

Foundation Level

- CA RISHABH ROHRA (1) Forward, Backward → PV
 (2) LIFO, FIFO, Weighted Avg, Adj. selling price method
 (3) Value → Cost or NAV w.p.L



Ex:- 1500 mobile → purchase } unsold
 900 mobile → sold } 600 mobile → **AS-02: INVENTORY**

MEANING OF INVENTORIES

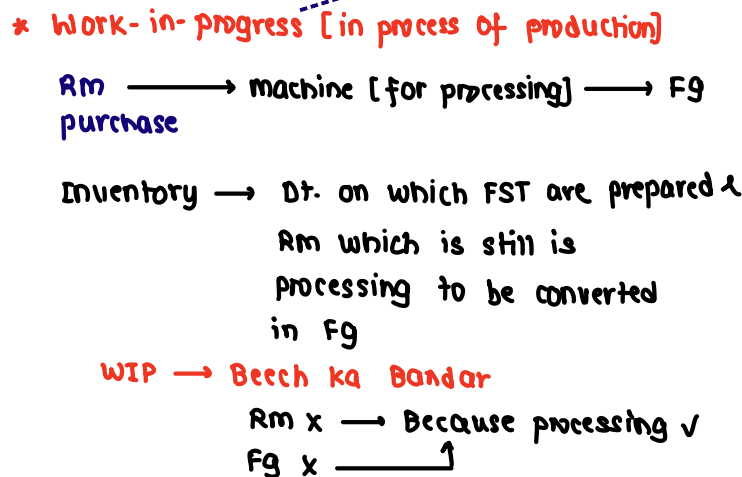
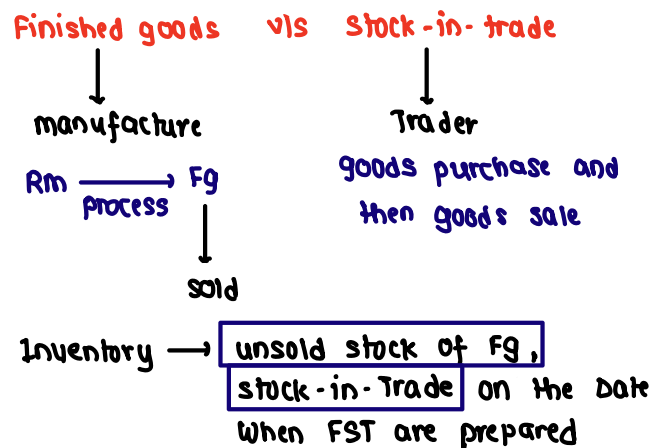
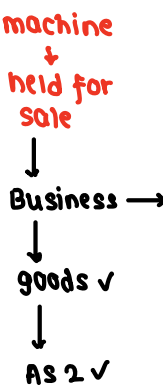
Inventories are the assets: **unconsumed or in process of conversion or unsold**
 ✓ **Held for sale** in the ordinary course of business (Finished Goods/Stock-in-Trade)
 ✓ In the process of production for such sale (Work-in-progress)
 ✓ In the form of material or supplies to be consumed in the process or in the rendering of services (Raw material) For → **vogurukul** → Teaching service

Note: Inventories do not include
 a) spare parts
 b) servicing equipment and
 c) standby equipment

which meet the definition of PPE as per AS 10.

Accounting treatment of such items shall be done in accordance with AS 10.

Inventory kya hai ??
 → Books
 → T-shirt, Hoodies for Teachers





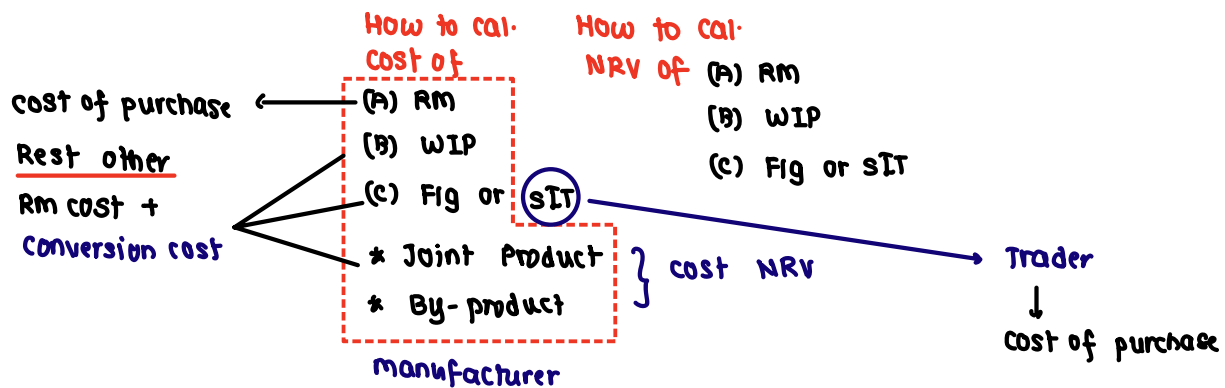
NON-APPLICABILITY OF AS 02

This standard does not apply to

- ✓ **WIP** arising under construction contracts (AS 07)
- ✓ WIP of service providers
- ✓ Shares, debentures and other Financial instruments held as stock in trade [Broker, Trader, Financial Institution]
- Ind-AS ✓ Producers' inventories of Livestock, agricultural and Forest products and Mineral oils, ores and gases to the extent that they are measured at NRV.

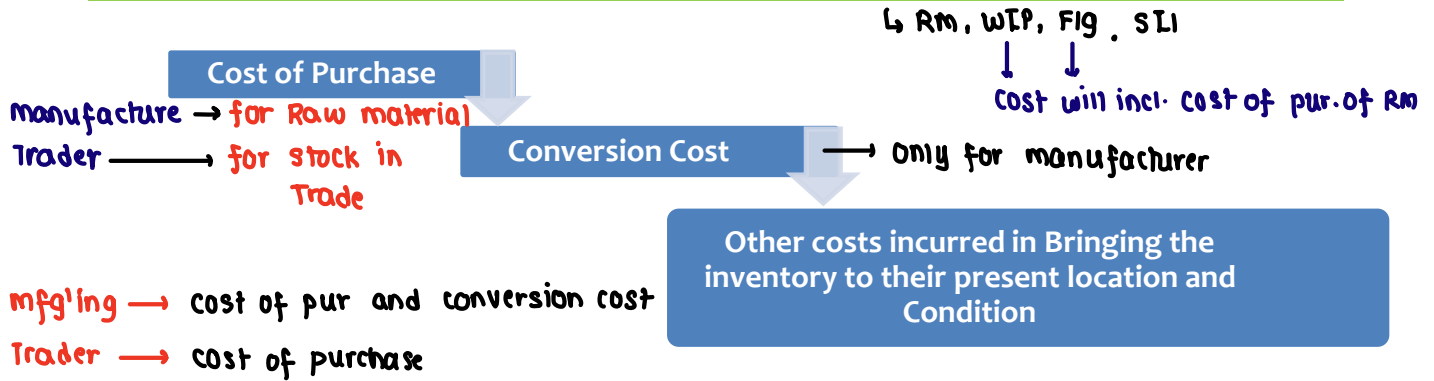
VALUATION OF INVENTORY

✓ Inventory should be valued at cost or NRV whichever is lower





COMPUTATION OF COST OF INVENTORIES

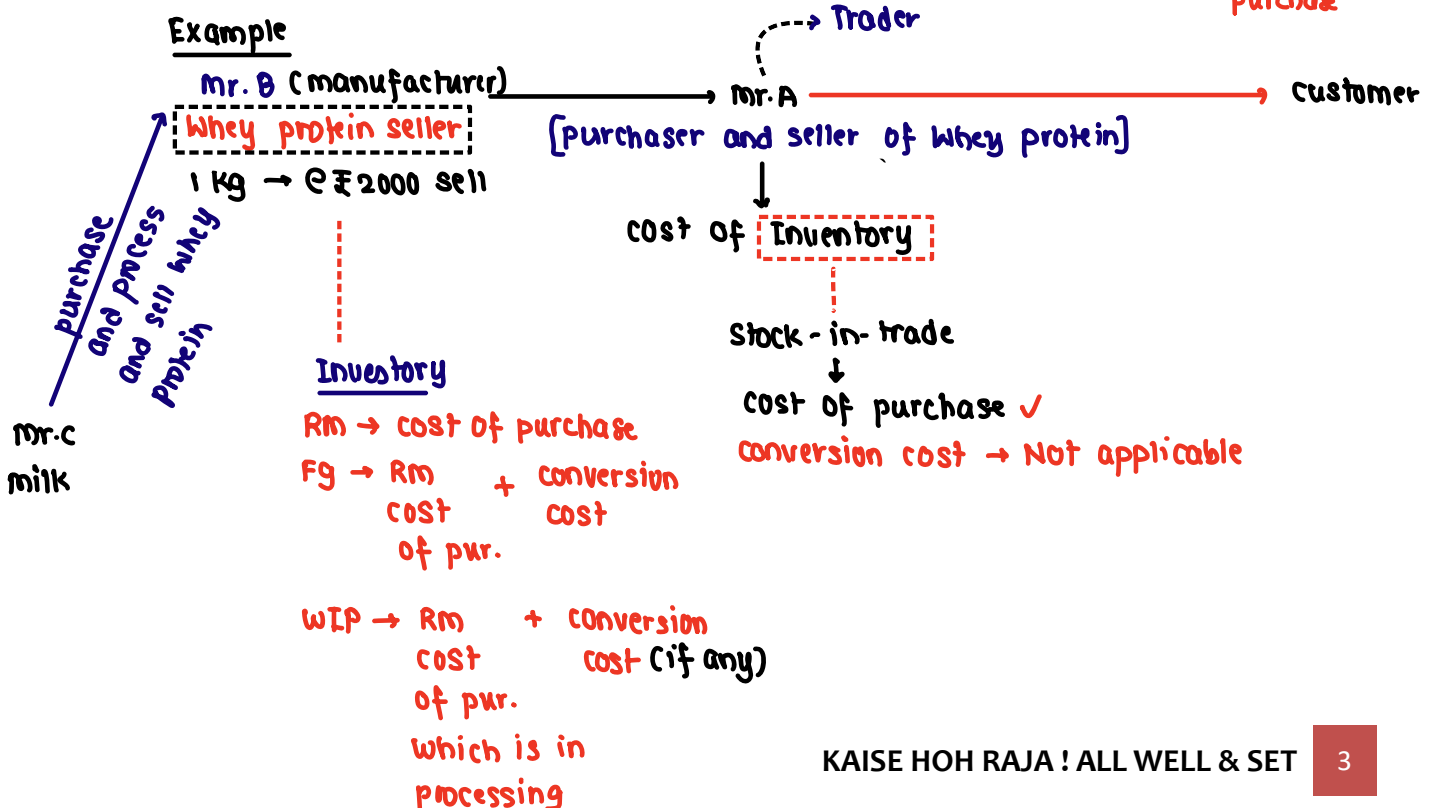


manufacturer \rightarrow RM \rightarrow cost of purchase
 For a Trader \rightarrow SIT \rightarrow cost of purchase
 Cost of Purchase \rightarrow Job chize aap Trading Acc mein dote then as expense

Basic Purchase Price	-
+ Duties and Taxes (Non-refundable)	-
+ Freight Inward	-
+ other directly attributable expenditure	-
- Trade Discount and Rebates	-
Cost of Purchase	-

Note: Directly Attributable Expenditure includes:

- ✓ Buying commission where purchase of material is possible only through Buying agents
 - ✓ Cost of containers
 - ✓ Transit Insurance
- normally P&L Acc, but in this case added to cost of purchase*



AS 10 → PPE → What all amount is added to cost of PPE

COA → Purchase price

(-) Trade discount and Rebate

+ Non-Refundable or Non-Adjustable Taxes

+ cost directly attributable [Asset to be Ready to use at Location and purpose intended by management]

+ Decommissioning and Restoration exp @ PV

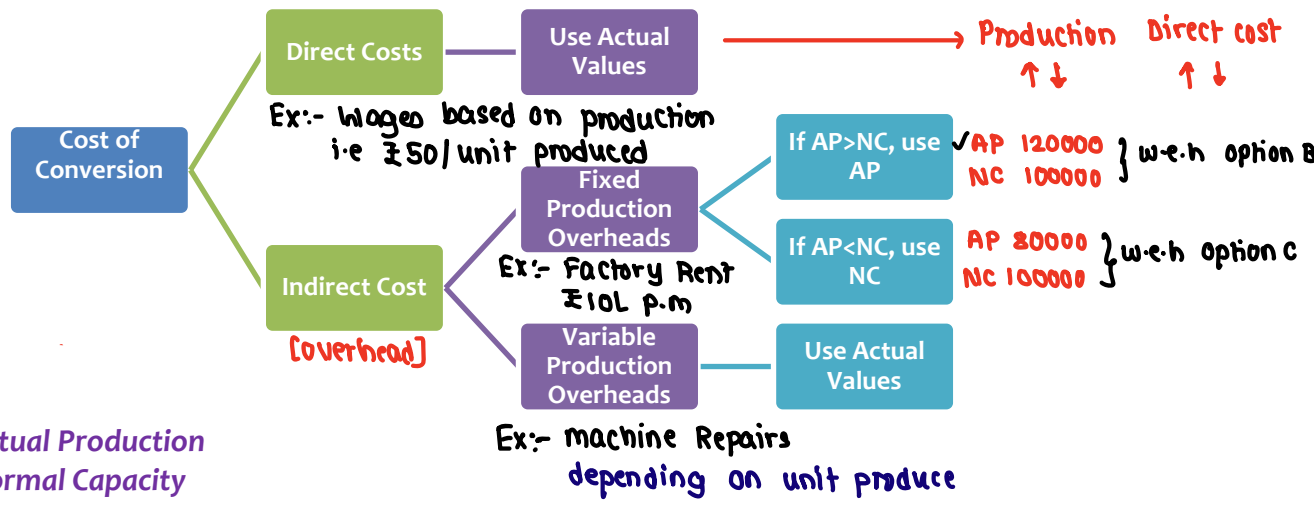
+ Borrowing cost As per AS-16, if it's a QA

----- applies for
manufacturer



Rm $\xrightarrow[\text{cost}]{\text{conversion}}$ FG

Cost of Conversion



AP = Actual Production
NC = Normal Capacity

Example 1

ABC Ltd has a factory which can produce 1,00,000 unit p.a
 cost matrix \rightarrow Rm ₹50/unit
 Wages ₹30/unit
 Factory Rent \rightarrow ₹10,00,000 p.m

Cal. cost / unit

Option A : Actual Production \rightarrow 100000 p.a

Rm \rightarrow ₹50
 Wages \rightarrow ₹30
 Rent \rightarrow $\frac{₹10,00,000}{100,000}$ \leftarrow [10,00,000 x 12 / 100,000]
 ₹200/unit

Option B :- Actual Production \rightarrow 1,20,000 p.a

Rm \rightarrow ₹50
 Wages \rightarrow ₹30
 Rent \rightarrow $\frac{₹10,00,000}{1,20,000}$ [10,00,000 x 12 / 1,20,000]
 ₹180

Option C :- Actual Production \rightarrow 80,000 p.a

Rm \rightarrow ₹50
 Wages \rightarrow ₹30
 Rent \rightarrow $\frac{₹10,00,000}{80,000}$ \leftarrow [10,00,000 x 12 / 80,000]
 ₹230

$\frac{₹10,00,000}{1,00,000}$ \leftarrow [10,00,000 x 12 / 1,00,000]
 ₹120
 ₹200

NC 100000 } w.e.h
 AP 80000 }

X

KAISE HOH RAJA ! ALL WELL & SET 4
 \therefore Rent \rightarrow 120 x 80,000 \rightarrow ₹96,00,000 Inventory +
 120 x 20,000 \rightarrow ₹24,00,000 PAI Atc



Cost of Conversion (Residual Cases)

CASE 1: When Joint Product is formed and cost of conversion of each product are not separately identifiable

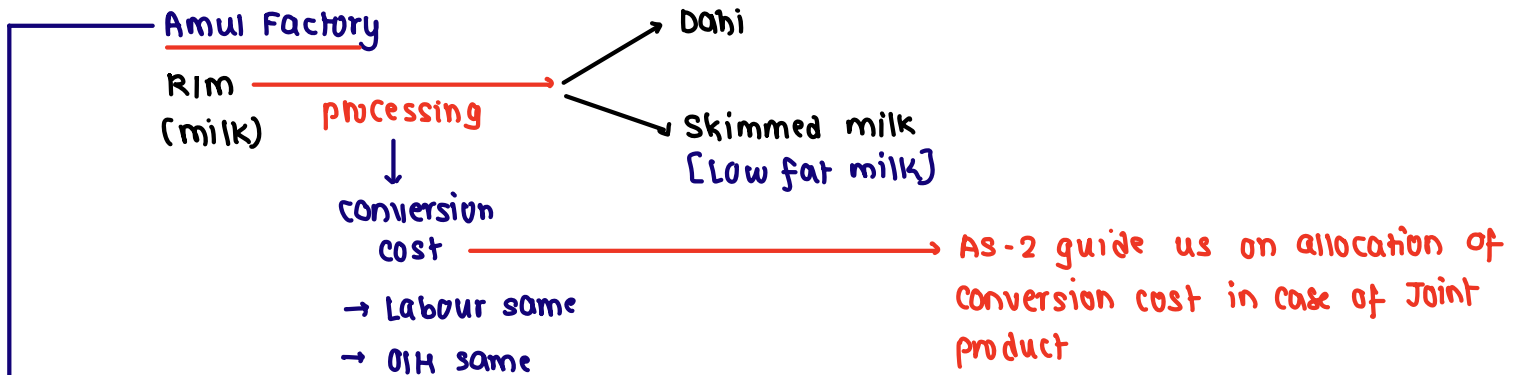
Treatment: Allocate cost of conversion on a rational & consistent Basis (i.e. allocate in the ratio of their relative sales value of each product either at the stage of production or at the stage of completion of production).

CASE 2: When By-Product (scrap or waste materials) is formed along with Main Product Compulsorily

Treatment:

Step 1: Measure such scrap at NRV if unsold value at NRV

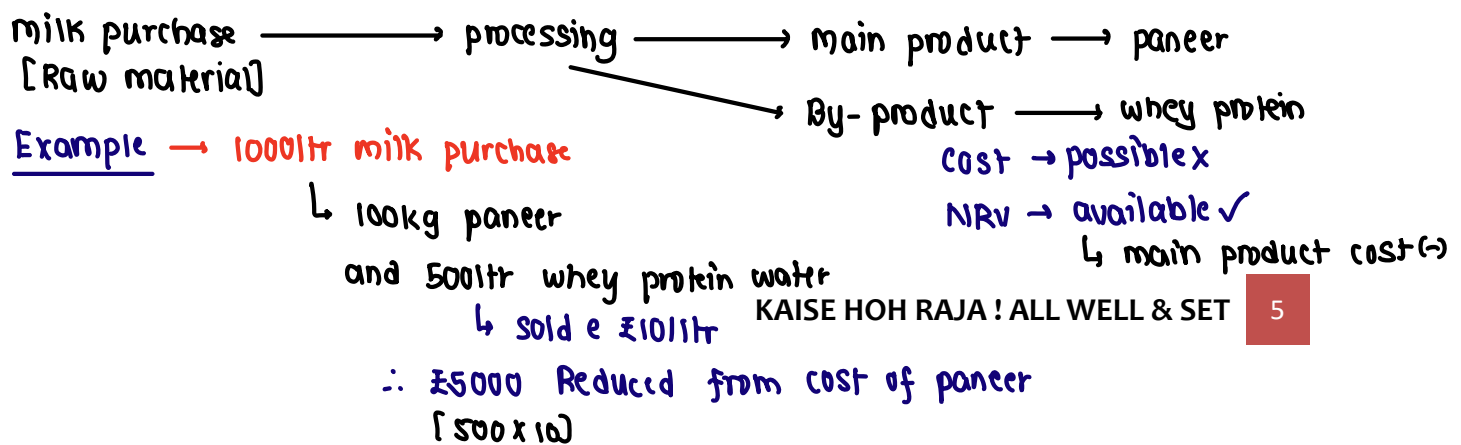
Step 2: Deduct its value from the cost of main product [after By-product sale / produced]



Example → conversion cost ₹100,000

Unit Produced → Dahi → 5000 unit	SP ₹28	∴ ₹1,40,000
milk → 15000 unit	SP ₹26	∴ ₹3,90,000
		5,30,000

∴ conversion cost allocation → Dahi → $₹1,00,000 \times \frac{₹1,40,000}{₹5,30,000}$ i.e ₹26,415
 milk → $₹1,00,000 \times \frac{₹3,90,000}{₹5,30,000}$ i.e ₹73,585

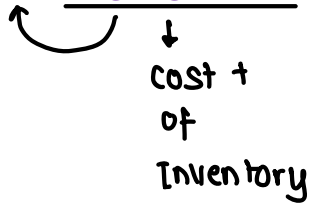




Other Costs

Include only if incurred in bringing the inventory to their present location and condition

Example: Cost of designing products for specific customers



Exclusions from the cost of Inventories (PARA 13)

- ✓ Abnormal Loss
- ✓ Storage Cost → if storage is part of prodn process then ADD
Ex:- Wine
- ✓ Administrative overheads
- ✓ Selling and Distribution Overheads
- ✓ Interest and other borrowing costs → If Inventory → QA → AS 16, the Interest till Item is Ready to sale ADD

Discussion of normal loss and abnormal loss

unavoidable
avoidable

Vegetable vendor

supplier of Tamatar → 20kg → sabji wale

Cost/Kg ₹200/18kg i.e ₹11.11 = Normal saleable units

₹101kg i.e ₹200

20kg
↳ 2kg
Kharab

KNOWN

Reality only 15kg Tamatar were Saleable Rest all Rotten

∴ Abnormal LOSS = 3kg x 11.11 = ₹33.33 → P&L Acc Dr.

20kg

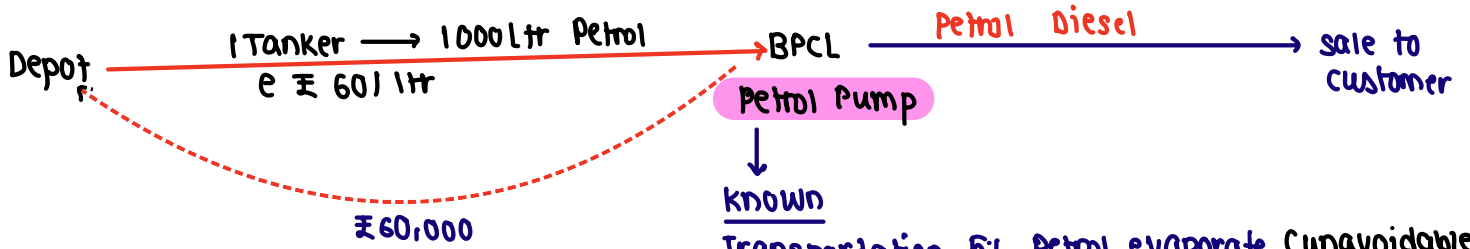
(-) 2kg → Normal Loss

18kg

(-) 3kg → abnormal LOSS

15kg

Petrol Pump Dealer



∴ Cost / ltr → $\frac{₹60,000}{950 \text{ ltr}}$
i.e ₹63.16

Reality → Recd. 920 ltr Petrol mila

- 1000 ltr order
- (-) 50 ltr normal → **Alcing x**
- 950 ltr
- (-) 30 Abnormal Loss
- 920 ltr

↪ P&L A/c Dr. 1,894.8
(30 x 63.16)
To Trading

To Purchase	1000 ltr	₹60,000	By sale	-	-
			By Abnormal Loss	30	1,894.8
			By cl. stock	920 ltr	58,107.2
To Abnormal Loss	→	₹1894.8			

920×60
 920×3.16

Normal Loss → 50 x ₹60 i.e 3,000 → Distribute → (1000 - 50)
i.e 950 unit
i.e 3.16/unit ↑

Q1

Order 20,000 kg @ ₹110/kg → ₹22,00,000 (incl. gst @ ₹12/kg)

∴ Less:- Taxes [20000kg × ₹12/kg] → ₹ 2,40,000

₹ 19,60,000

+ Freight charges → ₹ 1,17,600

₹ 20,77,600

No. of unit expected to be recd.

19,600 kg

[20000 kg (-) 2% Normal loss]

∴ cost / kg → ₹106/kg

Unit Actually Recd. → 19500 kg

∴ Abnormal loss [19600 kg (-) 19500kg] 100 kg

∴ Value of Ab-normal Loss [100 × 106] ₹ 10,600

20000 kg
(400)

19600

100

19500

18000

1500 unsold

∴ value of cl. stock / inventory → ₹ 106 × 1500

= ₹ 1,59,000

Q2

	Unit	₹/unit	Amt (₹)
Total amount paid / payable for RM →	12,000	150	18,00,000
(-) Normal Loss →	480		
	<u>11,520</u>	<u>₹156.25</u>	<u>18,00,000</u>
Actual Prodn excl. wastage [12000 (-) 630]	11,370		17,76,562.5
Ab-normal Loss →	150	₹156.25	23,437.5



Rm + conversion cost

Cost Formulas

a) **Specific Cost Identification Method:** Specific costs are attributed to identified items of Inventory for items that are not ordinarily interchangeable

iPhone 17 → Sold
iPhone 13 Stock (-) → NO

b) **FIFO or Weighted Average Method:** used in other cases

goods ←
Can be used
inter-
changability
iPhone 17
Purchase
Sold

	RM purchase	RM issued for prodn
10106118	500 unit @ 11	-
10107118	600 unit @ 12	-
12107118	-	650 unit ----- FIFO 500 x 11 + 150 x 12
13107118	1000 unit @ 9	-
31107118	-	350 unit ----- FIFO 350 x 12

$$W.Avg = \left[\frac{£5500 + £7200}{500 + 600} \right] \times 650$$

i.e £7504

$$W.Avg = \left[\frac{5500 + 7200 (-) 7504 + 9000}{500 + 600 (-) 650 + 1000} \right] \times 350$$

= £3426 → i.e $\frac{14196}{1450} \times 350$

Cl. Inventory RM

FIFO → 100 x 12 + 1000 x 9 = 10,200

W.Avg = 10,770

cost of RM issued for production

FIFO = £11500

W.Avg = £7504 + £3426 = £10,930

If today, I sell the inventory, what will it fetch

$\frac{14196}{1450} \times 1100$

Net Realisable Value (NRV)

Rm Ready market

Computation of NRV

RM	← Estimated Selling Price	of FG } FG KA		-
RM	← Less: Estimated Selling Expenses	of FG } NRV	} NRV of WIP	-
↘	Less: Estimated Cost of Completion	of WIP to FG		-
			Net Realisable Value	-

Notes:

- a) Value Inventories at NRV on Individual Basis and not on Global Basis
- b) NRV = Contract Price, in case of Firm/Committed Contract of Sale

∴ First we shall cal. NRV of FG

this can also be used for SIT

----- Estimated selling price	xxxx
(-) estimated selling exp	x
NRV	<u>xxxx</u>

Now, we shall calculate

NRV of WIP → Estimated selling price of FG
(-) estimated selling exp of FG
(-) cost need for converting this WIP to FG

xxxx



RM

Valuation of Materials and Other supplies (PARA 24)

or $SP = COST$

- a) If SP of $FG \geq CP$ of FG : Value Raw Materials at CP
- b) If SP of $FG < CP$ of FG : Value Raw Materials at Lower of CP or RP

SP = Selling Price
 CP = Cost Price
 RP = Replacement Price
 FG = Finished Goods

Fig } value at
 SIT } cost or NRV
 WIP } w.e.l

RM → valued at cost or Replacement

↳ Depends on whether FG value at cost or NRV

Disclosure Requirement

Kya राजा ! Ab Disclose कर ले ?

- ✓ Formula used to Find Cost
- ✓ Accounting Policies used
- ✓ Total Carrying amount of inventories cost
- ✓ Classification of amount of inventories

RM, WIP, Fig
 SIT, JP, By-product

Fig or SIT → SP (-) SE

WIP → FG SP

(-) FG SE

(-) COC of WIP into FG

Repeat



Inventory

shall be valued at cost or **NRV** w.e. Lower

↳ Fig, WIP, SIT

However in case of RM which is normally valued at cost

Exception

If FG SP < cost of FG then

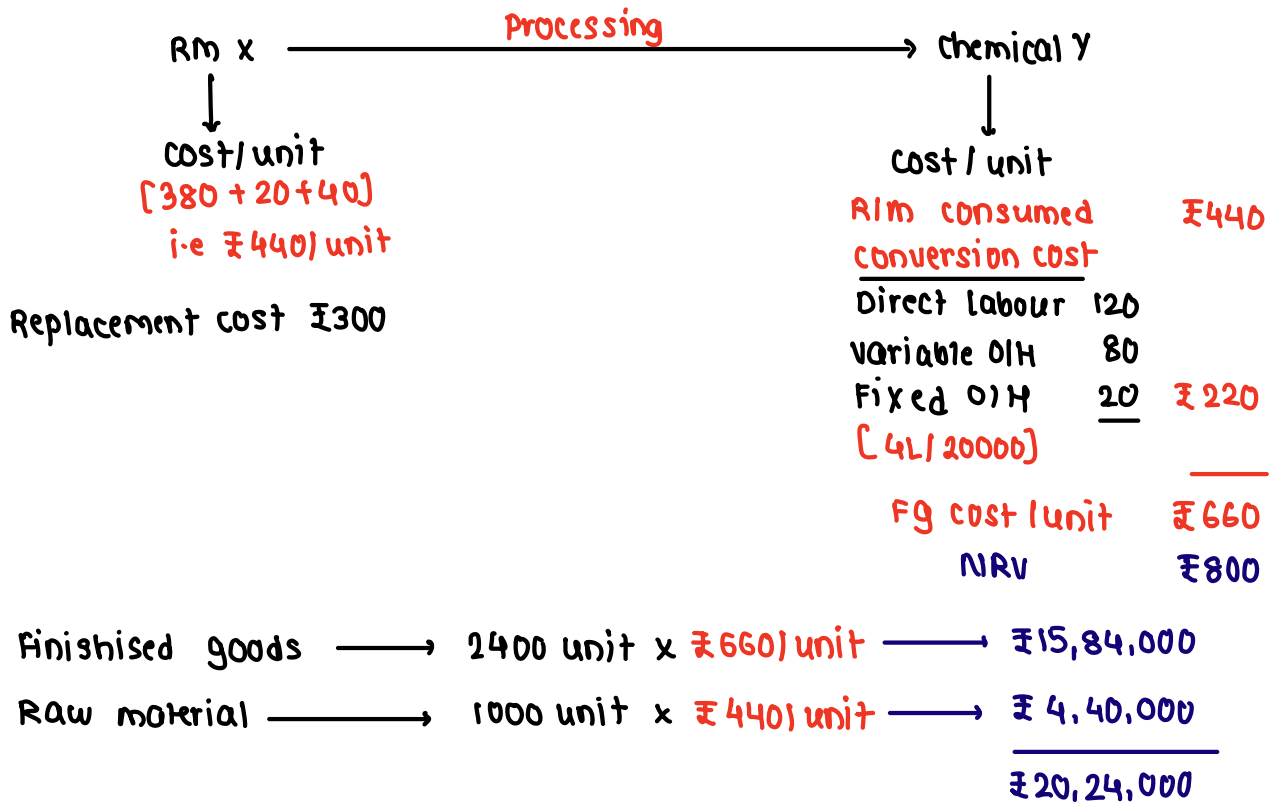
RM shall be valued at

cost or **Replacement cost**

w.e.l

If RM is purchased today what amt will I need to pay

Q6



Q7

Cal. of cost/unit for Raw material P

	₹
Cost price [excl. gst]	230
+ Freight inward	30
+ Handling charges	15
	₹275
	Replacement cost/unit ₹180

Cal. of cost/unit for FG Q

	₹
RM cost	250
+ Direct labour	70
+ Direct OH	30
+ Fixed OH [3,00,000/30000]	10
	₹360

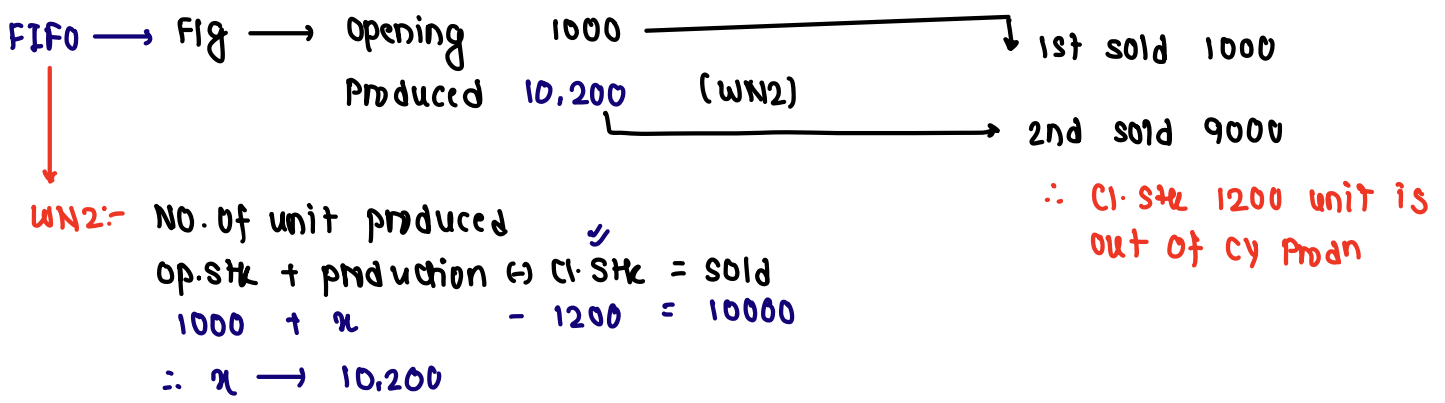
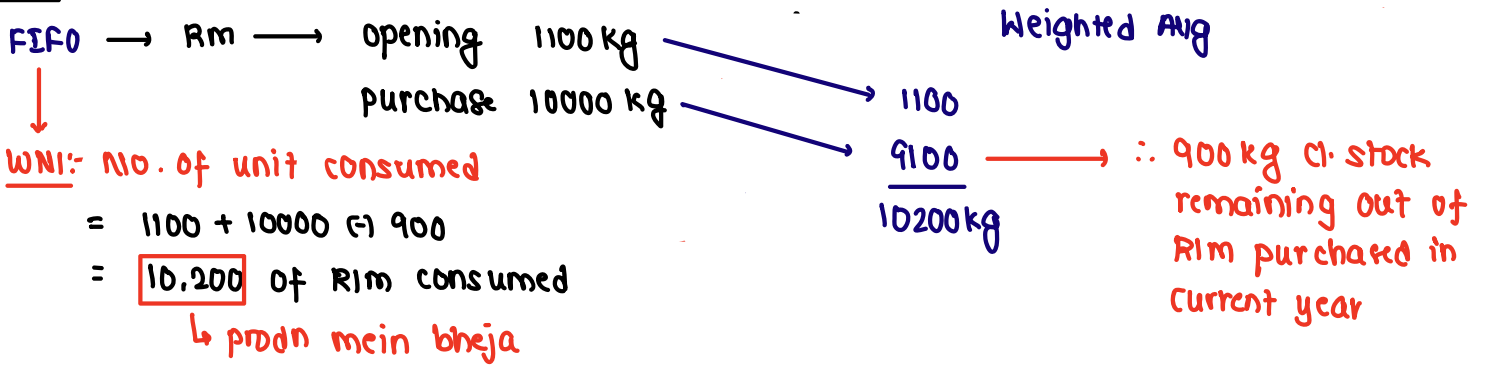
Case 1:- FG NRV is ₹450

∴ FG Cl. stock value	→ 1500 unit x 360/unit	→ ₹5,40,000
RM Cl. stock value	→ 600 unit x 275/unit	→ ₹1,65,000 ₹7,05,000

Case 2:- FG NRV is ₹340

∴ FG Cl. stock value	→ 1500 unit x 340/unit	→ ₹5,10,000
RM Cl. stock value	→ 600 unit x 180/unit	→ ₹1,08,000 ₹6,18,000

Q910 → methods of cal. cost of inventory → FIFO ✓



* Cal. of Cl. stock of FG

Raw material consumed	10,200 kg	→ 1100 kg	→	₹ 11,000		
		→ 9100 kg	→	₹ 91,000	1,02,000	
		[₹100000/10000 x 9100]				
+ Labour					76,500	
+ Fixed OH	[₹75000/15000] x 10,200 kg					51,000
	75000	→ 51000	→ Inventory +			
		↳ 24000	→ P&L Acc Dr.			
					₹ 2,29,500	
				∴ cost / unit of FG	₹ 22.51/kg	
				[₹ 229500 / 10,200 kg]		
				However NRV	₹ 20/kg	

∴ Finished goods valued at cost of NRV w-e-l
 i.e 1200 unit x ₹20/unit → ₹24000

Here we assume, NRV of FG as SP
 ∴ When FG SP < cost Then RM is valued at lower of cost or replacement cost

RM Cl. Stock → cost ₹10/kg
 AC ₹9.5/kg

∴ Cl. Stock of RM = 400 kg x 9.5
 = ₹3800

CQ10 → methods of cal. cost of inventory → FIFO

FIFO → Rm → opening 1100 kg } → 10,200 kg consumed
 purchase 10000 kg }
 Weighted Avg ✓

WN1:- No. of unit consumed

$$= 1100 + 10000 \text{ (} \rightarrow 900$$

$$= \boxed{10,200} \text{ of Rm consumed}$$

↳ prodn mein bheja

FIFO → Fg → opening 1000 } 10000 sold kg
 Produced 10,200 (WN2) }

WN2:- NO. of unit produced

$$\text{op. stk} + \text{production} \text{ (} \rightarrow \text{Cl. Stk} = \text{sold}$$

$$1000 + x \quad - 1200 = 10000$$

$$\therefore x \rightarrow 10,200$$

* Cal. of Cl. Stock of Fg

Raw material consumed → $\left[\frac{\text{₹}11000 + \text{₹}100000}{1100\text{kg} + 10000\text{kg}} \right] \times 10,200\text{kg} \rightarrow \text{₹}1,02,000$

+ Labour → 76,500

+ Fixed O/H [₹75000 / 15000] × 10,200 kg → 51,000

75000 → 51000 → Inventory +
 ↳ 24000 → P&L Acc Dr.

₹ 2,29,500

∴ cost / unit of Fg ₹ 22.51/kg
 [₹ 229500 / 10,200 kg]

However NRV → ₹ 20/kg

∴ Finished goods valued at cost of NRV w.e.L

i.e 1200 unit × ₹20/unit → ₹24000

Here we assume, NRV of Fg as SP

∴ When Fg SP < cost Then Rm is valued at lower of cost or replacement cost

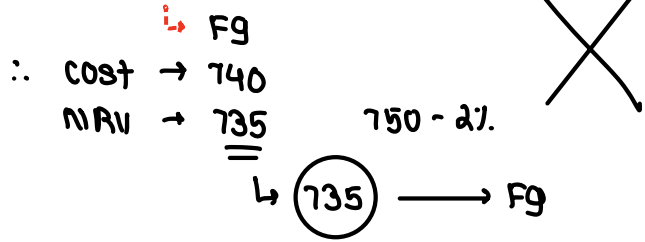
Rm Cl. Stock → $\frac{1100 + 100000}{1100 + 10000}$
 = ₹101/kg

∴ Cl. Stock of Rm = 900 kg × 9.5
 = ₹8550

RC → ₹9.5/kg

Q11

Cost of WIP = $430 + 310$



Cost of NRV of WIP \rightarrow	FG selling price	₹ 750
	(-) FG selling exp	<u>15</u>
	NRV of FG \rightarrow	735
	(-) cost of completion of WIP into FG	<u>310</u>
	NRV of WIP \rightarrow	425
	Cost of WIP \rightarrow	430

\therefore WIP valued @ ₹ 425/unit

