Financial Management-A Capsule for Quick Revision





Value of a firm (V) = Number of Shares (N) \times Market price of shares (MP) Or

 $V = Value of equity (V_e) + Value of debt (V_d)$

Three Important Decisions for Achievement of Wealth Maximisation



Conflict between Profit versus Value maximisation Principle:

As a normal tendency, the management may pursue its own personal goals (profit maximization). But in an organization where there is a significant outside participation (shareholding, lenders etc.), the management may not be able to exclusively pursue its personal goals due to the constant supervision of the various stakeholders of the company-employees, creditors, customers, government, etc.

The below table highlights some of the advantages and disadvantages of both profit maximisation and wealth maximization goals

Goal	Objective	Advantages	Disadvantages
Profit Maximization	Large amount of profits	 (i) Easy to calculate profits (ii) Easy to determine the link between financial decisions and profits. 	 (i) Emphasizes the short term gains (ii) Ignores risk or uncertainty (iii)Ignores the timing of returns (iv)Requires immediate resources.
Shareholders Wealth Maximisation	Highest market value of shares	 (i) Emphasizes the long term gains (ii) Recognises risk or uncertainty (iii) Recognises the timing of returns (iv) Considers shareholders' return. 	 (i) Offers no clear relationship between financial decisions and share price. (ii) Can lead to management anxiety and frustration.

Role of Finance executive in today's World vis-a-vis in the past

Today, the role of chief financial officer, or CFO, is no longer confined to accounting, financial reporting and risk management. Some of the key differences that highlight the changing role of a CFO are as follows

What a CFO used to do?	What a CFO now does?
Budgeting	Budgeting
Forecasting	Forecasting
Accounting	Managing M & As
Treasury (cash management)	Profitability analysis (for example, by customer or product)
Preparing internal financial reports for management.	Pricing analysis
Preparing quarterly, annual filings for investors.	Decisions about outsourcing
Tax filing	Overseeing the IT function.
Tracking accounts payable and accounts receivable.	Overseeing the HR function.
Travel and entertainment expense management.	Strategic planning (sometimes overseeing this function).
	Regulatory compliance.
	Risk management.

Relationship of financial management with related disciplines:

Financial management is not a totally independent area. It draws heavily on related disciplines and areas of study namely economics, accounting, production, marketing and quantitative methods. Even though these disciplines are inter-related, there are key differences among them.

Financial Management and Accounting:	Treatment of Funds	In accounting, the measurement of funds is based on the accrual principle.	
		The treatment of funds in financial management is based on cash flows.	

Decision – making	Chief focus of an accountant is to collect data and present the data.	
	The financial manager's primary responsibility relates to financial planning, controlling and decision making.	

Financial Management and Other Related Disciplines:

Financial management also draws on other related disciplines such as marketing, production and quantitative methods apart from accounting. For instance, financial managers should consider the impact of new product development and promotion plans made in the marketing area since their plans will require capital outlays and have an impact on the projected cash flows.

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TYPES OF FINANCING



Sources of Finance

- 1. Share capital or Equity shares
- 6. Loans from State Financial Corporations

- 10. International financing like Euro-issues, Foreign currency loans
- 3. Public deposits/fixed deposits for duration of three years
- 4. Medium term loans from Commercial banks, Financial Institutions, State Financial Corporations
- 5. Lease financing/Hire-Purchase financing
- 6. External commercial borrowings

- 2. Accrued expenses and deferred income
- 3. Short term loans like Working Capital Loans from Commercial banks

Owner's Capital or Equity Capital:

A public limited company may raise funds from promoters or from the investing public by way of owner's capital or equity capital by issuing ordinary equity shares.

Preference Share Capital:

These are a special kind of shares; the holders of such shares enjoy priority, both as regards to the payment of a fixed amount of dividend and also towards repayment of capital on winding up of the company

Sources of Finance based on Maturity of Payment

Sources of finance based on maturity of payment can be classified as

Debt Securitisation:

Securitization is a process in which illiquid assets are pooled into marketable securities that can be sold to investors. The process leads to the creation of financial instruments that represent ownership interest in, or are secured by a segregated income producing asset or more of security. pool of assets.

Lease Financing:

Leasing is a general contract between the owner and user of the asset over a specified period of time. The asset is purchased initially by the lessor (leasing company) and thereafter leased to the user (lessee company) which pays a specified rent at periodical intervals.

Short term Sources of Finance:

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There are various sources available to meet short-term needs of finance. The different sources are as shown alongside

even the economy in general for the purpose of financial analysis.

Types of the Ratios is as given slongside:

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FINANCIAL ANALYSIS AND PLANNING - RATIO ANALYSIS



Summary of Ratios:

Summary of the ratios has been tabulated as under

Ratio	Formulae	Comments				
Liquidity Ratio	Liquidity Ratio					
Current Ratio	Current Assets Current Liabilities	A simple measure that estimates whether the business can pay short term debts. Ideal ratio is 2 : 1.				
Quick Ratio	Quick Assets Current Liabilities	It measures the ability to meet current debt immediately. Ideal ratio is 1 : 1.				
Cash Ratio	(Cash and Bank Balances + Marketable Securities)	It measures absolute liquidity of the business.				
	Current Liabilities					

Basic Defense Interval Ratio (Cash and Bank Balances + Marketable Securities)		It measures the ability of the business to meet regular cash expenditures.		
	Operating Expenses – No. of days			
Net Working Capital Ratio	Current Assets – Current Liabilities	It is a measure of cash flow to determine the ability of business to survive financial crisis.		
Capital Structure Ratio				
Equity Ratio	Shareholders' Equity	It indicates owner's fund in companies to total fund invested.		
	Capital Employed			
Debt Ratio	Total Outside Liablilities	It is an indicator of use of outside funds.		
	Total Debt + Net Worth			
Debt to equity Ratio	Total Outside Liabilities	It indicates the composition of capital structure in terms of debt		
	Shareholders' Equity	and equity.		
Debt to Total assets Ratio	Total Outside Liabilities	It measures how much of total assets is financed by the debt.		
	Total Assets			
Capital Gearing Ratio	(Preference Share Capital +	It shows the proportion of fixed interest bearing capital to equity		
	Debentures	shareholders' fund. It also signifies the advantage of financial		
	+ Other Borrowed Funds)	leverage to the equity shareholder.		
	(Equity Share Capital +			
	Reserves & Surplus – Losses)			
Proprietary Ratio	Prorietary Fund	It measures the proportion of total assets financed by shareholders		
Coverage Dation	Iotal Assets			
Coverage Ratios	Earnings available for debt service	It measures the ability to meet the commitment of various debt		
(DSCR)		services like interest, installment etc. Ideal ratio is 2.		
Interest Coverage Patie	EDIT	It measures the shility of the huginess to most interest. I deal ratio		
Interest Coverage Natio	Interest	is > 1.		
Preference Dividend Coverage	Net Profit/Earning after taxes (EAT)	It measures the ability to pay the preference shareholders' dividend. Ideal ratio is > 1.		
Ratio	Preference dividend liability			
Fixed Charges Coverage Ratio	EBIT + Depreciation	This ratio shows how many times the cash flow before interest		
	Interest + Re-payment of loan	and taxes covers all fixed financing charges. The ideal ratio is > 1		
A stivity Datis / Effection on Datis	1 – tax rate			
Total Assot Turnover Patio	Solos/COGS	A measure of total assat utilization. It halps to answer the question		
Total Asset Turnover Ratio		What sales are being generated by each rupee's		
	Average Total Assets	worth of assets invested in the business?		
Fixed Assets Turnover Ratio	Sales/COGS	This ratio is about fixed asset capacity. A reducing sales or profit		
	Fixed Assets	being generated from each rupee invested in fixed assets may indicate overcapacity or poorer-performing equipment		
Capital Turnover Ratio	Sales/COGS	This indicates the firm's ability to generate sales per rupee of long		
	Net Assets	term investment.		
Working Capital Turnover	Sales/COGS	It measures the efficiency of the firm to use working capital.		
Ratio	Working Capital			
Inventory Turnover Ratio	COGS/Sales	It measures the efficiency of the firm to manage its inventory.		
	Average Inventory			
Debtors Turnover Ratio	Credit Sales	It measures the efficiency at which firm is managing its		
	Average Accounts Receivable	receivables.		

Receivables (Debtors') Velocity	Average Accounts Receivable	It measures the velocity of collection of receivables.	
	Average Daily Credit Sales		
Payables Turnover Ratio	Annual Net Credit Purchases	It measures the velocity of payables payment.	
	Average Accounts Payables		
Profitability Ratios based on Sa	les		
Gross Profit Ratio	Gross Profit x 100	This ratio tells us something about the business's ability	
	Sales	consistently to control its production costs or to manage the margins it makes on products it buys and sells.	
Net Profit Ratio	Net Profit x 100	It measures the relationship between net profit and sales of the	
	Sales	business.	
Operating Profit Ratio	$\frac{\text{Operating Profit}}{x 100}$	It measures operating performance of business.	
	Sales		
Expenses Ratio			
Cost of Goods Sold (COGS)	COGS x 100		
Ratio Sales			
Operating Expenses Ratio	Administrative evp +		
	Selling & Distribution OH		
	Selling & Distribution OH Sales x 100	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio	Selling & Distribution OH Sales COGS + Operating Expenses x 100	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio	Selling & Distribution OH Sales COGS + Operating Expenses x 100 Sales	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio	Selling & Distribution OH Sales COGS + Operating Expenses x 100 Sales	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio Financial Expenses Ratio	Selling & Distribution OH Sales COGS + Operating Expenses x 100 Sales X 100	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio Financial Expenses Ratio Profitability Ratios related to O	Selling & Distribution OH Sales COGS + Operating Expenses x 100 Sales Financial Expenses x 100 Sales Verall Return on Assets/ Investments	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio Financial Expenses Ratio Profitability Ratios related to O Return on Investment (ROI)	Selling & Distribution OH Sales COGS + Operating Expenses x 100 Sales Financial Expenses x 100 Sales verall Return on Assets/ Investments Return/ Profit / Earnings x 100	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio Financial Expenses Ratio Profitability Ratios related to O Return on Investment (ROI)	Selling & Distribution OH x 100 Sales x 100 COGS + Operating Expenses x 100 Sales x 100	It measures portion of a particular expenses in comparison to sales.	
Operating Ratio Financial Expenses Ratio Profitability Ratios related to O Return on Investment (ROI) Return on Assets (ROA)	Selling & Distribution OH Sales COGS + Operating Expenses x 100 Sales Einancial Expenses x 100 Sales x 100 Investments Net Profit after taxes Aurorage Total Accepts x 100	It measures portion of a particular expenses in comparison to sales. It measures overall return of the business on investment/ equity funds/ capital employed/ assets. It measures net profit per rupee of average total assets/ average tangible assets/ average	
Operating Ratio Financial Expenses Ratio Profitability Ratios related to O Return on Investment (ROI) Return on Assets (ROA)	Selling & Distribution OH x 100 Sales x 100 Net Profit / Earnings x 100 Investments x 100 Average Total Assets x 100	It measures portion of a particular expenses in comparison to sales. It measures overall return of the business on investment/ equity funds/ capital employed/ assets. It measures net profit per rupee of average total assets/ average tangible assets/ average fixed assets.	
Operating Ratio Financial Expenses Ratio Profitability Ratios related to O Return on Investment (ROI) Return on Assets (ROA) Return on Capital Employed ROCE (Pre-tax)	Selling & Distribution OH x 100 Sales x 100 Net Profit after taxes x 100 Average Total Assets x 100 EBIT x 100	It measures portion of a particular expenses in comparison to sales. It measures overall return of the business on investment/ equity funds/ capital employed/ assets. It measures net profit per rupee of average total assets/ average tangible assets/ average fixed assets. It measures overall earnings (either pre-tax or post tax) on total capital employed.	
Operating Ratio Financial Expenses Ratio Profitability Ratios related to O Return on Investment (ROI) Return on Assets (ROA) Return on Capital Employed ROCE (Pre-tax)	Selling & Distribution OH x 100 Sales x 100 Investments x 100 Average Total Assets x 100 Capital Employed x 100	It measures portion of a particular expenses in comparison to sales. It measures overall return of the business on investment/ equity funds/ capital employed/ assets. It measures net profit per rupee of average total assets/ average tangible assets/ average fixed assets. It measures overall earnings (either pre-tax or post tax) on total capital employed.	

Users and Objective of Financial Analysis : A Bird's Eye view

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Financial Statement analysis is useful to various shareholders to obtain the derived information about the firm

S.No.	Users	Objectives	Ratios used in general	
1.	Shareholders	Being owners of the organisation they are interested	Mainly Profitability Ratio [In particular	
		to know about profitability and growth of the	Earning per share (EPS), Dividend per	
		organization	share (DPS), Price Earnings (P/E), Dividend	
			Payout ratio (DP)]	
2.	Investors	They are interested to know overall financial health of	Profitability Ratios	
		the organisation particularly future perspective of the	Capital structure Ratios	
		organisations.	Solvency Ratios	
			Turnover Ratios	
3.	Lenders	They will keep an eye on the safety perspective of their	Coverage Ratios	
		money lended to the organisation	Solvency Ratios	
			Turnover Ratios	
			Profitability Ratios	

4.	Creditors	They are interested to know liability position of the organisation particularly in short term. Creditors would like to know whether the organisation will be able to pay the amount on due date.	 Liquidity Ratios Short term solvency Ratios/ Liquidity Ratios
5.	Employees	They will be interested to know the overall financial wealth of the organisation and compare it with competitor company.	 Liquidity Ratios Long terms solvency Ratios Profitability Ratios Return of investment
6.	Regulator / Government	They will analyse the financial statements to determine taxations and other details payable to the government.	Profitability Ratios
7.	Managers:-		
	(a) Production Managers	They are interested to know various data regarding input output, production quantities etc.	Input output RatioRaw material consumption.
	(b) Sales Managers	Data related to quantities of sales for various years, other associated figures and produced future sales figure will be an area of interest for them	 Turnover ratios (basically receivable turnover ratio) Expenses Ratios
	(c) Financial Manager	They are interested to know various ratios for their future predictions of financial requirement.	 Profitability Ratios (particularly related to Return on investment) Turnover ratios Capital Structure Ratios
	Chief Executive/ General Manager	They will try to find the entire perspective of the company, starting from Sales, Finance, Inventory, Human resources, Production etc.	All Ratios
8.	Different Industry		
	(a) Telecom		Ratio related to 'call'Revenue and expenses per customer
	(b) Bank	Finance Manager /Analyst will calculate ratios of their	Loan to deposit RatiosOperating expenses and income ratios
	(c) Hotel	company and compare it with Industry norms.	Room occupancy ratioBed occupancy Ratios
	(d) Transport		Passenger -kilometreOperating cost - per passenger kilometre.

COST OF CAPITAL



Cost of capital is the return expected by the providers of capital (i.e. shareholders, lenders and the debt-holders) to the business as a compensation for their contribution to the total capital. It is also known as Discount rate, Minimum rate of return etc. It can also be stated as the opportunity cost of an investment, i.e. the rate of return that a company would otherwise be able to earn at the same risk level as the investment that has been selected.

Sources of Capital: Equity shares Preference shares Debentures/ Bond/ other debt instruments Loan from financial institutions Determination of the Cost of Capital:

Explicit/ Implicit: The cost of capital can either be explicit or implicit. The cash outflow of an entity towards the utilization of capital which is clear and obvious is termed as explicit cost of capital. On the other hand, Implicit cost is the cost which is actually not a cash outflow but it is an opportunity loss of foregoing a better investment opportunity by choosing an alternative option.



Where, I = Interest payment NP = Net proceeds from debentures in case of new issue of debt or Current market price in case of existing debt. RV = Redemption value of debentures t = Tax rate applicable to the company n = Life of debentures

Dividend Price Approach with Constant Dividend

Ke = $\frac{D}{P_0}$ Where, P_0

- Ke = Cost of equity D = Expected dividend
- $P_0 =$ Market price of equity (ex-dividend)

Dividend Price Approach with Constant Growth

Ke = $\frac{D_1}{P_o}$ +g Where, $D_1 = [D_0 (1+g)]$ i.e. next expected dividend

- $P_0 = Current Market price per share$ g = Constant Growth Rate of Dividend
- g = Constant Growth Kate of Dividend

Earning/ Price Approach with constant Earning:

 $K_e = \frac{E}{P}$

Where,

- E = Current earnings per share
- P = Market share price

Earnings/ Price Approach with Growth in Earnings:

$$\begin{split} K_e &= \frac{E}{P} + g \\ Where, \\ E &= Current earnings per share \\ P &= Market price per share \\ g &= Annual growth rate of earnings. \end{split}$$

FINANCIAL MANAGEMENT

Realized Yield Approach:

According to this approach, the average rate of return realized in the past few years is historically regarded as 'expected return' in the future. It computes cost of equity based on the past records of dividends actually realised by the equity shareholders.

Capital Asset Pricing Model Approach (CAPM):

K _e = R _f + ß Where,	(R _m – R _f)		
	K	=	Cost of equity capital
	R _f	=	Risk free rate of return
	ß	=	Beta coefficient
	R _m	=	Rate of return on market portfolio
	$(R_m^m - R_f)$	=	Market premium

Cost of Retained Earnings

Like another source of fund, retained earnings involve cost. It is the opportunity cost of dividends foregone by shareholders.

In absence of any information on personal tax (t_p): Cost of Retained Earnings (K_s) = Cost of Equity Shares (K_e) If there is any information on personal tax (tp): K_s = Ke -t_p



Weighted Average Cost Of Capital (WACC):

It is an average rate of return expected by all contributors of capital taking the weight of each element of capital to total capital

WACC (K_o) = (% Debt × K_d) + (% Preff. Capital × K_p) + (% Equity Capital × K_e)

Marginal Cost of Capital:

It is the cost of raising an additional rupee of capital. Since the capital is raised in substantial amount in practice, marginal cost is referred to as the cost incurred in raising new funds.

To calculate the marginal cost of capital, the intended financing proportion should be applied as weights to marginal component costs. The marginal cost of capital should, therefore, be calculated in the composite sense. The marginal weights represent the proportion of funds the firm intends to employ.

FINANCING DECISIONS-CAPITAL STRUCTURE





FINANCIAL MANAGEMENT FINANCING DECISIONS- LEVERAGES



Chart Showing Operating Leverage, Financial Leverage and Combined Leverage

Profitability Statement			
Sales	xxx		
Less: Variable Cost	(xxx)		
Contribution	xxx	Operating	
Less: Fixed Cost	(xxx)	Leverage	
Operating Profit/ EBIT	xxx	J	Combined Leverage
Less: Interest	(xxx)	Financial Leverage	Leverage
Earnings Before Tax (EBT)	xxx	J	J
Less: Tax	(xxx)		
Profit After Tax (PAT)	xxx		
<i>Less</i> : Pref. Dividend (if any)	(xxx)		
Net Earnings available to equity shareholders/ PAT	XXX		
No. Equity shares (N)			
Earnings per Share (EPS) = (PAT ÷ N)			

Operating Leverage:

Operating leverage (OL) maybe defined as the employment of an asset with a fixed cost in the hope that sufficient revenue will be generated to cover all the fixed and variable costs.

Operating leverage =

Contribution EBIT

% change in EBIT Degree of Operating Leverage (DOL) = % change in Sales

Positive and Negative Operating Leverage:



FINANCIAL MANAGEMENT Combined Leverage:



Financial Leverage:



Chapter Overview

Generally, capital investment decisions are classified in two ways. One way is to classify them on the basis of firm's existence. Another way is to classify them on the basis of decision situation.



Estimation of Project Cash Flows

Capital Budgeting analysis considers only incremental cash flows from an investment likely to result due to acceptance of any project. Therefore, one of the most important tasks in capital budgeting is estimating future cash flows for a project.

Calculating Cash Flows

Particulars	No Depreciation is Charged	Depreciation is Charged
	(₹Crore)	(₹Crore)
Total Sales	***	物标准
Less: Cost of Goods Sold	***	***
	非非非	非非非
Less: Depreciation	-	非非非
Profit before tax	***	***
Tax @ 30%	***	按标告
Profit after Tax	***	***
Add: Depreciation*	-	***
Cash Flow	***	泰泰泰

* Being non-cash expenditure, depreciation has been added back while calculating the cash flow.

Statement showing the calculation of Cash Inflow after Tax (CFAT):

Sl. no.		(₹)
1	Total Sales Units	xxx
2	Selling Price per unit	xxx
3.	Total Sales $[1 \times 2]$	xxx
4.	Less: Variable Cost	xxx
5.	Contribution [3 - 4]	xxx

6.	Less: Fixed Cost	
	(a) Fixed Cash Cost	xxx
	(b) Depreciation	xxx
7.	Earning Before Tax [6 - 7]	xxx
8.	Less: Tax	xxx
9.	Earning After Tax [7-8]	xxx
10.	Add: Depreciation	xxx
11.	Cash Inflow After Tax (CFAT) [9 +10]	xxx

Capital Budgeting Techniques:

In order to maximise the return to the shareholders of a company, it is important that the best or most profitable investment projects are selected as the results for making a bad long-term investment decision can be both financially and strategically devastating, particular care needs to be taken with investment project selection and evaluation.

There are a number of techniques available for appraisal of investment proposals and can be classified as presented below:



Payback Period:

The payback period of an investment is the length of time required for the cumulative total net cash flows from the investment to equal the total initial cash outlay.

Payback period	_	Total initial capital investment
rayback period -	_	Annual expected after-tax net cash flow

Accounting (Book) Rate of Return (ARR):

The accounting rate of return of an investment measures the average annual net income of the project (incremental income) as a percentage of the investment.



Summary of Decision criteria of Capital Budgeting techniques:

Techniques		For Independent Project	For Mutually Exclusive Projects
Non- Discounted	Pay Back	 (i) When Payback period ≤ Maximum Acceptable Payback period: Accepted (ii) When Payback period ≥ Maximum Acceptable Payback period: Rejected 	Project with least Payback period should be selected
	Accounting Rate of Return (ARR)	 (i) When ARR ≥ Minimum Acceptable Rate of Return: Accepted (ii) When ARR ≤ Minimum Acceptable Rate of Return: Rejected 	Project with the maximum ARR should be selected.
Discounted	Net Present Value (NPV)	(i) When NPV > 0: Accepted(ii) When NPV < 0: Rejected	Project with the highest positive NPV should be selected
	Profitability Index(PI)	 (i) When PI > 1: Accepted (ii) When PI < 1: Rejected 	When Net Present Value is same, project with Highest PI should be selected
	Internal Rate of Return (IRR)	 (i) When IRR > K: Accepted (ii) When IRR < K: Rejected 	Project with the maximum IRR should be selected





Operating/ Working Capital Cycle: Working Capital cycle indicates the length of time between a company's paying for materials, entering into stock and receiving the cash from sales of finished goods.



Where,

- R = Raw material storage period
- W = Work-in-progress holding period
- F = Finished goods storage period
- D = Receivables (Debtors) collection period.
- C = Credit period allowed by suppliers (Creditors).

FINANCIAL MANAGEMENT

The various components of Operating Cycle may be calculated as shown below:

(1)	Raw Material Storage Period	= <u>Avereage stock of Raw material</u> Average Cost of Raw material Consumption per day
(2)	Work-in-Progress holding period	= Avg Work-in-progress inventory Average Cost of Production per day
(3)	Finished Goods storage period	= <u>Average stock of finished goods</u> Average Cost of Goods Sold per day
(4)	Receivables (Debtors) collection period	= <u>Average Receivables</u> Average Credit Sales per day
(5)	Credit period allowed by suppliers (Creditors)	= <u>Average Payables</u> Average Credit Purchases per day

Estimation of Amount of Different Components of Current Assets and Current Liabilities

(i) Raw Materials Inventory:

Estimated Production (units) 12 months / 365 days * Estimated Cost per unit × Average raw material storage period

(ii) Work-in-Progress Inventory:

Estimated Production (units)		v Estimated	W/ID	cost r	nor	on unit	
12 months / 365 days *	^	Average W	-I-P ŀ	oldir	per 19 ne	riod	Ŷ

(iii) Finished Goods:

Estimated Production (units) 12 months / 365 days * × Estimated Cost of production per unit × Average storage period

(iv) Receivables (Debtors):

Estimated Credit Sales unit 12 months / 365 days * ×Cost of sales (excluding depreciation) per unit × Average collection period

(v) Cash and Cash equivalents: Minimum desired Cash and Bank balance to be maintained

(vi) Trade Payables (Creditors):

Estimated credit purchase 12 months / 365 days * Credit period allowed by suppliers

(vii) Direct Wages:

Estimated labour hours x wages rate per hour 12 months / 365 days *

 Average time lag in payment of wages

(viii) Overheads (other than depreciation and amortization):

Estimated Overheads 12 months / 360 days * verheads

*Number of days in a year may be taken as 365 or 360 days.

Estimation of Working Capital Requirements

		Amount	Amount	Amount
I.	Current Assets:			
	Inventories:			
	- Raw Materials			
	- Work-in-process			
	- Finished goods			
	Receivables:			
	- Trade debtors			
	- Bills			
	Minimum Cash Balance			
	Gross Working Capital			
II.	Current Liabilities:			
	Trade Payables			
	Bills Payables			
	Wages Payables			
	Payables for overheads			
III.	Excess of Current Assets over Current Liabilities [I – II]			
IV.	Add: Safety Margin			
V.	Net Working Capital [III + IV]			

MANAGEMENT OF RECEIVABLES

Approaches of Evaluation of Credit Policies

There are basically two methods of evaluating the credit policies to be adopted by a Company – Total Approach and Incremental Approach. The formats for the two approaches are given as under:

Statement showing the Evaluation of Credit Policies (based on Total Approach)

Particulars	Present Policy	Proposed Policy I	Proposed Policy II	Proposed Policy III
	₹	₹	₹	₹
A. Expected Profit:				
(a) Credit Sales				
(b) Total Cost other than Bad Debts and Cash Discount				
(i) Variable Costs				
(ii) Fixed Costs				
(c) Bad Debts				
(d) Cash discount				

(e) Expected Net Profit before Tax (a-b-c-d)	 	
(f) Less: Tax	 	
(g) Expected Profit after Tax	 	
B. Opportunity Cost of Investments in Receivables locked up in Collection Period	 	
Net Benefits (A – B)	 	

Statement showing the Evaluation of Credit Policies (based on Incremental Approach)

Particulars	Present Policy days	Proposed Policy I days	Proposed Policy II days	Proposed Policy III days	
	₹	₹	₹	₹	
A. Incremental Expected Profit:					
Credit Sales					
(a) Incremental Credit Sales					
(b) Less: Incremental Costs of Credit Sales					
(i) Variable Costs					
(ii) Fixed Costs					
(c) Incremental Bad Debt Losses					
(d) Incremental Cash Discount					
(e) Incremental Expected Profit (a-b-c-d)					
(f) Less: Tax					
(g) Incremental Expected Profit after Tax					
B. Required Return on Incremental Investments:					
(a) Cost of Credit Sales					
(b) Collection Period (in days)					

(c) Investment in			 	Financing of Receivables
b/365 or 360)				(i) Pledging: This refers to the use of a firm's receivable to secure a short term loan
(d) Incremental Investment in Receivables			 	(ii) Factoring: This refers to outright sale of accounts receivables to a factor or a financial agency.
(e) Required Rate of Return (in %)			 	Factor Customers send The factor pays
(f) Required Return on Incremental Investments (d x e)			 	factor an agreed-upon percentage of the accounts receivable to the firm.
Incremental Net Benefits (A – B)	•••••	•••••	 	Customer Firm Goods

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The basic format of evaluating factoring proposal is given as under: Statement showing the Evaluation of Factoring Proposal

	Particulars	₹
А.	Annual Savings (Benefit) on taking Factoring Service	
	Cost of Credit Administration saved	
	Bad Debts avoided	
	Interest saved due to reduction in Average collection period (Wherever applicable)	
	[Cost of Annual Credit Sales × Rate of Interest × (Present Collection Period – New Collection Period)/360* days]	
	Total	
В.	Annual Cost of Factoring to the Firm:	
	Factoring Commission [Annual credit Sales × % of Commission (or calculated annually)]	
	Interest Charged by Factor on advance (or calculated annually)	
	[Amount available for advance or (Annual Credit Sales – Factoring Commission – Factoring Reserve)] ×	
	[<u>Collection Period (days)</u> x Rate of Interest] 360 *	
	Total	
C.	Net Annual Benefits/Cost of Factoring to the Firm:	
	Rate of Effective Cost of Factoring to the Firm	
	$= \frac{\text{Net Annual cost of Factoring}}{\text{Amount available for advance}} \times 100 \text{ or}$	
	$\frac{\text{Net annual Cost of Factoring}}{\text{Advances to be paid}} \times 100$	
	Advances to be paid = (Amount available for advance – Interest deducted by factor)	