CA IPC & INTER

Financial Management

1 Day Marathon Revision





CA RAHUL GARG

B.COM, FCA, LCS, ACMA, DISA (ICAI), CFA (ICFAI), MBA, ADV. DIP. MGT.

ALL INDIA RANKHOLDER
in CA, CS, CMA (incl. AIR 1)
GOLD MEDALIST

Tribute to my Beloved Elder Brother

SACHIN GARG

(Inspiration for me and all my students) who left for heavenly abode on 3rd May, 2015





COST AND WORKS ACCOUNTS EXAM

"No excuses for go-getters"

Monetary hardship, partial vision loss and a parent's illness, could not stand in the way of 23-year-old Rahul's success. Today, Rahul who is also a qualified CA and CS, is in a position to care for his parents and chart out a successful career for himself. He aspires to start his own practice at the age of 35

by Urmila Rao

his Chandigarh boy appeared for the CWA exam in June 2009, and simultaneously wrote the Company Secretary (CS) final exams. "I had cleared the second levels i.e., the Intermediate Levels of both CWA and CS, securing first rank in the former and fourth in CS," says Rahul. "One is eligible to attend both the exams, without the dates overlapping," he adds

CWA course can be completed in three stages; Foundation, Intermediate and Final. Minimum eligibility for the Foundation is Class 12. Graduates are exempted from the Foundation Level

The CWA qualification trains a candidate in areas of accounting, cost and management, audit and tax functions among others, and a CWA professional maintains and scrutinises statutory book of accounts, prepares cash budgets, cash flow statements. Of late, they also provide consultancy services to corporate business houses.

"Enrolment to the Intermediate/ Foundation Course is open throughout the year and the exams are conducted in June and December," he shares.

A certified CWA and CS, Rahul is



RAHUL GARG

LOCATION: Chandigarh ROLL NO: 900879

PERCENTAGE: 64.38

YEAR: 2009

RAHUL'S STUDY STRATEGIES

- Allotted five hours a day for two months to his toughest subjects - Management Accounting & Financial Analysis and Direct Taxes. Coaching in these areas also helped
- Referred to books by Munish Bhandari for Law, V K Aggarwal for Auditing, and Bangar for Indirect Taxes. His favourites are Tulsian and G Sekar
- Coaching classes helped but it was his self-study which helped him ace professional exams such as CA, CS and CWA
- A positive attitude was a must, and he put in "200 percent" in attempt 1, as failure and reappearing for an exam was not an option

also a qualified Chartered Accountant, currently working as senior In-charge, Accountant and Assurance at global firm Grant Thornton

After completing Class 12 at the Government Model School in 2004 and topping with 90,20 percent marks, Rahul enrolled in the CA course simultaneously with BCom, graduated in 2006 and obtained CA qualification in 2008.

But the journey to the top was not easy. Rahul, the third and youngest child in the family, was no stranger to financial hardships. His father is a driver by profession and his mother, a homemaker. And by sheer bad luck, Rahul lost partial vision during a game of bow and arrows.

But despite tough times during

childhood, Rahul's confidence reigns supreme, "For go-getters, there are no excuses," says Rahul. Inspired by his neighbours whose economic situation improved immensely after a family member became a Chartered Accountant after completing the CA programme successfully, Rahul decided to follow suit. "The fact that a CA has the authority to authenticate a company's balance sheet, also fascinated me," says Rahul.

Currently pursuing Chartered Financial Analyst (CFA) Programme and an MBA (Finance) from ICFAI, the ambitious young man aims to complete both courses in a span of two years and get a dual degree. Next in the line are, an I.S.A (Information Systems Audit) from Institute of Chartered Accountants of India, followed by certificates from CIMA (Chartered Institutes of Management Accountants, UK) and IMA (Institute of Management Accountants, USA).

"I want to study and be recognised in my area of work," he says about his acquisitions. Though the CWA qualification is perceived as being a notch below CA with a 40-45 percent of average salary difference, it's the diverse knowledge and increased perspective that is fascinating. "A wider knowledge base will enable me to hold a top corporate position at an early age," he says.

Despite his doctor's advice not to strain his eyes, Rahul remains academically active. Post work, he coaches CA and CWA aspirants. He has also authored four books for commerce graduates. "I have presented the content in a simple, systematic, interesting format," says Rahul, who wants to start his own practice by the time he turns 35. 9

Chandigarh Toppers of Cost FM (May 2016)

- 1. Shreshtha (on Left) 91 Marks
- 2. Iram (on Right) 73 Marks



With ICAI(Cost)
President Sh.
Kunal Banerjee
(for getting All India
Rank 1)

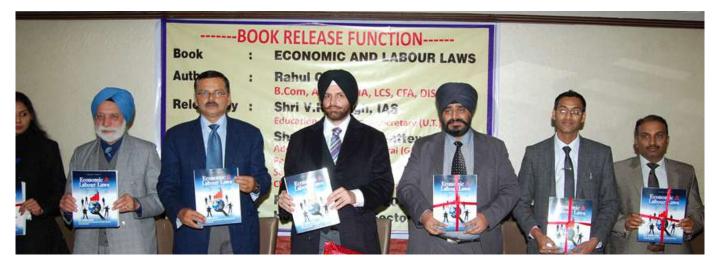




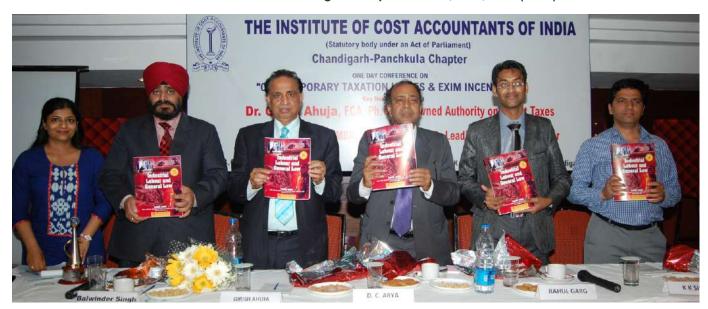
Awarded by Chief
Justice Sh.
P.N.Bhagwati in
presence of Sh. Atal
Bihari Vajpayee



Being Awarded with CA Degree by ICAl President Sh.
Amarjit Chopra



"Economic & Labour Laws" book being released by Education Minister of UT Sh. VK Singh (IAS) in presence of then Chairman of Chandigarh chapter of ICAI, ICSI, ICAI (Cost)



"Industrial, Labour & General Laws" book being released by Dr. Girish Ahuja (A Renowned Personality in Direct Taxes) and Dr. D.C. Arya (Director Finance of Indian Railway)

A brief about Rahul Garg

- Broke LIMCA BOOK OF RECORDS by being youngest in India to clear all the 3
 professional courses CA, CS, CMA at the age of 22 years 7 months with Ranks (A
 Record).
- 2. 5 times All India Rankholder in Professional Exams (A Record).
- 3. Scored SINGLE DIGIT RANK 3 times (including All India Rank 1).
- 4. Undisputed achiever of all 3 professional exams with ALL INDIA RANK in ALL.
- 5. Achieved **exemption in 40+ papers** out of total 50 papers held by CA, CS, CMA institutes in his academic career.
- 6. Awarded by **Mr. Atal Bihari Vajpayee** in 2010 for exceptional performance in Academics.
- 7. One of the **best motivator** in India.
- 8. Covered by the National Magazine 'Career 360' amongst 12 National Toppers in 2010.
- 9. Specialist in Time management and Stress management skills.

Love for the subject COST ACCOUNTING & FM

- 1. First in India to provide Multi Colour Theory notes in Cost FM.
- 2. **Tabular** and **Diagrammatic presentation** of Theory to create interest.
- 3. Important points of theory Specially marked for last minute revision.
- 4. **Simple and lucid language** in theory for easy understanding.
- 5. Only one in India to cover more than **2000 Practical Questions** in Cost FM.
- 6. More than 90% coverage of Practical Questions in CA IPCC Exams since May 2014 from Rahul sir's notes.
- 7. His student Shareshtha Kadian scored 91 Marks in Cost FM in May 2016.
- 8. Focus on 100% conceptual clarity and maximum practice of questions.
- 9. **Special focus on Presentation** and "How to Attempt" to score more than average marks.

RANK Certificate for All India Rank 41 (May 06) in CA PE II Exam (now CA Inter)





The Institute of Chartered Accountants of India

Rank Certificate

This is to certify that

RAHUL GARG

has passed the

Professional Education Examination - II
held by

The Institute of Chartered Accountants of India

in the month of MAY, 2006

and that he/she obtained FORTYFIRST

rank

in that Examination.

Date 29TH JULY, 2006



Joint Secretary (Examinations)

RANK Certificate for All India Rank 4 (June 08) in CS Inter Exam



Certificate of Merit

This is to certify that

RAHUL GARG

has passed all the papers of the

INTERMEDIATE EXAMINATION

of Company Secretaryship held in the month of

JUNE, 2008

and has secured

FOURTH RANK

in the order of merit in the said examination.

Date of Issue:

1st December, 2008

Roll Number:

12715

MC Number:

473

Authorised Signatory

Secretary & CEO

RANK Certificate for All India Rank 13 (June 09) in CS Professional (Final) Exam



Certificate of Merit

This is to certify that

RAHUL GARG

has passed all the papers of the

PROFESSIONAL PROGRAMME EXAMINATION

of Company Secretaryship held in the month of

JUNE, 2009 and has secured

THIRTEENTH RANK

in the order of merit in the said examination.

Date of Issue:

11 January, 2010

Roll Number:

57870

MC Number:

1,053

Authorised Signatory

Secretary & CEO

RANK Certificate for All India Rank 1 (June 08) in CMA Inter Exams

T. n. No. NRS/012986

And that and Works Accountants of the State of Control of Control

This Rank Certificate is awarded to

RAHUL GARG

for his/her having passed in one sitting all the subjects of the Intermediate Examination of The Institute of Cost and Works Accountants of India held in the month of June 2008 and for his/her having secured the First Rank.

Given under the Common Seal of The Institute of Cost and Works Accountants of India, this Twenty fourth day of August, 2008.



Institute's Gold Medal for **All India Rank 1** (June 08) in CMA Inter Exams

NRS/012986
No. 19
No. 19
No. 19

This is to certify that

Rahul Garg

has been awarded the following prizes for his having passed the Intermediate Examination of the Institute of Cost and Works Accountants of India held in June 2008

NAME OF THE PRIZE	PRIZE AWARDED FOR			
Institute's First Prize for General Proficiency	Gold Medal for securing the highest total marks without exemption in Intermediate (Revised) Examination – June 2008			
G. Indira Debi Memorial Gold Medal	For securing the highest total marks without exemption in Intermediate (Revised) Examination – June 2008			
U.N. Sur Memorial Cash Prize	For securing the highest total marks without exemption in Intermediate (Revised) Examination – June 2008			
A.K. Biswas Foundation Book Prize	For securing the highest total marks without exemption in Intermediate (Revised) Examination – June 2008			
Northern Coalfields Limited Merit Award – Book Prize	For securing the highest total marks without exemption in Intermediate (Revised) Examination – June 2008			
Bikramjit Majumdar Memorial Book Prize	For securing the highest total marks in Stage - I of Intermediate (Revised) Examination - June 2008			

Given under the Common Seal of the Institute of Cost and Works Accountants of India, this Twenty eighth day of January 2009.



President

RANK Certificate for All India Rank 3 (June 09) in CMA Final Exams

90167

Regn. No. NRS/012986

9,0167 Regn. No. NK5/012760

Regn. No. NK5/012760

Regn. No. NK5/012760

This Rank Certificate is awarded to

RAHUL GARG

for his/her having passed in one sitting all the subjects of the Final Examination of The Institute of Cost and Works Accountants of India held in the month of June 2009 and for his/her having secured the Third Rank.

Given under the Common Seal of The Institute of Cost and Works Accountants of India, this Twenty Ninth day of August, 2009.



(G. N. VENKATARAMAN)



CA Inter

Cost Accounting

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Phone No: Technical Support - 7517675498

Follow On









Chapter - 1 Financing Decisions

Cost of denrage capital incorres of structule capital structule

Cost of Capital

It refers to the payment to be made to various sources of finance.

Share Reserves & Debt

Corpital Surplus

Cost of apital

Cost of Debt (Kd)

Irredumable Dubt

Redumable Debt

1.

$$\left\{ \frac{1}{R^{\gamma} + NP} \right\} \times 100$$

· I = Interest les Debeuture (E)

. NP = Net Proceeds Per Debuther

= dife of debentures

= Redumption value les Debeutule

(DS+ of Beterna spaces (Kb)

Redumade Poeterence Irredeemable Preference Shales Shales 7 D × 100 NP - Dividend Pel Shale D Not Proceeds NP Redemption value Per Pretereur Ru Shale Presence of CDT kb in

Cost of Equity Snaw Capital (Ke)

$$\chi = \frac{29C}{29M} = 9\chi$$

$$K_{e} = \frac{eP_{L}}{MP_{L}} \times 100$$

Do = Dividued Sectored Previous real

$$Ke = \left[\frac{\varepsilon_1}{\rho_0} + \beta\right] \times 100$$

(5.) Realisch Tield Approach

current MPS Z 125. Dota for DID1:

Tear	D/D (E)		
2011	05.01		
2012	11.30		
2013	12:50		
2014	13.20		
-	14.03		

3012 14.03

Compute of and Ke.

(6) Capital Asset Pricing Model (CAPM)

Ke = Rf + B (Rm - Rf)

Rf - Riss free Rate of Rebulu

- Cort. Rate

- Rose of Treasury Bill

- G - See Rose

B - Beta coefficient of Equity shares

- Moshset Sensitivity Endex

- Moshset Related Rish

Rn - Expected Return of Moshset

Rm-Rf - Mounet Rish Premium

Cost of Retained Earnings (Kre)

In absence of Personal Taxes

 $kae = \frac{D_i}{P_0} + 3$

[Don't deduct floatation cost.]

In odos Poesence of Personal Toxes

Kre = Ke (1-tp) (1-B)

tp = Personal Tax Rate of Shareholder

B = Bronzeraje (1)

Weighted Average Cost Of Capital

Statement showing computation of wACC

source of source Amt Weight cost weight source & x cast

Esc.

PSC

3. R4S

y Debt

CARAHIII

Leverages

(1) Operating lish

- · It is measured by Dyone of operating deverage (DOL).
- · Higher the DOL, higher is the operating rish.
- · Condition to apply DOL is the existence of fixed operating cost.
- It one period data is given contribution

 EBIT
- Percentage change in EBIT

Percentage change in sales or contribution

· DOL measures the effect of change in sales on EBIT.

(2) financing Rish

- · It is measured by Dyru of financial durrage.
- . Higher the DFL, higher is the financing Rish.
- · Condition to apply DFL is the existence of fixed financing cost.
- . It one period data is given:

Equality V
Debt V
Pref. X

EBIT

EBT

EBT - P. DID

1-t

If two period data is given:

DFL = Percentage change in EPS

Percentage Change in EBIT

. So, DFL measures the effect of change in EBIT on EPS.

(3.) Combined P:sh

- · It takes into account operating as well as financing risk
 - . It is measured by Dyree of combined deverge (DCL)
- . DCL = DOL × DFL
- . It our period data is given

Equity V

Debt

Preference X

Contribution X ERT

EBIT X ERT

= Contribution
EBT

Contribution X EBIT - R

EBT - PD/D 1-t

= $\frac{Contribution}{EBT - P. D/2}$

. It two period data is given

Percentage change in EBIT X Percentage change in EBIT Percentage change in EBIT

= Percentage change in EPS
Percentage change in sales

· So, DCZ measures the effect of charge in sales on EPS.

		Capital	Structule	
mis our	optimum	capital	Structule	
		option 1	yotion 2	oprion 3
EBIT				
Intelest				
TE3				Ca
tax				2
= EAT			Cop	
bect. DID	16		1	
= Eounings	for Equit	7		
Sharely	lders	28		G.
no of E	quity the	1867		
293				
3 19				

Indittereuce Point

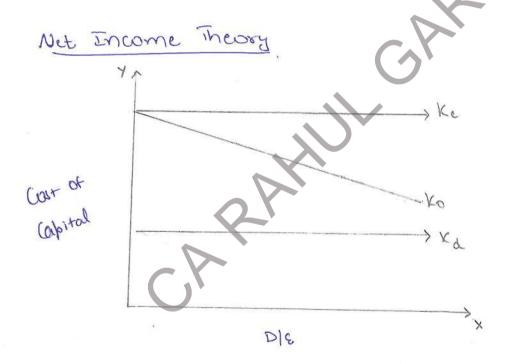
It is that level of EBIT, at which the firm has 2 such financial plans, which result in same level of EPS.

$$(EBIT - I) (I-t) - PECF. DD = (EBIT - I) (I-t) - P. DD$$

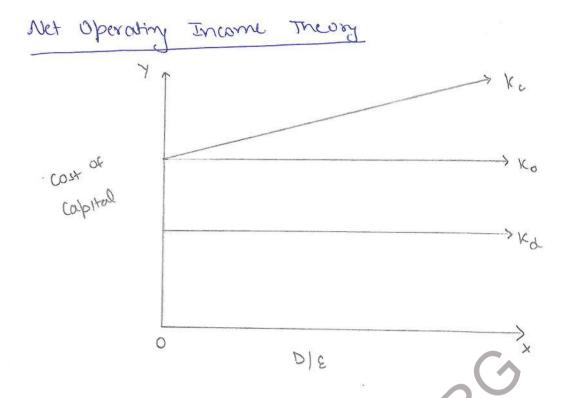
$$Plant 1$$

$$EBIT = 3$$

Theories Of Capital Structure



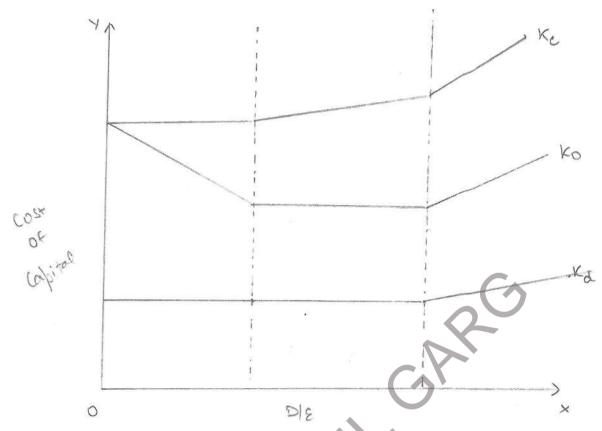
Example: Expected EBIT Z 2L. It has Z 8L in 101/ Deb; Ke is 12.5 1/. Compute Vf L Ko.



Example: EBIT of X Ltd. 79L. Current Debt 730L.

Kd 101. Ko is 121. Compute Ke.

Traditional Approach



Example: Determine the optimum capital structure.

Debt as a 1 of cost of Debt cost of Equity

total capital employed (1/2)

total rapital employed	(%)	(%)
0	2	12
10	5	12
20	2	15.2
30	2.2	13
40	6.2	14
20	6.2	16
60	7	20

Modigliani and Miller's Theory

Morrhet Value of firm

(in Presence of Taxations

devered

J

EBIT (1-t)

Ko

Morrhet Value of firm

devered

J

Value of J (Debt *t)

undervied

Example

A Ltd. 1 B Ltd. Our identical in every respect except

'Capital Structure'. A Ltd. doesn't employ dubt in

its capital Structure Lohereas B Ltd. employs 12%.

between amounting to E 10 2011.

Theome Tax Pate is 30 %, EBIT is 2 2,50,000.

Equity capitalisation Rate of X' Ltd. is 20%.

Find value of both the companies.

CHAPTER - 2

Investment Decisions

Cosp:tal	Budgeting	Decision	<u>I</u> 21	mpostant
Huge sum	Imp	Term lication	RC.	Short term
Traditional	Techni	ques C		Modern L
Avercye Rate of Pay Rouch Period Vari cents	Return de 1 its	· Ne	t Preser	Payback Period It Value Tindex Rate of Retwen.

Average Rate of Return

- . It is the rate of return generated by the project during its life.
- · ARR = Average Profit after Tax x 100

 Average Investment
- · Average PAT = Total PAT of all Years
- · Areroje Enrestment = Cost of Jaluaye Project + value

Computation of Couch Flows

Method 1	Memod 2
EBDIT	EBAT
- Dep	- Int
= EBIT	= & B1T
_ Int	- tax
= 887	= 8AT
- tax	+ Tax Lawing
= EAT	due to
+ Depreciation	depociation
= Cash Instaw	
	_

Pay Back Period

. It is the period within which cost of the project will be recovered

Formula

It can flows are

COSA of Project

Annual Cash Juflow

If cash flows cue not equal p.a

Detailed schedule shall be prepared wherein all the cash flows will be accumulated to interpolate the pay back Period.

			RO	
Discourted	Paybach	Period		
Statem ent	Yeisso 42	cumulative	PVCF	
Year end	Carr	but 6 - 1.	RICF	Cum PVCF

Example Cost of Project & 1,00,000

Armual Cash Ilt & 60000, 50000 & 40000

Life 3 Years

Discountry Rate 104.

Solution

Team end	Carl Ilf	PVF @ 107.	PYCF	Cum. Prc.F
1	60000	,909	54540	54540
2	20 000	. 826	41360	95840
3	40000	127.	30040	125860

Net Preaut Value

To denotes the net value of cash flows

from the project, extrue positive or regative

NPV = 2PVCI - 2PVCO

Statement showing computation of NPV

Particulars

Year cont Coon Professed Prof

Acceptance Criteria

Example

(ost of Project = 2 1,00,000, life 1 years,

Cash Inflows P.a. = 2 50,000, 40,000, 30000, 20000, 10000

Discountiny Rate 104.

c .	
70	meon

Year und	Particular	Cosh flow (Z)	bate 10%	PVCF
0	Cost of Project	-100000	1	-100000
1	Annual lash Ilf	50000	0.909	45450
2	1	40000	0.826	33040
3	V	30000	125.0	22530
4		20000	0.683	13660
2	7	10000	0.621	6210
			C/X	20190

Example

Cost of Project = 2 1,00,000 , Life 6 year Cost on Inflows Pa. = Z 25,000.

Discounting Rate 1721.

Solution

			ent or At	
tearud	Particulars	Cash Flow(2)	@ 10%	PVCF
0	Cost of Project	-100000	1	-100000
1-6	Cosh I/f	25000	4-111	102275
*				2275

Profitability undex Desirability Factor PI = 2PVCI 2PVCO. Acceptance Critoria.

let Profitability Index

· NOI = NON

1 2 PYC1 - 4 PVC0

2 PV CO

= 2PVC0 - 2PVC0

= PI -1

Internal Rate of Return

- · It is the rate at which sprc1 = & prco j.e. NN = 0
- steps to find IRR
 - custume any rate and find NPV
 - Choose another cu pel Ist Roste rate

Nyative

7 choose a Lower Rote

The Rose assumed (hoose a Hiper Rate by which

by which NN gets

Positive

Nychir

e one Nyatire NPV; at 2 different rates; the gap of which should not exceed 4-5%.

Positive NPV
Positive _ Nyative IRR = Lower Roste + NPV NPU

Projects Howing unequal lives

· Egnalised NPV = NPV

AF (x1, m)

. Choice of froject shall be made on the bossis of Equalised NPV.

Working Capital

It represents the amount required to be invested in project in the form of net current assets.

Scrap value

· it represents the amount which can be fetched from the project or the asset, after its life is over

	7	با ان	
	Corse	Case	conse
	α	ь	C
Boos value	50000	20000	00 00
Scrap value		Q,	
Ca (CL)			
Tax Impact	RY		
Net cash Ilf			

Formula:

Working Capital Management

Working Capital

It reters to the funds recyclised for day
to day business operations

Types

WC

Gross we

Net we

Estimation of wc

To have the better management of working capital, its estimation in advance is essential and important.

Estimation of Current Assots

- Estimation of Rument Liabilities
 - = Estimated working capital

Statement showing Estimation of working Capital

a			1
-04.2	Particulare	Computation	Am+(Z)
(A)	Current Assets		
1.	Raw Material	Raw Material Raw Material Holding Period	
	In entory	contramed x 360 D/25 m/ 15W	
2.	will Incurry		
a.	Material	Raw Mat. consumed x conversion leviod x Doc	
		360D/52W/12M	
ъ.	dabour	Direct wages x conversion Period x Do	
		360 D (2W) 12M	
¢.	overheads	Factory Ofre x corression Period x Doc	
		360 D/22W/12M	
3	Finished Goods	Cost of Production x Stock Holding Period	
	Inventory	360 D 25m 15 M	
Ц.	Debtor1	Credit sales x Average Collection Period	
		360 D 52W 12M	
2.	Prepaid Experie	Total Exp. for Period x Time of Prepayment	
		360 D 25m 15W	
6.	Cash		
6.	Total		
(B)	Current liabilities		
1.	RM Creditors	credit Purchase x Ars. Payment Period 360 D/ 52W/ 12M	
2.	2) surveys 2/0	Exp for the period x Time Lay	
2.	-	360 DI 25 MISM	
Col	TOtal	(A) - (B)	
_	Working Capital		
(D)	Safety Magin		
(8)	Total work. Cap	(c) + (D)	

- . Row material consumed means opening stock of row material + hurchasce of row material closing stock of row material
- But while nomputing creditors also; we take now mot. consumed because opening stock & closing stock are assumed to be same (as.

 the concern is going on from one to other period)
- 100 v., 50 v. & 50 x for Material, dab & 0/n.
- · Depreciation (it given) is not to be considered for any computation (as it is non easily
- CASH COST BASIS; Profit is not to be token into account i.e. De's are to be computed of cost of credit sales rather than credit sales

Maximum	Permissi pl	e Barris	hnamu	- As Pu
	Langon	Commit	ru	
J		J		
Norm I		Norm I		ypen III
7		7)
CA		CA		CA
- CL		- 25 1.		- Core CA
= WC		=75% CA		Non Core
- 251.		- CL	CAL	-254.
·-			Q,	75% of
	===		/=	Non Core
				CA
	0			- CL
	CX			·

Effect of Double shift on wc

- . Total units to be produced get doubled as there is extra shift working.
- . No. of units of cosp don't change ad all inc for computation of wis, same no. of writs shall be taken as of single shift working.
- . All the variable expenses line Direct Material, wayes get also doubted (due to but put being doubted) in totality.
- Mowever, the amount of fixed overheads.

 don't change in totalize but these become

 half on Per Unit basis. i.e. overell wast

Computation of operating cycle

Raw Material Holding Period

+ will conversion Period

+ fa Holding Period

+ Average collection Period

- Average Payment Period

No. of operating cycles

in a teah

360 Days

Operating agale Period

Amt. of working

Capital Reguer ed

Annual Operating Cost

No. Of operating cycles

Dettor's Management

State ment	shewing	Incremental	Gain	or	22006

Particulars	hurrent	Uption 1	Option 2
Sales	3		
contribution			
Encremental Contribu	hion		
Bod Debts			
Incremental Bod De	Ubts	20	
Admin. Cost		3	
Incremental Admin.	tzw		
Collection Exp			
Incremental Collection	enh		
op portunity wet			
Incremental opportun	nity Cost		
	*		82
Det in cremental Gain/ (doss)			

Opportunity Cost . J. X Cost 1. X ACP X Return. Sales X credit Sales credit sales Cost of credit sales Cost of Debtors

impact of Fixed Cost

Computing Return Before Tax

Cash Management

(1) Optimum Cash Balance

william J. Baumol Model

 $\sqrt{\frac{2 \times A \times T}{c}}$

A = Annual Requirement of Cash

F = Transaction Cost

c = corrying cost

(2) Average Cash Balance = Optimum Cosh Balance

(ash Budget

5.00	Particulars	1	2	3	٠ ٧
Α.	Opening Bolance				
0.	Receipts				
	· Cash sales				
	· Receipt from Drz	5.			
	· Sale of Allet				
	· Tax Retund				
	10 tal (3)	•	P-		
c.	Payment				96
	· Cash Purchases				
	· Payment to (r's	7			
	· Material to ware				
	· Payment for 0/ru				
	. Pay ment for Tour				
	, Purchase of Asset				
	Total (C)				
D.	Bolance				
-	Investment				
4	· Salu of Envertment				
4	Borrowings				
	- Chara Ralami.				

chapter - 4

Ratio Analysis

Profitability Ration

- · Return on Equity = Earnings available for Equityholders x 100
- · Return on Net alosth = Eathings after Tox x loc x shareholder France
- Return on Total Assots = Earning After Tax x loo

Activity Ratios

Asset Tue nover Ratio = Not sales [x100] Ay. Total Assets 1.

> if as says in y.

= Net sales Working Capital Average working Corpital Twonover Ratio

Debter Turnover = Net (redit fales

Averege Receivables

360 D/ 52 W/ 12 M See T/o Ratio Dr's collection Period =

Creditors Turnover Rotio = Net credit Purchases

Averge Payables

(12 Payment Period = 360D/52W/12M

(12 To Ratio

Stock Turnover Ratio = (095

Average stock

Stock Holding Period = 3600 / 52 w/ 12M Stock To Ratio

Coverage Ratios

· Cover for Pretchence = Earning After Tax

Dividend : Reference Dividend

Cover for Equity = Earnings Arailable for Dividend

Equity shallholders

Equity Dividend

Debt survice Coverage Ratio

= Earnings Arabable for Debt Service

Interest on . Installment of down

Debt Du Within 1 Year

Earnings Available for Debt Cervice

= Profit After + Interest + Depreciation and other.

Tax on loan non cash expenses

Market Test Ratios

(EPS)

No. of Equity shares

. Dividend Per = Total Dividend for Equity-shakeholders

Share (DPS) = No. of Equity Shares

Pario = $\frac{DP_{2}}{EP_{3}}$ x los

· Dividend Yield = DRC × 100
Ratio

· Ealnings Tield EPS x 100
Ratio MPS

Price Ealring Ratio EPS

Solvency | Fin ancial Ratios

- -> short Term solvency Ratios
 - · Rument Ratio / = Rument Assets

 Working capital Rument biabilities

 Ratio
 - · auch Ratio = liquid Assets
 Liquid Ratio

Rurrent Assets

- Stock - Bank 0/D - P/P Expenses

Current liabilities

-> Long Term Solvency Ratios

Debt Eapaity Ratio = Debt

Equity

Debit - dony Term Debt Equity - Shareholder funds

· Capital Geoling Ratio

= dony Team Funds Bearing Fixed Rate of Return
Lang Team Funds Bearing Variable Rate of Return

Debt

Earnity shareholder funds

+ Preference share capital

· Proprietary Ratio =

Sharelioldy funds

To tal Assets

Fixed Assets latio Net fixed Assets
Capital Employed

Chapter - 5

Fund Flow Statement

- · It's a statement of change in assets and liabilities of an enterprise.
- · It is prepared to indicate how financial position has changed over a period
- · Step By Step Approach
 - Schedule of change in Working Capital
 - Adjusted Ple Ale
 - Funds How statement

schedule of charge in we

5.00.	Particulars	Opening	closi mp	1 in wc	I in we
(A)	Curront Assets				
1.	Debtors				
2.	cash etc.	-			
	Total				
(8)	Current l'abilities				
٧.	Creditors				***************************************
2	BIP etc				
	To tal				
(c)	Working (ap. (A-B)			_	
(D.)	1/1 in we		No. of the latest and		
			= at	1	Į.

Adj	w	ted	PIL	Alc
3	k .		The second second second	-

			1	
Particulars	Amt. (3)	Pariculars	Am+(2)	
To Non Each Exp.		By Balance Bld		
To Non operating		By Non Oash Enconne		
Expenses		By Non operating Income		
TO Balance 4d		By funds from	Bol. hj.	

funds flow Statement

Saulces	Am+(2)	Applications	Amt (2)
Decrease in we		Increase in we	
Funds from Oberations		Funds bost in Operations	e e
Sale of Assets		Purchase of Asset	
Issue of share Corpital		Redemption of Share Cap.	
Tax Retund		Tax Paid	
		DID Paid	

Transactions Affecting FFS

. We are concerned with only those transactions from where the FLOW OF WC ARISES

A the armt. of we is

a source

Any transaction which . Any transaction which

I the amt of we is

and AppLICATION.

. we I if the transaction we or if the transaction

- increases CA

- decreases ch

CA PARILLIA

. . . .

Chapter-6

Cash Flow Statement

- . It means the statement of change in cosh and cash Equivalents.
- . It is orgulated as per As:3 of ICAI.

· Meaniny of Cash.

It comprises cash in Hand & Demand Deposits with the banks.

Meaning of Cash Egywiralunts

These are short term highly liquid investments which are readily convertible into known amounts of each & which are subject to insignificant lists of charge in value.

Any investment will qualify as each equivalent only if it has short maturity of 3 months or Less from date of acquisition, these are

- cash in Hand
- Cash at Bank
- Marketable Seculation
- Bown Overdraft
- Cosh Credit

Cash Flows

- . These are instants & outflows of cash and cash equivalents
- · Cash flow axiscs when not effect of transaction is to either or I the amount of cash a cash equivalents.
- . It asises from the transcutions.

Division Into Activities

Operating Activity

These are the principle revenue producing activities of enter price and

other activities which are not investing or financing.

Activity Non financing Enterprise financing Enterprise

Int. Received

DID Received

Int. Paid

DID Paid

Investing Activity

These are Acquisition & Disposal of Long Term.
Assets & Johns Investments

Financity Activity

These are activities which result in change in 53c & composition of owner's capital & borrowings of enterposite.

Cash flow statement for year ending ... (Indirect Method) Particulars Amount (2) (A) Cash flow from Operating Activity Surplus During The Year + Non cash & Non Operating Expenses - Non Cash & Non Operating Income = cash from operations (Before we changes) - Increase in Current Asset + Decrease in Rument Asset + Increase in current liability - Decrease in Current liability = Cash from Operations (Before Tax) - Tax Paid +1- Extraordinary Items (B) Rash flow from Envesting Activity + Sale Of Asset Investment Purchase Cash flow from financing Activity (c) + Issu of share Copital Debentule - Interest Dividend Paid Not cash a cash Equivalents Generated During Yeal (A+B+C)

= classes Balance of cash & cash Equivalents

+ opening Balance of coun & cash Eguiralys

Cash flow Statement (Direct Method)

	ash	Flow	from	opere	الديم	Achv	ity
		Cash	Sales				
	+	Cash	Recei v	ed F	rom	Debt	2011
	N ame	cash	Purch	્ય હ			
		Couh	Paid	to	(red	exoti	
- Payment for operating expenses							
	=	Cash	Gener	ated	From	ope	rotions
- Income Tax Paid							
+ - Extra ordinary Etems							
RA!							
		C					

CARAININ

Interest

TIME VALUE OF MONEY

Future Value Present value Time value of Money of Money

Simple Interest = P x x x t

P: Principal Amt.

8: rate of interest

t: time beniad

compound Interest = P (1+8)t

• Effective Rate of
$$= \left(1 + \frac{r}{m}\right)^m - 1$$
Interest

8: rate of interest P.a.

m: no. of compoundings in a You

Future Value of

Armuity
$$\int = A \frac{(1+x)^m - 1}{x}$$

Simbing found

(m, 18) A [FVIFA (81,71)]

A: Periodic Amount

. Present value of
$$= A \left[1 - \frac{1}{(1+r)^n}\right]$$

BULL (LI'M)

· Perpetuity = A (Constant CFS)

Perpetuity =
$$\frac{A}{8-g}$$
 (mowing CFs)

Rish Analysis In Capital Bugeting

$$\Sigma = \Sigma PVCI - \Sigma PVCO.$$

$$\Sigma = \Sigma PVCI - \Sigma PVCO.$$

$$vaniana = \{ (CF - \overline{CF})^2 \times P \}$$

$$\overline{b} = \sqrt{vaniana}$$

Rish Adjusted Discount Rate

cutainty Equivalent Approach

Higher the CE; Lood is the Risk

- -> Sussitivity Analysis
 - . To find the impact of change in variable on the outcome of project in NR.
- -> Sanario Analysis
 - . To find the import of change in more than one variable simultaneously on the outcome of project.
 - -> simulation
 - . Determining range of random nos
 - For each variable; finding cumulative prob. on the base of prob. given to specifying range of random now given in the Os fitting the random now given in the Os
 - Frally, finding NPV. for each run
 - Decision Trace
 - future ducisions & their consequences.

 The transformation of relationship blue forth

 The transformation of relationsh

Computation of Exp. NPV
Path NPV JP Exp. NPV
1
2
3
4

Leave financing

-> Decision

Buy VI. deas own borrowed funds funds

-> Not Advantage at dessing

= Pro as per pro as per Buy Decision less

 \bigcirc

-> Prco: Buy (Olon Funds)

21

Tear of Asset

1-n Tax saw.on 80p +

→	PYCO:	Buy	(Borrowed	Funds)

Yeal	Particulars	`CF	Rte	<u>`</u> 7.	PrcF
ud —			(N) (A)		
0	Down Payment	_			
	(COST - BOROW)				
1-7	Tax Saw. on Def	+			C M
1-7	Brincipal	7	<i>V</i> 11	0	
1-2	Int. (1-t)	_	N		
Υ)	٧2	+	C	¥	
			1		

-> Prco: Lease

lease Rent (1-t) x Af (81, m)

- → If Discounting Rate: not given => Int. (1-t)
- If amt. of installment not fiven

= Amount Of Loan

Gordon Model

$$P = \underbrace{\varepsilon (1-b)}_{K-(b\times b)}$$

Walter Model

$$P = D + \frac{\delta}{\kappa} (\xi - D)$$

Traditional Model (Graham & Dodd Model)

$$P = m \left(D + \frac{\varepsilon}{3} \right)$$

m = multiplier

Lintner Model

mm Hypothesis

(1) computation of
$$P_0 = \frac{D_1 + P_1}{1 + K}$$

$$P_0 = \text{current selling frice}$$
 $D_1 = DID$ at the end
 $P_1 = \text{Selling frice after 1}$ Year

K = cost of capital

$$ml_1 = I - (E - nD_1)$$

m = no. of new share

(3.) Value of firm

All the above 3 steps are to be performed

(a) in Presence of DID

in Absence of DID



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About the Author...



RAHUL GARG is an energetic professional and his distinguished & exceptional teaching style has made thousands of aspiring professionals to conquer their exams successfully.

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Awards & Achievements

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As a Faculty

- ✓ Guiding the students of CA, CS, CMA for past 7 years
- ✓ Time Management Skills
- ✓ Stress Management Skills
- ✓ How to Attempt
- ✓ 1 Day Capsule

Professional Journey

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