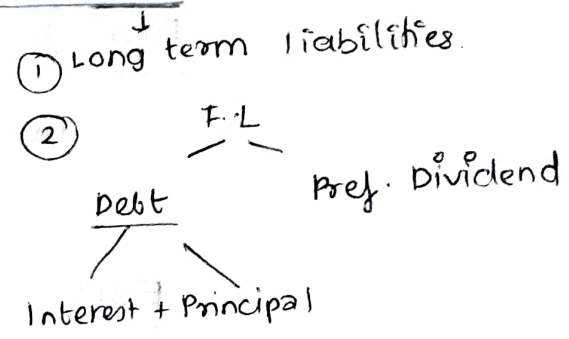
Total Assets

6] Debt to total assets ratio

$$\frac{\text{Total Debt}}{\text{Total Assets}}$$

II] COVERAGE RATIO

✓ Ability to serve fixed liabilities



Income Statement

Sales Revenue	xx	
(-) Expenses on operations	(xx)	
Earnings before Int & Tax (EBIT)	xx	
(-) Int. on LT Debt	(xxx)	
Earnings Before tax (EBT)	xx	
(-) Tax	(xx)	
Earnings after tax (EAT)	xx	SH'S Pref Equity

EAT	xx
(-) Pref. Dividend	(xx)
	<hr/>
ESH's	xx
	<hr/> <hr/>

I] Debt service Coverage Ratio

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

$$\frac{\text{EBIT}}{\text{Int. + Installments}}$$

$$\frac{\text{EAT + tax + Int}}{\text{Int + Installments}}$$

$$\frac{\text{EAT + Depn + Interest + Non-operating exp.}}{\text{Int + Installments}}$$

1.5 to 2 → satisfactory

2] Interest Coverage Ratio

$$\frac{\text{EBIT}}{\text{Int.}}$$

→ Indicate firm's liability to meet interest obligations.

3] Preference Dividend Coverage Ratio

$$\frac{\text{EAT}}{\text{Pref. Dividend}}$$

→ Indicate margin of safety available to PSHs.

4] Fixed Charges Coverage Ratio

Interest Installment

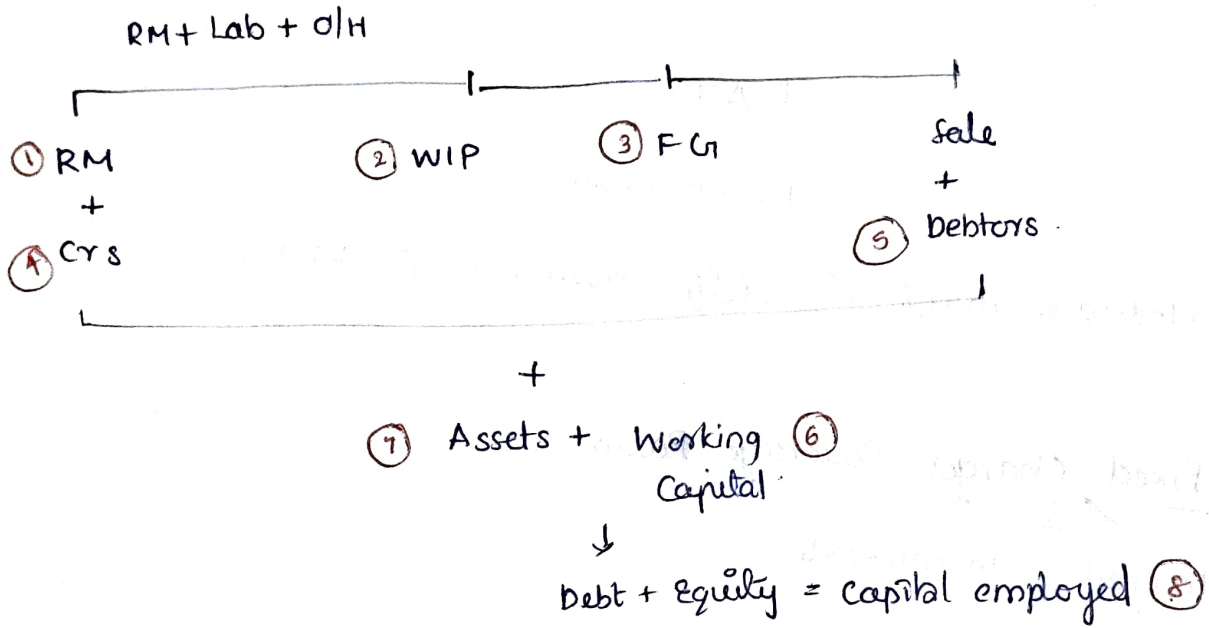
$$\frac{\text{EBIT} + \text{Depn.}}{\text{Interest} + \frac{\text{Installment}}{1 - \text{tax rate}}}$$

5] Equity Dividend Coverage Ratio

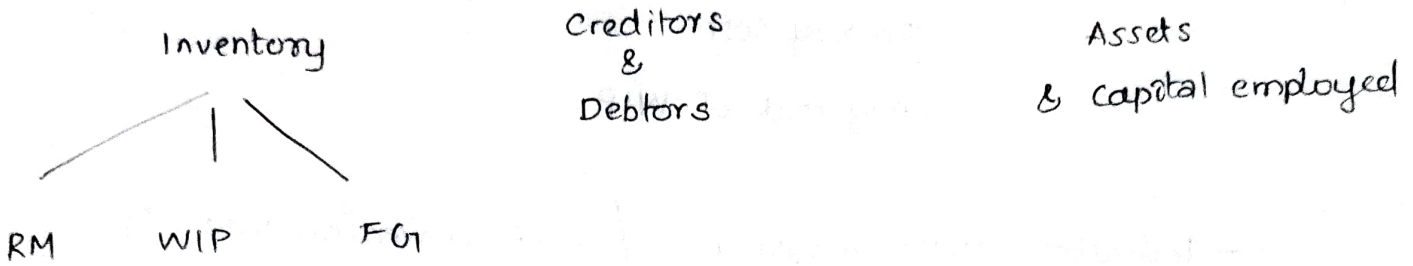
$$\frac{\text{EAT} - \text{Pref. Dividend}}{\text{Equity Dividend}}$$

III) ACTIVITY RATIOS / EFFICIENCY RATIOS /
PERFORMANCE RATIOS / TURNOVER RATIO

Business activity / operations.



Activity Ratio



I) INVENTORY

i) Raw material T/O ratios

$$\frac{\text{Cost of RM consumed}^*}{\text{Avg. stock of RM}^*}$$

$$* \text{ Cost of RM consumed} = \text{opg stock} + \text{pur} - \text{clg stock}$$

$$* \text{ Avg stock of RM} = \frac{\text{opg} + \text{clg stock}}{2}$$

Note: If opg stock not given, then take only closing stock and give a note.

2) WIP T/O ratio

Factory Cost

Avg stock of WIP

- Indicates WIP movement / WIP conversion into FG.
→ ↑ ratio better is the rate of conversion of WIP into FG.

* Factory cost = RM consumed + Wages + Overheads.

* Avg stock of WIP = $\frac{\text{Opg stock} + \text{Clg stock}}{2}$

3) FG T/O ratio / Inventory / Stock T/O ratio

COGS

Avg stock of FG

* Indicates how fast Inventory is used or sold

* ↑ ratio : good ✓

* ~~COGS~~ Avg = $\frac{\text{opg} + \text{clg}}{2}$

* COGS :

→ Manufacturer of goods : → POV:

opg stock of FG + Cost of Prodⁿ - clg stock of FG

→ Trader : - POV:

opg + cost of goods purchased - clg stock of FG

◆ II) CREDITORS / DEBTORS

4) Debtors T/o Ratio (Receivables) T/o Ratio

$$\frac{\text{Credit sale}}{\text{Avg. accounts receivables}}$$

$$\text{Credit sale} = \text{Total sales} - \text{Cash sales} - \text{Sales Return}$$

$$\text{Avg accounts receivables} = \frac{\text{opg bal} + \text{clg bal}}{2}$$

High ratio \rightarrow collections made rapidly.

5) Creditors T/o Ratio (Payable) T/o ratio

$$\frac{\text{Credit purchases}}{\text{Avg account payables}}$$

★ Indicates speed of payment to crs.

$$\star \text{ credit Purchase} = \text{Total purchase} - \text{Cash purchase} - \text{Purchase Return}$$

$$\star \text{ Avg account payable} = \frac{\text{opg bal} + \text{Clg bal}}{2}$$

[crs + Billepayable]

Receivables (Debtors) Velocity / Average collection period

Average accounts receivables

Average daily credit sales

or

12 months / 52 weeks / 360 days

Receivable T/O ratio

* Avg daily credit sales = $\frac{\text{Credit sales}}{\text{No. of days in year [say 360]}}$

Payables T/O Velocity / Average payment period

Average accounts Payable

Average daily credit purchases

or

12 months / 52 weeks / 360 days

Payable T/O ratio

III ASSETS & WORKING CAPITAL

6) Working capital T/O ratio

- operating t/o ratio

- cash T/O ratio

$$\frac{\text{Sales}}{\text{COGS}}$$

$$\text{Net working capital} \rightarrow (\text{C.A} - \text{G.L}) \text{ or } \frac{(\text{opg WC} + \text{alg WC})}{2}$$

↳ Ability to generate sales per rupee of working capital

↳ High ratio → more efficient is utilisation of WC in generating sales

7) Fixed Assets Turnover Ratio

$$\frac{\text{Sales}}{\text{COGS}}$$

$$\text{Net Fixed Assets}$$

* high ratio → indicate efficient utilisation of F.A in generating sales.

$$\text{Net F.A} = \text{F.A} (-) \text{depreciation}$$

8) Capital Turnover Ratio / Net Asset Turnover Ratio

Capital → money invested to run a business.
(Debt + Equity ⇒ capital employed)

$$\frac{\text{Sales / COGS}}{\text{capital employed}}$$

$$\frac{\text{Sales / COGS}}{\text{Net assets}}$$

* firm's ability of generating sales / COGS per rupee of long term investment.

9) Current Assets Turnover Ratio

$$\frac{\text{Sales / COGS}}{\text{current Assets}}$$

IV

PROFITABILITY RATIO

- measure the profitability / operational efficiency.
- reflect the final results of business operations.

Trading & P&L a/c

opg stock	xxx	Sales	xxx
Purchases	xxx	clg stock	xxx
Direct exp	xxx		
gross profit	xxx		xxx
	<u>xxx</u>		<u>xxx</u>
	xxx		
Exps.	xxx	gross profit	xx
Net profit	xxx	other income	xx
	<u>xxx</u>		xxx
	<u>xxx</u>		<u>xxx</u>

Net Profit (-) Tax = Earnings.

Profitability Ratios

(Always represented as %)

Sales

Over all Return on Assets & Investments

Owner's point of view.

I) SALES

1) Gross profit ratio

$$\frac{\text{Gross profit}}{\text{Sales}} \times 100$$

→ Indicators of basic profitability.

2) Net profit ratio

$$\frac{\text{Net profit}}{\text{Sales}} \times 100$$

or

$$\frac{\text{EAT}}{\text{Sales}} \times 100$$

Choose (1) Net profit or (2) EAT depending upon info given in Q

→ Indicator of overall profitability of business.

→ Sales ⇒ Sales - Sales Return.

3) operating profit ratio

$$\frac{\text{operating profit}}{\text{sales}} \times 100$$

or

$$\frac{\text{Earnings before interest \& taxes (EBIT)}}{\text{sales}} \times 100$$

* operating profit \Rightarrow Any profit earned from operations of business.

operating profit \Rightarrow

Net profit as per P&L a/c	xxx
(+) Non operating Exp (eg: Loss on sale of F.A)	xxx
(-) Non operating Income (eg: Profit on sale of F.A)	xxx
	<hr/>
	xx
operating profit	<hr/> <hr/>

$$\text{operating profit} = \text{sales} - \text{COGS} - \text{operating expenses}$$

4) Expenses Ratio

$$\text{COGS Ratio} = \frac{\text{COGS}}{\text{Sales}} \times 100$$

$$\text{Operating expenses ratio} = \frac{\text{Admin. Exp.} + \text{S\&D OH}}{\text{Sales}} \times 100$$

$$\text{Operating ratio} = \frac{\text{COGS} + \text{Operating exp}}{\text{Sales}} \times 100$$

$$\text{Financial Expenses Ratio} \} = \frac{\text{Financial exp}^*}{\text{Sales}} \times 100$$

* → exclude taxes, loss due to theft, goods destroyed by fire etc..

II) PROFITABILITY RATIOS ON THE BASIS OF OVERALL RETURN ON ASSETS & INVESTMENT

Income / Profit statement

	Sales / Revenue	xxx
	(-) Operating expenses	(xxx)
		<hr/>
	Earnings before interest & tax (EBIT)	xxx
	(-) Interest on long term borrowings	(xxx)
		<hr/>
	Earnings before tax (EBT)	xxx
	(-) Tax @ 30%	(xxx)
		<hr/>
	Earnings after tax (EAT)	xxx
	(-) Preference dividend	(xxx)
		<hr/>
	Earnings for ESH's	<u>xxx</u>

(A) RETURN ON INVESTMENT
 $\left\{ \begin{array}{l} \text{ROA} \\ \text{ROCE} \\ \text{ROE} \end{array} \right.$

$$\text{ROI} = \frac{\text{Return / Profit / Earnings}}{\text{Investment}} \times 100$$

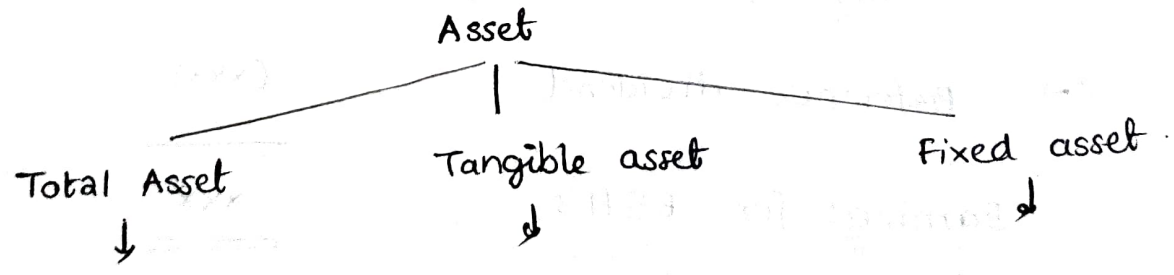
$$= \frac{\text{Return / Profit / Earnings}}{\text{Sales}} \times \frac{\text{Sales}}{\text{Investment}}$$

$$= \text{Profitability ratio} \times \text{Investment Turn ratio}$$

→ % of return on funds invested in the business by its owners.

(i) Return on Assets (ROA)

Return generated per rupee investment in asset

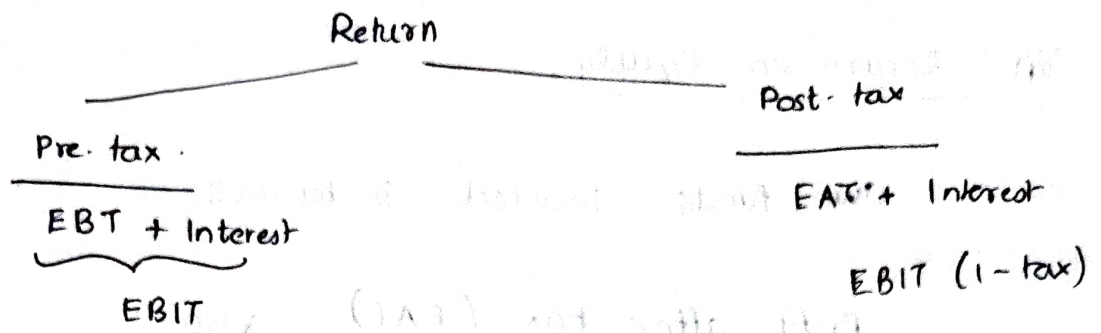


* Total of asset side of BS

* Assets which can be seen & touched
ex: P&M, L&B

* P&M
L&B
Current assets - X

* Fictitious assets are not to be considered:
— Preliminary exp, Adv. Tax, Misc. Exp.



$$\text{Return on Total assets} = \frac{\text{EBIT} / \text{EBIT} (1 - \text{tax})}{\text{Total assets} / \text{tangible assets} / \text{fixed assets}} \times 100$$

(ii) Return on capital employed (ROCE)

$$\frac{\text{Return}}{\text{capital employed}} \times 100$$

- * capital employed \rightarrow Debt + Equity
- * non operating assets are to be excluded.
 - \hookrightarrow ex: Trade Investment.

iii) Return on Equity

Own funds invested in business.

$$\frac{\text{Profit after tax (EAT)}}{\text{Equity}} \times 100$$

Equity

$$* \text{ Equity} = \text{ESC} + \text{R\&S} + \text{Pref. SC} - \text{Accumulated losses}$$

$$* \text{ Equity shareholder's funds} = \text{Equity} - \text{PSC}$$

Return on equity shareholders funds

$$= \frac{\text{EAT} - \text{Preference dividend}}{\text{Eq. Shareholders funds}}$$

Eq. Shareholders funds.

Du Pont Analysis

Du Pont analysis is an extended analysis of a company's return on equity. It concludes that a company can earn a high return on equity if it:

Earns a high net profit margin

uses its assets effectively to generate more sales

Has a high financial leverage.



$$\frac{\text{Net profit}}{\text{Sales}}$$

$$\frac{\text{Sales}}{\text{Assets}}$$

$$\frac{\text{Investment / Asset}}{\text{SH \& Equity}}$$

* Financial Leverage

I) $\frac{\text{own funds}}{\downarrow}$
5,00,000

Profit = 1,00,000
Earning

II) $\frac{\text{own funds} + \text{Debt}}{\downarrow}$
5,00,000 10,00,000

Profit = 3,00,000
(-) Cost = 1,00,000
↳ interest on debt
2,00,000

Leverage =

* Rate of interest on debt should be less than the rate of earning

III PROFITABILITY RATIO FROM OWNER'S POV.

1) Earnings per share (EPS)

2) Earnings available for SH

EAT - Pref dividend

No: of Equity shares

Higher ratio \Rightarrow better it is

2) Dividend per share (DPS)

Profit distributed as equity dividend

No: of Equity shares

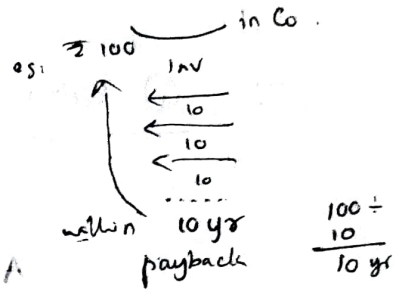
Higher ratio \Rightarrow better it is

3) Dividend Payout Ratio

$$\frac{\text{DPS}}{\text{EPS}}$$

4) Price earning ratio

$$\frac{\text{Market Price of share}}{\text{EPS}}$$



→ Payback period for your investment.

5) Earning yield / Dividend yield

1 share	- Market price	- £100
	- Earnings	- £20
	- Dividend	- £5

$$\text{Earning yield} = \frac{\text{EPS}}{\text{Market price}} \times 100$$

$$\text{Dividend yield} = \frac{\text{DPS}}{\text{Market price}} \times 100$$

6) Market response ratio / Market value - Book values ratio

$$\frac{\text{Market value per share}}{\text{Book value per share}} =$$

7) Q Ratio

$$\text{Asset} = \text{£}5,00,000 \quad \text{MV} = 1,50,000$$

desire to replace : Replacement cost = 2,00,000

$$\text{MV} < \text{Replacement cost}$$

Hence, no benefit ^{an} of replacing it.

$$\text{Q Ratio} = \frac{\text{Market value of all assets}}{\text{Replacement cost of assets.}}$$