

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: CHPT: material costing: marathon notes

## concept 1: valuation of material

1. Purchase cost
2. Trade Discount
3. Quantity Discount
4. Cash Discount
5. Subsidies / Grants / Incentives
6. Road Tax / Toll Tax
7. Indirect Tax → IGST / CGST / SGST

Credit Available

Credit NOT Available

8. Basic Customs Duty
9. Demurrage
10. Detention charges / fine / Any other Penalty
11. Insurance

Q: How much Insurance will Buyer Book?

12. Commission / Brokerage
13. Freight Inward
14. Cost of container

Returnable

Non-Returnable

Full Amt Refunded

Partial Amt is Refunded

NOTE: Return is Different from Rejection

15. Shortage → Normal / Abnormal Reasons.

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Subject: / /

**Concept 2:** Re-order level + Economic Order Qty

1. Re-order level: It is the level at which order for material procurement is placed

Formula:



i.  $\text{Max Cons} \times \text{Max ROP}$

ii.  $\text{Safety Stock} + \left[ \frac{\text{Avg Cons} \times \text{Avg ROP}}{\text{ROP}} \right]$

→ Re-order period (ROP) is the time taken for delivery of goods

2. Economic order Qty. (EOQ)

Formula:

$$\frac{2 \times A \times O}{C}$$

A = Annual Demand of Raw material

O = Ordering cost per order

C = Carrying cost per unit per annum

Other imp points

a)  $\text{Avg Inventory} = \text{EOQ}/2$

b)  $\text{Number of orders} = \text{Annual Demand} / \text{EOQ}$

c)  $\text{Frequency of orders} = \frac{\text{Days/month}}{\text{No. of orders}}$

d) At EOQ →  $OC = CC$

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Subject: / /

→ EOQ v/s NON EOQ (w/o Discount)

Solution:

Given:

AD =

OC =

CC =

Formula: 
$$EOQ = \sqrt{\frac{2 \times A \times U}{C}} =$$

Statement of cost comparison bet<sup>n</sup> EOQ & NON EOQ

Particulars	EOQ	NON-EOQ
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i. AD

ii. Purchase Price

iii. Purchase cost

↳ Since discount is not offered, total purchase cost is irrelevant for decision making.

iv. OQ

v. NO. of orders

vi. OC =  $v \times OC$  per order

vii. Avg Inv.

viii. CC. pu. pa → Since discount is not given it will remain same

ix. CC = vi × vii

x. Total cost = PC + OC + CC

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

→ EOQ v/s NON EOQ (w/ Discount)

Solution:

Given

AD =

OC =

CC =

Formula: 
$$EOQ = \sqrt{\frac{2 \times A \times O}{C}} = \underline{\hspace{2cm}}$$

statement of cost comparison between EOQ & NON-EOQ

Particulars	EOQ	NON-EOQ
-------------	-----	---------

i. AD

ii purchase price

iii purchase cost

iv. OC

v. NO. of orders

vi OC =  $v \times c$  per order

vii Avg Inv.

viii CC. pu. pa = %  $\times$  Respective price

← Question may state that cc. pu. pa may NOT vary according to Discount Policy

ix.  $CC = vii \times viii$

x. TOTAL COST. = PC + OC + CC.

→ Negotiation of Further Discount

$$TC_{NON-EOQ} - TC_{EOQ} = \text{Amt of Disc.}$$

$$\% \text{ of Disc} = \frac{\text{Amt of Disc}}{\text{TOTAL COST @ EOQ}} \times 100.$$

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## CONCEPT 3:

### Stock levels

a) Re-order level i.  $\text{Max Cons} \times \text{Max ROP}$

OR

ii  $\text{Safety Stock} + \left[ \text{Avg Cons} \times \text{Avg ROP} \right]$

b) Min. Stock level:  $\text{ROL} - \left[ \text{Avg Cons} \times \text{Avg ROP} \right]$

c) Max Stock level:  $\text{ROL} + \text{ROQ} - \left[ \text{Min Cons} \times \text{Min ROP} \right]$

- Imp point:
- Formula includes ROQ & NOT EOQ
  - When Question does NOT provide ROQ then  $\text{EOQ} = \text{ROQ}$
  - When Question has BOTH EOQ & ROQ consider ROQ

d) Average stock level =  $\frac{\text{Min Stock level} + \text{Max Stock level}}{2}$

2

OR

$\text{Safety Stock} + \frac{1}{2} \text{ROQ}$

e) Danger level:  $\text{Normal consumption} \times \text{lead time for Emergency Purchase}$

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**Concept 4**: Input Output Ratio

Formula:  $\frac{\text{Input}}{\text{Output}}$

eg. 3:2 for every 3 units of input 2 units of output is obtained.

eg: 110% → 110 units of input 100 units of output is obtained.

**Concept 5**: ABC Analysis

	A	B	C
value	70%	10%	20%
Qty	20%	10%	70%

**Concept 6**: FSN: Fast, Slow & Non-moving

Inventory Turnover Ratio:  $\frac{\text{Cost of material consumed}}{\text{Cost of Avg Inv.}}$

Opening Stock  
(+) Purchases  
(-) closing  
Ans is in NO. of times

2

High	Medium	Low
Fast	Moderate	Slow

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Subject: // //

→ Inventory Holding Period

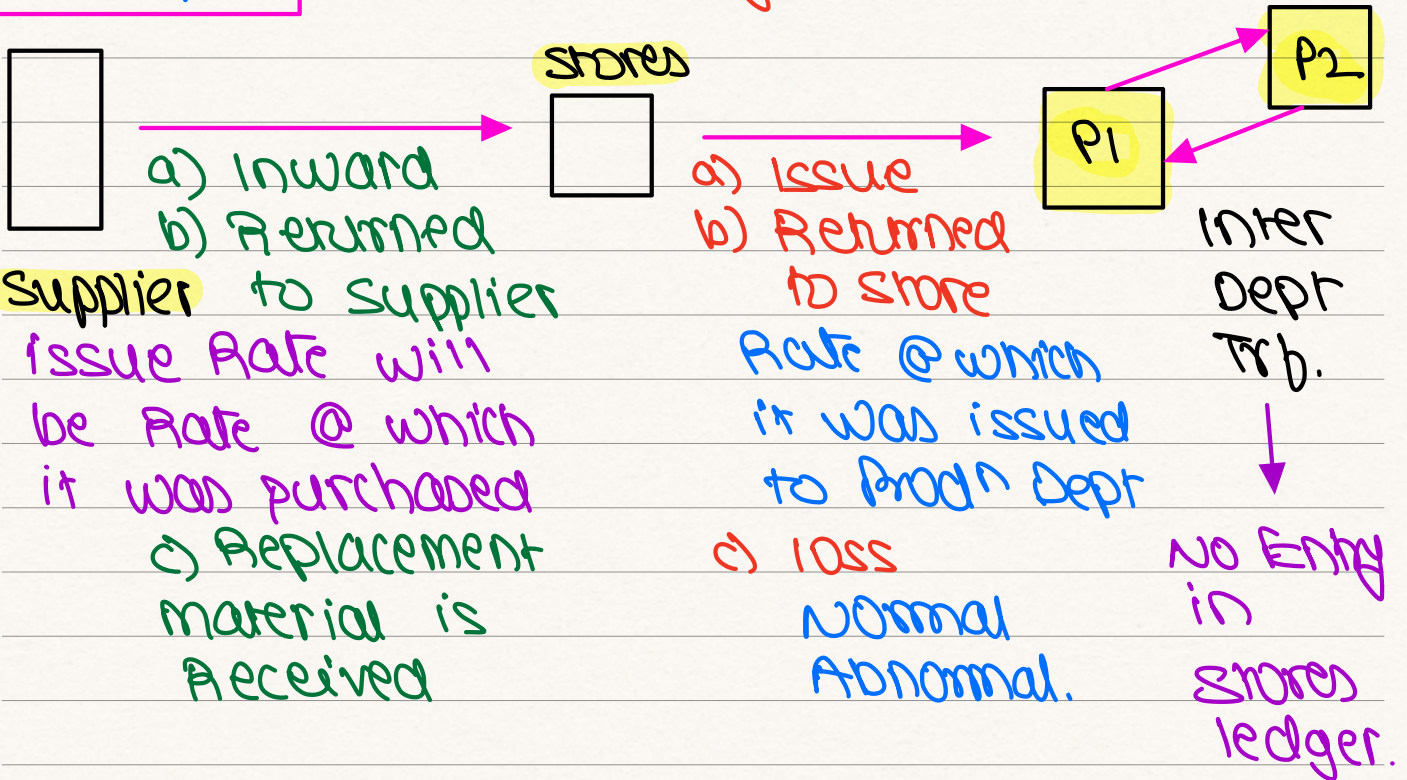
Formula:  $\frac{\text{No. of days/weeks/months}}{\text{Inventory Turnover Ratio}}$

High  
Slow

medium  
moderate

Low  
Fast

## Concept 7 : Stores ledger.



## Methods:

- First in first out
- Last in first out
- Average method

Weighted Average

$$\frac{Q_1 \times R_1 + Q_2 \times R_2}{Q_1 + Q_2}$$

Simple Average

$$\frac{R_1 + R_2}{2}$$

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: Chp2: Labour Costing

**Concept:** Labour Turnover Ratio

Method	Separation	Replacement	New Recruitment
Exp'n:	left & Discharged	Substitutions	Additions made to existing workforce on A/c of Exp.
comes in	x	✓	✓
goes out	✓	✓	x

Accessions: Replacement + New Recruitment

Flux: w/o Expansion: Separation + Replacement

w/ Expansion: Separation + Replacement + New Recruitment

OR

Separation + Accessions.

Denominator: Avg Labour =  $\frac{\text{NO. of workers @ start} + \text{NO. of workers @ End}}{2}$

Note: NO. of Emp @ start

(-) Separation

(+) Replacement

(+) New Recruitment

NO. of Emp @ End.



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Subject: / /

concept 2: computation of wages & Earnings

↓  
cost to  
company

↓  
in hand.

a) computation of cost to company.

Basic salary

- (+) Allowances
- Perquisites
- Bonus
- Commission
- Overtime
- Incentives

↓  
Gross salary  
(+) Employers contrib

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Gross salary

- Tax Deducted @ sources
- Employees contrib
  - PF
  - ESI
- Profession tax

} it is deducted & paid to Govt.

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Net salary

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Subject: / /

Concept 3. Cost Control

## Attendance

i. Time keeping: In Time - Out Time

ii Time Booking: Details of work performed.

Actual HRS

Idle time

Normal Idle time

Cost will be absorbed by effective/ productive HOURS

Abnormal Idle time

Cost will be transferred to Costing P&L A/c

## Concept 4 Overtime

HOURS worked over  $\approx$  ABOVE normal working time is called as overtime

i. Normal overtime wages added to cost as Direct labour

ii Overtime Premium:

a) Agreed by customer & customer is ready to pay: Direct labour

b) Unexpected development: Overhead

c) Due to Fault of mgmt: charged to

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Respective Dept

d) Abnormal Reasons: Costing P&L.

Concepts: Bonus:

i. Halsey

a) Normal wages  $\text{Time Taken} \times \text{Time Rate}$

b) Bonus  $50\% \left[ \text{Time saved} \times \text{Time Rate} \right]$

ii Rowan

a) Normal wages:  $\text{Time Taken} \times \text{Time Rate}$

b) Bonus:  $\frac{\text{Time saved}}{\text{Time Allowed}} \left[ \text{Time Taken} \times \text{Time Rate} \right]$

|| Bonus under Halsey & Rowan be equal when

$$AM = \frac{1}{2} SM$$

NOTE: when AM is for AQ  
SM should also be for AQ.

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Subject: // //

## Concept 6: Efficiency

$$a) \text{ Efficiency (hrs)} = \frac{\text{Std Hrs}}{\text{Act Hrs}} \times 100$$

$$b) \text{ Efficiency (units)} = \frac{\text{Actual units}}{\text{Std units}} \times 100.$$

## Concept 7: Types of cost

Particulars	Prime cost	Factory cost	Conversion cost
Direct mat	✓	✓	✗
Direct lab	✓	✓	✓
Direct Exps	✓	✓	✓
Factory OH	✗	✓	✓

## Concept 8: Contribution

Sales  
↳ variable cost  
contribution  
↳ Fixed cost  
Profit

Sales - VC = Contribution  
Profit + FC = Contribution  
Sales x P/V Ratio = Contribution

P = Contribution  
V ∈ Sales

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: Chp4: Overheads

## Indirect Expenses:

- i. These expenses are known to us after the end of relevant period
- ii However these costs need to be charged to arrive at cost of product

This is done by following below steps.

- a) Estimate / Budget
- b) Adjusted to known circumstances
- c) Allocation: charge it to traceable Dept.

Prod'n A

Prod'n B

Service X (R&M)	Service Y (Canteen)
₹₹₹	₹₹
• loose TOOLS	• Grocery
• spares	
Rent Elec	Rent Elec

- d) Apportionment: distribute among all other departments using that facility on some Agreed Basis (Primary Distribution)

Rent  
Elec

Rent  
Elec

Rent  
Elec

Rent  
Elec

- e) Re-Apportionment Distribution of service Departments expenses over Production Dept. (Secondary Distribution)

Total on

₹₹

₹₹

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## → Methods of Re-Appportionment

a) Direct method: Here, the services given by one service Dept to another is ignored

Service x → Dept A, Dept B  
Service Y → Dept A, Dept B

b) Non-Reciprocal / Step Down method.  
Service Department providing highest No. of services to other Depts will be Re-Appportioned first (descending order)

Service x → Service Y, Dept A, Dept B  
Service Y → Dept A, Dept B.

(Y's OH + share of OH Received from X)

c) Reciprocal method

Service x → Service Y, Dept A, Dept B  
Service Y → Service X, Dept A, Dept B

Repeated Distribution method

Trial & Error method

Simultaneous Equation method.

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Subject: / /

	Production A	Production B
Allocation	✓	✓
Apportionment	✓	✓
Re- Apportionment	✓	✓
Budgeted Total Overheads	₹ ₹₹	₹ ₹₹

## Basis of Apportionment

Particulars	Basis
1. Stores	value of stores Reqm
2. Time keeping & A/c	NO. of workers
3. Power	HP of m/c
4. Canteen / meal chgs	NO. of workers
5. Factory Rent	Area
6. Power	HP x m/c Hrs
7. Depreciation	Capital value of Assets
8. Other overheads	m/c Hrs
9. Insurance of m/c	value
10. Insurance of Bldg	value
11. Power	Effective HP hrs %
12. Light	Area / NO. of light pts
13. Rent	Area
14. Personnel Dept Exps	NO. of Employees
15. Indirect wages	Direct wages
16. Fuel & Heat	Radiator Sections
17. Power	KW Hrs.
18. Bldg maintenance	Floor space / Area.

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19. Insurance chgs for Inventory	$\text{Avg Inv} \times \text{Price}$
20. Storage cost	$\text{Avg Inv Storage}$
21. Packing & forwarding	$\text{Annual Sales}$
22. Invoicing cost	$\text{No. of Invoices}$

## Overhead Recovery Rate

1. Direct method: Based on No. of unit  
$$\frac{\text{Estimated Overheads}}{\text{Estimated No. of units}}$$

2. Indirect method:

i. % of Direct material 
$$\frac{\text{Estimated Overheads}}{\text{Direct material}}$$

ii % of Direct labour 
$$\frac{\text{Estimated Overheads}}{\text{Direct labour}}$$

iii % of Prime cost 
$$\frac{\text{Estimated Overheads}}{\text{Prime cost}}$$

iv m/c Hr Rate 
$$\frac{\text{Estimated Overheads}}{\text{Productive m/c Hrs}}$$

v. Labour Hr Rate 
$$\frac{\text{Estimated Overheads}}{\text{Productive lab Hrs}}$$



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## Over/under Recovery of Overheads

$$\text{eg: } \frac{\text{Est. Total O/H}}{\text{Est. No of units}} = \frac{\text{₹200,000}}{20,000 \text{ units}}$$

$$= ₹10 \text{ pu.}$$

Overhead Recovery Rate.

$$\text{Absorbed O/H} = \text{Actual units} \times \text{Overhead Recovery Rate}$$

eg: ₹100,000

After end of Relevant period we come to know actual overheads

eg: ₹80,000

eg ₹150,000

₹20,000  
Over  
Recovery

₹50,000  
Under  
Recovery

→ Comprehensive mc Hr Rate

$$\frac{\text{Total Overheads} + \text{Direct Labour}}{\text{Productive mc Hrs}}$$

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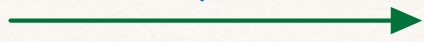
Subject: Chp 4: Cost Sheet //

→ Basic cost sheet

Direct material

Direct labour

Direct Expenses



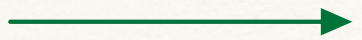
Prime cost

Factory OH



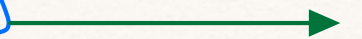
Factory cost

Office OH



Cost of Production

Selling & Dist OH



Cost of sales / Cost  
of goods sold.

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Subject: / /

→ Comprehensive cost sheet

Direct material consumed

Opening (RM)

(+) Purchases

↔ Closing (RM)

Direct labour

Direct Expenses

→ Prime cost

Factory OH / works OH

→ Gross factory cost

(+) opening (WIP)

↔ closing (WIP)

→ Net factory cost

Quality control

Research & Development

Admin OH (Related to prodn)

Primary packing

↔ scrap, By products, Misc Income

→ Cost of Production

(+) opening stock (FG)

→ Cost of Goods Avail for sale

↔ closing stock (FG)

→ Cost of Goods Sold

Admin OH (Gen)

Selling OH

Dist OH

Marketing

→ Cost of Sales

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: CHPS : Cost Accounting System

Non Integrated  
Financial & Acn  
Records are  
maintained  
separately

Integrated  
Financial &  
Accounting  
Records are  
maintained  
together

→ Non Integrated System of Accounting

Accounts: Real Personal Nominal

i. Cost ledger control A/c  
OR

ii General ledger control A/c

a) Material

1. Material control A/c Dr } Direct/  
    To cost ledger control A/c } Indirect  
(Being material purchased)

2. Stores ledger control A/c Dr  
    To material control A/c  
(Being material Trb to stores)

3. Cost ledger control A/c Dr.  
    To stores ledger control A/c  
(Being material Returned to supplier)

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## 4. Issue of material.

### a) Direct material

WIP CONTROL A/c Dr

To Stores ledger control A/c

(Being material issued to Prod<sup>n</sup>)

### b) Indirect material (Overheads)

#### Absorbed

WIP CONTROL A/c Dr

To Factory OH control A/c

(Being FOH charged to Prod<sup>n</sup>)

#### Actual (Incurred)

Factory OH control A/c

To Stores ledger control A/c

(Being indirect material issued to production)

Difference  
Over/  
under  
Absorption  
of  
Overheads

## 5. Stores ledger control A/c

To WIP control A/c (Direct)

To FOH control A/c (Indirect)

(Being material Returned to stores)

## 6. Job 2 A/c Dr

To Job 1 A/c

(Being material Trb from Job 1 to Job 2)

## 7. WIP control A/c Dr

To Cost ledger control A/c

(Being material directly purchased for Prod<sup>n</sup>)

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## b) Labour

1. Wages control A/c Dr  
    To cost ledger control A/c } Direct/Indirect  
(Being wages paid/incurred)

## 2. Wages

### a) Direct wages

WIP control A/c

    To wages control A/c

(Being wages charged to Prod'n)

### b) Indirect wages

Absorbed

#### Production

WIP cont. A/c Dr  
    To FOH cont A/c

(Being Prod'n OH charged to WIP)

Actual/Incurred

Factory OH cont A/c Dr  
    To wages cont A/c  
(Being Prod'n OH incurred)

#### Admin OH (Related to Production)

FG control A/c Dr  
    To Admin OH A/c

Admin OH cont A/c Dr  
    To wages cont A/c

#### Selling & Distribution

Cost of sales A/c Dr  
    To selling & dist OH A/c

S&D OH cont A/c Dr  
    To wages cont A/c

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## c) Direct Expenses

WIP control A/c Dr

TO cost ledger control A/c

(Being Direct Expenses incurred)

## d) General Expenses / Indirect Expenses

### Production OH

Incurred: Factory OH control A/c Dr  
TO cost ledger control A/c

Absorbed: WIP control A/c Dr  
TO Factory overhead control A/c

### Admin OH

Incurred: Admin OH control A/c Dr  
TO cost ledger control A/c

Absorbed: Finished Goods control A/c Dr  
TO Admin OH control A/c

### Selling & Dist OH

Incurred: Selling & Dist OH control A/c Dr  
TO cost ledger control A/c

Absorbed: Cost of sales A/c Dr  
TO Selling & Dist OH control A/c

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

- e) Finished Goods Control A/c Dr  
TO WIP Control A/c
- f) Cost of Sales A/c Dr  
TO Finished Goods Cont A/c
- g) Costing P&L A/c Dr  
TO Cost of Sales A/c
- h) **Respective** Overhead Control A/c  
TO Costing P&L A/c  
(Over Absorbed)
- i.) Costing P&L A/c Dr  
TO **Respective** Overhead Cont A/c  
(Under Absorbed)
- J) Cost ledger Control A/c  
TO Sales A/c
- Sales A/c Dr  
TO Costing P&L A/c



# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## → Integrated System of Accounting

Particulars	Non-Integrated	Integrated
Stores ledger	✓	✓
Wages cont.	✓	✓
Prod'n O/T cont.	✓	✓
WIP cont. A/c	✓	✓
FG cont. A/c	✓	✓
Admin O/T	✓	✓
S&D O/T	✓	✓
Cost of sales	✓	✓
Cost ledger cont. A/c	✓	✗

↓  
Replaced by  
Respective  
Real &  
Personal A/c

## → Reconciliation

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: Chp 6: Activity Based Costing //

## Overheads

eg: Bill = ₹ 10,000  
NO = 5 people

$$\text{Share} = \frac{\text{₹}10,000}{5} = \text{₹}2,000$$

## Activity Based Costing: Tu Tera Mei Mera

Activities

Starter

Ron

Sabzi

Rice

Dessert



ie. cost is allocated / Apportioned among products based on activities utilised for them

### Steps:

- a) Cost Driver
- b) Cost Driver Qty
- c) Cost Driver Rate
- d) Allocation (bxc)

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: Chp: Process Costing //

Process I → Process II → Process III → Finished Product

Purchase  
Sorting  
Cleaning

Pulp  
Preserve

Bottling  
Primary Packing  
Branding  
Despatch

## Format / Illustration

### Process I A/c

Particulars	Qty	Amt	Particulars	Qty	Amt
TO Direct Mat	100	10000	By Process II	100	40000
TO Direct Lab	-	10000			
TO Direct Exps	-	10000			
TO OH	-	10000			
	100	40000		100	40000

### Process II A/c (10% Normal loss)

Particulars	Qty	Amt	Particulars	Qty	Amt
TO Process I	100	40000	By Process III	180	85000
TO Dir. Mat	100	20000	By Normal loss	20	-
TO Dir Lab	-	10000			
TO Dir Exps	-	10000			
TO OH	-	5000			
	200	85000		200	85000

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## Process III A/c (10% Normal loss)

Particulars	Qty	Amt	Particulars	Qty	Amt
To Process II	180	85000	By Process IV	250	1,11,000
To Dir mat	120	15000	(Act output)		
To Dir. Lab	-	10000	By Normal loss	30	-
To OH	-	10000	By A. loss	20	9000
			(Bal. fig)		
	300	120000		300	120,000

Normal loss = 10% of input ie,  $10\% \times 300 = 30$

Actual output (Given)

Abnormal loss (Bal fig) → loss Trf to costing P&L

$$\text{Effective cost pu.} = \frac{120,000}{300 - 30} = ₹444 \text{ pu.}$$

Effective units

## Process IV A/c (10% Normal loss & scrap val = ₹100 pu)

Particulars	Qty	Amt	Particulars	Qty	Amt
To Process III	250	1,11,000	By FG A/c	350	3,33,160
To Dir mat	50	89,000	(Actual output)		
To Dir Lab	-	10,000	By Normal loss	30	3,000
To Dir Exp	-	20,000			
To OH	-	30,000			
To Adv. Gain	80	76,160			
	380	3,36,160	scrap value	380	3,36,160

$$\text{Effective cost pu} = \frac{2,60,000 - 3,000}{300 - 30} = ₹952 \text{ pu}$$

Input - output. ← Effective units

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**NOTE:** i. When scrap is given, its value will be credited in case of Normal loss as we bear cost we get Benefit.

ii In case of Abnormal loss, its scrap value won't be Reduced from process A/c as we don't bear cost so no Benefit is Taken.

iii You may be asked to prepare Normal loss/ Abnormal loss A/c

iv. For Questions on decisions about further processing compare Extra Revenue with Extra cost

v. Royalty is debited to Process A/c for units that were normally be expected to be produced.

In case of Abnormal gain that extra units Royalty will be Dr. to Ab. Gain A/c

vi **Sub - Concepts**

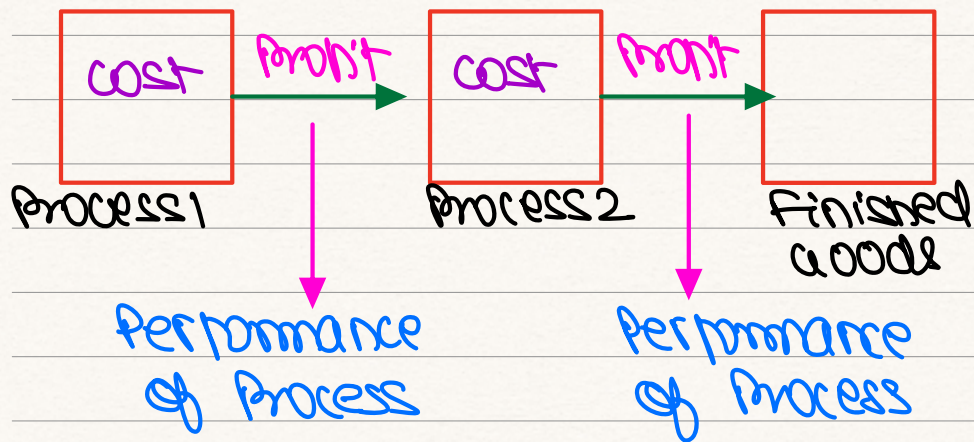
a) Process costing through stock A/c

- FIFO
- WAC

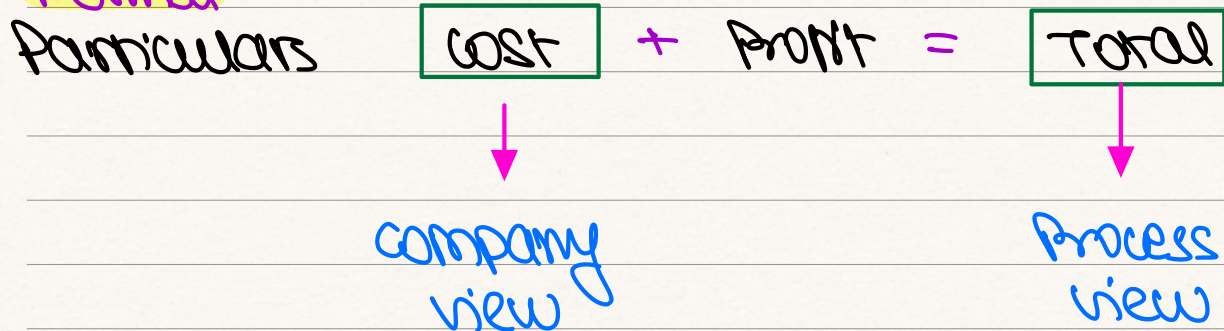
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Subject: / /

b) Process costing with inter process profits



**Format**



c) Equivalent units

Situation 1

Particulars	Qty	Amt	Particulars	Qty	Amt
Dir. mat	1000	10000	By P2 100%	700	14000
Dir Lab	-	10000	By C.S. 100%	300	6000
	1000	20000		1000	20000

$$\text{Effective cost pu.} = \frac{20000}{1000} = ₹ 20$$

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## Situation 2

Particulars	Qty	Amt	Particulars	%	Qty	EU	Amt
DM	1000	10000	By P2 A/c	100	700	700	32942
DL	-	10000					
DE	-	10000	By U. Sr.	50	300	150	7058
FOH	-	10000	(50% comp in all Respects)				
	1000	40000			1000	850	40000

Effective cost per equivalent unit =  $\frac{40,000}{850} = ₹ 47.06$

## Situation 3

Dr side same as above	Particulars	mat		lab		O/M & Exps	
		%	EU	%	EU	%	EU
	By P2 A/c	100	700	100	700	100	700
	By U. Sr.	100	300	30	90	50	150
			1000		790		850

## Statement of Equivalent cost pu.

Particulars	EU	Amt	Cost per eq. unit
material	1000	10,000	10
labour	790	10,000	12.66
OM	850	10,000	11.76
Exps	850	10,000	11.76

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## STATEMENT OF COST APPORTIONMENT

Particulars	Material	Lab	OH	Exps	TOTAL
Process 2 A/c	7000	8862	8232	8232	32326
Closing stock	3000	1138	1768	1768	7674
					40000

## Process A/c

Particulars	Qty	Amt	Particulars	Qty	Amt
DM	1000	10000	By P2 A/c	700	32326
DL	-	10000	By cl. stock	300	7674
DE	-	10000			
OH	-	10000			
	1000	60000		1000	60000



# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: // //

Chp: Standard Costing.

## Material Variances

$$\text{Total Cost Variance} = \text{SQ} \times \text{SR} - \text{AQ} \times \text{AR}$$

**Price Variance**  
 $= \text{AQ} (\text{SR} - \text{AR})$   
 $= \text{AQ} \times \text{SR} - \text{AQ} \times \text{AR}$

**Usage Variance**  
 $= \text{SR} (\text{SQ} - \text{AQ})$   
 $\text{SR} \times \text{SQ} - \text{SR} \times \text{AQ}$

**Mix Variance**  
AQ = Same

Standard mix	Actual Mix
↓	↓
AQ Re-written in Std %	AQ in Actual %
$\text{SR} (\text{RAQ} - \text{AQ})$	

**Yield Variance (Output)**  
mix = std %

SQ	AQ
↓	↓
Std Qty in Std Mix	Actual Qty in Std Mix
$\text{SR} (\text{SQ} - \text{RAQ})$	

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: // //

## Labour variances

$$\text{Labour cost variance} = \text{SR} \times \text{SH} - \text{AR} \times \text{AH}$$

Labour Rate variance

$$\text{AH} (\text{SR} - \text{AR})$$

Labour efficiency variance

$$\text{SR} (\text{SH} - \text{AH})$$

idle time

Labour net efficiency variance

$$\text{SR} (\text{SH} - \text{NET-AH})$$

Actual - Idle Time

idle time variance

$$\text{SR} \times \text{Idle Time}$$

it will Always Be Adverse

Labour mix / Gang variance

$$\text{SR} (\text{RAH} - \text{AH})$$

Labour yield variance

$$\text{SR} (\text{SH} - \text{RAH})$$

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## Overhead variances

### I: variable overhead variances

#### a) Based on output

- i. Std Recovery Rate pu.
- ii. Actual Recovery Rate pu.
- iii. Actual output (for Actual hrs)
- iv. Std output (for Actual hrs)

- v. Total cost variance =  $SR \times AO - AR \times AO$   
Overheads Absorbed  
Overheads incurred
- vi. Efficiency variance =  $SR(SO - AO)$
- vii. Expenditure variance =  $SR \times SO - AR \times AO$

#### b) Based on Time

- i. Std Recovery Rate ph.
- ii. Actual Recovery Rate ph.
- iii. Actual hrs (for Actual output)
- iv. Std hrs (for Actual output)
- v. Total cost variance =  $SR \times SH - AR \times AH$
- vi. Efficiency variance =  $SR(SH - AH)$
- vii. Expenditure (Rate) variance =  $AH(SR - AR)$

Hint: variable OH variance based on time is similar to Labour variances

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

## II: Fixed Overhead variances

Basic:

1. Actual Fixed Overheads
2. Budgeted Fixed Overheads
3. Budgeted Fixed Overheads Adjusted to Days  
$$\frac{BOH}{BD} \times AD$$
4. Budgeted Fixed Overheads Adjusted to Hrs  
$$\frac{BOH}{BH} \times AH$$
5. Budgeted Fixed Overheads adjusted to Qty  
$$\frac{BOH}{BQ} \times AQ$$

## variances

Cost variance

1-5

FOH Expenditure variance

1-2

Fixed overheads volume variance

2-5

FOH Calendar variance

2-3

FOH Capacity variance

3-4

FOH efficiency variance

4-5

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

Chp: marginal costing.

concept: Marginal cost sheet  
sales

↳ Variable cost  
contribution

↳ Fixed cost  
Profit

concept: P/V Ratio =  $\frac{\text{contribution}}{\text{sales}} \times 100$   
OR  $\Delta \text{Profit} / \Delta \text{sales}$

concept: contribution

- i. sales - variable cost
- ii. fixed cost + Profit
- iii. sales  $\times$  P/V Ratio

concept: Break-Even Point

contribution = Fixed cost

FC

sales

Fixed cost  
contribution pu.

Fixed cost  
P/V Ratio

Q: Profit of ₹₹ → Desired cont →  $\text{FC} + \text{Profit}$   
contribution or P/V Ratio

# CA INTER COSTING NOTES BY CA HARSHAD JAJU

Subject: / /

concept: margin of safety.

- Qty*
- i.  $\frac{\text{Profit}}{\text{contribution pu.}}$
- sales*
- ii.  $\frac{\text{Profit}}{\text{P/V Ratio}}$

concept: shutdown point

- Qty*
- i.  $\frac{\text{Avoidable FC}}{\text{cont pu.}}$
- sales*
- ii.  $\frac{\text{Avoidable FC}}{\text{P/V Ratio}}$

NOTES BY: CA Harshad Jaju

*Harshad*

All the best for exams  
God Bless you.

Subject: \_\_\_\_\_

/ /

Lined writing area with horizontal ruling lines for notes.