## UNIT II : ACCOUNTING MECHANICS

## 1. INTRODUCTION

The financial accounting has evolved over the no of years into a specialized profession. The process of accounting starts with recording in the Journal, preparing ledger accounts, prepare trial balance and final accounts and at the end of this process, the financial statements are circulated to the stakeholders and shareholders. Proper pricing and valuation of inventory and adoption and maintenance of sound depreciation policy also contribute to maximize the earnings of the concern.

## 2. LEARNING OBJECTIVES

After going through this chapter, the reader is expected to -

1. Understand the accounting cycle that is followed by all the businesses
2. Understand the basic records that every business maintains
3. Understand when revenue is recognized
4. Understand the concept of inventory pricing and valuation
5. Understand how depreciation is calculated and what are the various methods available for calculating for depreciation.

## 3. BASIC RECORDS

The American Institute of certified public accountants (AICPA) defined accounting as "Accounting is the art of recording classifying and summarizing in a significant manner and in terms of money transactions and events which are in part at least of a financial character and interpreting the results thereof".

From the above definition the accounting process is very clear. This process of recording the transactions in appropriate books, classifying the various accounts and summarizing in the form of various financial statements and communicating them to all stock holders and stake holders is known as the accounting cycle.

## Accounting Cycle



Circulating the Financial statement to the Stock holders and Stake holders
Journal is known as the original book of entry. It is a book in which a transaction is recorded for the first time in the form of a journal entry. Whenever a transaction happens it is immediately recorded in the journal.

Ledger is a book where various transactions are grouped and classified into several ledger accounts. The closing balances of these accounts give the input for the preparation of trial balance. Ledger accounts are prepared periodically according to the need.

After ledger accounts are prepared, a statement showing the arithmetic accuracy of the recording of information is prepared with the help of closing balances of ledger accounts. This statement is known as a trial balance. This is usually prepared before the preparation of final accounts. The matching of debit and credit column totals implies that the recording is accurate.

Once the trial balance is prepared, the next step is preparation of financial statements. The first statement to be prepared is trading account, which shows the gross profit made by the concern for the accounting year.

After preparing the trading account, every business has to prepare the profit and loss account which shows the net profit earned by the company during the current year.

The last statement as the Balance sheet is prepared to show the financial position of the business on any given day, usually the last day of the financial year. This statement shows the closing balances of various assets and liabilities of the business.

## 4. PREPARATION OF FINANCIAL STATEMENTS

Every business has to prepare its own financial statements at the end of each accounting year. Financial statements are the statements that show the operational results of a business for a given period and also give the financial position of a concern on a given date. The financial statements prepared by a manufacturing firm include - Manufacturing account, Trading account, Profit and Loss account and Balance sheet. The financial statements prepared by a trading firm include - the Trading account, Profit and loss account and Balance sheet

Trading account is a statement that is prepared for a period of one year. It shows all manufacturing or factory expenses on the debit side and shows sales revenue and closing stock on the credit side. The expenses are matched against the revenues and the result may be Gross profit or Gross Loss. This is carried forward to the Profit \& Loss account.

Profit and Loss account is the second statement that is prepared by all the businesses after the trading account. This account shows all expenses other than manufacturing expenses, (office and administration expenses, selling and distribution expenses) and both operating and non-operating losses on its debit side. It shows all incomes and gains, both operating and non-operating on its credit side. The matching of both expenses \& losses with the incomes \& gains gives the operational results for the year. Usually all businesses follow the mercantile system of accounting (accrual system) while preparing their final accounts. When expenses are less than the incomes, the resulting figure is known as Net profit and if the expenses are more than the incomes, then it will result in Net Loss. This net profit or net loss is carried forward to the Balance sheet to be adjusted against the capital.

Balance sheet is a statement showing the financial position of a business on a given date, which is usually the last day of the financial year / accounting year. This statement shows the balances of all liabilities it owes to the outsiders on the debit side and the balances of assets on the credit side of the statement. All outstanding expenses which belong to the current year but have not yet been paid will be shown on the liabilities and all expenses which are paid for the future period are shown on the credit side of the statement. Similarly, all incomes which belong to the current year, but have not yet been received will be shown on the credit side of the statement and all incomes which belong to the future but have already been received in advance are shown on the debit side of the statement. The general rule is that both the sides must be the same, showing that every debit has an

While preparing the final accounts, all the adjustments which have not been made to the balances must be adjusted.

## Illustration

The following trial balance is extracted from the books of Mr.Pillai on 31.03.2002

| PARTICULARS | DEBIT <br> (Rs) | CREDIT <br> (Rs) |
| :--- | ---: | ---: |
| Furniture \& Fittings | 640 | - |
| Motor Vehicles | 6,250 | - |
| Buildings | 7,500 | - |
| Capital | - | 12,500 |
| Bad debts | 125 | - |
| Provision for doubtful debts | - | 200 |
| Sundry debtors \& Creditors | 3,800 | 2,500 |
| Stock as on 1.4.2002 | 3,460 | - |
| Purchases and Sales | 5,415 | 15,540 |
| Bank Overdraft | - | 2,850 |
| Sales \& Purchase returns' | 200 | 125 |
| Advertising | 450 | - |
| Interest on Bank overdraft | 118 | - |
| Commission | - | 375 |
| Cash | 650 | - |
| Taxes \& Insurance premium | 782 |  |
| General expenses | 1,250 | - |
| Salaries | 3,300 | - |
| TOTAL | $\mathbf{3 4 , 0 0 0}$ | $\mathbf{3 4 , 0 0 0}$ |

## Adjustments:

1) Stock on hand on 31.3 .2002 Rs. 3,250
2) Depreciate Buildings @ $5 \%$ pa, Furniture @ $10 \%$ pa, Motor Vehicles @ $20 \%$ pa
3) Rs. 85 is due for interest on bank overdraft
4) Salaries Rs. 300 and taxes Rs. 200 are outstanding
5) Insurance premium amounting to Rs. 100 is prepaid
6) One third of the commission received is in respect of work to be done next year
7) Write off a further sum of Rs. 100 as bad debts from debtors and create provision for doubtful debts @ 5\% on debtors
Prepare a trading and Profit \& Loss account and Balance sheet of the company.

Solution:
Trading and P\&L account for the year ended 31 ${ }^{\text {st }}$ March 2002

| Particulars | Amount | Particulars | Amount |
| :---: | :---: | :---: | :---: |
| To opening stock | 3460 | By Sales 15,450 |  |
| To purchases 5475 |  | Less: returns $\underline{\underline{200}}$ | 15,250 |
| Less: returns $\underline{125}$ | 5350 | By closing stock | 3,250 |
| To Gross profit | 9690 |  |  |
| To baddebts 125 |  | By Gross profit | 9690 |
| (+)Further baddebts |  | By Commission 375 |  |
| Written off 100 |  | (-)received in advance $\underline{125}$ | 250 |
| (+)5\% provision for |  |  |  |
| doubtful debts $\underline{185}$ |  |  |  |
| 410 |  |  |  |
| (-)old provision for |  |  |  |
| doubtful debts $\underline{200}$ | 210 |  |  |
| To advertising | 450 |  |  |
| To interest on Bank |  |  |  |
| Overdraft 118 |  |  |  |
| (+)outstanding $\underline{85}$ | 203 |  |  |
| To general expenses | 1250 |  |  |
| To salaries 3300 |  |  |  |
| (+)outstanding $\quad \underline{300}$ | 3600 |  |  |
| To taxes \& insurance 782 |  |  |  |
| (+)outstanding taxes $\underline{200}$ |  |  |  |
| 982 |  |  |  |
| (-)Prepaid insurance |  |  |  |
| premium $\underline{100}$ | 882 |  |  |
| To depreciation: |  |  |  |
| Buildings @ 5\% 375 |  |  |  |
| Furniture @ 10\% 64 |  |  |  |
| Motor vehicles @ 20\% 1250 | 1689 |  |  |
| To Net profit | 1656 |  |  |
|  | 9940 |  | 9940 |

## Balance sheet of Mr.Pillai as at 31 ${ }^{\text {st }}$ March 2002

| Liabilities | Amount | Assets | Amount |
| :---: | :---: | :---: | :---: |
| Capital 12500 |  | Furniture \& fixtures 640 |  |
| (+)Net profit $\underline{1656}$ | 14156 | (-) depreciation $\underline{64}$ | 576 |
| Sundry creditors | 2500 | Motor vehicles 6250 |  |
| Bank overdraft | 2850 | (-) depreciation $\underline{1250}$ | 5000 |
| Outstanding salaries | 300 | Buildings 7500 |  |
| Outstanding taxes | 200 | (-) depreciation $\underline{375}$ | 7125 |
| Outstanding interest on |  | Sundry debtors 3800 |  |
| bank overdraft | 85 | (-)baddebts writtenoff 100 |  |
| Commission received in | 125 | 3700 |  |
| advance |  | (-)5\% new provision $\underline{185}$ | 3515 |
|  |  | Cash | 650 |
|  |  | Closing stock | 3250 |
|  |  | Prepaid insurance premium | 100 |
|  | 20,216 |  | 20,216 |

Illustration 2

From the following Trial Balance of Evergreen and Company Limited, prepare Trading, Profit and Loss Account and Balance Sheet.

Trial Balance as on 31-12-1995:

| Cash in Hand | 2,400 |  |
| :---: | :---: | :---: |
| Purchases | 2,40,000 |  |
| Stock as on 1-1-95 | 70,000 |  |
| Debtors | 1,00,000 |  |
| Plant \& Machinery | 1,20,000 |  |
| Furniture | 30,000 |  |
| Bills Receivable | 40,000 |  |
| Rent \& Taxes | 20,000 |  |
| Wages | 32,000 |  |
| Salaries | 37,600 |  |
| Capital |  | 2,00,000 |
| Bills Payable |  | 44,000 |
| Creditors |  | 48,000 |
| Sales |  | 4,00,000 |
|  | 6,92,000 | 6,92,000 |

Adjustments:
(1) Closing inventory as on 31-12-1995 : Rs. 50,000
(2) Outstanding wages : Rs. 5,000
(3) Depreciation on Plant \& Machinery at 10\% Furniture at 5\%

Solution:
Trading and P\&L account for the year ended 31 ${ }^{\text {st }}$ March 2002

| Particulars | Amount | Particulars | Amount |
| :---: | ---: | :--- | ---: |
| To opening stock | 70,000 | By Sales | $4,00,000$ |
| To purchases | $2,40,000$ | By closing stock | 50,000 |
| To Wages | 32,000 |  |  |
| Add: outstanding | 5,000 | 37,000 |  |
| To Gross profit | $1,03,000$ |  |  |
| To depreciation: |  | By Gross profit | $1,03,000$ |
| Plant \& Machinery | 12,000 |  |  |
| Furniture | 1,500 |  |  |
| To Rent \& Taxes | 20,000 |  |  |
| To salaries | 37,600 |  | $\mathbf{1 , 0 3 , 0 0 0}$ |
| To Net profit | 31,900 |  |  |
|  | $\mathbf{1 , 0 3 , 0 0 0}$ |  |  |

Balance sheet as at $\mathbf{3 1}^{\text {st }}$ March 2002

| Liabilities | Amount | Assets | Amount |
| :--- | ---: | :--- | ---: |
| Capital 2,00,000 |  | Cash in hand | 2,400 |
| (+)Net profit 31900 | $2,31,900$ | Debtors | $1,00,000$ |
| Sundry creditors | 48,000 | Plant \& Mach 1,20,000 |  |
| Outstanding Wages | 5,000 | Less Dep $1 \underline{2,000}$ | $1,08,000$ |
| Bills payable | 44,000 | Furniture 30,000 |  |
|  |  | Less Dep $\quad 1,500$ | 28,500 |
|  |  | Bills receivable | 40,000 |
|  |  | Closing stock | 50,000 |
|  | $\mathbf{3 , 2 8 , 9 0 0}$ |  | $\mathbf{3 , 2 8 , 9 0 0}$ |

## 5. REVENUE RECOGNITION \& MEASUREMENT

Under accrual system of accounting revenues from the sale of merchandise are considered to be earned in the accounting year in which the ownership of goods passes
from the seller to the buyer. As a result even though cash for the sale may not be collected until the following period, the revenue is recognized as being earned at the time of sale. Usually the physical delivery of goods occurs at the same time as the sale of the goods.

Sales revenue is regarded as earned if the following conditions are satisfied.

1) The seller has passed the legal ownership of the goods to the buyer
2) The selling price of the goods has been established
3) The buyer has paid the purchase price of the goods or it is certain that he will pay the price. If any of these conditions are not fulfilled revenue cannot be recorded.

## 6. MATCHIING REVENUES AND EXPNSES

During the process of preparing the trading and profit loss account, the relevant expenses and revenues are matched to arrive at the operating results of the business i.e. profit or loss. Expenses may be categorized as manufacturing expenses, office and administration expenses and selling \& distribution expenses. Revenues may arise from sale of products and services or from sale of fixed assets and income from investments. In trading account the manufacturing expenses are matched against the sales and closing stock to arrive at the gross profit or loss. In profit and loss account the office administration expenses, selling \& distribution expenses along with other non-operating expenses or less are matched against the operating and non-operating incomes arising out of the business. This results in net profit or net loss. Usually the mercantile system of accounting is adopted while preparing the financial statements. All the receivables and payables are considered and shown in the appropriate statements provided they belong to the current year.

## 7. INVENTORY PRICING AND VALUATION

Inventories refers to unsold goods purchased or manufactured. According to the Accounting Standard :2 (Revised), inventories are assets :
(a) held for sale in the ordinary course of business ;
(b) in the process of production for such sale or
(c) in the form of materials or supplies to be consumed in the production process of in the rendering of services.

Thus, the term inventory include stock of (i) finished goods (ii) work-in-progress and (iii) raw materials and components. In case of a trading concern, inventory primarily consists of finished goods while in case of a manufacturing concern, inventory consists of raw materials, components, stores, work-in-process and finished goods.

## Objectives of inventory valuation

1) Determination of income
2) Determination of financial position

## Inventory Systems :

1) Periodic inventory system :

Under this system the merchandise inventory account is updated only periodically, after a physical count has been made. Usually, the physical count takes place at the end of the accounting period. Many departmental stores use this system
2) Perpetual inventory system :

Perpetual inventory system has been defined as ' a system of record maintained by the controlling department, which reflects physical movement of stocks and their current balances i.e. it is technique of controlling stock by maintaining stock records, such as bin card in stores and stores ledger in accounts, in such a manner that the stock balance is available at any point of time (perpetually)'. Under this system stores ledger is recorded after each transaction of receipt, issue or transfer. This facilitates regular stock verification physically which obviates the stoppage of work for stock taking.

The success of perpetual inventory system depends on (1) maintenance of bin cards and stores ledger up-to-date (2) reconciliation of quantity balance as shown by bin cards with that in stores ledger (3) continuous verification of physical stock with bin card quantity (4) reconciliation of discrepancies arising out of physical verification, as well as comparison with stores ledger (5) remedial action to remove the cause of discrepancies (6) correction of stock records.

## Methods of valuation of inventories or Pricing Issues of Material :

Materials issued from stores should be valued at the rate they are carried in stock. The various methods for pricing material issues from stores are classified as follows :

1) Specific identification method

This method is applicable to materials purchased for a particular job, order or process, and identified when received either in stores or in the shop floor directly. Such materials are usually non-standard and actual cost is
charged to the job/order/process concern. No question of difference arises out of such pricing.
2) First in First Out (FIFO)

This method assumes that materials are used in the order in which they are received in stores (chronologically). Hence the price of the first lot is charged to all issues till the stock losts. As a result closing stock will be valued at latest purchase price.

This method is useful in the slow moving or less frequently used materials of bulk items and high unit costs.
3) Last In First Out (LIFO)

This method assumes that the last receipt of stock is issued first. Hence issues are priced at current prices, while stock remains at historical cost. This method is useful under the inflationary conditions of the market.

This method is useful for materials used less frequently and under inflationary conditions.
4) Highest in First Out (HIFO)

Under this method issues are valued at their highest price i.e. costliest items are issued at first, and inventory is kept at lowest possible prices. Thus a secret reserve is created by undervaluing stock. This method is complicated to administer if there are numerous purchases within a short period.

This method is mainly used for monopoly products or cost plus contracts.
5) Base Stock Method

This method assumes that a minimum stock is always carried at original cost. The issues are priced using one of the conventional method like FIFO, LIFO, etc, at actual costs.

This method will be suitable for tanning, smelting, oil refineries, etc. which use basic raw materials like hides, non-ferrous metal, and crude oil for their products.
6) Next In First Out (NIFO)

Under this method issues are valued at the price expected the next purchase i.e. price of material which has been ordered but not yet received. Problem may arise if the price ruling at the time of supply defers from the purchase order price. However this method attempts to value issues at nearest to current market prices.

## 7) Weighted Average Price Method

This method gives due importance to quantities received also. Issue prices are calculated at average cost price of materials in hand i.e. by dividing the value of materials in stock by the quantities in stock. Weighted average price remains the same till the next issue is received. Thus issue prices are derived at the time of receipt and not at the time of issues.

This method is suitable where wide fluctuation of prices occur as it evens out prices over the accounting period.

## 8. NET REALISATION VALUE :

According to International Accounting Standard 2 (IAS 2) the Net realizable value means " the estimated selling price in the ordinary course of business less costs of completion and less costs necessarily to be incurred in order to make the sale".

Under this method, Inventories are to valued at cost or net realizable value whichever is less.

## 9. FIXED ASSETS AND DPERECIATION ACCOUNTING

## Fixed Assets :

Fixed assets refer to the various tangible and intangible assets used in the business for producing and selling the products or rendering services to the customers. Fixed assets are characterized by their long term investment in the business.

## Depreciation :

Depreciation is a permanent, continuing and gradual shrinkage in the book value of a fixed asset due to use, wear and tear, obsolescence or effluxion of time.

Characteristics of Depreciation :

1) It refers to the fall or shrinkage in the true value of an asset
2) It refers to a fall in the book value of asset, which may or may not be equal to the market value or the cost price of the asset.
3) The fall in the book value in a slow and gradual process

Need for providing Depreciation :

1) To ascertain the profits
2) To show the assets at their proper value
3) To create funds for replacement of assets
4) Provision of depreciation is a statutory need $u / s 205$ of the Indian Companies Act, 1956.
5) To spread over the cost of the fixed asset
6) To show correct financial position
7) To compute tax liability
8) To determine product cost for managerial decision making

## Distinction between depreciation, depletion and amortization :

Depreciation is calculated on fixed, physical and tangible assets.
Depletion refers to the physical exhaustion of natural resources
Amortization refers to writing -off of long term assets or intangible assets. Such as leaseholds, copy rights, etc.

Causes of Depreciation :

1) Physical deterioration (wear \& tear) (erosion, rust, rot and decay)
2) Economic factors (obsolescence \& inadequacy)
3) Time factors - (eg. Intangible fixed assets such as patent rights)
4) Depletion

Computation of Depreciation :

1) Depreciation base
2) Useful/Economic life
3) Depreciation method

Methods of Depreication :

1) Fixed installment or Straight line method
2) Diminishing balance or Written down value method
3) Sum of digits method
4) Annuity method
5) Depreciation fund/Sinking fund method
6) Insurance policy method
7) Revaluation method
8) Activity method (i) Production unit method (ii) Machine Hour rate method (iii) Service unit (hrs) method (iv) Depletion's method.

## Illustration

1. A van was bought for Rs. $1,86,000$ on $1^{\text {st }}$ Jan 2002. Extra partitions and a new counter were fitted to make use of it as a traveling shop. The additional cost was Rs.18,000. Repairs during the year amounted to Rs.2,000. The van was depreciated on its capital cost @ $15 \%$. Pa. show the asset account on $31^{\text {st }} \mathrm{Dec} 2002$

Solution:

## Van account

| Date | Particulars | Amount | Date | Particulars | Amount |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1^{\text {st }}$ | To Bank | $2,04,000$ | $31^{\text {st }}$ | By Dep @ 15\% | 30,600 |
| Jan | $(1,86,000+$ |  | Dec | By Bal.c/d | $1,73,400$ |
| 2002 | $18,000)$ |  | 2002 |  |  |
|  |  | $\mathbf{2 , 0 4 , 0 0 0}$ |  |  | $\mathbf{2 , 0 4 , 0 0 0}$ |

## 10. INTANGIBLE ASSETS

Intangible assets refers to those assets which cannot be seen or touched, such as goodwill. They do not generate goods or services directly. They reflect the rights of the firm and includes patent rights, copy rights, trade marks and goodwill.

## SUMMARY

The financial accounting has evolved over the no of years into a specialized profession. The process of accounting starts with recording in the Journal, preparing ledger accounts, prepare trial balance and final accounts and at the end of this process, the financial statements are circulated to the stakeholders and shareholders. Proper pricing and valuation of inventory and adoption and maintenance of sound depreciation policy also contribute to maximize the earnings of the concern.

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Sales revenue is regarded as earned if the following conditions are satisfied. - i) The seller has passed the legal ownership of the goods to the buyer, ii) The selling price of the goods has been established, iii) The buyer has paid the purchase price of the goods or it is certain that he will pay the price. If any of these conditions are not fulfilled revenue cannot be recorded.

The term inventory include stock of (i) finished goods (ii) work-in-progress and (iii) raw materials and components. In case of a trading concern, inventory primarily consists of finished goods while in case of a manufacturing concern, inventory consists of raw materials, components, stores, work-in-process and finished goods.

There are two main objectives to inventory valuation. They are - i) Determination of income, ii) Determination of financial position

There are two inventory systems. They are - i) periodic inventory system and ii) Perpetual inventory system.

The various methods of valuation of inventories or pricing issues of material are - i) Specific identification method, ii) FIFO, iii) LIFO, iv) HIFO, v) Base Stock Method, vi) Next In First Out (NIFO), vii) Weighted Average Price Method

Depreciation is a permanent, continuing and gradual shrinkage in the book value of a fixed asset due to use, wear and tear, obsolescence or effluxion of time.

## Short Questions

1. What is an accounting cycle?
2. Explain the meaning of the term 'Journal' and state its significance
3. What is a ledger?
4. What is a trial balance?
5. What are final accounts?
6. When sales revenue is recognized?
7. What do you mean by inventory valuation?
8. Define fixed assets
9. What is depreciation?
10. Distinguish between depreciation, depletion and amortisation
11. What are intangible assets?
12. Define budget and budgetary control
13. Explain the various objectives of depreciation.
14. Distinguish between a master budget and a functional budget

## Long Questions

1. Define financial accounting. Explain the process of accounting cycle in depth with an illustration
2. Mention the various adjustments to be made while preparing the final accounts
3. What is inventory? Explain the various methods of issuing material issues
4. Define depreciation. What are the various methods of calculating depreciation?
5. Explain the concept of budgeting and budgetary control. What are the essentials of an effective budgetary control system?
Explain the concept of budgetary control. What are its merits and demerits. How do you classify budgets?

## Exercises

1. The following are the balances extracted from Nalan on 31-12-1998

|  | Rs. |
| :--- | ---: |
| Capital | 30,000 |
| Drawings | 5,000 |
| Furniture \& Fittngs | 2,600 |
| Bank Overdraft | 4,200 |
| Creditors | 13,800 |
| Business Premises | 20,000 |
| Sales Returns | 2,000 |
| Discounts (Debtors) | 1,600 |
| Discounts (Creditors) | 2,000 |
| Taxes \& Insurance | 2,000 |


| Stock on 1-1-1998 | 22,000 |
| :--- | ---: |
| Debtors | 18,000 |
| Rent from tenants | 1,000 |
| Purchases | $1,10,000$ |
| Sales | $1,50,000$ |
| General expenses | 4,000 |
| Salaries | 9,000 |
| Commission (Debtors) | 2,200 |
| Carriage on purchases | 1,800 |
| Bad debts written off | 800 |

## Adjustments

(1) Stock on hand 31-12-1998 : Rs. 20,060
(2) Write off depreciation Business premises : Rs. 300, Furniture \& fittings : Rs. 250
(3) Make provision for $5 \%$ on debtors for doubtful debts.
(4) Allow interest on capital at $5 \%$.
(5) Carry forward Rs. 200 for unexpired insurance.
2. From the following Trial Balance of KRISHNAN as at 31-12-1987, you are required to prepare a Trading, Profit and Loss account for the year ended 31-12-1987 and Balance Sheet as at that date after making necessary adjustments.

Capital
Drawings
Plant \& Machinery (Balance on 1-1-87)
Plant \& Machinery (Additional on 1-7-87)
Stock on 1-1-87
Purchases
Returns Inwards
Sundry debtors
Furniture \& Fixtures 5,000
Freight \& Duty 2,000
Carriage Outwards 500
Rent, Rates \& taxes 4,600
Printing \& Stationery 800
Trading expenses 400
Sundry Creditors 10,000
Discounts
Sales
Return Outwards
Posting \& telegraph
Provision for debtors
Subrent for premises upto 30-6-87

800

800
Rs.
80,000
6,000
20,000
5,000
15,000
82,000
1,000
20,000

1,20,000
2,000

400
1,200

Insurance charges
700
Salaries \& Wages
21,300
Cash in hand
6,200
Cash in Bank

20,500
---------------------------------------------------------------

Adjustments:
(1) Stock on 31-12-87 : Rs. 14,600
(2) Write off Rs. 600 as bad debts
(3) Provision for doubtful debts is to be maintained at $5 \%$ on debtors
(4) Create a provision for discount on debtors \& reserves fro discount on creditors at $2 \%$
(5) Provision for depreciation on Furniture and fixtures is at 5\% per annum and Plant \& Machinery at $20 \%$ per annum
(6) Insurance prepaid was Rs. 100

A fire occurred on $25^{\text {th }}$ December 1987 in the godown and stock of the value of Rs. 5,000 was destroyed. It was fully insured and insurance company admitted the claim in full
3. the following Trial Balance of LOVMOON Ltd. And other particulars given, prepare Trading, Profit and Loss account and Balance Sheet for the year ended 31-12-1995.

|  | Rs. | Rs. |  |
| :--- | ---: | :--- | ---: |
| Prepaid expenses | 1,000 | Share Capital | $10,00,000$ |
| Balance at Bank | $1,76,000$ | Sundry Creditors | $2,32,000$ |
| Motor Vehicles | $1,48,000$ | Sales | $31,60,000$ |
| Sundry Debtors | $2,96,000$ | Provision for |  |
| Printing \& Stationery | 6,600 | doubtful debts | 5,000 |
| Purchases | $24,00,000$ | General reserve | $2,00,000$ |
| Opening Stock | $2,40,000$ | Last Year P\&L |  |
| Bad debts | 11,400 | A/c Balance | $1,24,000$ |
| Freehold premises |  |  |  |
| At cost | $8,00,000$ |  |  |
| Repairs to premises | 47,600 |  |  |
| Mgr.'s Remuneration | 20,000 |  |  |
| Wages \& Salaries | $2,29,000$ |  |  |
| Motor \& Delivery exp. | 99,000 |  |  |
| Administration exp. | $1,31,400$ |  |  |
| Rates \& taxes | 15,000 |  |  |
| Goodwill | $1,00,000$ |  |  |

----------------- -----------------

Adjustment:

(1) Stock on hand 31-12-95 : Rs. 2,80,000
(2) Depreciation on Motor vehicles : Rs. 74,000
(3) Sundry creditors include a claim for damages : Rs. 20,000 made last year. This was settled during this year for Rs. 15,100
(4) Unpaid wages : Rs. 1,600
(5) Rates paid in advance : Rs. 3,000
(6) Provision for bad debts is to be reduced to Rs. 3,500
(7) The item of repairs to premises includes Rs. 20,000 for a new structure
(8) Stock of stationery on hand : Rs. 2,200
4. A company purchased a second hand machine on $1^{\text {st }}$ Jan 2000 for Rs. 37,000 and immediately spent Rs. 2,000 on its repairs and Rs. 1,000 on its installation. On $1^{\text {st }}$ July 2001, it purchased another machine for Rs.10,000 and on $1^{\text {st }}$ July 2002, it sold off the first machine purchased in 2000 at Rs. 28,000 . on the same date, it purchased machinery for Rs.25,000. The second machine purchased for Rs.10,000 was sold off on $1^{\text {st }}$ July 2003 for Rs. 2000 .

Depreciation was annually on $31^{\text {st }}$ December provided on machinery @ $10 \%$ on the original cost. In 2001, however, the co changed the method of providing depreciation and adopted the Written down value method, the rate of depreciation being $15 \%$. Give the machinery account for the 4 years commencing from $1^{\text {st }}$ January 2000.

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## COST SHEET

## Meaning And Scope of Cost Accountancy

The term cost accountancy is wider than the term cost accounting. According to the Terminology of Management and Financial Accountancy Published by the Chartered Institute of Management Accountants, London, cost accountancy means, "the application of costing and cost accounting principles, methods and techniques to the science, art and practice of cost control. It includes the presentation of information derived there from for the purpose of managerial decision making.

## Cost Accounting

Cost accounting is the process of accounting for costs. It embraces the accounting procedures relating to recording of all income and expenditure and the preparation of periodical statements and reports with the object of ascertaining and controlling costs. It is thus the formal mechanism by means of which costs of products or services are ascertained and controlled.

## Costing

Costing is "the technique and process of ascertaining costs." Cost accounting is different from costing in the sense that the former provides only the basis and information for ascertainment of cost. Once the information is made available the costing can be carried out arithmetically by means of memorandum statements or by method of integral accounting.

However, the two terms costing and cost accounting are often used interchangeably. No such distinction has also been observed for the purpose of this book. Wheldon has given an exhaustive definition of costing after expanding the ideas contained in the definitions of the terms 'costing and cost accounting'. According to him costing is, "the classifying recording and appropriate allocation of expenditure for the determination of the costs of products or services; the relation of these costs to sales values; and the ascertainment of profitability".

## Cost Control

According to the Institute of Cost and Works Accountants of India, cost control means "The act of power of controlling or regulating or dominating or commanding costs through the application of management tools and techniques
to the performance of any operation to most predetermined objectives of quality, quantity, value and time oat an optimum outlay".

## Objectives of Cost Accounting

The main objectives of cost accounting can be summarized as follows:-

1. Ascertaining Costs: - The first and foremost objective of cost accounting is to find out cost of a product, process or service. The other objectives which have been mentioned hereafter scan be achieved only when the costs have been ascertained.
2. Determining Selling Price: - Business enterprises are run on a profit - making basis. It is thus necessary that the revenue should be greater than the costs incurred in producing goods and services from which the revenue is to be derived. Cost accounting provides information regarding the cost to make and sell such products or services.
3. Measuring and Increasing Efficiency: - Cost accounting involvers a study of the various operations used in manufacturing a product or providing a services. The study facilitates measuring of the efficiency of the organisation as a whole as well as of the departments besides devising means of increasing the efficiency.
4. Cost Control and Cost Reduction: - Cost accounting assists in cost control it uses techniques such as budgetary control, standard costing etc. for controlling costs. Budgets are prepared will in advance. The standards for each item of cost are determined, the actual costs are compared with the standard costs and variances are found out as to their causes. This greatly increases the operating efficiency of the enterprise. Besides it, cost is required to be reduced also constant research and development activities help in reduction of costs without compromising with the quality of goods or services.
5. Cost Management: - The term 'Cost Management' includes the activities of managers in short-run and long-run planning and control of costs. Cost management has a broad focus. It includes both cost control and lost reduction. As a matter of fact cost management is often invariably linked with revenue and profit planning. For instance, to enhance revenue and profits, the management often deliberately incurs additional costs for advertising and product modifications.
6. Ascertaining Profits: - Cost accounting also aims at ascertaining the profits of each and every activity. It produces statements at such intervals as the management may require. The financial statements prepared under financial accounting, generally once a year or half year, are spaced too far apart in time to meet the needs of the management. In order to operate the business at a high level of efficiency, it is essential for the management to have a frequent review of production, sales and operating results. Cost accounting provides
daily, weekly or monthly volumes of units produced, accumulated costs together with appropriate analysis so that quantum of profit and profitability is known.
7. Providing Basis for Managerial Decision - Making: - Costs accounting helps the management in formulation operative policies. These policies may relate to any of the following matters:-
(i) Determination of cost - volume - profit relationship.
(ii) Shutting down or operating at a loss.
(iii) Making or buying from outside supplies.
(iv) Continuing with the existing plant and machinery or replacing them by improved and economical means.

## Cost Accounting Versus Financial Accounting

Accounting may broadly be classified into two categories:-
(a) Financial Accounting and
(b) Management Accounting

Financial Accounting is concerned with recording, classifying and summarizing financial transactions and preparing statements relating to the business in accordance with generally accepted accounting concepts and conventions. It is mainly meant to serve all parties external to the operating responsibility of the firm such as shareholders and creditors of the firm besides providing information about the overall operational results of the business while management accounting is concerned with accounting information which is useful for the management it is the presentation of accounting information in such as way as to assist "the management in the creation of policy and day to day operation of the undertaking.

## IMPORTANCE OF COST ACCOUNTING

## 1. Costing helps in periods of trade depression and trade competition:-

In periods of trade depression the business cannot afford to have leakages which pass unchecked. The management should know where economies may be sought, waste eliminated and efficiency increased. The business has to wage a wax for its survival. The management should know the actual cost of their products before embarking on any scheme of reducing the prices on giving tenders. Adequate costing facilitates this.
2. Aids in price fixation:-

Though economic law \& supply and demand and activities of the competitors, to a great extent, determine the price of the article, cost to
the producer does play an important part. The producer can take necessary guidance from his costing records.

## 3. Helps in estimate:-

Adequate costing records provide a reliable basis upon which tenders and estimates may be prepared. The chances of losing a contract on account of over - rating or losing in the execution of a contract due to under - rating can be minimized. Thus, "ascertained costs provide a measure for estimates, a guide to policy, and a control over current production".
4. Helps in channeling production on right lines:-

Costing makes possible for the management to distinguish between profitable and non-profitable activities profit can be maximized by concentrating on profitable operations and eliminating non-profitable ones.

## 5. Wastages are eliminated:-

As it is possible to know the cost of the article at every stage, it becomes possible to chock various forms of waste, such as time, expenses etc. or in the use of machine, equipment and tools.
6. Costing makes comparison possible:-

If the costing records are regularly kept, comparative cost data for different periods and various volumes of production will be available. It will help the management in forming future lines of action.
7. Provides data for periodical profit and loss accounts:-

Adequate costing records supply to the management such data as may be necessary for preparation of profit and loss account and balance sheet, at such intervals as may be desired by the management.
It also explains in detail the sources of profit or loss revealed by the financial accounts thus helps in presentation of better information before the management.

## 8. Aids in determining and enhancing efficiency:-

Losses due to wastage of material, idle time of workers, poor supervision etc., will be disclosed if the various operations involved in manufacturing a product are studied by a cost accountant. The efficiency can be measured and costs controlled and through it various devices can be framed to increase the efficiency.

## 9. Helps in inventory control:-

Costing furnishes control which management requires in respect of stock of materials, work-in-progress and finished goods. (This has been explained in detail under the chapter "Materials")

## 10. Helps in cost reduction:-

Costs can be reduced in the long run when alternatives are tried. This is particularly important ion the present day context of global competition cost accounting has assumed special significance beyond cost control this way.

## 11. Assists in increasing productivity

Productivity of material and labour is required to be increased to have growth and more profitability in the organisation costing renders great assistance in measuring productivity and suggesting ways to improve it.

## ELEMENTS OF COST

There are three broad elements of cost:-
(a) Material
(b) Labour
(c) Expenses
(a) Material: - The substance from which the product is made is known as material. It may be in a raw or a manufactured state. It can be direct as well as indirect.

Direct Material: - All material which becomes an integral part of the finished product and which can be conveniently assigned to specific physical units is termed as "Direct Material".
Following are some of the examples of direct material:-
(i) All material or components specifically purchased produced or requisitioned from stores.
(ii) Primary packing material (e.g. - cartoon, wrapping, cardboard, boxes etc.)
(iii) Purchased or partly produced components.

Direct material is also described as raw-material, process material, prime material, production material, stores material, constructional material etc.

Indirect Material: - All material which is used for purposes ancillary to the business and which cannot be conveniently assigned to specific physical units is termed as "Indirect Material".

Consumable stores, oil and waste, printing and stationery etc. are a few examples of indirect material
Indirect material may be used in the factory the office or the selling and distribution division.
(b) Labour: - For conversion of materials into finished goods, human effort is needed such human effort is called labour. Labour can be direct as well as indirect.

Direct labour: - Labour which takes an active and direct part in the production of a particular commodity is called labour. Direct labour costs are, therefore specially and conveniently traceable to specific products.
Direct labour is also described as process labour, productive labour, operating labour, manufacturing labour, direct wages etc.

Indirect labour:- labour employed for the purpose of carrying out tasks incidental to goods or services provided, is indirect labour such labour does not alter the construction, composition or condition of the product. It cannot be practically traced to specific units of output wages of store - keepers, foreman, time - keepers, directors, fees, salaries of salesmen, etc. are all examples of indirect labour costs.
Indirect labour may relate to the factory the office or the selling and distribution division.
(c) Expenses: - Expenses may be direct or indirect.

Direct expenses: - These are expenses which can be directly, conveniently and wholly allocated to specific cost centers or cost units. Examples of such expenses are: hire of some special machinery required for a particular contract, cost of defective work incurred in connection with a particular job or contract etc.
Direct expenses are sometimes also described as "chargeable expenses".
Indirect expenses:- these are expenses which cannot be directly, conveniently and wholly allocated to cost centers or cost units.

OVERHEADS:- It is to be noted that the term overheads has a wider meaning than the term indirect expenses overheads include the cost of indirect material, indirect labour besides indirect expenses.

Indirect expenses may be classified under the following three categories:-
(a) Manufacturing (works, factory or production) expenses:-

Such indirect expenses which are incurred in the factory and concerned with the running of the factory or plant are known as manufacturing expenses. Expenses relating to production management and administration are included there in. Following are a few items of such expenses:
Rent, rates and insurance of factory premises, power used in factory building, plant and machinery etc.
(b) Office and Administrative expenses

These expenses are not related to factory but they pertain to the management and administration of business such expenses are incurred on the direction and control of an undertaking example are :- office rent, lighting and heating, postage and telegrams, telephones and other charges; depreciation of office building, furniture and equipment, bank charges, legal charges, audit fee etc.
(c) Selling and Distribution Expenses:-

Expenses incurred for marketing of a commodity, for securing orders for the articles, dispatching goods sold, and for making efforts to find and retain customers are called selling and distribution expenses examples are:-
Advertisement expenses cost of preparing tenders, traveling expenses, bad debts, collection charges etc.
Warehouse charges packing and loading charges, carriage outwards, etc.
The above classification of different elements of cost can be presented in the form of the following chart:


## OR



## Items excluded from cost accounts

There are certain items which are included in financial accounts but not in cost accounts. These items fall into three categories:-

## Appropriation of profits

(i) Appropriation to sinking funds.
(ii) Dividends paid
(iii) Taxes on income and profits
(iv) Transfers to general reserves
(v) Excess provision for depreciation of buildings, plant etc. and for bad debts
(vi) Amount written off - goodwill, preliminary expenses, underwriting commission, discount on debentures issued; expenses of capital issue etc.
(vii) Capital expenditures specifically charged to revenue
(viii) Charitable donation

## Matters of pure finance

(a) Purely financial charges:-
(i) Losses on sale of investments, buildings, etc.
(ii) Expenses on transfer of company's office
(iii) Interest on bank loan, debentures, mortgages, etc.
(iv) Damages payable
(v) Penalties and fines
(vi) Losses due to scrapping of machinery
(vii) Remuneration paid to the proprietor in excess of a fair reward for services rendered.
(b) Purely financial incomes:-
(i) Interest received on bank deposits
(ii) Profits made on the sale of investments, fixed assets, etc.
(iii) Transfer fees received
(iv) Rent receivable
(v) Interest, dividends, etc. received on investments.
(vi) Brokerage received
(vii) Discount, commission received

## Abnormal gains and losses:-

(i) Losses or gains on sale of fixed assets.
(ii) Loss to business property on account of theft, fire or other natural calamities.

In addition to above abnormal items (gain and losses) may also be excluded from cost accounts. Alternatively, these may be taken to costing profit and loss account.

## Components of total cost

Prime cost: - It consists of costs of direct material, direct labour and direct expenses. It is also known as basic, first or flat cost.

Factory cost:- It comprises of prime cost and in addition works of factory overheads which includes costs of indirect material, indirect labour and indirect expenses of the factory. The cost is also known as works cost, production or manufacturing cost.

Office cost: - If office and administrative overheads are added to factory cost office cost is arrived at this is also termed as administrative cost or the total cost of production.

Total cost:- Office cost or total cost of production selling and distribution overheads are added to the total cost of production to get the total cost or the cost of sales.
Cost of sales or total cost. The various components of total cost can be depicted through the help of the following chart:-

## Components of Total cost



Prime cost or Direct cost or First cost
Prime cost plus works cost or factory or production cost or manufacturing Works overheads cost

Work cost plus office and Administrative overheads $\}$

Office cost plus selling And distribution overheads $\}$

## Adjustments for inventories

The following adjustments may have to be made for inventories of raw materials, work - in - progress and finished goods while computing the different components of cost:

|  | Direct | = | Opening stock Purchases |  | Closing stock of Direct |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Material |  | of Direct | + Direct |  |
|  | Consumed |  | material | material | material |
| (ii) | Works | Gross | works | Opening work - | Closing work |
| - in |  |  |  |  |  |
|  |  | = |  | + |  |
|  | Cost | cost |  | in - progress | progress |
| (iii) stod | $\begin{aligned} & \text { Cost of pr } \\ & \text { ck } \end{aligned}$ | tion | $=$ cost of prod | duction + Openin | Closing |
| fini | of goods shed good |  |  | of finis | of |


| Particular | Details (Rs) | Amount (Rs) |
| :---: | :---: | :---: |
| Raw material purchased |  |  |
| Add:- Opening stock of raw material |  |  |
| Raw material for consumption |  |  |
| Less:- closing stock of raw material |  |  |
| Raw material consumed |  |  |
| Less:- Sale of wastage of materials |  |  |
| Add:- Direct labour |  |  |
| Add:- Direct chargeable expenses |  |  |
| Prime cost <br> Add:- Factory overhead |  |  |
| Rent \& Taxes |  |  |
| Factory Power |  |  |
| Experimental charges |  |  |
| Factory cost |  |  |
| Add:- Administrative overhead:- |  |  |
| Office management salary |  |  |
| Office printing \& stationery |  |  |
| Cost of production <br> Add:- Opening stock of finished goods |  |  |
| Goods available for sales |  |  |
| Less:- closing stock of finished goods |  |  |
| Cost of goods sold |  |  |
| Add:- selling and distribution overhead:- |  |  |
| Salaries of salesman |  |  |
| Commission to traveling agent |  |  |
| Cost of sales |  |  |
| Profit |  |  |
| Sales |  |  |

Illustration 1. Calculate prime cost from the following information:-
Direct material - Rs. 40,000, Direct labour - Rs. 30,000 Direct expenses - Rs. 25.000

Solution: Prime cost = Direct Material + Direct labour + Direct expenses

$$
\begin{aligned}
& =\text { Rs. } 40,000+\text { Rs.30, } 000+\text { Rs. } 25,000 \\
& =\text { Rs. } 95,000
\end{aligned}
$$

Illustration 2. Calculate prime cost from the following information:-
Opening stock of raw material = Rs. 12,500
Purchased raw material = Rs. 75,000
Expenses incurred on raw material = Rs. 5,000
Closing stock of raw material = Rs. 22,500
Wages Rs. 47,600 Direct expenses Rs. 23,400
Solution: - Calculation of raw material consumed:-
Raw material consumed = Opening stock of material + purchases of Raw material + expenses incurred on raw material - closing stock of raw material
$=$ Rs $12,500+$ Rs 75,000 + Rs 5,000 - Rs 22,500
= Rs. 92,500 - Rs 22,500
= Rs. 70,000
Prime cost = Raw material consumed + Direct labour + Direct expenses
$=$ Rs 70,000 + Rs 47,600 + Rs 23,400
= Rs 1, 41,000
OR

It can be shown in vertical form such as cost sheet

| Particular | Details (Rs) | Amount (Rs) |
| :---: | :---: | :---: |
| Opening stock of raw material | 12,500 |  |
| Add:- Purchase | 7,500 |  |
| Add:- Expenses incurred on purchases | 5,000 |  |
| Raw material available | 92,500 |  |
| Less :- closing stock of raw material | 22,500 |  |
| Raw material consumed |  | 70,000 |
| Add:- Direct wages or labour |  | 47,600 |
| Add:- Direct expenses |  | 23,400 |

Illustration 3. Calculate works cost or factory cost from the following details:-

| Raw material consumed | $=$ Rs 50,000 |
| :--- | :--- |
| Direct wages | $=$ Rs 20,000 |
| Direct expenses | $=$ Rs 10,000 |
| Factory expenses $80 \%$ of direct wages |  |
| Opening stock of work in progress | $=$ Rs 15,000 |
| Closing stock of work in progress | $=$ Rs 21,000 |

## Solution: - Calculation of factory cost

| Particular | Amount (Rs) | Amount (Rs) |
| :---: | :---: | :---: |
| Direct material consumed | 50,000 |  |
| Add:- Direct wages | 20,000 |  |
| Add:- Direct Expenses | 10,000 |  |
| Prime cost |  | 80,000 |
| Add:- Factory expenses |  | 16,000 |
| Current manufacturing cost |  | 96,000 |
| Add:- Opening stock of work in progress |  | 15,000 |
| Total goods processed during the period |  | 1,11,000 |
| Less:- Closing sock of work in progress |  | 21,000 |
| Factory cost or work cost |  | 90,000 |

Illustration 4. Calculate cost of production from the following information:-

Raw material purchased $=$ Rs 42,500
Freight paid $=$ Rs 5,000
Labour charges = Rs 12,500
Direct expenses = Rs 10,000

Factory overhead $80 \%$ of Direct labour charges
Administrative overhead = 10\% of work cost

|  | Opening stock | Closing stock |
| :--- | :--- | :--- |
| Raw material | 8,000 | 10,000 |
| Work in progress | 7,500 | 9,000 |

Solution: - Calculation of cost of production:-

| Particular | Amount (Rs) | Amount (Rs) |
| :---: | :---: | :---: |
| Material purchased | 42,500 |  |
| Add:- freight | 5,000 |  |
| Total cost of material purchased | 47,500 |  |
| Add:- Opening stock of Raw material | 8,000 |  |
| Material available for consumption | 55,500 |  |
| Less:- Closing stock of Raw material | 10,000 |  |
| Raw material consumed | 45,500 |  |
| Add:- Direct labour charges | 12,500 |  |
| Add:- Direct expenses | 10,000 |  |
| Prime cost |  | 68,000 |
| Add:- Factory overhead |  | 10,000 |
| Current manufacturing cost |  | 78,000 |
| Add:- Opening stock of work in progress |  | 7,500 |
| Total goods processed during the period |  | 85,500 |
| Less:- Closing stock of work in progress |  | 9,000 |
| Factory cost |  | 76,500 |
| Add:- Administrative overhead |  | 7,650 |
| Cost of production |  | 84,150 |

Illustration 5. Prepare cost sheet from the following particular in the book of B. M. Rehman
Raw material purchased = Rs. 1, 20,000
Paid freight charges = Rs 10,000
Wages paid to laborers = Rs 35,000
Directly chargeable expenses = Rs 25,000
Factory on cost $=20 \%$ of prime cost

General and administrative expenses $=4 \%$ of factory cost Selling and distribution expenses $=5 \%$ of production cost Profit 20\% on sales

Raw material
Work in progress
Opening stock
15,000
17,500
Closing stock
20,000
Finished goods
20,000
24,000
27,500

## Solution:-

## Book of B. M. Rehman <br> Cost sheet

| Raw material purchased | 1,20,000 |
| :---: | :---: |
| Add:- freight charges | 10,000 |
| Total cost of raw material purchased | 1,30,000 |
| Add:- opening stock of raw material | 15,000 |
| Cash of raw material available | 1,45,000 |
| Less:- closing stock of raw material | 20,000 |
| Raw material consumed | 1,25,000 |
| Add:- wages paid to labours | 35,000 |
| Add:- Directly chargeable expenses | 25,000 |


| Prime cost <br> Add:- Factory overhead $20 \%$ of prime cost | $\begin{array}{r} 1,85,000 \\ 37,000 \end{array}$ |
| :---: | :---: |
| Current manufacturing cost | 2,22,000 |
| Add:- Opening stock of work in progress | 17,500 |
| Total goods processed during the period | 2,39,500 |
| Less:- closing stock of work in progress | 24,000 |
| Factory on work cost | 2,15,500 |
| Add:- General \& administrative expenses $4 \%$ of factory cost | 8,620 |
| Cost of production | 2,24,120 |
| Add:- opening stock of finished goods | 20,000 |
| Goods available for sales | 2,44,120 |
| Less:- closing stock of finished goods | 27,500 |
|  | $2,16,620$ |
| Add:- selling and distribution expenses 5\% of production cost | 11,206 |
| Cost of sales | 2,27,826 |
| Add:- Profit | 56,956.50 |
| Sales | 2,84,782.50 |


| Opening stock: - | Raw material |  | Rs 5,000 |
| :---: | :---: | :---: | :---: |
|  | Finished goods |  | Rs 4,000 |
| Closing stock: - | Raw material | = | Rs 4,000 |
|  | Finished goods | = | Rs 5,000 |
|  | Raw material purchased | = | Rs 50,000 |
|  | Wages paid to laboures |  | Rs 20,000 |
|  | Chargeable expenses | = | Rs 2,000 |
|  | Rent and Taxes | = | Rs 7,400 |
|  | Power | = | Rs 3,000 |
|  | Experimental expenses | = | Rs 600 |
|  | Sale of wastage of material | = | Rs 200 |
|  | Office management salary | = | Rs 4,000 |
|  | Office printing \& stationery | = | Rs 200 |
|  | Salaries to salesman | = | Rs 2,000 |
|  | Commission to traveling agents | = | Rs 1,000 |

Sales $=$ Rs $1,00,000$

## Solution:-

## Book of B. M. Rehman <br> Cost sheet

| Particular | Details (Rs) | Amount (Rs) |
| :---: | :---: | :---: |
| Raw material purchased | 50,000 |  |
| Add:- Opening stock of raw material | 5,000 |  |
| Raw material for consumption | 55,000 |  |
| Less:- closing stock of raw material | 4,000 |  |
| Raw material consumed | 51,000 |  |
| Less:- Sale of wastage of materials | 200 |  |
|  |  | 50,800 |
| Add:- Direct labour |  | 20,000 |
| Add:- Direct chargeable expenses |  | 2,000 |
| Prime cost <br> Add:- Factory overhead |  | 72,800 |
| Rent \& Taxes | 7,400 |  |
| Power | 3,000 |  |
| Experimental charges | 600 |  |
| Factory cost | ------------- | $\begin{aligned} & 11,000 \\ & 83,800 \end{aligned}$ |
| Add:- Administrative overhead:- |  |  |
| Office management salary | 4,000 |  |
| Office printing \& stationery | 200 |  |
|  | -------------- | 4,200 |
| Cost of production |  | 88,000 |
| Add:- Opening stock of finished goods |  | 4,000 |
| Goods available for sales |  | 92,000 |
| Less:- closing stock of finished goods |  | 5,000 |
| Cost of goods sold |  | 87,000 |
| Add:- selling and distribution overhead:- |  |  |
| Salaries of salesman | 2,000 |  |
| Commission to traveling agent | 1,000 |  |
|  | ---- | 3,000 |
| Cost of sales |  | 90,000 |
| Profit |  | 10,000 |


|  |  | $\cdots \cdots \cdots \cdots \cdots$ |
| ---: | ---: | ---: |
| Sales |  | $1,00,000$ |

Illustration 7. The cost of sale of production ' $A$ ' is made up as follows:-

| Material used in manufacturing | Rs 5,500 |
| :--- | :--- |
| Material used in packing material | Rs 1,000 |
| Material used in selling the product | Rs 150 |
| Material used in the factory | Rs 175 |
| Material used in the office | Rs 125 |
| Labour required in production | Rs 1,000 |
| Labour required for supervision in factory | Rs 200 |
| Expenses direct factory | Rs 500 |
| Expenses indirect factory | Rs 100 |
| Expenses office | Rs 125 |
| Depreciation of office building | Rs 75 |
| Depreciation on factory plant | Rs 175 |
| Selling expenses | Rs 350 |
| Freight on material | Rs 500 |
| Advertising | Rs 125 |

Assuming that all products manufactured and sold, what should be the selling price be fixed to obtain a profit of $20 \%$ on selling price.
Solution

## Cost Sheet

| Particular | Amount (Rs) | Amount (Rs) | Amount (Rs) |
| :---: | :---: | :---: | :---: |
| Direct material:- |  |  |  |
| Material used in manufacturing |  | 5,500 |  |
| Material used in Packing material |  | 1,000 |  |
| Freight on material |  | 500 |  |
|  |  | ------------- | 7,000 |
| Direct wages:- |  |  |  |
| labour require in production |  |  | 1,000 |
| Direct expenses:- Direct factory |  |  | 500 |
| Prime cost <br> Add:- Factory overhead |  |  | 8,500 |
| Indirect material used in factory |  | 75 |  |
| Indirect labour required for supervision |  | 200 |  |
| Indirect factory expenses | 100 |  |  |
| Depreciation factory | 175 |  |  |
|  | ------------ | 275 |  |


| Factory on works cost <br> Add:- office \& administrative expenses |  | ------------ | $\begin{array}{r} 550 \\ 9050 \end{array}$ |
| :---: | :---: | :---: | :---: |
| Indirect material |  | 125 |  |
| Indirect expenses office | 125 |  |  |
| Indirect depreciation | 75 |  |  |
|  | ----------- | 200 |  |
| Total cost of production |  | --- | 325 9375 |
| Add:- selling and distribution overhead:- |  |  |  |
| Indirect material |  | 150 |  |
| Indirect expenses | 350 |  |  |
| Advertisement | 125 |  |  |
|  |  | 475 |  |
|  |  | ------------ | 625 |
| Cost of sales |  |  | 10,000 |
| Profit |  |  | 2,500 |
| Sales |  |  | 12,500 |

## Illustration 8.

Prepare a statement of cost from the following trading and P/L account for the year ending March 31, 2008

| Particular | Amount (Rs) | Particular | Amount (Rs) |
| :---: | :---: | :---: | :---: |
| To opening stock material | 12,000 | By sales | 2,00,000 |
| Finished goods | 40,000 | By closing stock material | 20,000 |
| To purchases | 1,20,000 | Finished goods | 50,000 |
| To cost of moulds | 3,000 |  |  |
| To salary of factory manger | 1,000 |  |  |
| To depreciation of machine | 800 |  |  |
| To gross profit | 63,200 |  |  |
|  | 2,70,000 |  | 2,70,000 |
| To office salary | 9,000 | By Gross profit | 63,200 |
| To salesman salary | 6,000 | By interest from bank | 800 |
| To insurance of office building | 1,000 | By dividend received | 200 |
| To godown expenses | 800 | By rent received | 900 |
| To directors fees | 2,000 |  |  |


| To telephone charges | 700 |  |
| :---: | :---: | :---: |
| To showroom expenses | 1,200 |  |
| To delivery van expenses | 1,500 |  |
| To preliminary expenses | 2,000 |  |
| To interest on deb. | 700 |  |
| To market research exp. | 600 |  |
| To net profit | 39,000 |  |
|  | 65,100 | 65,100 |

## Solution

Statement of cost
(For the year ending 31 ${ }^{\text {st }}$ March 2008)

| Particular | Details (Rs) | Amount (Rs) |
| :---: | :---: | :---: |
| Direct material:- |  |  |
| Raw material purchased | 1,20,000 |  |
| Add:- opening stock of raw materials | 12,000 |  |
| Raw material for consumption | 1,32,000 |  |
| Less:- Closing sock of raw materials | 20,000 |  |
| Raw material consumed | 1,12,000 |  |
| Add:- Direct labour | 30,000 |  |
| Prime cost <br> Add:- Factory overhead:- |  | 1,42,000 |
| Cost of moulds | 3,000 |  |
| Factory manager salary | 1,000 |  |
| Depreciation on machinery | 800 |  |
|  | --..-.......---- | 4,800 |
| Factory cost <br> Add:- office and administrate overhead |  | 1,46,800 |
| Salary | 9,000 |  |
| Insurance | 1,000 |  |
| Directors fees | 2,000 |  |
| Telephone charges | 700 |  |
|  | ------- | 12,700 |
| Cost of production <br> Add:- Opening stock of finished goods |  | $\begin{array}{r} 1,59,500 \\ 40,000 \end{array}$ |
| Goods available for sales |  | 1,99,500 |
| Less:- Closing stock of finished goods |  | 50,000 |
| Cost of goods sold |  | 1,49,500 |


| Add:- selling \& distribution ext:- |  |  |
| :---: | :---: | :---: |
| Salesman's salary | 6,000 |  |
| Insurance (godown) | 800 |  |
| Showroom expenses | 1,200 |  |
| Expenses of delivery van | 1,500 |  |
| Market research expenses | 600 |  |
|  | ------------- | 10,100 |
| Cost of sales |  | 1,59,600 |
| Profit |  | 40,400 |
| Sales |  | 2,00,000 |

## Illustration 9.

The following inventory data relate to Nazia Ltd.
Inventories

Finish goods
Work in progress
Raw materials

Opening
Rs 1,100
Rs 700
Rs 900

Closing
Rs 950
Rs 800
Rs 950

## Additional information:-

Cost of goods available for sales = Rs 6840
Total goods processed during the period = Rs 6540
Factory on cost
= Rs 1670
Direct material used = Rs 1930
Requirements:-
(i) determine raw material purchase
(ii) determine the direct labour and cost incurred
(iii) determine the cost of goods sold

## Solution

(i) Raw material purchased:-

Raw material consumed $=$ opening stock + purchases - closing
stock
OR Rs 1,930 = Rs 900 + Purchases - Rs 950
OR Rs 1,930 + Rs 50
= purchases
Rs $1,980 \quad=\quad$ Raw material purchased
(ii) Direct labour cost:-

Cost of goods processed during the year = Rs 6,540
Less: - Opening work in progress
= Rs 700

| Less: - Factory overheads | $\begin{aligned} & \text { Rs } 5,840 \\ = & \text { Rs } 1,670 \end{aligned}$ |
| :---: | :---: |
| Prime cost | $=$ Rs 4,170 |
| Less: - Raw material consumed | = Rs 1930 |
| Direct labour cost | $=$ Rs 2,240 |

(iii) Cost of goods sold:-
= cost of goods available for sales - closing stock finished goods
= 6840-950 = Rs 5890

## Illustration 10.

Mr. Zia furnishes the following data related to the manufacture of a standard product during the month of August 2008

| Raw material consumed | - | Rs 15,000 |
| :--- | :--- | :--- |
| Direct labour | - | Rs 5,000 |
| Machine hours worked | - | Rs 900 |
| Machine hour rate | - | Rs 5 |
| Administration overheads | $=$ | $20 \%$ of works cost |
| Selling overheads | - | Rs 0.50 per unit |
| Unit produced | - | Rs 17,100 |
| Unit sold | - | 16,000 @ Rs 4 per unit |

You are required to prepare a cost sheet from the above showing:-
(a) The cost per unit
(b) Cost per unit sold and profit for the period

Solution

## Book of Zia <br> Cost sheet <br> (For the month of August 31, 2008)

| Particular | Amount (Rs) | Amount (Rs) |
| :---: | :---: | :---: |
| Direct material consumed | 15,000 | 0.878 |
| Direct labour | 5,000 | 0.292 |
| Direct expenses | 4,000 | 0.233 |
| Prime cost | 24,000 | 1.403 |
| Factory overheads ( 900 hours @ Rs 5 per hour) | 4,500 | 0.263 |



$$
\begin{aligned}
\text { * Closing stock } & =\text { unit produced }- \text { units sold } \\
& =17100-16000 \\
& =1100 \text { units }
\end{aligned}
$$

## Exercise Questions.

Theoretical Questions:-

1) Explain the meaning of cost accountancy
2) Define
a) Direct materials
b) Direct wages
c) Direct expenses
3) What is cost accounting? Discuss briefly its important functions in a business firm
4) Explain the important objectives of cost accounting?
5) Distinguish between:-
a) Direct expenses and indirect expenses?
b) Direct labour and indirect labour?
c) Direct materials and indirect materials?
6) Distinguish between 'costing' and 'cost accounting'
7) What is financial accounting? How it is different from cost-accounting?
8) Mention the elements of cost
9) Explain the classification of direct labour
10)How the overheads are different from the expenses?
11)State at least five each type of overheads
a) Factory overheads
b) Administrative overheads
c) Selling and distribution overheads
10) What are the components of direct cost?
11) Write the formula of calculating the raw material consumed
12) Explain the meaning of cost of goods sold and cost of sales
13) Explain the meaning of
a) First cost
b) Works cost and works on cost
c) Cost of production and goods available for sales

## Practical problems (Short Answers)

1. Opening stock of raw material

Closing stock of raw material Material purchased Find raw material consumed

- Rs 15,000
- Rs 20,000
- Rs 1, 20,000
(Ans. 1, 15,000)

2. Raw material consumed

- Rs 1, 02,000
- Rs 1, 10,000

Raw material for consumption
Raw material purchased

- Rs 1, 00,000

Find opening \& closing stock of raw material (Ans. Rs 10,000 and Rs 8,000)
3. Prime cost

- Rs 1, 85,000

Current manufacturing cost

- Rs 2, 22,000

Total goods processed during the period

- Rs 2, 39,500

Works cost

- Rs 2, 15,000

Find factory overheads, opening and closing stock of work in progress (Ans. Rs 37,000, Rs 17,500 and Rs 24,000)
4. Cost of production

Goods available for sales
Cost of goods sold
Cost of Sales
Sales

- Rs 11,206
- Rs 12,206
- Rs 10,831
- Rs 11, 391
- Rs 12,000

Find opening and closing stock of finished goods, selling expenses and profit or loss (Ans. Rs 1,000, Rs 1,375, Rs 560 and Rs 609 profit)
5. Direct material consumed

Direct labour 50\% of material consumed Direct expenses
Factory overheads
Office overheads
Find office cost

- Rs 60,000
$33^{1 / 3 \%}$ of direct labour 40\% of direct labour on cost $66^{2} / 3 \%$ of works
(Ans. Rs 1, 20,000)


## PRACTICAL PROBLEMS

1. From the following particulars prepare a cost sheet showing the total cost per tone for the period ended $31^{\text {st }}$ December 1998

|  | Rs |  | Rs |
| :--- | ---: | :--- | ---: |
| Raw material | 33,000 | Director's fees (office) | 2,000 |
| Productive wages | 35,000 | Factory cleaning | 500 |
| Direct expenses | 3,000 | Sundry office expenses | 200 |
| Unproductive wages | 10,500 | Estimating | 800 |
| Factory rent and terms | 7,500 | Factory stationery | 750 |
| Factory lighting | 2,200 | Office stationery | 900 |
| Factory heating | 1,500 | Factory insurance | 1,100 |
| Motive power | 4,400 | Office insurance | 500 |
| Haulage | 3,000 | Legal expenses | 400 |
| Director's fees (works) | 1,000 | Rent of warehouse | 300 |
| Depreciation of |  | Unkeeping of delivery vans | 700 |
| - plant and machinery | 2,000 | Bank charges | 50 |
| - office building | 1,000 | Commission on sales | 1,500 |
| - delivery vans | 200 | Loose tools written off | 600 |
| Bad debts | 100 | Rent and taxes (office) | 500 |
| Advertising | 300 | Water supply | 1,200 |
| Sales department | 1,500 |  |  |
| salaries |  |  |  |

The total output for the period has been 10,000 tones.
(Ans. Prime cost Rs 71,000 works cost Rs 1,08,050 office cost Rs 1,13,600 total cost Rs 1,18,200 cost per tone Rs 11.82)
2. Prepare a cost sheet to show the total cost of production and cost per unit of goods manufactured by a company for the month of July 1994. Also find out the cost of sales.

|  | Rs |  | Rs |
| :---: | :---: | :---: | :---: |
| Stock of raw materials | 3,000 | Factory rent \& rates | 3,000 |
| 1-7-1994 |  |  |  |
| Raw materials purchased | 28,000 | Office rent | 500 |
| Stock of raw materials | 4,500 | General expenses | 400 |
| 31-7-1994 |  |  |  |
| Manufacturing wages | 7,000 | Discount on sales | 300 |
| Depreciation on plant | 1,500 | Advertisement | 600 |
| Loss on sale of a part of plant | 300 | Expenses to be charged fully income tax paid | 2,000 |

The number of units produced during July 1994 was 3,000
The stock of finished goods was 200 and 400 units on 1-7-1994 and 31-7-1994 respectively. The total cost of units on hand on 1-7-1994 was Rs 2,800. All these had been sold during the month.
(Ans. Prime cost Rs 33,500 factory cost Rs 38,000 cost of production Rs 38,900 cost of sales Rs 37416)
3. The following particulars relating to the year 1994 have been taken from the books of a chemical works manufacturing and selling a chemical mixture:

|  | Rs | Rs |
| :---: | :---: | :---: |
| Stock on $1^{\text {st }}$ Jan. 1994 |  |  |
| Raw materials | 2,000 | 2,000 |
| Finished mixture | 500 | 1,750 |
| Factory stores | ------ | 7,250 |
| Purchases |  |  |
| Raw materials | 1,60,000 | 1,80,000 |
| Factory stores | ------ | 24,250 |
| Sales |  |  |
| Finished mixture | 1,53,050 | 9,18,000 |
| Factory scrap | ------ | 8,170 |
| Factory wages | ------ | 1,78,650 |
| Power | ------ | 30,400 |
| Depreciation of machinery | ----- | 18,000 |
| Salaries |  |  |
| Factory | ------ | 72,220 |
| Office | ------ | 37,220 |
| Selling | ------ | 41,500 |
| Expenses |  |  |
| Direct | ------ | 18,500 |
| Office | ------ | 18,200 |
| Selling Stock $31^{\text {st }}$ December 1994 | ------ | 18,000 |
| Stock on 31 ${ }^{\text {st }}$ December 1994 |  |  |
| Raw material | 1,200 |  |
| Finished mixture | 450 |  |
| Factory stores | --- | 5,550 |

The stock of finished mixture at the end of 1994 is to be valued at the factory cost of the mixture for that year. The purchase price of raw-materials uncharged throughout 1994.

Prepare a statement giving the maximum possible information about cost and its break up for the year 1994.
(Ans. Prime cost Rs $3,77,800$ factory cost Rs $5,16,200$ cost of production of finished mixture sold Rs $5,71,852$ cost of sales Rs $6,31,352$ )
4. Calculate
a) Value of raw-materials consumed
b) Total cost of production
c) Cost of goods sold and
d) The amount of profit from the following particulars:

|  | Rs |  | Rs |
| :---: | :---: | :---: | :---: |
| Opening stock |  | Power | 2,000 |
| Raw - materials | 5,000 | Factory heating and lighting | 2,000 |
| Finished goods | 4,000 | Factory insurance | 1,000 |
| Closing stock |  | Experimental Expenses | 500 |
| Raw - materials | 4,000 | Sales of wastage of materials | 200 |
| Finished goods | 5,000 | Office management salaries | 4,000 |
| Raw - materials purchased | 50,000 | Office printing and stationery | 200 |
| Wages paid to labourers | 20,000 | Salaries of salesmen commission of traveling agent | 2,000 |
| Chargeable expenses | 2,000 |  |  |
| Factory rent, rates $\&$ taxes | 5,000 | Sales | 1,00,000 |

(Ans. (a) Rs 50,800, (b) Rs 87,500, (c) Rs 89,500, (d) Rs 10,500 )
[Hint sales of raw-materials wastage of Rs 200 has been deducted from the cost of raw-materials]
5. The cost of the sale of product ' $X$ ' is made up as follows:

|  | Rs |
| :--- | ---: |
| Materials used in manufacturing | 10,20 |
| Materials used in packing materials | 2,500 |


| Materials used in selling the product | 350 |
| :--- | ---: |
| Materials used in office | 75 |
| Materials used in factory | 125 |
| Labour required in producing | 2,500 |
| Salary paid to works manager and other principal officers of the | 450 |
| factory | 250 |
| Expenses - indirect office | 1,000 |
| Expenses - direct factory | 300 |
| Bad debts | 150 |
| Packing expenses | 200 |
| Lighting and heating charges of the factory | 125 |

Assuming that all the products manufactured are sold, what should be the selling price to obtain a profit of $20 \%$ on cost price?

Illustrate in a chart fork for presentation to your mange, the division of costs of product ' $X$ '
[Ans. Prime cost Rs 16,200, works cost Rs 17,100 cost of sales Rs 18,225 sales Rs 21,870]
6. Calculate the prime cost, factory cost, total cost of production and cost of sales from the following particulars:

|  |  | Rs. |
| :---: | :---: | :---: |
| Raw materials consumed |  | 12,000 |
| Directly chargeable expenses |  | 500 |
| Wages paid to labourers |  | 2,500 |
| Grease, oil, cotton waste etc. |  | 25 |
| Salary manager and clerks |  | 1,750 |
| Insurance of stock of raw materials |  | 300 |
| Consumable stores |  | 400 |
| Printing and stationery: |  |  |
| Factory | 50 |  |
| Office | 200 |  |
| Sales deptt. | 100 |  |
|  | ----------- | 350 |
| Rent of office building |  | 150 |
| Depreciation : |  |  |
| Factory premises | 200 |  |
| Office furniture | 50 |  |
| Delivery vans | 75 |  |
|  | -------- | 325 |


| Power and fuel |  |
| :--- | ---: |
| Contribution to provident fund of factory employees | 500 |
| Salaries of administrative directors | 1,000 |
| Bank charges | 100 |
| Cost of samples | 75 |
| Salaries of sales manger | 250 |
| Advertising | 300 |
| Packing material | 500 |
| Storage in stocks of finished goods | 350 |

[Ans. Prime cost Rs 15,000, factory cost Rs 19225 total cost of production Rs 19,800 cost of sales Rs 21,395]

## 7. Calculate

a) Value of raw-materials consumed
b) Total cost of production
c) Cost of goods sold and
d) The amount of profit from the following particulars:

|  |  | Rs |
| :--- | ---: | ---: |
| Opening stock: |  |  |
| Raw materials |  | 1,350 |
| Finished goods |  | 2,500 |
| Closing stock: |  | 750 |
| Raw-materials |  | 1,500 |
| Finished goods |  | 20,000 |
| Raw materials purchased |  | 1,000 |
| Wages paid to labourers |  | 450 |
| Direct expenses |  | 350 |
| Experimental expenses |  |  |
| Factory printing and stationery |  |  |
| Rent : |  |  |
| Factory |  | 370 |
| Office |  | 1,000 |
|  |  | 125 |
| Wages of fireman |  | 150 |
| Lighting - office |  | 500 |
| Audit fees |  | 1,250 |
| Telephone expenses | 550 |  |
| Advertising |  | 175 |
| Market research expenses |  | 750 |
| Salary of godown - keepers |  | 500 |
| Traveling expenses |  | 50,000 |
| Commission of traveling agent |  |  |
| Sales |  |  |

[Ans. (a) value of raw - materials consumed Rs. 20,600 (b) Total cost of production Rs 32,795, (c) cost of goods sold Rs 33,795, (d) profit Rs 12,980]
8. Prepare a statement of cost from the following trading and profit and loss account for the year ending $31^{\text {st }}$ March, 1995.

| Particulars | Rs | Particulars | Rs |
| :---: | :---: | :---: | :---: |
| Opening stock: |  | Sales | 1,00,000 |
| Materials | 8,000 | Closing stock: |  |
| Finished goods | 25,000 | Materials | 15,000 |
| Purchase of materials | 70,000 | Finished goods | 30,000 |
| Direct labour | 10,000 |  |  |
| Grease, oil etc. | 500 |  |  |
| Salary of storekeeper | 700 |  |  |
| Power \& fuel | 800 |  |  |
| Gross profit c/d | 30,000 |  |  |
|  | 1,45,000 |  | 1,45,000 |
| Lighting: |  | Gross profit b/d | 30,000 |
| Office | 500 | Dividends received | 2,000 |
| Sales deptt. | 650 | Interest on loan | 600 |
| Depreciation: |  | Transfer fees | 1,450 |
| Office premises | 1,000 | Received |  |
| Delivery vans | 750 |  |  |
| Fees of office manager | 2,000 |  |  |
| Bank charges | 1,500 |  |  |
| Selling expenses | 1,500 |  |  |
| Sales commission | 500 |  |  |
| Preliminary expenses | 3,000 |  |  |
| Packing expenses | 1,100 |  |  |
| Dividends paid on | 1,000 |  |  |
| Share capital of company |  |  |  |
| Discount on debentures | 500 |  |  |
| Net profit | 20,000 |  |  |
|  | 34,000 |  | 34,000 |

[Ans. Prime cost Rs 73,000, works cost Rs 75,000, total cost of production Rs 80,000 cost of goods sold Rs 75000 cost of sales Rs 79,000 profit Rs 21,000]
9. The following data relate to the manufacture of standard product during the four week ending on $28^{\text {th }}$ Oct. 1994.

| Raw materials consumed | Rs 20,000 |
| :--- | ---: |
| Direct wages | Rs 12,000 |
| Machine hr worked | 950 (hrs) |
| Machine hour rate | Rs 2.00 |
| Office overhead 15\% on works cost | Rs 0.37 per unit |
| Selling overhead | 20,000 |
| Units produced | 18,000 |
| Units sold @ Rs 2.50 each |  |
| Prepare a statement from the above showing: |  |
| (a) The cost of production per unit, and |  |
| (b) The profit for the period |  |

[Ans. (a) Rs 1,949 (b) Rs 3,258
10. A firm has purchased a plant to manufacture a new product, the cost data for which is given below:

| Estimated annual sales | 24,000 units |
| :--- | ---: |
| Estimated costs: | Rs 4.00 per unit |
| Material | Rs 0.60 per unit |
| Direct labour | Rs 24,000 per year |
| Overheads | Rs 28,800 per year |
| Administrative expenses | $15 \%$ of sales |
| Selling expenses |  |
| Calculate the selling price if profit per unit is Rs 1.02 |  |

[Ans. Rs 9.20]
11. Prepare a cost sheet from the following data to find out profit and cost per unit:

| Raw materials consumed | Rs 1,60,000 |
| :--- | ---: |
| Direct wages | Rs 80,000 |
| Factory overheads 20\% of direct wages |  |
| Office overheads 10\% of factory cost | 12,000 |
| Selling overheads | 4,000 |
| Unit produced | 3,600 |
| Units sold | Rs 100 per unit |
| Selling price |  |

[Ans. Prime cost Rs 2,40,000, factory cost Rs 2,56,000, cost of production Rs 2,81,600, cost of sales Rs $2,65,440$, profit Rs 94,560 ]

