

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

machine
 ↓
 held for sale
 ↓
 Business → x
 ↓
 goods ✓
 ↓
 AS 2 ✓

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 → vcgurukul → Teaching service

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

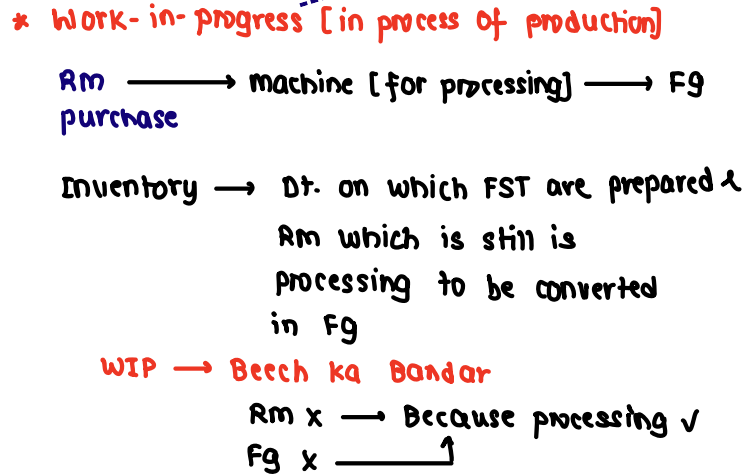
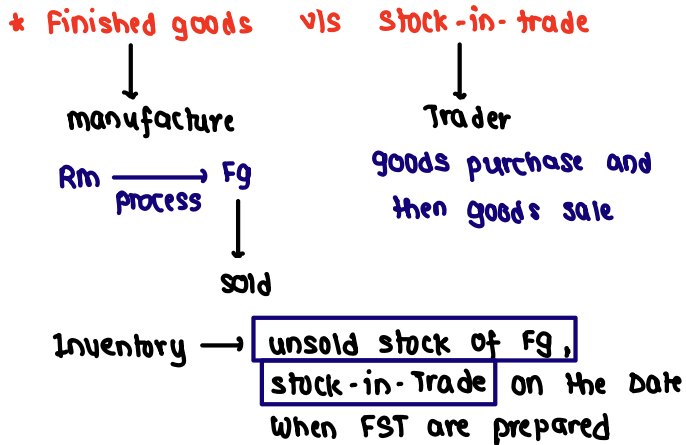
Inventory kya hai ??
 → Books
 → T-shirt, Hoodies for Teachers



which meet the definition of PPE as per AS 10.

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

only for manufacturer





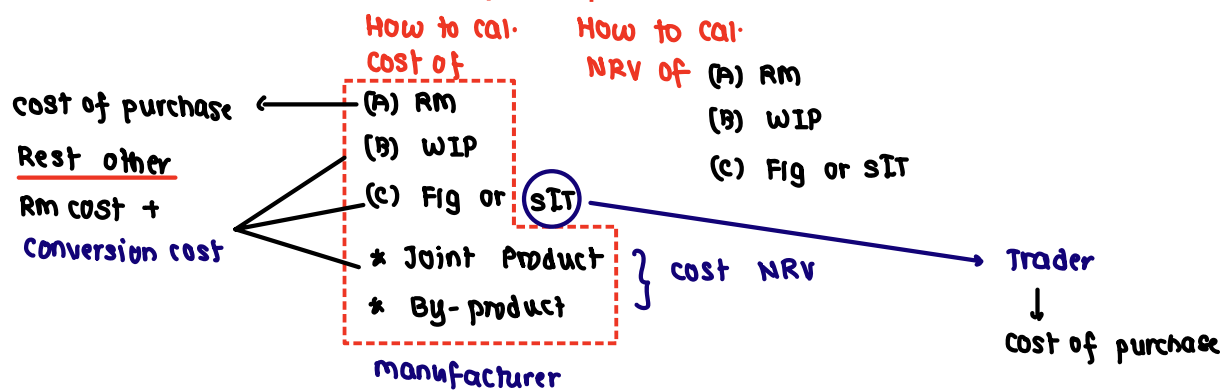
NON-APPLICABILITY OF AS 02

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.

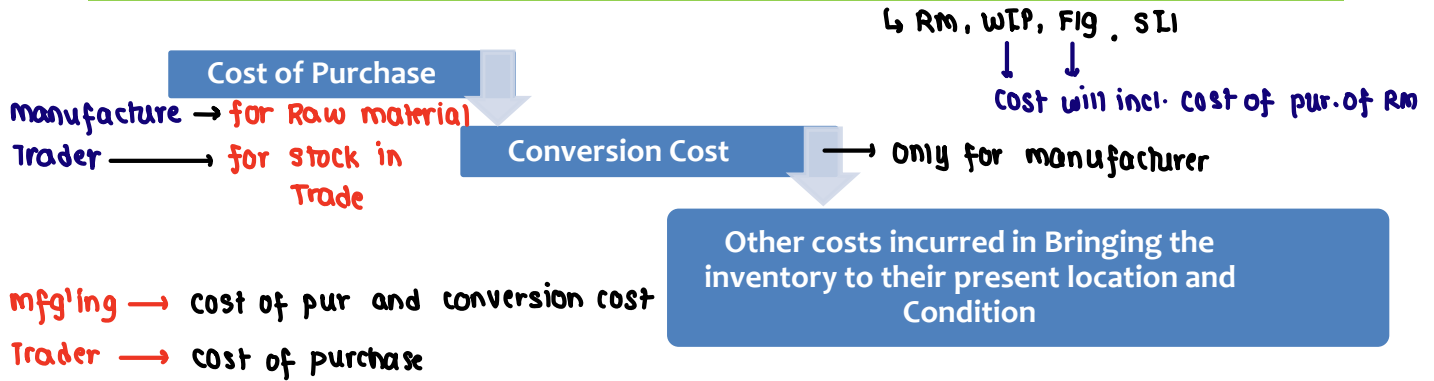
VALUATION OF INVENTORY

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





COMPUTATION OF COST OF INVENTORIES

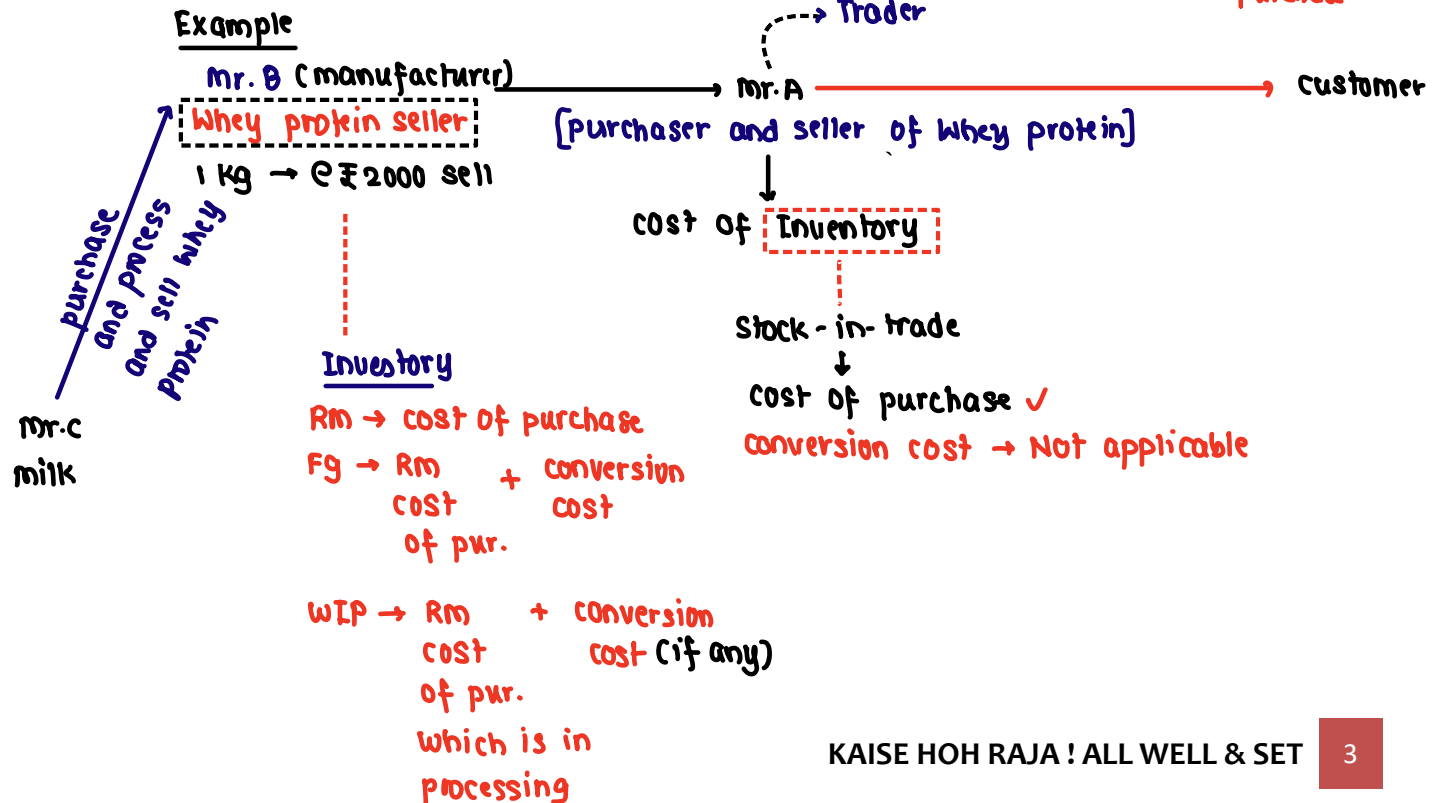


manufacturer \rightarrow RM \rightarrow cost of purchase
 For a Trader \rightarrow SIT \rightarrow cost of purchase
 Cost of Purchase \rightarrow Job chize ap Trading Acc mein dolte then as expense

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

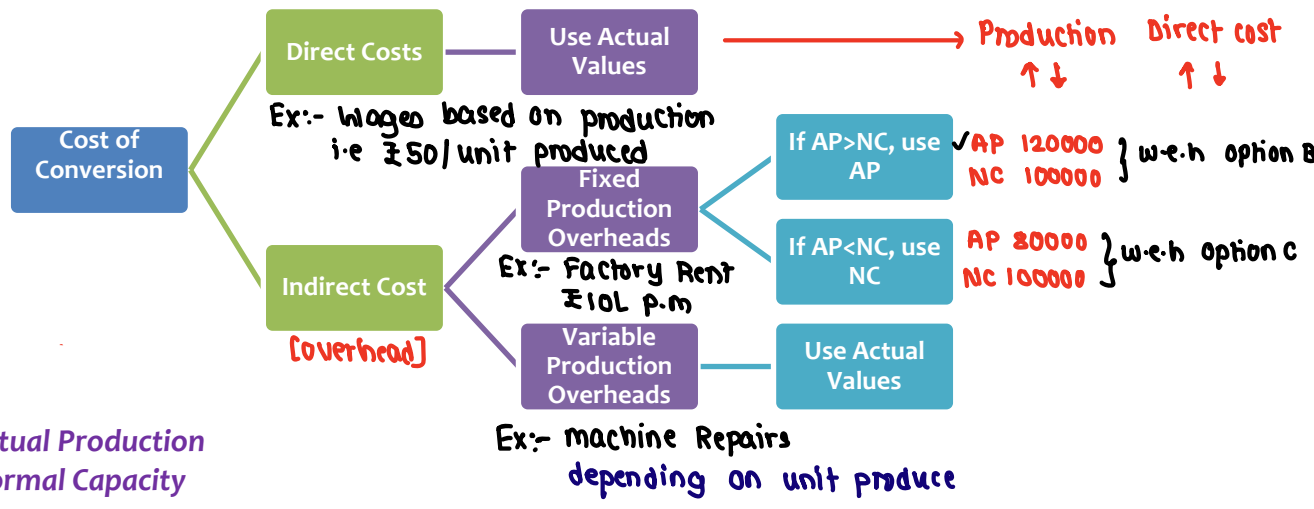
+ Borrowing cost As per AS-16, if it's a QA

----- 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 ₹120 \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 ₹100 [10,00,000 x 12 / 120,000]
 ₹180

Option C :- Actual Production \rightarrow 80,000 p.a
 Rm \rightarrow ₹50
 Wages \rightarrow ₹30
 Rent \rightarrow ₹150 [10,00,000 x 12 / 80,000]
 ₹230

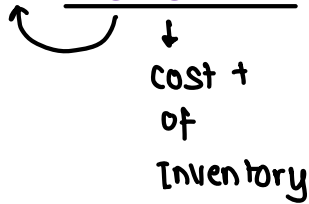
[10,00,000 x 12 / 80,000] \times
 KAISE HOH RAJA ! ALL WELL & SET 4
 \therefore Rent \rightarrow 120 x 80,000 \rightarrow ₹96,00,000 Inventory +
 120 x 20,000 \rightarrow ₹24,00,000 PAI Atc



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

₹10/kg i.e ₹200

KNOWN: 20kg, 2kg Kharab

Reality only 15kg Tamatar were Saleable Rest all Rotten

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

20kg

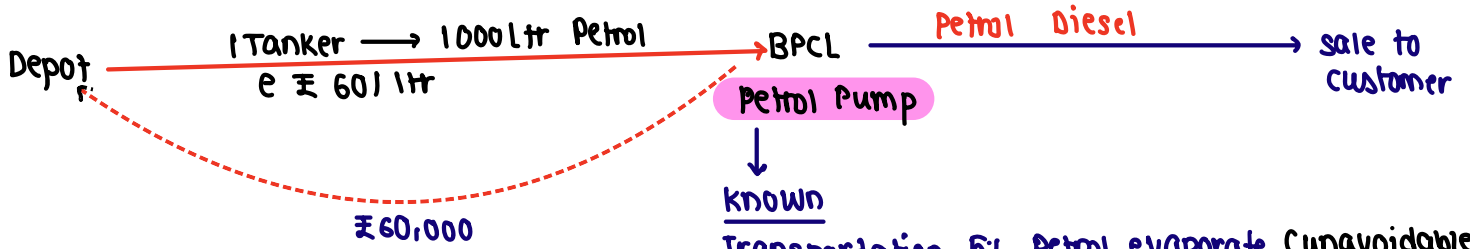
(-) 2kg → Normal Loss

18kg

(-) 3kg → abnormal LOSS

15kg

Petrol Pump Dealer



known
Transportation 5% Petrol evaporate (unavoidable)

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

Reality → Recd. 920 ltr Petrol mila

1000 ltr order
(-) 50 ltr normal → Abcing 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		₹1,894.8			

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	Am't (₹)
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
13107118	1000 unit @ 9	-
31107118	-	350 unit

$$W.Avg = \left[\frac{£5500 + £7200}{500 + 600} \right] \times 650$$
 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 → $100 \times 12 + 1000 \times 9 = 10,200$
 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	-
↘	Less: Estimated Cost of Completion	of WIP to FG } NRV of WIP	-
		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 xxx x
 (-) estimated selling exp x
 NRV xxx x

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

xxx x



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

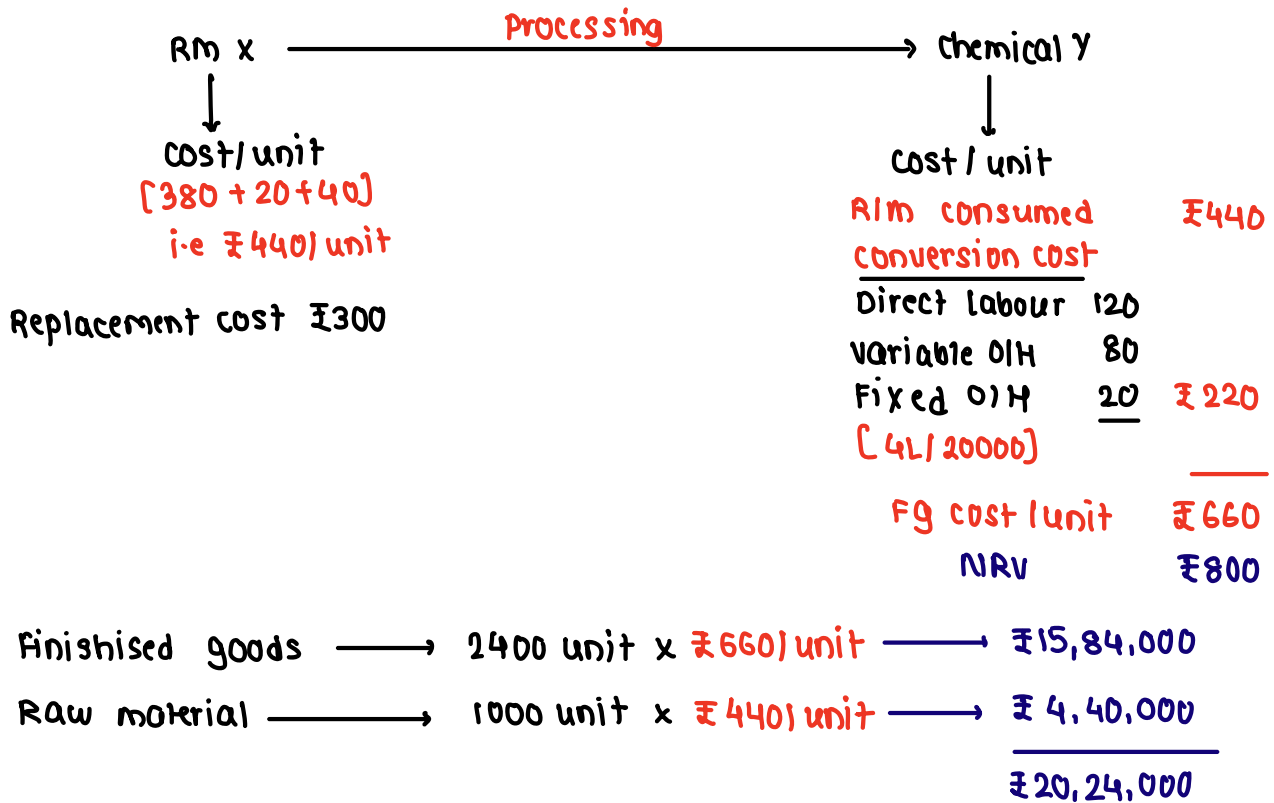
RM shall be valued at

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
	<u>275</u>
Cost/unit	₹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
	<u>360</u>
Cost/unit	360

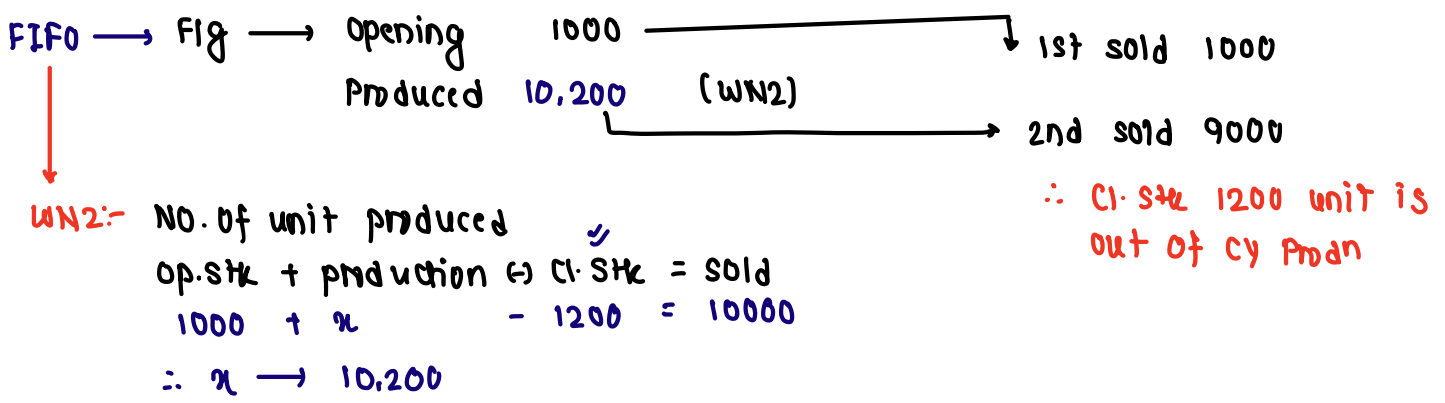
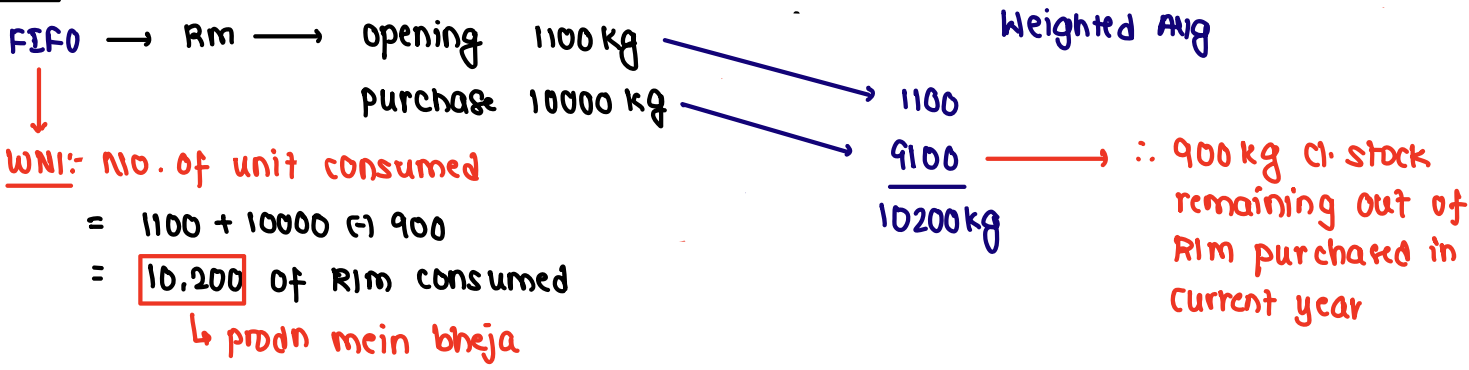
Case 1:- FG NRV is ₹450

.. 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
		<u>₹7,05,000</u>

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
		<u>₹6,18,000</u>

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 ∴ Cl. Stock of RM = 400 kg x 9.5
 AC ₹9.5/kg = ₹8550

CQ10 → methods of cal. cost of inventory → FIFO

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

WNI:- No. of unit consumed

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

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

↳ prodn mein bheja

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

WN2:- NO. of unit produced

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

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

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

* 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

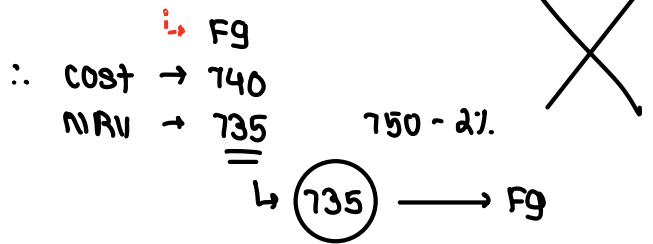
Rm Cl. Stock → $\frac{1100 + 100000}{1100 + 10000}$
 = ₹101/kg

∴ 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

