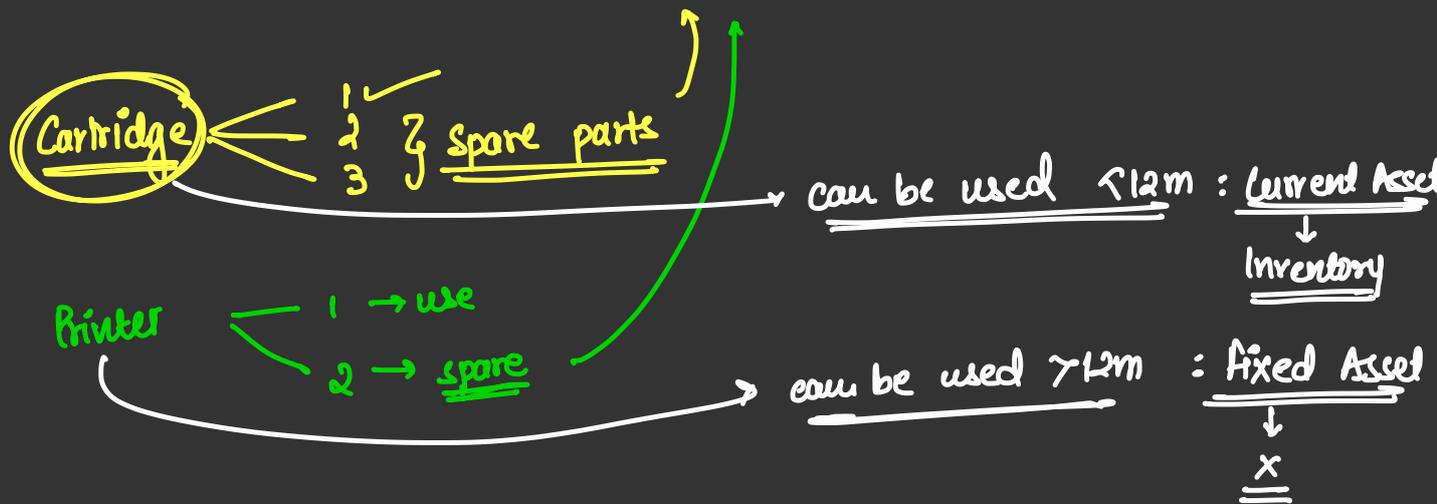
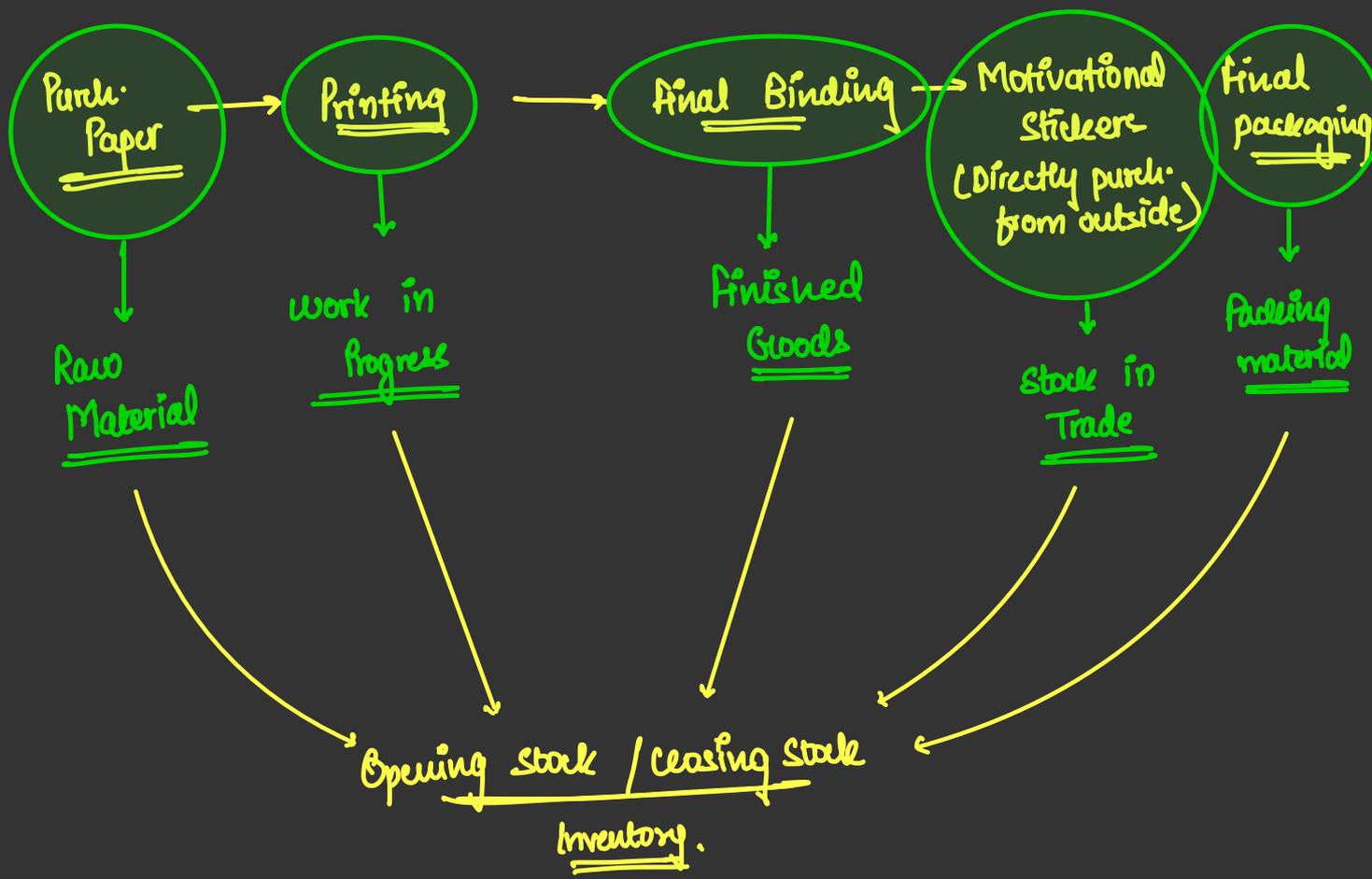
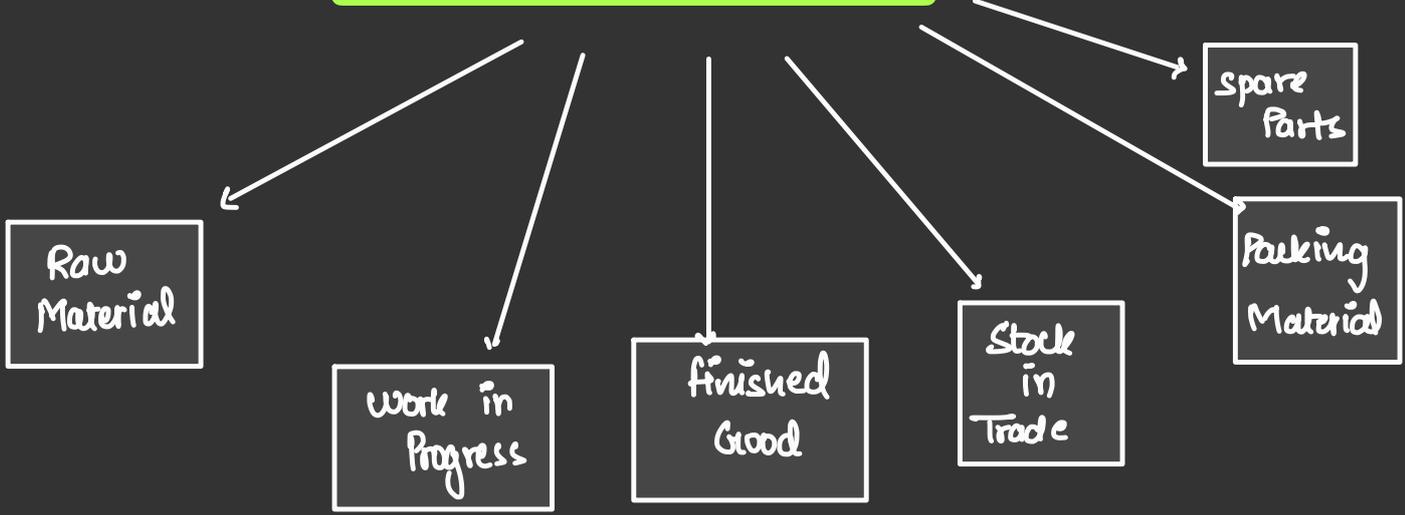


INVENTORIES

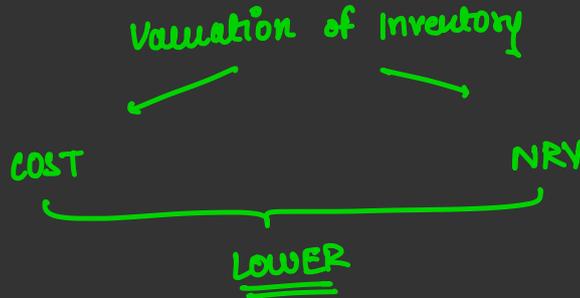
INVENTORIES



VALUATION OF INVENTORY

At the end of every financial year, we need to calculate the value of inventory (i.e. RM, WIP, FG, SIT, Packing Mat., Spares)

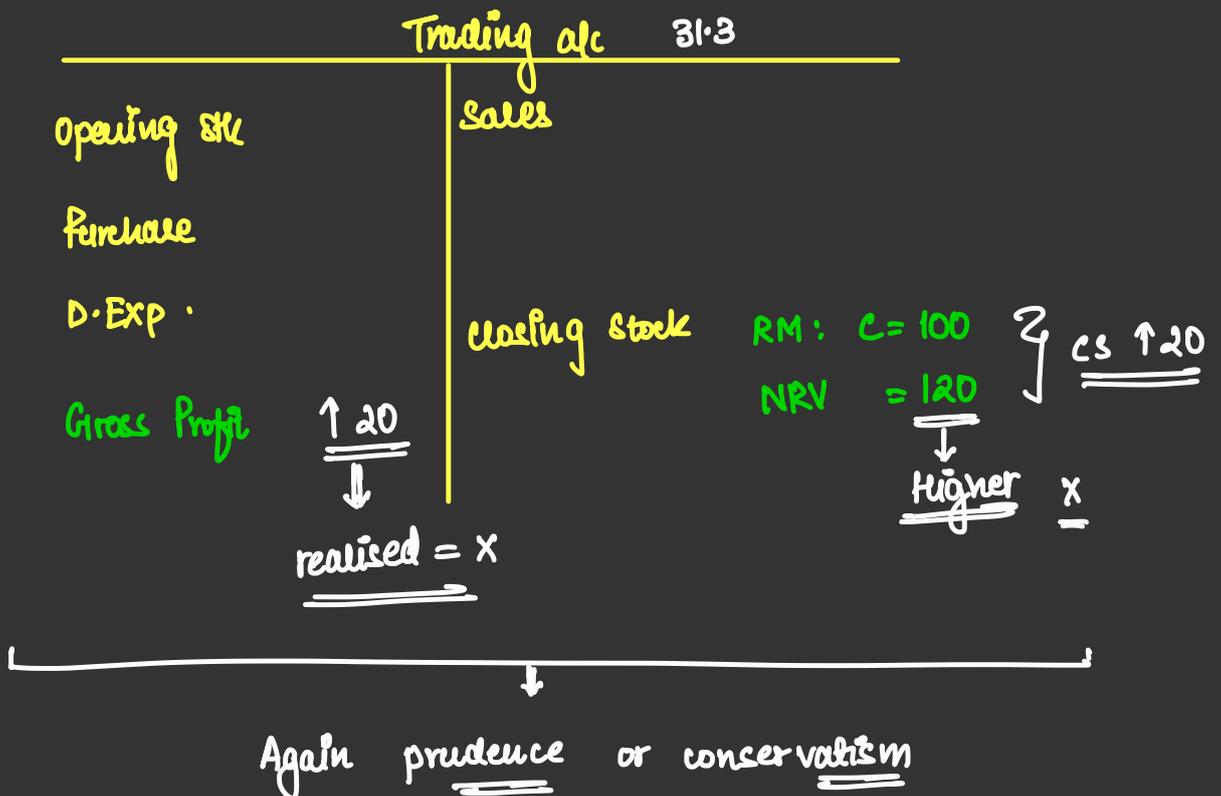
In order to calculate the value of inventory, the following principle needs to be applied :-



Prudence / Conservatism

:- Anticipated losses / expenses should be immediately recognised.

However, anticipated incomes / gain should be recognised only when they're actually realised.



Trading ac 31.3

Opening stock

Purchase

D. Exp.

Gross Profit

↓ 20
LOS recognise

Sales

Closing stock

RM: C = 100

NRV = 80 ✓

↓ LOWER

CS ↓ 20

120

Anticipated losses can be recognised.

Calculation of COST

Inventory

Raw Material

- Ram
- Processor
- Battery
- Camera

Purchase Price

5000/unit

- Trade Discount (1000/unit)
4000/unit

GST

200/unit

(Recoverable Tax - Not included in cost)

+ Custom Duty 200/unit

(Non-recoverable Tax - included in cost)

+ All costs necessary to bring inventory to its present location and condition

+ Normal loss (Abnormal loss is not included)

Work in Progress

Finished Goods

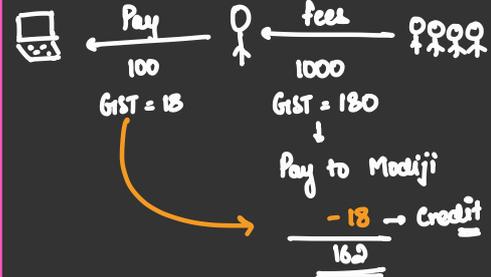
1- Cost of RM
+ Conversion cost
Variable Fixed

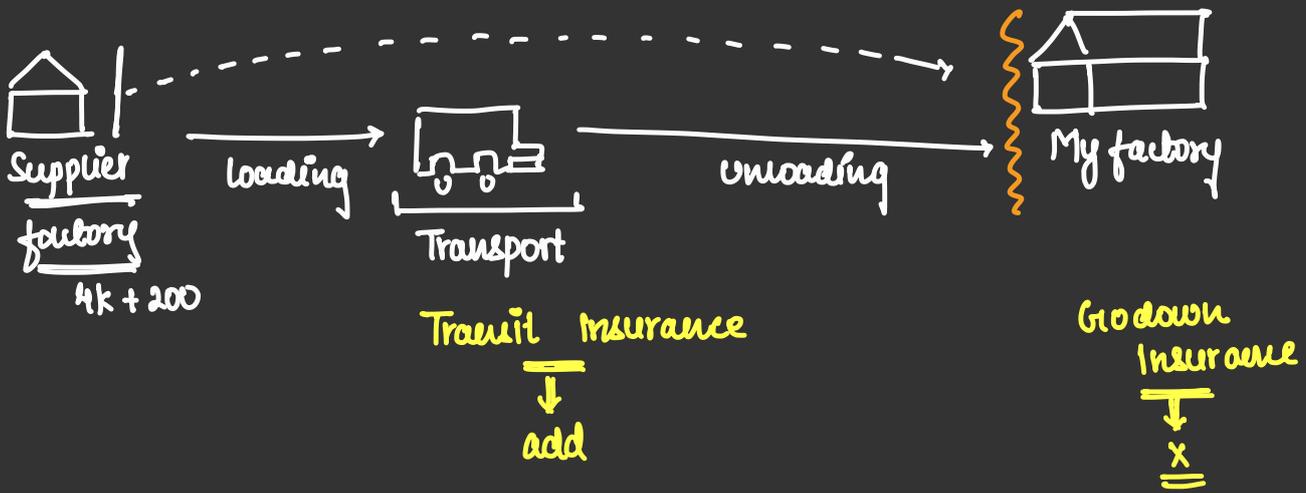
Sale = 50000

S/GST = 2500

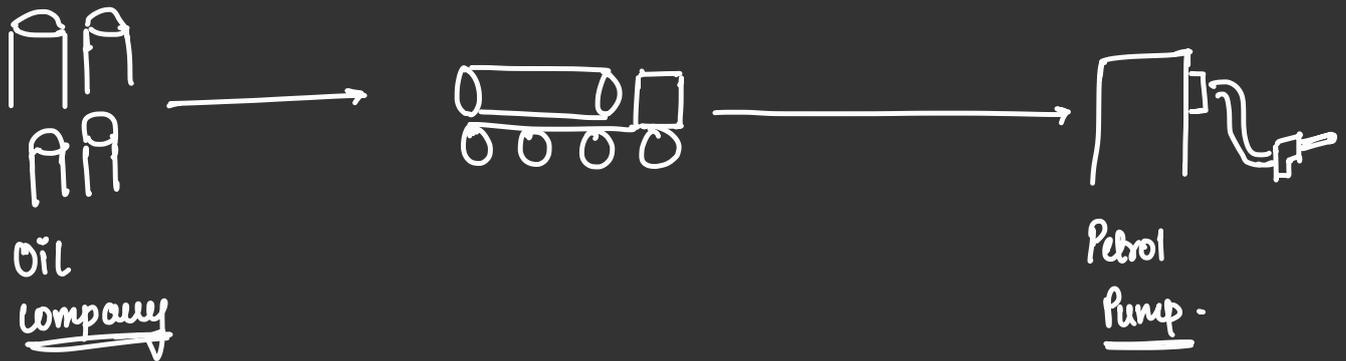
- GST Input Cr. = (200)

Net GST pay = 2300





NORMAL LOSS



1000 l
@ ₹100/litre.
= ₹100,000

50 l
evaporate
↓
Normal loss
50 × 100 = 5000

950 l
= 100,000

Included in cost of inventory.

100,000 / 950
= 105.26 / l.
+ 5
110.26

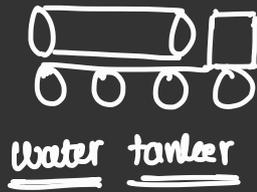
950
× 5.26
4997

ABNORMAL LOSS



Oil Company

1000 l
@ ₹100/litre.
= ₹1,00,000



Water tanker

50 l
evaporate
↓
NORMAL LOSS

200 l
leak
↓
ABNORMAL LOSS

200×105.26
= 21052 → P&L Dr.

(P&L) Abnormal loss Dr. 21052
To Trading a/c 21052

750 l
= 1,00,000
 $1,00,000 / 750$
= 133.33 / l
+ 5
138.33

950 l
1,00,000
= 105.26 / l
+ 5
110.26

Example 1: Mohan Ltd. purchased 100,000 units of Raw Material @ ₹35/unit to produce finished Good - X.

During the production process the normal wastage is 4%. Calculate the effective cost price/unit of RM to be included in finished Good X.

Solution:

RM → Prodn process → Finished Good X

100000 u
@ 35/unit
= 35,00,000

Normal loss
= 4000 units.

Effec. units = 96000u
Total cost = 35,00,000
Eff. Cost/unit = 36.46/u

Example 2 :- Mohan Ltd. purchased 100,000 units of Raw Material @ ₹ 35/unit to produce finished Good - X.

During the production process the normal wastage is 4%. However, Mohan Ltd. incurred total wastage of 5500 units. Calculate the effective cost/unit of RM to be included in the cost of finished Goods.

Solution :-

100,000 units
@ ₹ 35/unit
= 3,500,000

Production Process

Finished Goods

Normal loss = 4%

= 4000u (4000 × 35 = 1,40,000)

Abnormal loss = 1500 units

Effective cost/unit

1. Total Cost = 3,500,000

2. Effec. units = 96,000

3. Cost/unit = 36.46/u.

⇒ P&L Dr. = 1500 × 36.46 = 54,690

Increase = 36.46 - 35

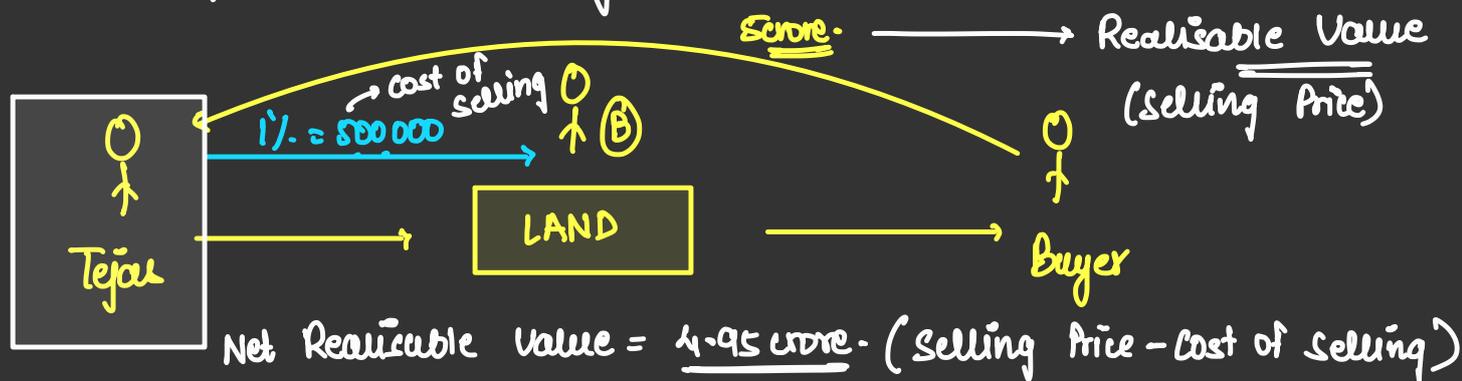
= 1.46/unit

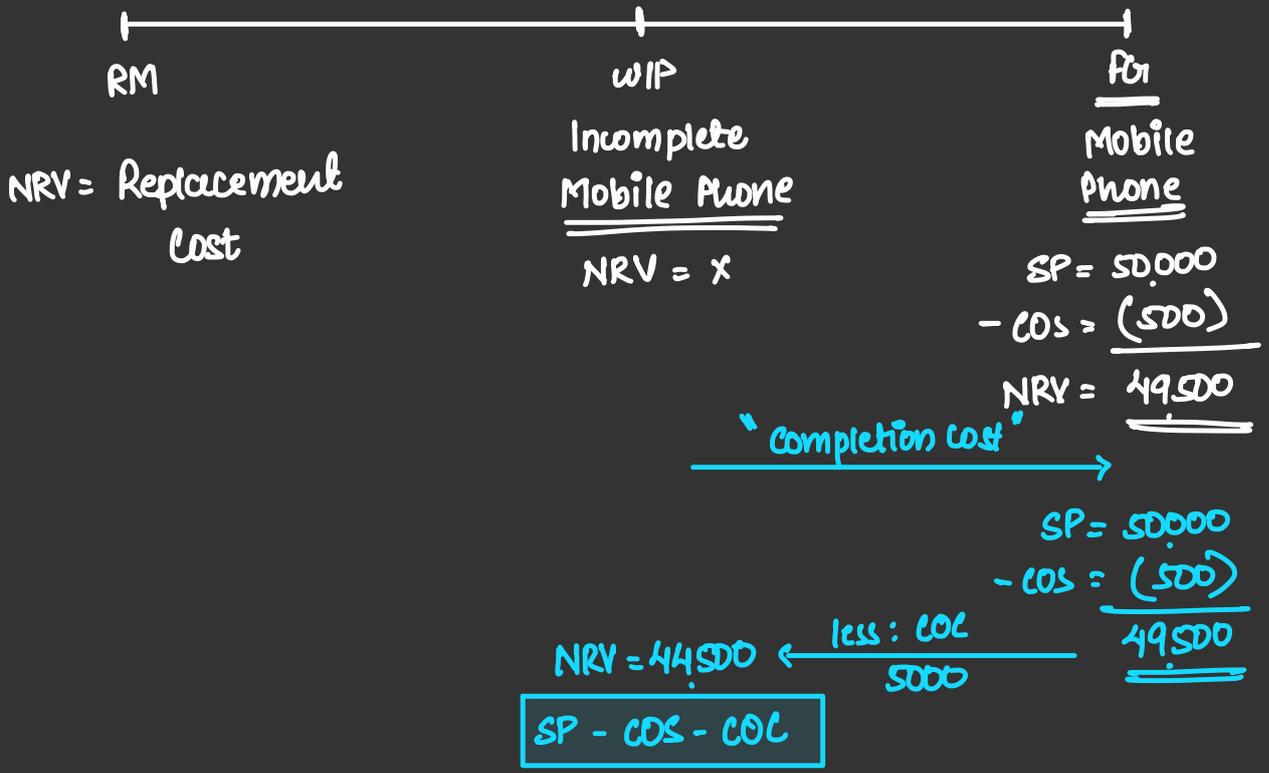
× 96,000

1,40,160

Calculation of NRV

Net Realisable Value = It is the net value that can be realised from disposing the asset. In simple terms, we can understand it as the final amount that will land our pockets on selling an asset.





RM : Replacement cost

WIP : SP - COS - COL } NRV

FG : SP - COS

FORMULA / METHODS FOR DETERMINING COST

- 10/14 RM } → Cost : PP - TD + NRT + All cost PL & PC + NL
25
- 10/17 RM } → Cost : PP - TD + NRT + All cost PL & PC + NL
27
- 10/19 RM } → Cost : PP - TD + NRT + All cost PL & PC + NL
26
- 10/12 RM } → Cost : PP - TD + NRT + All cost PL & PC + NL
26.5
- 10/11 RM } → Cost : PP - TD + NRT + All cost PL & PC + NL
24
- 10/13 RM } → Cost : PP - TD + NRT + All cost PL & PC + NL
25

12 bottles
↓
COST

25 + 27 + 26 + 26.5 + 24 + 27
6

= 255 (Assumed)
x 12

Closing stock

12 RAM remain
used at the year
end.

closing stock of RM

COST

FORMULA / METHOD

Profit

Historical Cost Method (Purch. Price)

Non-Historical Cost-Method (Selling Price)

FIFO

LIFO

Average

SI

Simple

Weighted

1. First In First Out

: Inventory that is purchased earliest will be consumed earliest.

This means inventory that is purchased at last will form part of the closing stock. In order to determine the cost of closing stock, we will consider the inventory that is purchased at last.

2. Last In First Out

Inventory that is purchased last will be consumed earliest.

This means inventory purchased earliest will form part of the closing stock.

In order to determine the cost of closing stock, we will consider the cost of inventory that is purchased earliest.

While calculating closing stock using LIFO method we need on the Date of Issue and the

date of purchase. This is because purchases made after date of issue will not be considered to calculate the stock issued / consumed / sold.

3. Average Price Method :

a. Simple Average : * Under this method the price of closing stock is calculated using the average of all prices / cost incurred while purchasing at different points of time.

$$* (\text{Goods Purchased} - \text{Goods Issued/sold}) \times \text{simple Average Price} = \text{Cost of closing stock.}$$

* This method is used when inventory is of a nature that is not perishable or it is not technological.

* The drawback of this method is that no importance is given to the quantity of inventory purchased at different prices

Weighted Average

50 u	5000 u	10000 u	8000 u	7000 u	← weight (w)
x ₹ 500	x ₹ 190	x ₹ 170	x ₹ 185	x ₹ 182	← cost (u)
=	=	=	=	=	
25000	+ 950000	+ 1700000	+ 1480000	+ 1274000	= 5429000 / 30050
					= <u>180.67</u>

$$\text{Weighted Average} = \frac{w \times u + w \times u + w \times u}{w}$$

$$\text{Simple Average} = \frac{u + u + u + u + u}{5}$$

b. weighted Average

* In this method, the cost of closing stock is calculated using an average that includes both the quantity and price of goods.

* Here, quantity of goods is considered as weights which is then multiplied by the price which is considered as units.

* This method gives a more precise average than simple average method. This is because this method also considers the quantity purchased at each price to arrive at the average price, thus removing the drawback of simple average method which totally ignores the quantity purchased at each price point.

$$\text{Formula :- } \frac{w_1x_1 + w_2x_2 + w_3x_3}{\sum w}$$

4. Specific Identification

FIFO / LIFO / Average



Goods that are interchangeable



mobile phone ⇒ 50000 u

Spec. Identification



Goods that are not interchangeable

← Rafale jets

36

↓

↓ Rafale-M Jets

36

↓

Submarines

↓

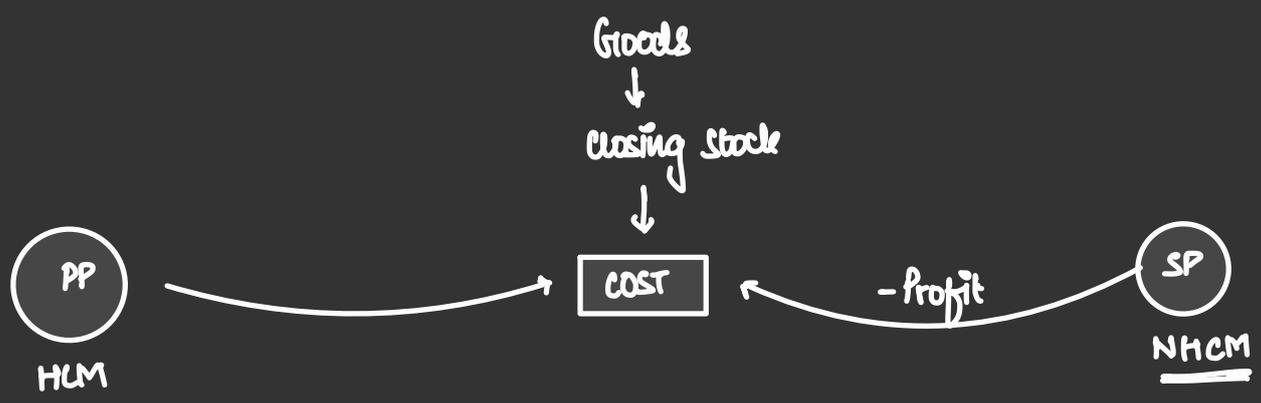
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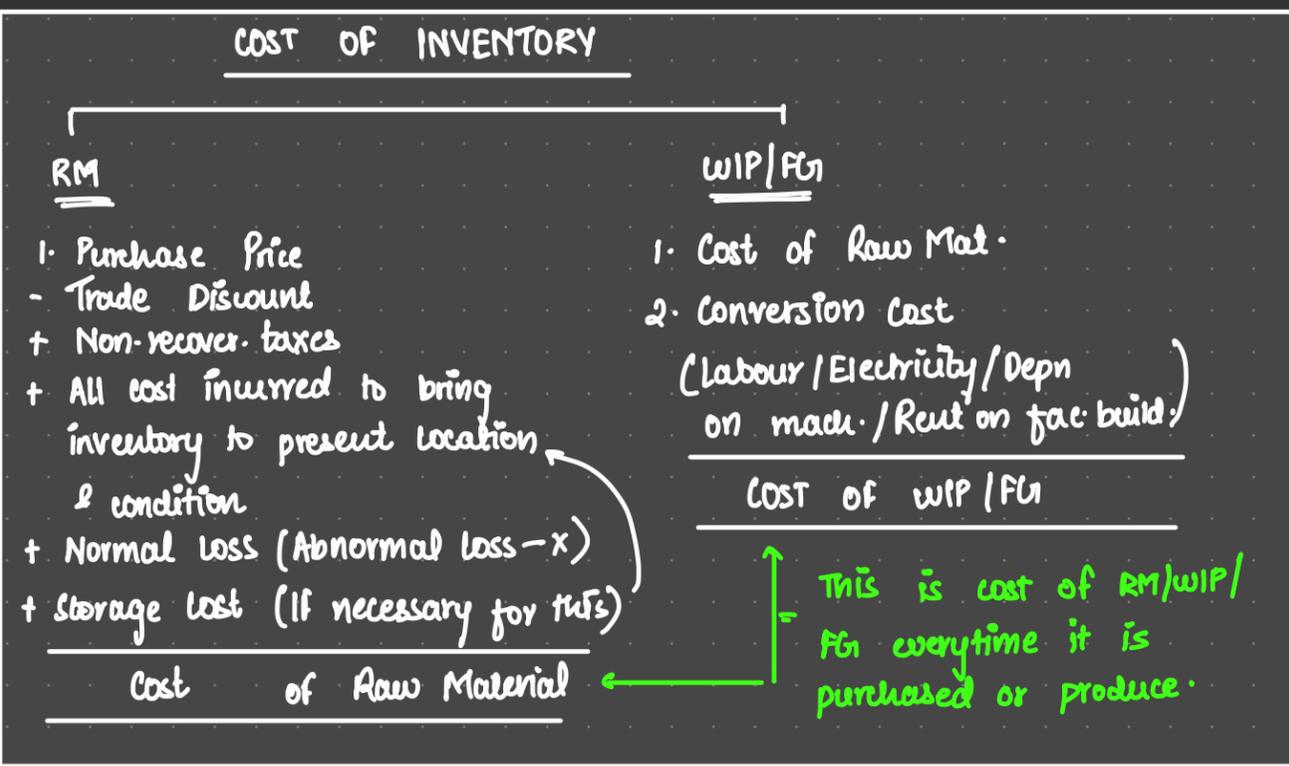
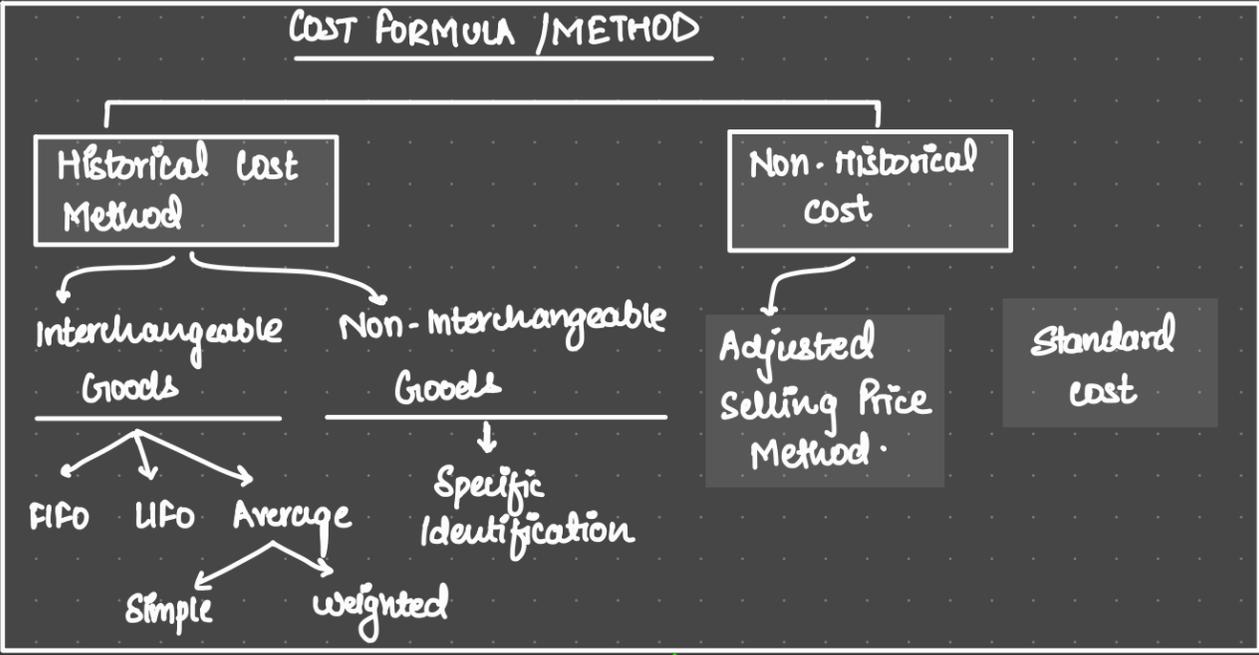
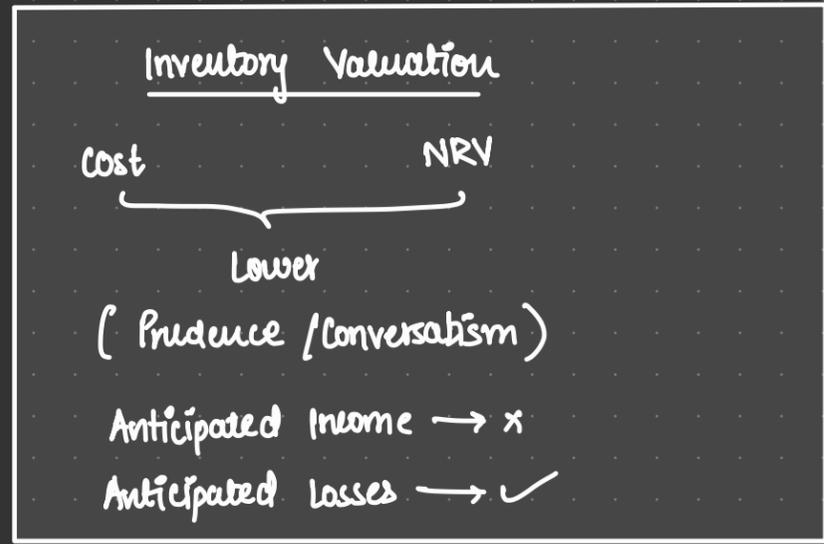
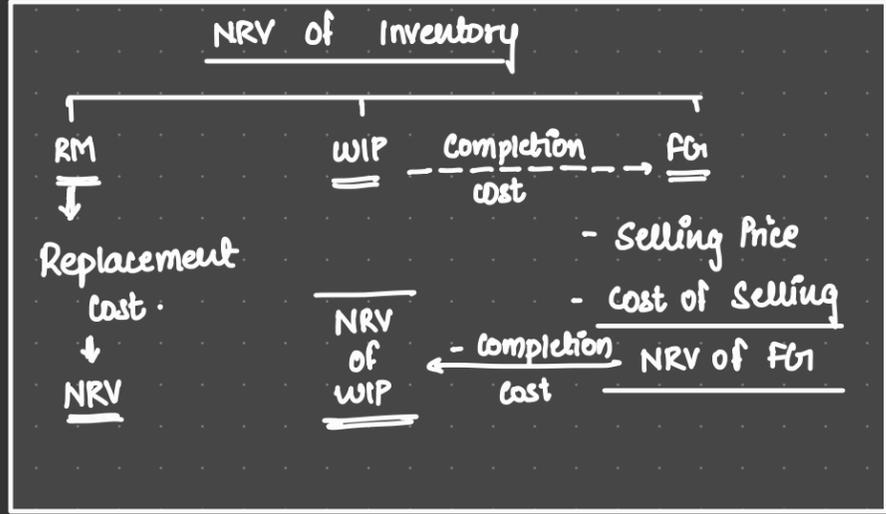
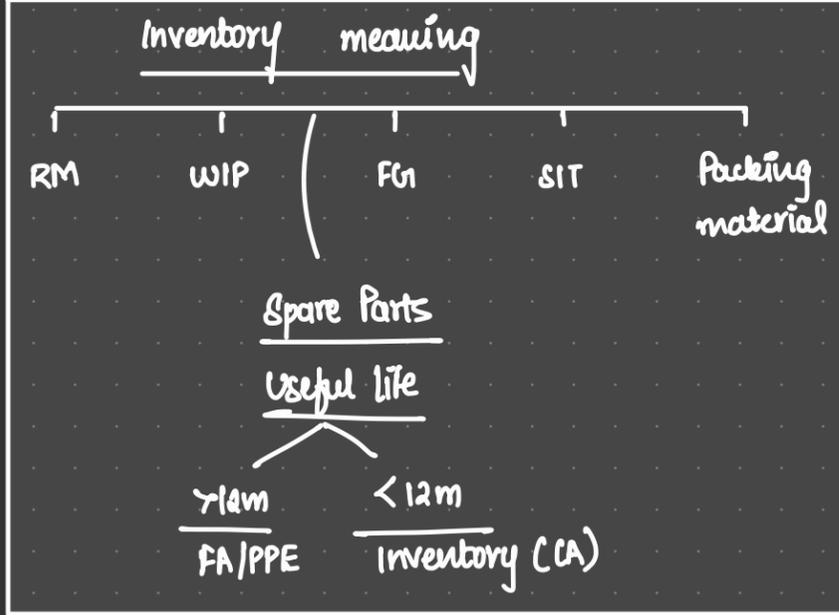
↓

↓ 50 crores/ engine
 ↓ 60 crores/ engine
 ↓ 125 crores/ engine
 ↓
 CS = 20 engines CS = 15 engines CS = 2 engines

- 12th December → Company Accounts : Issue of Share
- 13th December → forfeiture & Reissue of shares
- 14th December → Issue of Debentures

18th December - Pre Exam Marathon





↓

This is used to calculate the cost of goods left in closing stock out of the total goods that are purchased or produced during the year.