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### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 3 CHAPTER 1 - MATERIALS COST

- 1. **Re-order quantity (ROQ):** order size repeated by any business organisation,
- **2. Ordering cost:** 'cost associated with placement of orders'

$$= \frac{A}{ROQ} \times O$$

A = annual requirement of raw material to be purchased

0 = cost per order

**3.** *Carrying cost:* cost associated with holding of average raw material stock.

$$= \frac{1}{2} \times ROQ \times C$$

C = cost per unit per annum

**4. Economic order quantity (EOQ):** order size at which total of ordering and carrying cost will be lowest'



**EOQ** =  $\sqrt{\frac{2AC}{C}}$ 

5. Re order level/ ordering level/ re order point:

Alternative 1 'when there is no safety/minimum stock'

ROL = Maximum usage during maximum delivery period

Alternative 2 'when there is safety/minimum stock'

ROL = Average usage during average delivery period + Minimum stock/Safety stock

6. Maximum stock level:

Maximum level = Re-order level + Re-order quantity – Minimum usage during minimum period

7. Minimum stock level:

Minimum level = ROL – normal usage during average period

8. Average stock level:

Alternative 1 = ½ (Minimum stock level + Maximum stock level)

Alternative 2 =  $\frac{1}{2}$  of ROQ + Minimum stock level

#### 9. Danger stock level:

Danger level = Normal consumption during emergency lead time (preferred)

0r

= Minimum consumption during emergency lead time

#### 10. ABC analysis:

|   | % Value | % Quantity | Control |
|---|---------|------------|---------|
| Α | 70%     | 10%        | high    |
| В | 20%     | 20%        | medium  |
| С | 10%     | 70%        | low     |

#### 11. Issue pricing of material:

Statement Showing Cost Per Unit

| Particulars -  | ₹     |
|--|-------|
| Purchase price   | XXX   |
| Less: Trade or Quantity discount (× Cash discount)               | (XXX) |
| Less: Subsidy/grant/incentives from government                   | (XXX) |
| Add: Road tax/toll tax   | XXX   |
| Add: IGST/CGST/GST/Custom duty (when ITC is not available)       | XXX   |
| Add: Insurance   | XXX   |
| Add: Commission/brokerage on purchase                            | XXX   |
| Add: Freight inward  | XXX   |
| Add: Net cost of containers or packing material                  | XXX   |
| (when not returnable or returnable at low value)                 |       |
| Total cost   | XXX   |
| ÷ Number of effective units                                      | XXX   |
| (total units – normal shortage – provision for further Shortage) |       |
| Cost per unit  | XXX   |

Note: Cash discount, Indirect tax if ITC is available and demurrage/ detention charges/ penalty etc. do not form part of cost.

#### 12. Normal loss/standard loss/unavoidable loss:

- Average/ standard loss of concern industry,
- > Customer will suffer this loss due to increase in cost.

| Particulars Particulars | Quantity | Rate  | Value |
|-------------------------|----------|-------|-------|
| Purchase                | 100      | 10.00 | 1,000 |
| Less: Normal loss       | (10)     | -     | -     |
| Total Cost              | 90       | 11.11 | 1,000 |

#### 13. Abnormal loss:

- > Loss over and above normal loss
- ➤ Businessmen will suffer this loss by debiting it in Costing P/L
- ➤ No impact on cost per unit

| Particulars Particulars Particulars | Quantity | Rate  | Value |
|-------------------------------------|----------|-------|-------|
| Purchase                            | 100      | 10.00 | 1,000 |
| Less: Abnormal loss                 | (10)     | 10.00 | (100) |
| Total Cost                          | 90       | 10.00 | 900   |

#### 14. Inventory turnover ratio:

**15.** *Inventory turnover in days:* 365 ÷ ITR

#### 16. Stores ledger:

| Date | R                   | Receipts |       | Is                 | sues | Balance |          |      |       |
|------|---------------------|----------|-------|--------------------|------|---------|----------|------|-------|
|      | Quantity            | Rate     | Value | Quantity           | Rate | Value   | Quantity | Rate | Value |
|      |                     |          |       |                    |      |         |          |      |       |
|      |                     |          |       | Return to supplier |      |         |          |      |       |
|      | Return<br>To stores |          |       |                    |      |         |          |      |       |
|      |                     |          |       | Shortage           |      |         |          |      |       |

#### Note:

- Transferred between two job or departments: No treatment in stores ledger
- Return to supplier: Issue side at the rate it received from supplier
- Return to stores: Receipt side at the rate of issue/recent issue
- Abnormal shortage: Issue side as per the method (transfer to Costing P/L)
- Normal shortage: Issue side only in quantity column
- Material consumed: Total value of issued material material return to stores abnormal shortage return to supplier

### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 6 CHAPTER 2 - EMPLOYEE COST OR LABOUR COST

1. Wages under straight piece rate system = Number of units produced × piece rate

**2.** Wages under straight time rate system = Working hours × time rate per hour

3. Wages under Halsey system =  $AH \times R + 50\% (SH - AH) \times R$ 

AH = Actual hours worked for actual production
SH = Standard time allotted for actual production

SH – AH = Time saved by the worker

R = Time rate

4. Wages under Rowan system =  $AH \times R + AH/SH (SH - AH) \times R$ 

**5.** Effective rate = Wages ÷ AH

6. Labour turnover rates:

Separation method =  $\frac{\text{Number of separations}}{\text{Average workers}} \times 100$ 

Replacement method =  $\frac{\text{Number of replacements}}{\text{Average workers}} \times 100$ 

New accession method =  $\frac{\text{Number of new joinings}}{\text{Average workers}} \times 100$ 

Accession method =  $\frac{\text{Number of total joinings}}{\text{Average workers}} \times 100$ 

Flux method (alt 1) =  $\frac{\text{No. of separations} + replacements}{\text{Average workers}} \times 100$ 

Flux method (alt 2) =  $\frac{\text{No. of separations} + accessions}{\text{Average workers}} \times 100$ 

Average workers =  $\frac{\text{Opening workers} + \text{Closing workers}}{2}$ 

7. Equivalent turnover rate =  $\frac{\text{Employee turnover rate for the period}}{\text{Number of days in a period}} \times 365$ 

8. Statement Showing Profit Foregone on Account of Labour Turnover

| Particulars Particulars  | Amount |
|--|--------|
| Contribution foregone due to delay in filling the vacancies                            | XXX    |
| Contribution foregone due to unproductive training hours (if these hours are excluded) | XXX    |
| Settlement cost due to leaving   | XXX    |
| Recruitment costs  | XXX    |
| Selection costs  | XXX    |
| Training costs   | XXX    |
| Profit Foregone  | XXX    |

9. *Idle time:* Worker in factory without work but eligible for wages

Normal idle time: It is the time which cannot be avoided or reduced in the normal course of business

#### Causes

> The time lost between factory gate and the place of work,

- The interval between one job and another,
- The setting up time for the machine,
- Normal rest time (fatigue), break for lunch etc.

#### Treatment

- > Increase labour rate
- Charged to production overheads

Abnormal idle time: Apart from normal idle time, there may be factors which give rise to abnormal idle time

#### Causes

- ➤ Idle time may also arise due to abnormal factors like lack of coordination
- > Power failure, breakdown of machines
- Non-availability of raw materials, strikes, lockouts, poor supervision, fire, flood etc.

#### Treatment

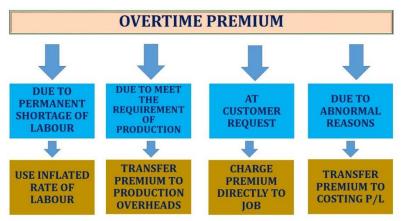
Transfer to costing P/L

#### 10. Overtime: Working over and above normal working hours

Overtime payment = Payment as per normal rate + Overtime premium

Overtime premium Payment in excess of normal wage rate (generally double)

#### Treatment of overtime premium:



#### 11. Statement Showing Gross and Net Wages:

| Particulars Particulars                 | Amount |
|---|--------|
| Basic Wages                             | XXX    |
| Dearness Allowance                      | XXX    |
| Basic plus D.A.                         | XXX    |
| Bonus                                   | XXX    |
| Various Allowances                      | XXX    |
| Other Cash Payments                     | XXX    |
| Gross Wages Payable                     | XXX    |
| Less: Employee's contribution to P.F.   | XXX    |
| Less: Employee's contribution to E.S.I. | XXX    |
| Less: T.D.S.                            | XXX    |
| Less: Professional Tax                  | XXX    |
| Less: Loan Deduction                    | XXX    |
| Less: Any other Deduction               | XXX    |
| Net Waaes Pavable                       | XXX    |

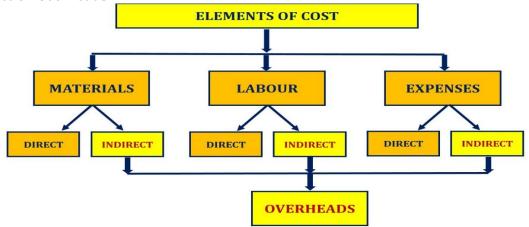
### 12. Statement Showing Labour Cost Per Hour:

| Particulars Particulars                                | Amount |
|--|--------|
| Basic Wages  | XXX    |
| Dearness Allowance                                     | XXX    |
| Basic plus D.A.  | XXX    |
| Bonus  | XXX    |
| Various Allowances                                     | XXX    |
| Other Cash Payments                                    | XXX    |
| Perquisites  | XXX    |
|  | XXX    |
| Add: Employer's contribution to P.F.                   | XXX    |
| Add: Employer's contribution to E.S.I.                 | XXX    |
| Labour Cost  | XXX    |
| ÷ Effective Labour Hours                               | ÷XXX   |
| (Working Hours – Eligible Holidays – Normal Idle Time) |        |
| Labour Cost Per Hour                                   | XXX    |

*Note:* If nothing is specified in the question, contribution of employer towards P.F. and E.S.I. equals to employee contribution

### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 9 CHAPTER 3 - OVERHEADS

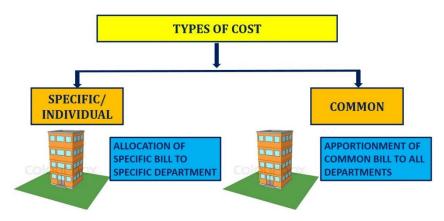
#### 1. Production Overheads:



#### 2. Types of Departments:

- Main/production departments: Product is produced in these departments
- > Support/service departments: Product is not produced in these departments but these departments help to main departments

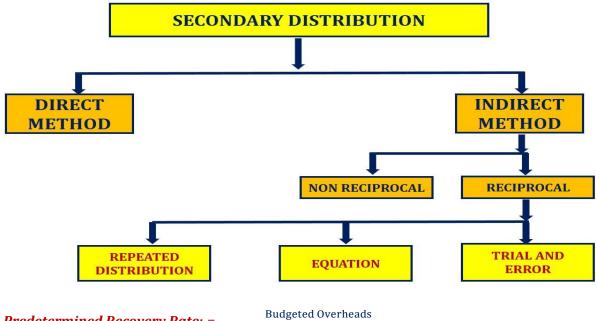
#### 3. Types of Cost:



#### 4. Statement Showing Primary Distribution:

| Dauticulaus         | Basis | Product | Production dept. |            | Service dept. |  |
|---------------------|-------|---------|------------------|------------|---------------|--|
| Particulars         | Busis | P1      | P2               | <i>S</i> 1 | S2            |  |
| Allocation:         |       | No      | No               | Yes        | Yes           |  |
| Direct material     |       | No      | No               | Yes        | Yes           |  |
| Direct labour       |       | No      | No               | Yes        | Yes           |  |
| Direct expenses     |       | Yes     | Yes              | Yes        | Yes           |  |
| Indirect material   |       | Yes     | Yes              | Yes        | Yes           |  |
| Indirect labour     |       | Yes     | Yes              | Yes        | Yes           |  |
| Indirect expenses   |       | Yes     | Yes              | Yes        | Yes           |  |
| Other specific cost |       | Yes     | Yes              | Yes        | Yes           |  |
| Apportionment:      |       |         |                  |            |               |  |
| Rent                | Area  | Yes     | Yes              | Yes        | Yes           |  |
| Insurance etc.      | Value | Yes     | Yes              | Yes        | Yes           |  |
| Total OH            |       | XXX     | XXX              | XXX        | XXX           |  |

5. Secondary Distribution:



- 6. Predetermined Recovery Rate: = Budgeted Overheads
  Budgeted Recovery Base
- Overheads recovery rate is also known as overheads charging rate, overheads application rate and overheads absorption rate'
- 7. **Under or Over Recovery:** Difference between recovered overheads and actual overheads

#### Situations:

- 1. Recovered OH > Actual OH
- 2. Recovered OH < Actual OH
- 3. Recovered OH = Actual OH

Over Recovery Under Recovery Equal Recovery

8. Treatment of Under Recovery:



- 9. Types of Recovery Rate:
  - ➤ Normal rate/actual rate

> Departmental OH rate = OH of Concern Department
Base of Concern Department

► Blanket OH rate = Total Overheads of Factory

Recovery Base for Factory

#### 10. Blanket OH Rate:

- ▶ Blanket overhead rate refers to the computation of one single overhead rate for the whole factory.
- The use of blanket rate may be proper in certain factories producing only one major product in a continuous process or where the work performed in every department is fairly uniform or standardised.

#### 11. Statement Machine Hour Rate (MHR):

|     | Particulars Particulars    | Amount |
|-----|----------------------------|--------|
| (A) | Standing charges:          |        |
|     | Rent                       | XXX    |
|     | Heat and light             | XXX    |
|     | Forman's salary            | XXX    |
|     | Depreciation               | XXX    |
|     | Wages                      | XXX    |
|     | Bonus                      | XXX    |
|     | Other fixed cost           | XXX    |
|     | Total Standing Charges (A) | XXX    |
| (B) | Running expenses:          |        |
|     | Repairs and maintenance    | XXX    |
|     | Consumable stores          | XXX    |
|     | Power                      | XXX    |
|     | Other variable cost        | XXX    |
|     | Total Running Expenses (B) | XXX    |
|     | Total Expenses(A+B)        | XXX    |
|     | ÷ Effective Machine Hours  | ÷ XX   |
|     | Machine Hour Rate (MHR)    | XXX    |

#### Machine Hours includes:

1. Running hours Always productive/effective

2. Set up hours As per question or assumption

3. Maintenance hours Always unproductive

# COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 12 CHAPTER 4 - COST SHEET AND UNIT COSTING

**1. Cost Sheet:** A cost sheet or cost statement is a document which provides a detailed cost information (functional classification).

### 2. Proforma Cost Sheet:

| Particulars Particulars  | Total Cost |
|--|------------|
| Direct Material Consumed:  |            |
| Raw Materials Purchased  |            |
| Add: Opening stock of Raw Materials  |            |
| Less: Closing stock of Raw Materials   |            |
| Add: Carriage Inward   |            |
| Less: Recovery From Sale of Scrap of Raw Materials   |            |
| Less: Cost of Abnormal Loss of Raw Materials   |            |
| Direct Wages or Labour or Employee Cost:   |            |
| Wages and salaries   |            |
| Allowance and incentives   |            |
| Payment for overtime   |            |
| Bonus  |            |
| Employer's contribution in P.F, E.S.I. etc.  |            |
| Other benefits   |            |
| Direct Expenses:   |            |
| Cost of utilities such as power & fuel, steam etc.   |            |
| Royalty paid/ payable for production or provision of service                                     |            |
| Hire charges paid for hiring specific equipment  |            |
| Fee for technical assistance and know-how  |            |
| Amortised cost of moulds, patterns, patents etc.   |            |
| Cost for product/ service specific design or drawing;  |            |
| Cost of product/ service specific software   |            |
| Prime Cost   | XXX        |
| Factory/Works/Production/Manufacturing Overheads:  |            |
| Consumable stores and spares   |            |
| Depreciation of plant and machinery, factory building etc.                                       |            |
| Lease rent of production assets  |            |
| Repair and maintenance of plant and machinery, factory building etc.                             |            |
| Indirect employees cost related with production activities                                       |            |
| Drawing and Designing department cost  |            |
| Insurance of plant and machinery, factory building, stock of raw material & WIP                  |            |
| etc.   |            |
| Amortized cost of jigs, fixtures, tooling etc.   |            |
| Service department cost such as Tool Room, Engineering & Maintenance, and Pollution Control etc. |            |
| Gross Works Cost/Factory Cost  | XXX        |
| Add: Opening WIP   | 7444       |
| Less: Closing WIP  |            |
| Works/Factory Cost   | XXX        |
| Add: Quality Control Cost  |            |
| Add: Research and Development Cost   |            |
| Add: Administrative Overheads (relating to production activity)                                  |            |

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|---|----------------|
| Less: Credit for recoveries/Scrap/By-Products   |                |
| Add: Packing Cost (Primary)   |                |
| Cost of Production  | XXX            |
| Add: Opening Finished Goods   |                |
| Less: Closing Finished Goods  |                |
| Cost of Goods Sold  | XXX            |
| Add: Administrative OH (General/not related to production):   |                |
| Depreciation and maintenance of, building, furniture etc. of corporate or general   |                |
| management.   |                |
| Salary of administrative employees, accountants, directors, secretaries etc.  |                |
| Rent, rates & taxes, insurance, lighting, office expenses etc.  |                |
| Indirect materials- printing and stationery, office supplies etc.   |                |
| Legal charges, audit fees, corporate office expenses like directors' sitting fees, remuneration and commission, meeting expenses etc. |                |
| Add: Selling Overheads:   |                |
| Salary and wages related with sales department and employees directly related   |                |
| with selling of goods.  Rent, depreciation, maintenance and other cost related with sales department.                                 |                |
| Cost of advertisement, maintenance of website for online sales, market research   |                |
| etc.  |                |
| Add: Distribution Overheads:  |                |
| Salary and wages of employees engaged in distribution of goods.   |                |
| Transportation and insurance costs related with distribution.   |                |
| Depreciation, hire charges, maintenance and other operating costs related with distribution vehicles etc.                             |                |
| Add: Packing Cost (Secondary)   |                |
| Add: Interest and finance charges paid (on non-equity funds)  |                |
| Cost of Sales   | XXX            |
| Add: Profit   | XXX            |
| Sales   | XXX            |

# COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 14 CHAPTER 5 - JOB AND BATCH COSTING

#### 1. Job Costing:

- In this method costs are collected and accumulated for specific jobs/work order
- Each job is treated as a separate entity for the purpose of costing
- This method is used to ascertain cost and profit of each job and takes into account the cost of materials, employees and overhead etc.

#### 2. Batch Costing:

- Batch costing is a type of specific order costing where articles are manufactured in predetermined lots, known as batch
- ➤ This method is used to ascertain cost and profit of specific batch or units in specific batch

#### 3. Economic Batch Quantity (EBQ):

$$EBQ = \sqrt{\frac{2DS}{C}}$$
 Where, 
$$D = Annual demand for the product$$
 
$$S = Setting up cost per batch$$
 
$$C = Carrying cost per unit of production$$

# COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 15 CHAPTER 6 - CONTRACT COSTING

#### 1. Normal Contract Account:

### Proforma Contract A/C

| Particulars Particulars Particulars | •   | <b>Particulars</b>        | `             |
|-------------------------------------|-----|---------------------------|---------------|
| To Material:                        |     | By Work-in-progress:      |               |
| Opening stock                       | XXX | Work certified            | On Sale Value |
| Purchased                           | XXX | Work uncertified          | On Cost       |
| Received from stores                | XXX |                           |               |
| Transfer from other site            | XXX | By Material:              |               |
| To Wages                            | XXX | Closing stock             | XXX           |
| To Depreciation on plant            | XXX | Cost of material sold     | XXX           |
| To Other expenses                   | XXX | Cost of material lost     | XXX           |
| To Administrative OH                | XXX | By Escalation claim (cr.) | XXX           |
| To Establishment charges            | XXX |                           |               |
| To Sub contactor                    | XXX |                           |               |
| To Chargeable expenses              | XXX |                           |               |
|                                     |     |                           |               |
| To Notional Profit                  | XXX |                           |               |
|                                     | XXX |                           | XXX           |

- ➤ Don't show loss of plant in contract account (loss of plant is transferred to costing p/l), just calculate depreciation on plant actually used.
- Actual sale value of material is irrelevant, cost of material sold is relevant.
- ▶ Profit or loss on sale of plant and material is transferred to costing P/L and not in contract A/C.
- Penalty and incentives are directly transferred to costing P/L.

#### 2. Value of WIP in Balance Sheet:

| Assets side                      | Amount |
|----------------------------------|--------|
| Work-in-progress:                |        |
| Work certified                   | XXX    |
| Work uncertified                 | XXX    |
| Less: Cash recd. From contractee | (XXX)  |
| Value of WIP in Balance Sheet    | XXX    |

#### 3. Balance Sheet (relevant extracts):

| Liabilities       | Amount | Assets                           | Amount |
|-------------------|--------|----------------------------------|--------|
| Capital           | XXX    | Plant                            |        |
| Net profit        | XXX    | Less: Depreciation               | XXX    |
| Outstanding wages | XXX    | Building                         |        |
| Creditors         | XXX    | Less: Depreciation               | XXX    |
| Other liabilities | XXX    |                                  |        |
|                   |        | Materials at site                | XXX    |
|                   |        | Prepaid expenses                 | XXX    |
|                   |        | Other assets                     | XXX    |
|                   |        | Work-in-progress:                |        |
|                   |        | Work certified                   |        |
|                   |        | Work uncertified                 |        |
|                   |        | Less: Cash recd. From contractee | XXX    |
|                   | -      |                                  | -      |

#### 4. Contractee A/C:

| <b>Particulars</b> | Amount | Particulars                | Amount |
|--------------------|--------|----------------------------|--------|
| Year 1             |        |                            |        |
| To balance c/d     | XXX    | By bank                    | XXX    |
|                    | XXX    |                            | XXX    |
| Year 2             |        |                            |        |
| To balance c/d     | XXX    | By balance b/d             | XXX    |
|                    |        | By bank                    | XXX    |
|                    | XXX    |                            | XXX    |
| Last year          |        |                            |        |
| To Contract a/c    | XXX    | By balance b/d             | XXX    |
|                    |        | By Bank (Final Settlement) | XXX    |
|                    | XXX    |                            | XXX    |

- **5. Estimated Profit** = Contract Price Cost to date Further Estimated Cost (Including provision if any)
- **Escalation Claim:** Claim to compensate increase in price of standard quantity of raw materials and increase in wage rate of standard labour hours'
  - Claim is only for standard quantity of material and labour hours

Escalation Claim = SQ of Materials (AP - SP) + SH of Labour (AR - SR)

- 7. *More than one year:* Closing balance of current period = Opening balance of next period
- **8. Retention money:** contractee doesn't pay full amount of work certified to contractor. Small portion is retained by contractee and such portion is known as retention money. At the time of completion of contract contractee has to pay full amount to contactor

# COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 17 CHAPTER 7 - OPERATING COSTING OR SERVICE COSTING

**1. Operating costing:** This method is used to calculate cost and determine price of one service unit.

#### 2. In CA intermediate ICAI covers following services:

- > Transport service
- ➤ Hotel and lodges service
- Restaurant service
- ➤ Hospital service
- > Educational institute
- Information technology (it) and it enabled services (ites)
- > Toll plaza
- Financial institutes
- Insurance and
- Power generation service.

#### 3. Transport Service:

#### Proforma Operating Cost Sheet for Transport Service

|     | Particulars Particulars                                   | Amount |
|-----|---|--------|
| (A) | Standing Charges or Fixed Cost:                           |        |
|     | Depreciation (life related to period, like: 5 years)      | XXX    |
|     | Insurance   | XXX    |
|     | License   | XXX    |
|     | Salary of manager, driver, conductor etc.                 | XXX    |
|     | Road tax  | XXX    |
|     | Permit fee  | XXX    |
|     | Garage rent   | XXX    |
|     | Any other fixed cost                                      | XXX    |
|     | Total (A)   | XXX    |
| (B) | Running Charges or Variable Cost:                         |        |
|     | Diesel/petrol   | XXX    |
|     | Lubricants, oil etc.                                      | XXX    |
|     | Depreciation (life related to activity, like: 50,000 kms) | XXX    |
|     | Commission  | XXX    |
|     | Any other variable cost                                   | XXX    |
|     | Total (B)   | XXX    |
| (C) | Maintenance Charges or Semi Variable Cost:                |        |
| (e) | Repairs and maintenance                                   | XXX    |
|     | Tyres   | XXX    |
|     | Spares etc.   | XXX    |
|     | Total (C)   | XXX    |
|     |   | AAA    |
|     | Total Operating Cost (A + B + C)                          | XXX    |
|     | Add: profit   | XXX    |
|     | Net Collections or Taking                                 | XXX    |
|     | Add: Indirect taxes (Passenger tax, GST etc.)             | XXX    |
|     |   | 11111  |
|     | Gross Collections or Taking                               | XXX    |
|     | ÷ Total passenger-kms or ton-kms                          | XXX    |
|     |   | MM     |
|     | Fare/Charges for Per Passenger-Km or Ton-Kms              | XXX    |

4. Absolute tonne kms =  $D1 \times W1 + D2 \times W2 + D3 \times W3...$ 

*5. Commercial tonne kms* = Total Distance × Average Weight

6. Service Cost Unit:

Operating cost per unit = Total cost ÷ Service units

#### Service units can be classified as:

Single service unit

Composite service unit

| Name of Service | Single Service Unit | Composite Service Unit |
|-----------------|---------------------|------------------------|
| Taxi            | Cost per km         | -                      |
| Auto (sharing)  | Cost per km         | Cost per passenger-km  |
| Roadways bus    | Cost per km         | Cost per passenger-km  |
| Truck           | Cost per km         | Cost per ton-km        |
| Hotel           | Cost per room-day   | -                      |
| Coaching        | Cost per batch      | Cost per batch-student |

**7. Differential Fare:** In case of different charges for different categories of service, differential fare is calculated on the basis of equivalent units of service.

### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 19 CHAPTER 8 - PROCESS & OPERATION COSTING

#### 1. Normal Process Account:

- **Step 1:** Prepare separate process account by debiting all direct cost and apportionable and recoverble expenses.
- *Step 2:* Credited process account with normal loss units and their scrap value.
- Step 3: Calculate normal cost per unit (NCPU) = Total Cost Sale Vale of Normal Loss Units

  Total Units Normal Loss Units
- *Step 4:* Valued actual output and abnormal gain or loss as per NCPU.
- *Step 5:* Prepare normal loss, abnormal loss, abnormal gain and profit and loss A/C.

#### Proforma Process Account

| <b>Particulars</b>        | Units | ₹   | <b>Particulars</b>            | Units | ₹   |
|---------------------------|-------|-----|-------------------------------|-------|-----|
| To Process A/C (Previous) | XXX   | XXX | By Normal loss                | XXX   | XXX |
| To Units introduced       |       | XXX |                               |       |     |
| To Sundry materials       |       | XXX | By Process A/C (Next) or      | XXX   | XXX |
| To Labour                 |       | XXX | Finished goods A/C or Costing |       |     |
| To Direct expenses        |       | XXX | P/L A/C                       |       |     |
| To Indirect expenses      |       | XXX |                               |       |     |
| To Abnormal Gain (If any) |       | XXX | By Abnormal loss (If any)     | XXX   | XXX |
|                           |       |     |                               |       |     |
|                           | XXX   | XXX |                               | XXX   | XXX |

#### Proforma Normal Loss Account

| Particulars        | Units | ₹   | Particulars          | Units | ₹   |
|--------------------|-------|-----|----------------------|-------|-----|
| To Process I A/C   | XXX   | XXX | By Cash A/C:         |       |     |
| To Process II A/C  | XXX   | XXX | Process I            | XXX   | XXX |
| To Process III A/C | XXX   | XXX | Process II           | XXX   | XXX |
|                    |       |     | Process III          | XXX   | XXX |
|                    |       |     |                      |       |     |
|                    |       |     | By Abnormal gain A/C | XXX   | XXX |
|                    | XXX   | XXX |                      | XXX   | XXX |

#### Proforma Abnormal Loss Account

| <b>Particulars</b> | Units | ₹   | <b>Particulars</b> | Units | ₹   |
|--------------------|-------|-----|--------------------|-------|-----|
| To Process I A/C   | XXX   | XXX | By Cash A/C:       |       |     |
| To Process II A/C  | XXX   | XXX | Process I          | XXX   | XXX |
|                    |       |     | Process II         | XXX   | XXX |
|                    |       |     |                    |       |     |
|                    |       |     | By Costing P/L A/C |       | XXX |
|                    | XXX   | XXX |                    | XXX   | XXX |

#### Abnormal Gain Account

| <b>Particulars</b>                    | Units | ₹   | <b>Particulars</b> | Units | ₹   |
|---------------------------------------|-------|-----|--------------------|-------|-----|
| To Normal loss A/C To Costing P/L A/C | XXX   | XXX | By Process II A/C  | XXX   | XXX |
|                                       | XXX   | XXX |                    | XXX   | XXX |

#### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 20 Costing Profit And Loss Account

| <b>Particulars</b>   | Units | ₹   | <b>Particulars</b>   | Units | ₹   |
|----------------------|-------|-----|----------------------|-------|-----|
| To Process III A/C   | XXX   | XXX | By Sales A/C         | XXX   | XXX |
| To Selling expenses  |       | XXX | By Abnormal gain A/C |       | XXX |
| To Abnormal loss A/C |       | XXX |                      |       |     |
|                      |       |     |                      |       |     |
| To Profit (b.f.)     |       | XXX |                      |       |     |
|                      | XXX   | XXX |                      | XXX   | XXX |

#### 2. Equivalent Production (Closing WIP Only)

Equivalent production: This concept is used in case of WIP units in process.

- *Step 1:* Prepare process account as usual.
- *Step2:* Prepare statement of equivalent production.
- *Step 3:* Prepare statement of cost.
- **Step 4:** Prepare statement of apportionment of cost or statement of evaluation (in case of abnormal gain or loss).
- *Step 5:* Do complete process account.

#### **Proforma Statement of Equivalent Production**

| Particulars                      | Units Mat |      | terials La |      | abour 0 |      | erhead |
|----------------------------------|-----------|------|------------|------|---------|------|--------|
| Purticulars                      | Units     | %    | E.U.       | %    | E.U.    | %    | E.U.   |
| Units introduced:<br>Normal loss | XXX       | -    | -          | -    | -       | -    | -      |
| Units completed                  | XXX       | XX   | XXX        | XX   | XXX     | XX   | XXX    |
| Closing WIP                      | XXX       | XX   | XXX        | XX   | XXX     | XX   | XXX    |
| Abnormal loss (If any)           | XXX       | XX   | XXX        | XX   | XXX     | XX   | XXX    |
| Less: Abnormal gain (If any)     | (XXX)     | (XX) | (XXX)      | (XX) | (XXX)   | (XX) | (XXX)  |
| Total                            | XXX       | -    | XXX        | -    | XXX     | -    | XXX    |

#### *If nothing is specified in the question:*

|  | % of completion of Abnormal loss units | 100% |
|--|--|------|
|--|--|------|

% of completion of WIP units:

| Materials | 100% |
|-----------|------|
| Labour    | 50%  |
| Overheads | 50%  |

% of material components
100%

#### Always:

| % of completion of Finished goods | 100% |
|-----------------------------------|------|
| % of completion of Abnormal gain  | 100% |
| % of completion of Normal loss    | 0%   |

### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 21 Proforma Statement of Cost

| Elements                         | Cost                       | Eq. Units         | Cost per unit     |
|----------------------------------|----------------------------|-------------------|-------------------|
| Materials<br>Labour<br>Overheads | XXX (Net of scrap) XXX XXX | XXX<br>XXX<br>XXX | XXX<br>XXX<br>XXX |
|                                  | Total Cost Per Unit        | •                 | XXX               |

> Sale value of scrap of normal loss units is deducted from the cost of materials

#### **Proforma Statement of Evaluation**

| <b>Particulars</b> | Elements  | Equivalent units | Cost per unit | Total (₹) |
|--------------------|-----------|------------------|---------------|-----------|
| 1. Units completed | Materials | XXX              | XXX           | XXX       |
|                    | Labour    | XXX              | XXX           | XXX       |
|                    | Overhead  | XXX              | XXX           | XXX       |
|                    |           |                  |               | XXX       |
|                    |           |                  |               |           |
| 2. Closing WIP     | Materials | XXX              | XXX           | XXX       |
|                    | Labour    | XXX              | XXX           | XXX       |
|                    | Overhead  | XXX              | XXX           | XXX       |
|                    |           |                  |               | XXX       |
|                    |           |                  |               |           |
| 3. Abnormal loss   | Materials | XXX              | XXX           | XXX       |
|                    | Labour    | XXX              | XXX           | XXX       |
|                    | Overheads | XXX              | XXX           | XXX       |
|                    |           |                  |               | XXX       |
|                    | _         |                  |               |           |
| 4. Abnormal gain   | Materials | XXX              | XXX           | XXX       |
|                    | Labour    | XXX              | XXX           | XXX       |
|                    | Overheads | XXX              | XXX           | XXX       |
|                    |           |                  |               | XXX       |

#### 3. Opening WIP with FIFO method:

- Only current period work is considered in statement of equivalent production.
- Cost of opening WIP is directly added to value of units completed.
- Normal loss, abnormal loss and abnormal loss units always from current units.

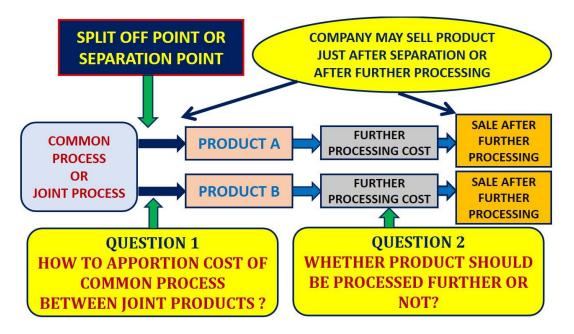
#### 4. Opening WIP with Average method:

- Total work is considered in statement of equivalent production.
- Cost of opening WIP is added to current period cost element wise.
- No need to add cost of opening WIP to finished goods.

#### 5. Inter Process Profit:

- One process transfer its output to other process on cost plus profit basis.
- Profit earned by each process department is used to evaluate performance of concern process department

#### 1. Understanding of Chapter:



#### 2. Methods of apportionment of joint cost:

- Market value at separation point method:
  - Apportionment of joint cost on the basis of market value at separation point net of selling expenses at split off point (if any) of total output of products.
- Market value after further processing method:

Apportionment of joint cost on the basis of market value after further processing of total output of products.

Net realisable value (NRV) method/ NRV at split off point method:

Apportionment of joint cost on the basis of net realisable value at split off point of total output of products.

NRV = Sale value after further processing – further processing cost – selling expenses etc.

Physical unit method:

Apportionment of joint cost on the basis of physical units at split off point.

Average unit cost method:

Apportionment of joint cost on the basis of average cost per unit.

Average unit cost = Total Joint Cost

Total Units at Separation Point

- Contribution margin method:
  - Step 1: Apportionment of variable joint cost on the basis of physical units.
  - Step 2: Apportionment of fixed joint cost on the basis of contribution.

*Note:* Fixed cost will not be apportioned to product having zero or negative contribution.

Reverse cost method:

#### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 23 Statement Showing Apportionment of Joint Cost (Reverse Cost Method)

| Particulars Particulars             | Product A | Product B |
|-------------------------------------|-----------|-----------|
| Sale value after further processing | XXX       | XXX       |
| Less: Profit                        | XXX       | XXX       |
| Less: Selling expenses              | XXX       | XXX       |
| Less: Further cost                  | XXX       | XXX       |
|                                     |           |           |
| Joint Cost                          | XXX       | XXX       |

*Note:* If total joint cost mismatched with apportioned joint cost then apportion actual joint cost in proportion of apportioned mismatched joint cost.

#### Constant gross margin method:

Step 1: First calculate constant percentage of profit (Profit = Total sales – Total cost)

Step 2: Use reverse cost method

#### 3. Further processing decision:

Incremental revenue (IR) = Sale value after further processing – Sale value at separation Point

Incremental cost (IC) = Further processing cost + Selling expenses in case of further processing – Selling expenses at split off point

| Situation  | Further Processing Decision |
|------------|-----------------------------|
| 1. IR > IC | Yes                         |
| 2. IR = IC | Indifferent                 |
| 3. IR < IC | No                          |

#### 4. Treatment of by product:

Situation 1: By product has commercial use: treat it as joint product.

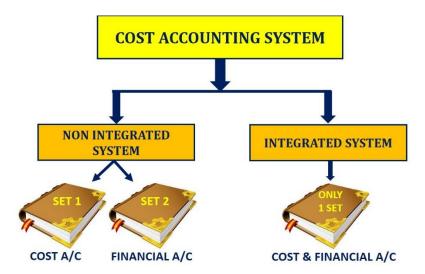
#### How to trace:

- If question says to apportion cost to by product also
- If question says to calculate profit on by product also
- > If question says by product has commercial use

*Situation 2:* By product don't have commercial use: treat it as scrap.

- **Step 1**: Deduct sale value of by product from the joint cost.
- Step 2: Apportion net joint cost among remaining main products.

#### 1. Cost Accounting System:



- **2. Integrated Accounting System:** in this system only one set of books of account is maintained to records transactions related to cost account and financial account.
- 3. Accounting in Integrated System:

Store Ledger Control A/C

| <b>Particulars</b>        | ₹         | <b>Particulars</b>     | ₹             |
|---------------------------|-----------|------------------------|---------------|
| To Balance b/d            | Op. Stock | By Purchase Return A/c | Return        |
| To Purchases/Supplier A/c | Purchase  | By WIP A/c             | Direct Mat.   |
| To WIP A/c                | Return    | By Production OH A/c   | Indirect Mat. |
|                           |           | By Production OH A/c   | Normal Loss   |
|                           |           | By Costing P/L A/c     | Ab. Loss      |
|                           |           | By Balance c/d         | Cl. Stock     |
|                           | -         |                        | -             |

Wages Control A/C

| <b>Particulars</b> | ₹          | Particulars   | ₹   |
|--------------------|------------|---|---|
| To Bank A/c        | Wages Paid | By WIP A/c By Production OH A/c By Production OH A/c By Costing P/L A/c | Direct Lab.<br>Indirect Lab.<br>Normal Idle<br>Ab. Idle |
|                    | -          | by desting 1 / 211/ c   | -   |

Production Overhead Control A/C

| Particulars Particulars | ₹           | Particulars Particulars Particulars | ₹                     |
|-------------------------|-------------|-------------------------------------|-----------------------|
| To Bank A/c             | OH Incurred | By WIP A/c                          | Recovered             |
| To Depreciation A/c     | Dep.        | By Costing P/L A/c or               | <b>Under Recovery</b> |
| To Store A/c            | Ind. M + NL | By Balance c/d                      |                       |
| To Wages A/c            | Ind. L + NL |                                     |                       |
|                         | -           |                                     | -                     |

Work-In-Progress A/C

| <b>Particulars</b> | ₹           | Particulars Particulars | ₹         |
|--------------------|-------------|-------------------------|-----------|
| To Balance b/d     | Op. WIP     | By Finished Goods A/c   | Completed |
| To Stores A/c      | Direct Mat. | By Balance c/d          | Cl. WIP   |
| To Wages A/c       | Direct Lab. |                         |           |

| To Production OH A/c | Recovered |   |
|----------------------|-----------|---|
|                      | -         | - |

Administration Overhead A/C

| <b>Particulars</b> | ₹           | <b>Particulars</b>  | ₹  |
|--------------------|-------------|---|--|
| To Bank A/c        | OH Incurred | By Finished Goods A/c By Cost of Sales A/c By Costing P/L A/c | Prod. Related<br>General<br>Under Recov. |
|                    | -           |   | -  |

Finished Goods Control A/C

| Particulars              | ₹            | Particulars          | ₹      |
|--------------------------|--------------|----------------------|--------|
| To Balance c/d           | Op. FG       | By Cost of sales A/c | COGS   |
| To Work-in-process A/c   | Completed    | By Balance c/d       | Cl. FG |
| To Administration OH A/c | Prod Related |                      |        |
|                          | -            | ]                    | -      |

Selling and Distribution Overhead A/C

| <b>Particulars</b> | ₹           | <b>Particulars</b>                      | ₹                       |
|--------------------|-------------|---|-------------------------|
| To Bank A/c        | OH Incurred | By Cost of Sales A/c By Costing P/L A/c | Recovered<br>Under Rec. |
|                    | -           |   | -                       |

Cost of Sales A/C

| <b>Particulars</b>       | ₹       | <b>Particulars</b> | ₹     |
|--------------------------|---------|--------------------|-------|
| To Finished Good A/c     | COGS    | By Sales A/c       | Sales |
| To Administration OH A/c | General |                    |       |
| To Selling OH A/c        | S & D   |                    |       |
| To Costing P/L A/c       | Profit  |                    |       |
|                          | -       |                    | -     |

Costing Profit & Loss A/C

| <b>Particulars</b>       | ₹          | <b>Particulars</b>        | ₹        |
|--------------------------|------------|---------------------------|----------|
| To Stores A/c            | Ab. Loss   | By Cost of Sales A/c      | Profit   |
| To Wages A/c             | Ab. Loss   | By Abnormal Gain and Over | Ab. Gain |
| To Production OH A/c     | Under Rec. | Recovery                  |          |
| To Administration OH A/c | Under Rec. |                           |          |
| To Selling OH A/c        | Under rec. |                           |          |
| To Net Profit            | Net Profit |                           |          |
|                          | -          |                           | -        |

- **4. Non Integrated Accounting System:** in this system two sets of books of accounts are maintained to records transactions related to cost account and financial account.
- 5. Accounting in Non-integrated System:
- In case of non-integrated accounting system cost records only recognize nominal account (material, labour, overheads etc.)
- For all transactions related to real account (bank, cash, assets etc.) and personal account (debtors, creditors, capital etc.) Cost record use a representative account viz.:
  - Cost Ledger Control A/C (CLC) or
  - Nominal Ledger Control A/C (NLC) or
  - General Ledger Adjustment A/C (GLA)

Store Ledger Control A/C

| <b>Particulars</b> | ₹         | <b>Particulars</b>   | ₹             |
|--------------------|-----------|----------------------|---------------|
| To Balance b/d     | Op. Stock | By CLC               | Return        |
| To CLC A/c         | Purchase  | By WIP A/c           | Direct Mat.   |
| To WIP A/c         | Return    | By Production OH A/c | Indirect Mat. |
|                    |           | By Production OH A/c | Normal Loss   |
|                    |           | By Costing P/L A/c   | Ab. Loss      |
|                    |           | By Balance c/d       | Cl. Stock     |
|                    | -         |                      | -             |

Wages Control A/C

| Particulars Particulars | ₹          | Particulars Particulars | ₹             |
|-------------------------|------------|-------------------------|---------------|
| To CLC A/c              | Wages Paid | By WIP A/c              | Direct Lab.   |
|                         |            | By Production OH A/c    | Indirect Lab. |
|                         |            | By Production OH A/c    | Normal Idle   |
|                         |            | By Costing P/L A/c      | Ab. Idle      |
|                         | -          |                         | -             |

Production Overhead Control A/C

| <b>Particulars</b> | ₹           | <b>Particulars</b>    | ₹              |
|--------------------|-------------|-----------------------|----------------|
| To CLC A/c         | OH Incurred | By WIP A/c            | Recovered      |
| To Store A/c       | Ind. M + NL | By Costing P/L A/c or | Under Recovery |
| To Wages A/c       | Ind. L + NL | By Balance c/d        |                |
|                    | -           |                       | -              |

Work-In-Progress A/C

| <b>Particulars</b>   | ₹           | <b>Particulars</b>    | ₹         |
|----------------------|-------------|-----------------------|-----------|
| To Balance b/d       | Op. WIP     | By Finished Goods A/c | Completed |
| To Stores A/c        | Direct Mat. | By Balance c/d        | Cl. WIP   |
| To Wages A/c         | Direct Lab. |                       |           |
| To Production OH A/c | Recovered   |                       |           |
|                      | -           |                       | -         |

Administration Overhead A/C

| <b>Particulars</b> | ₹           | <b>Particulars</b>    | ₹             |
|--------------------|-------------|-----------------------|---------------|
| To CLC A/c         | OH Incurred | By Finished Goods A/c | Prod. Related |
|                    |             | By Cost of Sales A/c  | General       |
|                    |             | By Costing P/L A/c    | Under Recov.  |
|                    | -           |                       | -             |

Finished Goods Control A/C

| <b>Particulars</b>       | ₹            | <b>Particulars</b>   | ₹      |
|--------------------------|--------------|----------------------|--------|
| To Balance c/d           | Op. FG       | By Cost of sales A/c | COGS   |
| To Work-in-process A/c   | Completed    | By Balance c/d       | Cl. FG |
| To Administration OH A/c | Prod Related |                      |        |
|                          | -            |                      | -      |

Selling and Distribution Overhead A/C

| <b>Particulars</b> | ₹           | <b>Particulars</b>                      | ₹                       |
|--------------------|-------------|---|-------------------------|
| To CLC A/c         | OH Incurred | By Cost of Sales A/c By Costing P/L A/c | Recovered<br>Under Rec. |
|                    | -           |   | -                       |

Cost of Sales A/C

| Particulars | ₹ |  | <b>Particulars</b> | ₹ |
|-------------|---|--|--------------------|---|

| To Finished Good A/c     | COGS    | By CLC A/c | Sales |
|--------------------------|---------|------------|-------|
| To Administration OH A/c | General |            |       |
| To Selling OH A/c        | S & D   |            |       |
| To Costing P/L A/c       | Profit  |            |       |
|                          | -       |            | -     |

Costing Profit & Loss A/C

| Particulars              | ₹          | <b>Particulars</b>        | ₹        |
|--------------------------|------------|---------------------------|----------|
| To Stores A/c            | Ab. Loss   | By Cost of Sales A/c      | Profit   |
| To Wages A/c             | Ab. Loss   | By Abnormal Gain and Over | Ab. Gain |
| To Production OH A/c     | Under Rec. | Recovery                  |          |
| To Administration OH A/c | Under Rec. |                           |          |
| To Selling OH A/c        | Under rec. |                           |          |
| To CLC A/c               | Net Profit |                           |          |
|                          | -          |                           | -        |

Cost Ledger Control A/C

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|---------------------------------|-------------|----------------------|-------------|--|
| <b>Particulars</b>              | ₹           | Particulars          | ₹           |  |
| To Stores A/c                   | Return      | By Balance b/d       | Op. Balance |  |
| To Cost of Sales A/c            | Sales       | By Stores A/c        | Purchase    |  |
| To Balance c/d                  | Cl. Balance | By Wages A/c         | Wages Paid  |  |
|                                 |             | By Production OH A/c | OH Incurred |  |
|                                 |             | By Admin OH A/c      | OH Incurred |  |
|                                 |             | By Selling OH A/c    | OH Incurred |  |
|                                 |             | By Costing P/L A/c   | Net Profit  |  |
|                                 | -           |                      | _           |  |

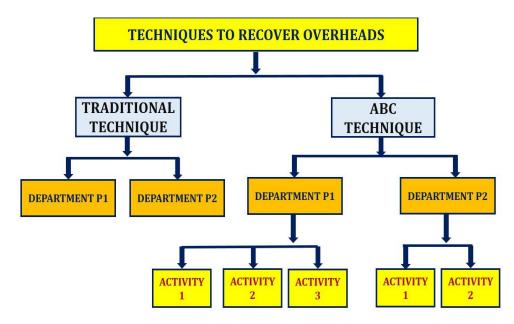
#### Notes:

- There is no posting in stores ledger for Material transferred between Jobs or Batches.
- Normal loss of material and normal idle time is to be transferred to Production Overheads A/C.

### COST & MANAGEMENT ACCOUNTING CONCEPT BOOK BY CA NAMIT ARORA SIR 36 CHAPTER 14 - RECONCILIATION

- **1. Reconciliation:** In case of non-integrated accounting system, we have to reconcile profit between two sets of books of account
  - Step 1: Prepare financial profit and loss account
  - Step 2: Prepare cost sheet or costing profit and loss account
  - Step 3: Prepare reconciliation statement or memorandum reconciliation account
- 2. Reasons of Difference between Cost and Financial Accounts:
  - 1. Items included in the financial accounts but not in cost accounts (purely financial items):
  - Interest on loans or bank mortgages.
  - Expenses and discounts on issue of shares, debentures etc.
  - > Other capital losses i.e., loss by fire not covered by insurance etc.
  - Losses on the sales of fixed assets and investments
  - ➢ Goodwill written off
  - Preliminary expenses written off
  - Income tax, donations, subscriptions
  - Expenses of the company's share transfer office, if any
  - Interest received on bank deposits, loans and investments
  - Dividends received
  - Profits on the sale of fixed assets and investments
  - > Transfer fee received
  - Rent receivables
  - **2.** Items included in cost accounts only (notional expenses):
  - Charges in lieu of rent where premises are owned
  - Interest on capital at notional figure though not incurred
  - Salary for the proprietor at notional figure though not incurred
  - Notional depreciation on the assets fully depreciated for which book value is nil
- 3. Items whose treatment is different in the two sets of accounts:
  - > Difference in methods of valuation of stock.
  - Difference in methods of depreciation etc.

1. Traditional Absorption Costing V/S Activity Based Costing:



- **2. Activity Based Costing:** Under ABC separate recovery rate of overheads is calculated for separate activity. ABC is also known as modern absorption costing method.
- 3. Activity: An event that incurs cost. Like: Packing and forwarding, inspection and testing etc.
- **4. Cost Pool:** Group of various individual cost items related to any specific activity. Like: Group of various cost items related to packing and forwarding
- **5. Cost Driver:** Basis of apportionment of cost related to any activity. Like: Number of parcels as apportionment base for packing and forwarding activity
- 6. Proforma Statement Showing Unit Cost and Total Cost Using ABC Method:

| Particulars Particulars                             | (₹) |
|---|-----|
| Direct material                                     | XXX |
| Direct labour                                       | XXX |
| Prime cost  | XXX |
| Production overhead:                                |     |
| Activity 1 say Material procurement @ XXX per order | XXX |
| Activity 2 say Maintenance @ XXX per hour           | XXX |
| Activity 3 say Set up @ per set                     | XXX |
| Total cost  | XXX |
| ÷ Number of units                                   | XXX |
| Cost per unit                                       | XXX |

7. Proforma Statement Showing Determination of Cost Driver Rate:

| Activity Cost Pool              | Cost Driver       | Amount | Volume | Cost Driver Rate |
|---------------------------------|-------------------|--------|--------|------------------|
| Activity 1 Material procurement | Material orders   | XXX    | XXX    | XXX per order    |
| Activity 2 Maintenance          | Maintenance hours | XXX    | XXX    | XXX per hour     |
| Activity 3 Set up               | No. of Set-ups    | XXX    | XXX    | XXX per set-up   |
|                                 |                   |        |        |                  |