Material Cost

- → Material (also, called, raw material) is an imp input factor or factor of production. Raw materials are in their natural state before they are processed or used in production.
- -> They are used in the primary production manufuling of goods and services.
- -> They are input goods or inventory that a company needs for the purpose of manufacturing its products.
- > It is defined as the basic material from which a product is made.
- > It is also known as unprocessed material / primary commodity.

Types: - of Direct by Indirect.

manufacturing process are called, direct snow materials.

Eg wood used for a chair

by Raw materials that one not part of the final product but one used in the production processes one called, indirect naw materials. E.g. Fitting and nails, wood glue etc.,

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Inventory or Stock levels 1-

In order to requisition the stores for replenish ment, the store-kepper should have a complete idea about different inventory level viz, Maximum Level, Minimum Level, Re-order Level, Average Level and Danger Level.

at Maximum Level - represents the apper limit beyond which the quantity of any item is not normally to rise. This is to ensure that the working capital is not blacked in the stores unnecessarily

Maximum = Reorder - Minimum + Re-order Level Level Consuption Quantity

by Minimum Level - Minimum Stock level which is also called, Safety or Buffer, is lower limit below which the stock of any item should not hormally be allowed to fall.

The objective behind this is to see 4.4.

The objective behind this is to see that prod nactivities are not stopped for want of material

Minimum = Reorder - Normal Consup x Average
Level Level per unit of Lead time

time

CE Average level - This is the average of Moix & Min Average = Minimum + Maximum level a

z Minimum + Reordering Quantity

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of Re-order level- The inventory level at which
the order is placed for the purchase of materia
is called the Re-order level.
When the stock of a material greaches this level
the store-keeper initiates action for the purchase
of material.

Re-order = Maximum Maximum

Level Consumption X Lead time

per unit of time:

e> Danger Level - Mormally, stock level should not be allowed to fall below Minimum Level If it falls below the Minimum level, then it indicates that urgent action for replenishment of stock

must be taken to aviod stock-out situation

Danger level = Minimum X Maximum Lead
Gonsumption time for emergency
per unit of time purchase.

Inventory Control Techniques.

Inventory Control: - The process of ensuring the suight amount of supply is available in an organization.

Inventory levels Pronomic Order Quantity Stock Periodic S.V. Perpetual Inventory Inventory System Turnover Robin ABC Method VED Analysis many be Economic Order Quantity is the ideal quantity of units a company should purchase to meet demand while minimizing inventory cost such as holding costs, shortage costs, and order costs - Ordering Cost Carrying Cost of Stock Verification - Verification in the form of either counting, measurement or weighment of materials and supplies held in the stores department and its comparison with the stores records are necessary for the purpose of detecting discrepancies. - Periodic 8.V - Under this method, stock checking or verification is done periodically say, quarterly, half-yearly or yearly or combination

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	-Perpet	ual or	Contin	s suous	3. W - U	nder th	iis system,	
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level, be codes awardity etc.

Stores Ledger Receipts Issues Aty Rate Value Oty Rate Value Oty Rate Value Difference blu Bin Card and Store keeping. Bin Card Store keeping It is maintained by the It is maintained by Cost store keeper a c Department It is attached to bin It is It is kept in the cost maintained the inside the office and it is maitained store outside the store Every transaction is entered It transaction summarized in the bin card separately, and entered in the store ledger periodically. The record of materials is The record of materials made in quantity only. is made both in quantity and values. Entries in bin cand one made Entries one made after and when the transaction the transaction take Olcur place. de Inventory Turnover Ratio - Also called as Stock Turnover Ratio / Stock velocity, it established the relationship blw i)

1) the cost of raw materials consumed during a given period.

ii) the average costs of opening and closing stocks of raw materials.

Inventory = Cost of raw materials consumed during yr Turnover Ratio Average of stock of RM.

e/ ABC system. - classifies inventory items into 3 categories based on their value and importance to business: A CHigh value items)

B (medium-value items)

C Clow-value items)

1) MED analysis - deals with the classification of materials based on their importance to other materials.

Methods of Pricing Moterial Issues

af FIFO - is based on assumption that the units which one acquired first one issed (to the prod' departments) first. Hence, the materials issued are priced in chronological order of the purchases & at their cost prices.

blo LIFO - Under this method, the price of the last batch purchased and received in store is used for all issues until all units from that batch one issued

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C. Simple Average Price method - CIMA, London

defines it as "a price which is calculated by dividing the total of the prices of the materials in the stock from which the moterial to be priced could be drawn by the number of prices used in the total" of Weighted Average Price Method - CIMA, London defines it. This method considers both the cost of materials and the number of units of material. It is computed by dividing the total cost of material by the total no. of units of material in stack