

**ACCOUNTS & FINANCE**  
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# ACCOUNTING AND FINANCE

## CONTENTS

| <b>Chapter No.</b> | <b>Chapter Name</b>                          | <b>Page No.</b> |
|--------------------|--|-----------------|
| 1.                 | Accounting Concepts and                      | 1.1 – 1.12      |
| 2.                 | Accounting Standards                         | 2.1 – 2.11      |
| 3.                 | Double Entry System                          | 3.1 – 3.13      |
| 4.                 | Journal – Ledger                             | 4.1 – 4.24      |
| 5.                 | Subsidiary Books                             | 5.1 – 5.19      |
| 6.                 | Cash Book                                    | 6.1 – 6.28      |
| 7.                 | Bank Reconciliation Statement                | 7.1 – 7.27      |
| 8.                 | Trial Balance                                | 8.1 – 8.13      |
| 9.                 | Final Accounts – I                           | 9.1 - 9.42      |
| 10.                | Final Accounts (with adjustments)            | 10.1 – 10.64    |
| 11.                | Cost Accounting – Nature & Significance      | 11.1 – 11.16    |
| 12.                | Cost Classification and analysis             | 12.1 – 12.42    |
| 13.                | Budgeting and Budgetary Control              | 13.1 –13.35     |
| 14.                | Financial Management : Nature & Significance | 14.1 – 14.13    |
| 15.                | Finance Function                             | 15.1 – 15.11    |
| 16.                | Financial Analysis                           | 16.1 – 16.69    |
| 17.                | Funds Flow Analysis                          | 17.1 – 17.66    |
| 18.                | Cash Flow Analysis                           | 18.1 – 18.36    |
| 19.                | Ratio Analysis                               | 19.1 – 19.47    |
| 20.                | Working Capital Management                   | 20.1 – 20.18    |

## Chapter – 1

# ACCOUNTING - CONCEPTS

### Objectives :

**After reading this unit we should be able to :**

- Understand the history of accounting
- Understand the definition, objectives, functions and branches of Accounting.
- Know the users of accounting information and the accounting information system.
- Have an understanding on the advantages and limitations of accounting

### Structure :

#### 1.1 Introduction

#### 1.2 History of Accounting

#### 1.3 Book Keeping and Accounting

#### 1.4 Functions of Accounting

#### 1.5 Users of Accounting Information

#### 1.6 Advantages of Accounting

#### 1.7 Limitations of Accounting

#### 1.8 Questions

#### 1.9 Suggested Readings

## 1.1 INTRODUCTION

All individuals and institutions depend on one another to satisfy their needs. To serve this purpose, they engage in exchange, which materializes into financial transactions (i.e., transactions carried out in terms of money). Business entities buy and sell goods, borrow and invest money, pay salaries to employees and incur expenses on rent and electricity, purchase land and buildings,

etc. To be able to manage finances efficiently, it becomes necessary to keep track of these cash inflows and outflows.

In the past, when transactions were limited and businesses were small, everybody relied on their memory. As businesses grew in size, the entrepreneurs had to rely on something more than their memory to keep track of their business transacted during the year. They had to keep a proper and systematic account of the amount invested, the amount gained or lost in a year, how much they owed and how much others owed to them. Thus, accounting came into being as an aid to the entrepreneur.

## 1.2 HISTORY OF ACCOUNTING

The art of Book – keeping existed even in ancient days before the dawn of the Double Entry Book – keeping method.

Financial and numerical records are found in nearly every civilization with a commercial background. Records of commercial contracts were found in the realm of Babylon. Accounts for both farms and estates were kept in Greece and Rome.

The Greeks and Romans had well – developed record keeping systems, especially for government affairs. The Emperor Augustus is said to have instituted a Government budget in A. D. 5. Somewhat later, inspectors from the Central Government in Rome were sent out to examine the accounts of provincial Governors. During the Middle Ages, Accounting and most other elements of learning and trade languished. With the emergence of a Barter Economy, the financial transactions that are the lifeblood of accounting tended to disappear. Only the church and strong monarchs maintained the earlier systems of record keeping and control. The revival of Italian Commerce in the 13<sup>th</sup> and 14<sup>th</sup> centuries created a need for Book – keeping. The first Double Entry systems of Book – keeping evolved during this period. There are extant sets of Double Entry records prepared in Genoa in 1340. Luca De Barge Piccolo provided the earliest systematic description of the Double Entry procedure in 1494. This method is known as the Italian method. It was translated into English and published in London in 1543.

Avail's treatise dealt with all the attributes of a Double Entry. It still serves as the basis for the far more complex accounting system of today. A further improvement in Book – keeping can be attributed to the industrial revolution.

## 1.3 BOOK – KEEPING AND ACCOUNTING

Book – keeping is the subject which is to be studied by the students of Commerce and by book – keepers and accountants. A study of this subject requires more practice and less of reading. A student of Accountancy should know the theoretical as well as the practical aspects of the subject.

First stage is called Book – Keeping and the second stage is Accounting.

1. **Book – keeping** : Book – Keeping involves the chronological recording of financial transactions in a set of books in a systematic manner.
2. **Accounting**: Accounting is concerned with the maintenance of accounts giving stress to the design of the system of records, the preparation reports based on the recorded data and the interpretation of the reports.

### 1.3.1 Distinction between Book – Keeping and Accounting

| Point of difference        | Book – Keeping   | Accounting  |
|----------------------------|--|---|
| 1. Meaning                 | Book – keeping is the art of recording business transactions in the book of original entry and posting them into ledger. | Accounting is the recording, classifying and summarising, the business transactions which are in terms of money and interpreting the results thereof. |
| 2. Responsible of a person | The person who does the task of Book – keeping is known as “Book – keeper”.  | The person who summarises and interprets the account is known as “Accountant”.  |
| 3. Nature of work          | Much of the work of a book – keepers is of a routine and clerical work.  | The work of an accountant is comprehensive, analytical and skilful.   |
| 4. Scope                   | The scope of Book – keeping is limited to the entries of original records.   | Its scope is wide as it includes the work of Book – keeping.  |
| 5. Dependence              | Its work is independent.   | Its work depends on the work of   |

|                                   |   | Book – keeping  |
|-----------------------------------|---|---|
| 6. Sequence of work               | Book – keeping comes first and accounting comes next.   | Accountant's work starts where Book – keeping.                        |
| 7. Working                        | In it the work of journalising, posting into ledger, totaling and balancing of accounts are done. | In it the work of checking the accuracy of the accounts.              |
| 8. Special knowledge and ability  | It does not require to possess any technical special knowledge.                                   | It requires to have a special knowledge of accounting and experience. |
| 9. Time of recording transactions | In it transactions are recorded on the same day when they take place.                             | The work of accounting is done at the end of the trading period.      |

### 1.3.2 Meaning of Accounting:

Book – keeping is an art of keeping accounts in regular and systematic fashion. It is also termed as accountancy or accounting. Now-a-days the sphere of business has become very vast. Every trader wants to sell his commodities at a price higher than their cost and thus wants to earn profit. In business, all transactions are not necessarily made in cash but through credit also. So, it is said that 'Credit is the soul of business'. Every businessman has limited memory and as such he cannot remember all the transactions. To know the correct financial position of the enterprise, it becomes imperative for the businessman to record all the transactions in the book is called 'Book – keeping' or 'Accounting'.

### 1.3.3 Definition of Accounting:

Accounting may be defined as the science as well as the art of recording financial transactions under appropriate accounts.

According to Smith and Ashburne, "Accounting is a science of recording and classifying the business transactions and events, primarily of a financial character and the art of making significant summaries, analysis and interpretations of these transactions and events and communicating the results to persons who must make decisions or from judgements."

According to the American Institute of Certified Public Accountants, "Accounting is the art of recording, classifying and summarising in a significant manner and in terms of money transactions and events which in part, at least of a financial character, and interpreting the result thereof.

Accounting can, therefore, be defined as:

Accounting is the art of recording, classifying and summarising 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.

#### 1.3.4 Objectives of Accounting:

The objects of accounting are manifold. These are enumerated below:

- (i) **To keep systematic record:** The main object of accounting is to keep the record of day to day transactions in a systematic manner. At first the transactions are recorded in the journal in chronological order and then from the journal transactions are posted to the Ledger and from the Ledger. Trial balance and final Accounts are prepared.
- (ii) **To find out the true profit / loss:** Profit is the main provocation to keep the businessman and around the business. Hence, he is always interested to find out the true profit or loss during a given period.
- (iii) **To know the financial position on a particular date:** One can know at a glance the financial position or soundness of a business on a particular date if accounts are maintained properly.
- (iv) **To communicate the information to the interested parties:** The object of accounting is to provide information to the interested parties i.e., owner, manager, creditors, Government etc. at regular intervals through Financial statements.
- (v) **To help in planning and controlling various business activities:** Accounting supplies information to the manager at right time which helps him to plan the further course of action and to control the business resources by comparing the actual results with that of the pre – determined standards.
- (vi) **To meet Legal requirement:** Law compels the businessman to submit various statements such as sales tax return, income tax return, stock position etc. A business will be able to supply all those statements only if there is a proper accounting system.

### 1.3.5 Branches of Accounting:

To fulfil the various objectives, various branches of accounting have developed. The chief amongst these are the following:

- (i) **Financial Accounting:** It is one of the branch of accounting, the object of which is to ascertain the profit or loss made during a period and to state the financial position (Balance Sheet) of the business at the end of the period.
- (ii) **Cost Accounting:** It is one of the branch of accounting, the object of which is to ascertain the cost incurred for, carrying out the various activities and to enable management to exercise cost control.
- (iii) **Management Accounting:** It is also one of the branch of accounting, the object of which is to supply necessary information at appropriate time to the management to enable it to take decisions and effect control.

## 1.4. FUNCTIONS OF ACCOUNTING

The main functions of accounting can be given as follows:

- (i) It keeps a systematic and permanent record of all financial transactions of the business.
- (ii) It keeps a record of income and expenses in such a manner so that net results of the business can be quickly known for any period.
- (iii) It keeps a record of assets and liabilities in such a way that financial position of the business can be readily had at any point of time.
- (iv) It protects the property of the business by designing such a system of accounting which may be helpful to achieve this purpose.
- (v) It keeps a tract of all changes in the value of assets and liabilities.
- (vi) It keeps a control on expenses in order to minimise the same.
- (vii) It communicates the results of the business to the various categories of persons as owners, investors, creditors, employees, management, Government etc.
- (viii) It provides information for meeting various legal requirement as income – tax returns, returns for sales tax etc.
- (ix) It helps in making decisions concerning the acquisition use and preservation of scarce resources.



- (x) It helps in devising remedial measures for the deviation of the actual performance from the planned performance.

## 1.5 USERS OF ACCOUNTING INFORMATION

Accounting provides information to groups of people who are directly or indirectly interested in the performance and the financial position of a business enterprise. The accounting information helps them to understand the present position of the enterprise to compare its present and past performance as well as its performance with similar enterprises. The main sources of information for external users are annual, half – yearly and quarterly reports.

The various users of accounting information are internal and external users. External users comprise of creditors, investors, government and consumers while the internal users consist of the employees and management. The purpose for which they need accounting information is discussed below.

- 1. Creditors:** Creditors may be short – term or long – term lenders. They have to be paid at some agreed date in the future for providing goods and services on credit to the enterprise. The creditors are interested in the financial stability of a business before granting loans. This is because they have to assess whether the enterprise would be able to pay them back, and also the probability of a delay in payment.
- 2. Investors:** Investors of an enterprise include the existing as well as future shareholders (owners). Since the shareholders are concerned with the dividends (income) that they would receive from their share in the enterprise, they are interested in knowing how well the company would perform in the future. The profit and loss account as well as the balance sheet contain all the accounting information that the investors need.
- 3. Government:** The government's task of levying taxes and regulation of industries is facilitated if accounting information is presented in a uniform manner. The different departments of the government collect information on business activities such as levels of sales activity, profits, investment, dividend policy, and so on. This information is needed for framing various policies by the government.
- 4. Consumers:** Consumers and the public at large are interested in the accounting information in order to appraise the efficiency of the enterprise. The public might also be interested in the social role that the enterprise plays in different sectors of the economy. For

example, they may want to know the level of industrial pollution from a particular type of activity carried on by the business enterprise.

- 5. Management:** Accounting keeps the management informed of the various activities of an enterprise. It helps the managers to plan, control and evaluate the operations of the business. They also need such information for making various decisions. However, the type of accounting information needed by managers may vary with the size of the enterprise. For example, a manufacturing unit producing a number of products in small quantities may need accounting information about the profitability of each product. On the other hand, a large company operating through a number of branches would need information about the profitability of each of its branches.
- 6. Employees:** Employees of a business enterprise are interested in better salaries, bonus and other benefits, which in turn depend on the earnings of an enterprise. Hence, they need accounting information to know how safe their interests are in that organization. For example, the employees of an enterprise would be interested in knowing whether the enterprise is likely to survive and also if it is capable of paying increased salaries and benefits.

### 1.5.1 Accounting as an information system:

In the earlier times, the accounting work was totally manual and the accounting department used to take a long time in processing transactions and producing accounting reports. The modern system of computers has eliminated the redundancy and reduced the number of people involved in the processing of accounting information. There is automatic processing of transactions from electronic vouchers to the ledger. The accounting information system is divided into the following sub – systems:

- a. Cash system:** This system is concerned with the actual receipt and payment of cash as well as electronic fund transfer. Electronic fund transfer is made possible by using credit cards or e – banking.
- b. Sales and accounts receivable system:** This system deals with maintaining the 'Sales' ledger for credit sales and the 'receivables' ledger. This generates reports about collections made from debtors and the amount due from them.

- c. Accounts payable system:** This system deals with the 'credit purchase' any 'payments' ledger. It generates reports about the performance of suppliers and payments due to creditors.
- d. Inventory system:** This system is concerned with the recording of various items purchased and issued specifying the details of price, quantity and date. It provides the inventory position of the organization.
- e. Payroll accounting system:** This system deals with payment of wages and salaries to employees. It provides information about basic pay, dearness allowance and deductions made from salary and wages on account of provident funds, loans, taxes, etc. It also provides information on wage bills, overtime payment and payment on account of leave encashment, etc.
- f. Fixed assets accounting system:** This system includes information about purchase and sale of fixed assets. It is generated in the form of reports about the cost of depreciation and book value of different assets.
- g. Costing system:** this system is concerned with the ascertainment of cost of goods manufactured. The necessary information for the ascertainment of cost of raw material, labour, etc. is obtained from other systems.
- h. Budget system:** This system is concerned with the preparation of budget for the financial year and comparison of the current budget with the actual performance.

## 1.6. ADVANTAGES OF ACCOUNTING

Following are the advantages of accounting:

- 1. Facilitates preparation of final accounts:** Accounting helps in maintaining systematic records. This helps to establish the net result of a transaction during a period and state the financial position of a business at a particular date. All this enables the accountant to prepare the trading and profit and loss account for a particular accounting period.
- 2. Used as evidence in courts:** There are certain claims that are made against the firm and for the firm, in relation to outsiders. These claims can be confirmed by producing the systematic records as evidence in courts.

3. **Facilitates comparison:** Accounting enables the comparison of a business during a particular year with those of earlier years, and with similar other businesses. It also helps in taking corrective measures to improve the performance of a business.
4. **Replaces memory:** It is not possible to remember all the transactions that take place during a period. They are, therefore, recorded promptly in the books so that information is available when required.
5. **Helpful to management:** Accounting provides information to the management, which can be useful for making rational decisions such as being able to identify reasons for the profits earned or losses suffered. This helps in taking necessary steps to increase profits further or to prevent losses. The recording of various assets enables the management to exercise proper control over them in terms of the position of bank balance, inventories, money owed by customers, etc.
6. **Helpful in tax settlement:** Properly maintained accounts provide necessary information to the tax authorities, which levy customs duty, excise duty, sales and income taxes on the business. The tax authorities could be convinced about the taxable income or actual sales, as the case may be, with the help of written records. Hence, it helps in settling the tax liability of the business since the accounts reveal the profits earned or losses suffered.

## 1.7 LIMITATIONS OF ACCOUNTING

In spite of various advantages, accounting has the following limitations:

1. **Ignores qualitative aspect:** In accounting, only those transactions and events are recorded that are financial in nature or expressed in terms of a monetary unit. Non – monetary items that may be significant are not recorded. Hence, accounting does not give information on qualitative matters such as usefulness or efficiency of a particular transaction.
2. **Ignores price level changes:** Accounting information is expressed in monetary terms and it is assumed that the value of money remains stable over time. However, this does not happen. The change in prices, in many cases, is not accounted for and hence the accounting information does not show the true financial results. For example, assets like land and building remain undervalued in such cases.

3. **Personal judgement:** Financial statements are influenced by the personal judgement of the accountant. The financial statements may no longer be objective due to this reason.
4. **Inexact information:** Financial statements may not reflect the realistic position of an enterprise as some of the information is based on estimates, which may not be accurate at all times. For instance, a company may value its stocks at a higher price than the actual market price.

## 1.8 QUESTIONS

### A. Short Answer Questions

1. Define Accounting.
2. What are various branches of Accounting?
3. What are accounting concepts?
4. What are accounting conventions?
5. What are accounting standards?
6. Explain the significance of the following accounting concepts.
  - (a) Dual Aspect Concept
  - (b) Business entity concept
  - (c) Going concern concept
  - (d) Cost Concept
  - (e) Accrual Concept.

### B. Essay Questions

1. What is Book-keeping? Distinguish between Book-keeping and Accounting.
2. Explain the functions of Accounting.
3. Explain how accounting is useful to various users.
4. Explain the advantages and limitations of Accounting.
5. What do you mean by Accounting Principles? Explain the features of Accounting Principles.
6. What are the main Accounting Concepts? Narrate them briefly.
7. What are the Accounting Conventions? Explain them in brief
8. 'Materiality is a Relative Term' Comment

9. `Business has Indefinite Life' Explain this in the light of Going Concern Concept.

## 1.9 SUGGESTED BOOKS

1. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
2. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
3. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
4. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
5. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

**Chapter – 2**

# ACCOUNTING STANDARDS

**Objectives :**

**After going through this lesson we may able to**

- Understand the need for accounting standards
- Know the formation of International and Indian Accounting Standards
- Prepare the list of International and Indian Accounting Standards

**Structure :**

**2.1 Need for Accounting**

**2.2 Purpose of Accounting Standards**

**2.3 Accounting Principles**

**2.4 Accounting Standards**

**2.5 Questions**

**2.6 Suggested Readings**

**2.1 NEED FOR ACCOUNTING STANDARDS :**

Kohler defines accounting standard as “A mode of conduct imposed on accountants by custom, law or professional body.” The purpose of an accounting standard is to serve as a working basis for the institution of procedure, subject to internal and external constraints imposed on the accountants, so as to ensure uniformity in the preparation and presentation of financial statements.

Accounting concepts and conventions form the basis of accounting theory and practice. They determine the rules applicable to accounting procedures. They have no statutory force and are based on the consensus. As such, if accountants as a group wish to change any of the accounting assumptions based on conventions, they are free to do so. The freedom that accountants enjoy in framing their own rules of procedure and making their own assumptions, have

led to a variety of accounting practices. Consequently, the financial results of different concerns cannot be compared and evaluated.

Further, the financial statements are intended to communicate financial information to various groups, called end-users to facilitate their decision making. But, the statements do not meet the specific requirements of external users. Although it is true that it is not the duty of the accountant to transmit such information as is relevant to the decision objectives of different groups, they expect the information to be reliable at least. If accounting information is reliable, they can evaluate and interpret the information for making decisions. Reliability of accounting information depends upon consistent and continued use of the same conventions and same rules over a period of years.

## **2.2 PURPOSE OF STANDARDS :**

One of the most important criteria for the presentation of financial information through the financial statements is that which ensures an appropriate standard of comparison between different firms. Lack of uniformity with regard to the manner in which periodic profit is measured and financial position of the enterprise is represented is because of the different methods used by accountants, and different assumptions made by them.

The main purpose of standards is to ensure that financial information is treated in the financial statements according to specified standards, and the methods used by different enterprises for presenting information should permit appropriate comparisons to be made.

## **2.3 ACCOUNTING PRINCIPLES**

The dictionary meaning of the term 'Principle' is a "fundamental truth implying uniformity of acceptance everywhere." However, when applied to accounting, it gives different meanings in different contexts. It is rarely used a fundamental accounting truth. Accounting principle is a guiding influence or an accepted rule of action or conduct. In other words accounting principles are those rules of action or conduct which are adopted by the accountants universally in recording accounting transactions. Different professional bodies like Australian Society of Accountants, The Institute of Chartered Accountants in Australia, The Institute of Chartered Accountants in England and Wales, The American Institute of Certified Public Accountants etc. have made recommendations on accounting principles in the recent years.



Accounting principles have been developed over the years from experience, reason, usage and necessity. They are judged on their general acceptability rather than universal acceptability to the users of financial statements. Hence, they are called as generally accepted accounting principles. Accounting principles can be broadly classified into two categories:

- A. Accounting Concepts
- B. Accounting Conventions.

### 2.3.1 Accounting Concepts:

Concepts refer to the assumptions upon which accounting is based. The widely accepted and used concepts are discussed below:

- (i) **Money measurement concept:** According to this concept, accounting records only those facts and events which can be expressed in monetary terms. Accounting does not record the facts which can not be expressed in terms of money so non – monetary business transactions like efficiency of the worker, bad working conditions for the workers, lack of canteen facilities etc., are not recorded in the books of accounts.
- (ii) **Business entity concept:** According to this concept the accountant should assume that business is a person and its owner is another person. He should consider the business separate from its owner. If such distinction is not maintained the private affairs of the owner will be mixed with the affairs of the business and true profit or loss of the business can not be determined. Though in the eyes of law sole – trading and partnership business has no legal entity and only the company type of business has legal entity, the accountant should assume all types of business separate from its owner while doing accounting work.
- (iii) **Cost concept:** This concept says that the value of assets should be recorded at the price at which they are acquired. The market value of the assets is not taken into consideration. The market price of assets may fluctuate from time to time. This is not considered while assets are recorded in the financial statements. However, in the Balance Sheet assets are recorded at cost price less usual depreciation. This concept is not applicable to record the value of closing stock in the Balance Sheet. The cost price or market price of closing stock whichever is less is taken into consideration.

- (iv) **Going concern concept:** This concept is connected with the cost concept. Unless the going concern concept is taken into mind the cost concept bears little meaning. According to this concept the accountant should assume that the business will continue for ever and there is no end to it. Keeping this assumption in mind he will record the transactions in the books of account. The central idea of going concern concept is that as the business will not be liquidated in near future the account should not bother to know the sale – value of assets. The real worth of the assets can be known only when the business will be sold. For this reason all the assets except closing stock are recorded at their cost price and not at the market price. As closing stock of a year is to be sold in the next year its market price is taken into consideration.
- (v) **Dual aspect concept:** A business collects funds from the proprietor and also from outside parties. It invests those funds by purchasing various assets such as land, building, machinery etc. Thus, the fund it collects must be equal to its investment. This can be put in the form of a formula:  
Owned fund + Borrowed fund = Total investment  
Or  
Capital + Liabilities = Assets
- This concept says that at any time capital plus liabilities must be equal to the total assets of the firm.
- (vi) **Accrual concept or matching concept:** According to this concept the profit or loss of a business is found out by matching the expenses and losses of the business during a period with the incomes and gains earned in that period. Here expenses means expenses incurred and paid in cash + expenses incurred but due. Similarly income means incomes earned and received + incomes earned but accrued.
- (vii) **Accounting period concept:** The period at the end of which the profitability of business is determined, called 'Accounting Period'. Generally twelve months is taken to measure the profit or loss of a business. This twelve months may be a calendar year, or a financial year or any year like Ramnavami to Ramnavami, Kalipuja to Kalipuja etc. Twelve months is taken to measure the profitability of a business as any twelve months cover all the seasons of a year. Further, for income tax purposes it is necessary to know the annual business income of the assessee.

**(viii) Verifiable objective concept:** This concept says that only those transactions are recorded in the books of account, which have documentary evidences. Without documentary proof a transaction cannot be placed in the books of account. The examples of such documentary evidences are, invoices, salary register, wage bill, mustard roll, vouchers etc. On the basis of these documents the books of accounts is audited by auditors.

### 2.3.2 Accounting Conventions:

Conventions mean customs or traditions which are useful as a guide to the preparation and presentation of accounts. This include:

- (a) Convention of conservatism.
- (b) Convention of materiality.
- (c) Convention of consistency.
- (d) Convention of disclosure.

**(a) Convention of conservatism:** This is the policy of playing safe. It takes into consideration all prospective losses but leaves all prospective profits. Valuation of stock is done at market price or cost price whichever is less. Making the provision for doubtful debts and discount on or debtors in anticipation of actual bad debts and discount is an example of this conversion. The main aim of published accounts is to convey and to conceal the information.

**(b) Convention of materiality:** This convention says that while recording transactions, a distinction should be made between material and immaterial matters. Insignificant and minor items may be merged with some other items, For example there is no point in having separate accounts for all expenses (e.g., various items of stationery) of a business, small expenses of like nature may be combined under one general heading.

**(c) Convention of consistency:** The usefulness of accounting data increases manifold when it is comparable – within the business over a number of years, and outside the business with other organisations carrying on a similar business. This requires that accounting practices and methods should remain consistent over time.

**(d) Convention of disclosure:** Accounting records are meant for use. They must be prepared honestly, and scrupulously and no material which should be disclosed, must be withheld, otherwise, they will be incomplete and unreliable and there will be a creditability gap, full disclosure of all material facts has become particularly important in case of joint stock company in which there is separation between management and ownership. The companies Act, 1956 has taken sufficient precautions in this regard. This is in keeping with the latest trend of treating financial statements as a means of conveying and not canceling information.

## 2.4 ACCOUNTING STANDARDS

Accountancy is considered to be the language of business. There are certain norms in accounting that have to be observed by the accountants. These norms become accounting standards when a professional body makes them mandatory for recording and reporting purposes.

According to Kohler, accounting standards can be defined as : 'Accounting standards are codes of conduct imposed by customs, law or professional bodies for the benefit of public accountants and accountants generally'.

Accounting standards provide a structured framework for the preparation of financial statements. They help in standardizing the diverse accounting practices followed for many aspects of accounting.

In view of the growth of international trade and multinational corporations, the need for standardization at the international level was felt. With a view to harmonizing varying accounting policies and practices, an International Accounting Standards Committee (IASC) was formed and entrusted with the responsibility of formulating international standards. Since 1973, IASC has issued twenty – seven international accounting standards to date. Another professional body, the International Federation of Accountants of India' (a professional accountancy body of India) established an Accounting Standards Board (ASB). Its main function was to formulate accounting standards to be issued under the authority or council of the institute. ASB gives adequate representation to all interested parties, and consists of the members of council and representatives of Banks, Company Law Board, Central Board of Direct Taxes and Controller and Auditor General of India. The main function of ASB is to formulate accounting standards. It gives due consideration

to the international accounting standards issued by IASC, and tries to integrate the conditions and practices in India. It also reviews the accounting standards at periodic intervals.

### 2.4.1 Objectives:

Accounting standards play an important role in the field of accounting. Accounting reports prepared in accordance with the accounting standards are more reliable, uniform and consistent. The objectives of accounting standards are listed as follows.

1. **To provide direction:** Accounting standards are required to enable correct decision making for maintaining accounting records. In addition, standards provide guidance for action.
2. **To provide uniformity:** Another objective of accounting standards is to provide universality to accounting procedures.
3. **To improve comparability and understandability:** Accounting standards increase comparability, creditability and understandability of financial statements.

### 2.4.2 International Accounting Standards (IAS) :

Keeping in view the importance of uniform accounting standards, policies and procedures 16 accounting bodies from nine nations formed the International Accounting Standard Committee (IASC) on June 29, 1973 with its headquarters at London. Since 1983, IASC 's members have included all the professional accounting bodies that are members of the International Federation of Accountant (IFAC). As of January, 1996 there were 118 member bodies in 85 countries. Both the Institute of chartered Accountants of India (ICAI) and the Institute of Cost and Works Accountants of India (ICWAI) are the members of IASC.

The responsibility of IASC is to improve the quality and soundness of financial reporting in member countries all over the world. Its other responsibility is to keep the member bodies informed of the latest developments and standards by issuing exposure drafts from time to time. Looking to the objectives and aims of IASC, accountancy bodies from different countries have joined IASC to enable them to have up to date information on international accounting matters and to take guidance from these in laying down their own standards.

**Objectives of IASC :**

- (a) Formulate and publish accounting standards to be observed in the presentation of financial statements and to promote their world wide acceptance and observance; and
- (b) Work for the improvement and harmonisation of regulations accounting standards and procedures relating to the presentation of financial statements.

**Standards framed by Committee so far :**

The committee has so far laid down standards regarding the following matters.

|          |   |
|----------|---|
| IAS – 1  | Disclosure of accounting policies   |
| IAS – 2  | Valuation and presentation of inventories                                   |
| IAS - 3  | consolidated financial statements   |
| IAS – 4  | Depreciation Accounting   |
| IAS – 5  | Information to be disclosed in financial statements                         |
| IAS – 6  | Accounting responses to changing prices                                     |
| IAS – 7  | Statement of changes in financial position                                  |
| IAS – 8  | Unusual and prior period items and changes in accounting policies.          |
| IAS – 9  | Accounting for research and developmental activities                        |
| IAS –10  | Contingencies and events occurring after balance sheet date                 |
| IAS – 11 | Accounting for construction contracts                                       |
| IAS – 12 | Accounting for taxes on income  |
| IAS – 13 | Presentation of current assets and current liabilities                      |
| IAS – 14 | Reporting of financial information by segments                              |
| IAS – 15 | Information reflecting the effects of changing prices                       |
| IAS – 16 | Accounting for property, plant and equipment                                |
| IAS – 17 | Accounting for lease  |
| IAS – 18 | Revenue recognition   |
| IAS – 19 | Accounting for retirement benefits in the financial statements of Employees |
| IAS – 20 | Accounting for government grants and disclosure of government assistance    |

|          |  |
|----------|--|
| IAS – 21 | Accounting for effects of changes in foreign exchange rates                      |
| IAS – 22 | Accounting for business combinations   |
| IAS – 23 | Capitalisation of borrowing costs  |
| IAS – 24 | Related party disclosures  |
| IAS – 25 | Accounting for investments   |
| IAS – 26 | Accounting and reporting of retirement benefit plans                             |
| IAS – 27 | Consolidated financial statements and accounting for investment in subsidiaries  |
| IAS – 28 | Accounting for investment in associates  |
| IAS – 29 | Financial reporting in hyper – inflationary economies                            |
| IAS – 30 | Disclosure in the financial statement of banks and similar financial institution |
| IAS – 31 | Financial reporting of interest in joint ventures                                |
| IAS – 32 | Financial instruments : disclosure and presentation                              |
| IAS – 33 | Earnings per share   |
| IAS – 34 | Interim financial reporting  |
| IAS – 35 | Discontinuing operations   |
| IAS – 36 | Impairment of assets   |
| IAS – 37 | Provisions, contingent liabilities and contingent assets                         |
| IAS – 38 | Intangible assets  |
| IAS – 39 | Financial instruments; recognition and measurement                               |
| IAS – 40 | Investment property  |

### 2.4.3 Accounting Standards Board :

Accounting Standards Board (ASB) has been set up in India by the Council of the Institute of Chartered Accountants of India with a view to form Indian Accounting Standards. The Council was set up in April, 1977. While formulating the standards, the board attempts to harmonise the diverse accounting policies and practices in India and also takes into account the applicable laws, customs, usages and business environment in the country. While formulating the Accounting standards, ASB will give due consideration to Standards issued by

IASC (International Accounting Standard Committee) and try to integrate them to the extent possible in the light of the conditions and practices prevailing in India.

To issue accounting standards authority lies with the Council, ASB has also been entrusted with the responsibility of propagating the Accounting Standards and of persuading the concerned parties to adopt them in the preparation and presentation of financial statements. ASB will issue guidance notes on Accounting Standards and give classification on issue arising therefrom ASB will also review the Accounting Standards at periodical intervals.

So far, the Accounting Standards Board (ASB) has issued the following 18 accounting standards.

| <b>No.</b> | <b>Title</b>  | <b>Applicability on or after</b> |
|------------|---|----------------------------------|
| AS – 1     | Disclosure of Accounting Policies   | 1-4-1991                         |
| AS – 2     | Valuation of inventories  | 1-4-1999                         |
| AS – 3     | Changes in Financial Position   | Recommendatory                   |
| AS – 4     | Contingencies and Events occurring after the Balance Sheet date             | 1-4-1995                         |
| AS – 5     | Prior period and Extraordinary Items and Changes in Accounting Policies     | 1-4-1996                         |
| AS – 6     | Depreciation Accounting   | 1-4-1995                         |
| AS – 7     | Accounting for Construction Contracts                                       | 1-4-1991                         |
| AS – 8     | Accounting for Research and Development                                     | 1-4-1991                         |
| AS – 9     | Revenue Recognition   | 1-4-1991                         |
| AS – 10    | Accounting for Fixed Assets   | 1-4-1991                         |
| AS – 11    | Accounting for the Effects of changes in Foreign Exchange Rates             | 1-4-1995                         |
| AS – 12    | Accounting for Government Grants  | 1-4-1994                         |
| AS – 13    | Accounting for Investments  | 1-4-1995                         |
| AS – 14    | Accounting for Amalgamations  | 1-4-1994                         |
| AS – 15    | Accounting for Retirement Benefits in the Financial Statements of Employers | 1-4-1995                         |



|         |                           |          |
|---------|---------------------------|----------|
| AS – 16 | Borrowing Costs           | 1-4-2000 |
| AS – 17 | Segment Reporting         | 1-4-2001 |
| AS – 18 | Related Party Disclosures | 1-4-2001 |

## 2.5 QUESTIONS :

### A. Short Answer Questions

1. What is purpose of Accounting Standards?
2. What do you mean by Accounting Standards?
3. Bring out the coverage of AS-6 regarding Depreciation Accounting

### B. Essay Questions :

1. Explain the need for Accounting Standards
2. Explain in brief the accounting standards issued by ICAI
3. State the accounting standards common internationally and in Indian context
4. Explain briefly the provisions of ``Disclosure of Accounting Policies.'' (AS-I)
5. What are the main features of the cash flow statement? Explain with special reference to AS-3 (revised)
6. What are the provisions regarding ``contingencies and events occurring after the balance sheet date' as set out by AS-4?

## 2.6 SUGGESTED BOOKS

1. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
2. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
3. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advaned Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
4. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
5. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

## Chapter – 3

# Double Entry System

### Objectives :

After studying this unit we should be able to :

- Know the meaning of Double Entry system of book keeping
- Understand the advantages of double entry system
- Distinguish between Double Entry System and Single Entry System
- Understand accounting equation and Classification of Accounts

### Structure

#### 3.1 Introduction

#### 3.2 Double Entry System

#### 3.3 Accounting Equation

#### 3.4 Accounting Transaction

#### 3.5 What is an Account?

#### 3.6 Rules of Debit, Credit

#### 3.7 Accounting process

#### 3.8 Accounting Cycle

#### 3.9 Questions

#### 3.10 Suggested Readings

### 3.1 INTRODUCTION:

Double entry system is a rational system of accounting. All business organisations and Tax Authorities are compelling the business people to prepare accounts on the basis of double entry system. This system is based on the principle of dual aspect in Accounting. It implies that a business transactions is entered doubly (or) twice.

## 3.2 CONCEPT: DOUBLE ENTRY SYSTEM:

Already it has been said that every business transaction has two aspects. They are: the debit aspect and the credit aspect. It says further that there must be one giving some benefit and there must be another receiving the benefit, in every transaction. It means that there cannot be any receiving of benefit when there is no any giving of benefit. So, receiving aspect is called, “debit aspect” whereas, the giving aspect is called “Credit aspect”. Hence, the system under which both debit and credit aspects of the same transaction are recorded is known as double entry system.

### 3.2.1 Important concepts made brief:

- (1) **Assets:** These are valuable resources for utilisation in business.
- (2) **Fixed Assets:** These are long term resources. Example: Lands, buildings, plant and Machinery etc.
- (3) **Liquid Assets:** These are short term circulating current, floating resources which are convertible into cash immediately. Example: Cash, Bills, Debtors etc.
- (4) **Fictitious Assets:** These are also resources of business having no physical form and real value. Example: Loss on issue of shares, preliminary expenses etc.
- (5) **Intangible Assets:** These are also assets having no physical existence. Example: Goodwill, Patents, Trademarks etc.
- (6) **Wasting Assets:** These are assets, which are exhausted while they are used. Example: Mines
- (7) **Capital:** It is that part of business wealth, which is used for further production.
- (8) **Fixed Capital:** The amount spent for acquiring fixed assets is fixed capital.
- (9) **Working Capital:** It is that part of total capital, which is used for the day – to – day operation of the company.
- (10) **Liabilities:** These are obligations of business to be met in future.
- (11) **Fixed Liabilities:** These are long term obligations to be met. Example: Capital, Loans, Debentures etc.
- (12) **Current Liabilities:** These are short-term obligations to be met within less than year. Example: Creditors, Bills payable etc.

- (13) **Contingent Liabilities:** These are obligations to be when there are risks and uncertainties in future. Example: Bad debts.
- (14) **Account:** It is a summarised statement of transactions of a person, thing, expense, income etc.
- (15) **Proprietor:** He is owner of business, known by different names as: partner in case of partnership firms, and shareholder in case of Joint Stock Companies.
- (16) **Drawings:** There are cash (or) goods used by proprietors from business.
- (17) **Solvent:** Solvent is one who is able to meet the financial obligations when they are due.
- (18) **Insolvent:** This is opposite of solvent. He is not able to meet debts on due date.
- (19) **Debtors:** He is receiver of the benefit.
- (20) **Creditors:** He is given of the benefit.
- (21) **Equity:** A claim, which can be enforced against the assets of a firm, is called equity. This can be of two types as:
- (1) Owner's Equity (or) capital.
  - (2) Creditors Equity.
- (22) **Revenue:** It means something realised (or) receivable in business, from sale of goods.
- (23) **Expense:** This is payment for the purchase of goods.
- (24) **Cash Discount:** It is an incentive from company to encourage the prompt payment of dues payable to the company.
- (25) **Trade Discount:** It is an incentive in the form of some deduction from gross (or) catalogue price allowed to traders to buy on large scale from the company.
- (26) **Voucher:** It is documentary evidence in support of a business transaction.
- (27) **Reserve:** It is an amount set aside from profit so as to meet some contingencies in future.
- (28) **Accounting period:** It is a period of 12 months for which, accounts are usually kept. This can be a financial year commencing from 1<sup>st</sup> April and ending on 31<sup>st</sup> March (or) a calendar year commencing from 1<sup>st</sup> January to 31<sup>st</sup> December.
- (29) **Gross profit:** it is the difference between selling price and cost price of goods before deducting selling expenses.
- (30) **Net profit:** It is remaining profit in gross profit after setting aside all expenses from gross profit.

**(31) Profit and loss account:** It is important financial statements prepared in the account period so as to know about the profit (or) loss in business.

**(32) Balance Sheet:** This is another important financial statement prepared along with profit (or) loss statement, in order to reveal the financial position of the business on a particular date.

### 3.3. ACCOUNTING EQUATION:

The whole of financial accounting (i.e., recording of transactions) is based on the 'Accounting Equation'. This can be stated to be that for a business to run it needs resources. These resources have to be supplied to the business by someone. The resources possessed by the business are known as 'Assets'. To begin with, these resources are supplied by the owner of the business. The total amount supplied by the owner of the business is known as 'Capital or Owner's equity'. If the proprietor is the only one who supplies resources, i.e., assets, the following equation would hold true:

$$\text{CAPITAL} = \text{ASSETS}$$

Normally however some of the assets of the business are provided by someone other than owner. The indebtedness of the business for these resource is known as 'Liabilities'. Thus because of legal distinction between the claims of creditors (outside liabilities) and those of owners (ownership liabilities or owner's equity or capital), the equation can now be expressed as:

$$\text{CAPITAL} + \text{LIABILITIES} = \text{ASSETS}$$

The two sides of the equation are always equal. On right – hand side are the resources are known as 'Liabilities'. On Left – hand side are the sources from which these resources were obtained. This equation is also known as 'Basic Accounting Equation' or 'Balance Sheet Equation'.

Loss affects both the side of the accounting equation. It reduces the capital in one side of the accounting equation. In the other side of the equation it reduces the asset i.e., cash.

The two sides of the equation are always equal. On the right – hand side are the resources possessed by the business. On the left – hand side are the sources from which these resources were obtained. So, the two sides will always be equal, no matter how many transactions are entered into. The actual assets, capital and liabilities may change, but the

equality of assets (Property and rights in property) with that of liabilities (amounts owing to outsiders) and capital (amount owing to the proprietor) will always hold true under all circumstances.

### 3.3.1 Advantages of Accounting Equation:

The advantages of Accounting Equation are:

- (i) Accounting equation shows the sources of funds and its application. Sources are two fold – own fund (comes from the owner), and borrowed funds (borrowing from banks and other financial institution, creditors). The funds so collected are invested on various assets such as land, building, Plant etc.
- (ii) It shows owner's equity, Liabilities, and Assets. So, if two things are given the other can be found out by applying the equation.
- (iii) Accounting equation reveals the success or failure of a business. If owner's equity decreases it implies failure. In the reverse case there is success.
- (iv) It shows the impact of each transaction on owner's equity, Liability and Asset.
- (v) Accounting equation, if presented in detail – item wise, helps to calculate various ratios such as Capital to total assets, owner's equity to total assets, Liabilities to total assets, current assets to fixed assets etc. These ratios help a lot in taking important decisions affecting a business.

The Accounting equation deals with increases and decreases in assets, liabilities, and capital. The increases and decreases in capital take place through:

1. Income and benefits which result in capital, and
2. Expenses and losses which result in decrease in capital.

To show the effect of incomes and benefits, and expenses and losses on capital, the Accounting Equation may be expanded as follows:

$$\text{Assets} = \text{Liabilities} + (\text{Capital} + \text{Income} - \text{Expenses})$$

This above equation is called an 'Expanded Accounting Equation' or 'Financial or Operating Equation'.

### 3.4. ACCOUNTING TRANSACTIONS:

There are any business activities involving transfer of money (or) money 's worth.

**Example :** Purchases, Sales, Receipt (or) payment of cash, Supply of a service etc.

These transactions may be cash (or) credit transactions.

**Example:**

(1) Sold goods to Ramesh for cash Rs.2,000/-

(2) Purchased goods from Gopal on credit Rs.1,000/-

In these two cases, the 1<sup>st</sup> one is a cash transaction while the 2<sup>nd</sup> one is a credit transaction.

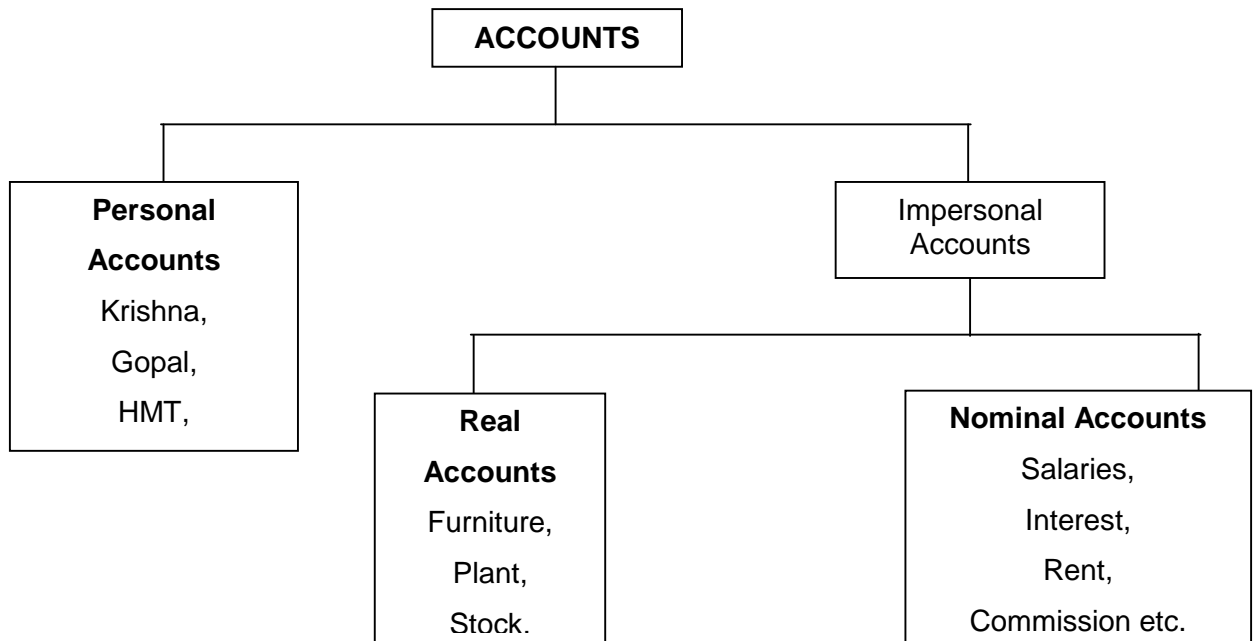
### 3.5 WHAT IS AN ACCOUNT?

It is a summarised record of all transactions pertaining to a person, a good, a service, revenue (or) expense. It is "T" shaped, dividing the accounting into two equal halves where the left half is "Debit side" while, the right side is "credit side". The following is an example.

| Date | Particulars | Folio | Amount<br>Rs. | Date | Particulars | Folio | Amount<br>Rs. |
|------|-------------|-------|---------------|------|-------------|-------|---------------|
|      |             |       |               |      |             |       |               |

#### 3.5.1 Types of Accounts:

Broadly, business transactions can be divided into three important categories viz., personal, Real and Nominal. Thus, there are three types of accounts. The following chart will make it clear.

**Personal accounts:**

All business transactions with persons, firms, companies, etc. and accounts thereof are called personal accounts. [See chart for examples]

**Real Accounts:**

Transactions related to real properties and assets and their accounts are known as Real accounts. [See chart for examples].

**Nominal Accounts:**

Accounts relating to expenses, losses, incomes, gains etc. are termed as nominal accounts. [See chart for examples]

### 3.6 RULES OF DEBIT / CREDIT:

Since dual aspect is there in all business transactions, there are two accounts in every transaction. Rules of debit / credit vary from one type of account to another type of account.



**Personal Accounts:**

- (a) Debit the Receiver
- (b) Credit the giver.

**Real Accounts:**

- (a) Debit what comes in.
- (b) Credit what goes out.

**Nominal Accounts:**

- (a) Debit all expenses / losses
- (b) Credit all incomes / gains

**Example 1:** Paid cash to Rajiv Rs.5,000

In this case the two accounts affected are Rajiv account and Cash account. Rajiv account is a personal account and cash account is a real account. Rajiv has received the benefit (cash Rs.5,000) from the business and, therefore, his account has to be debited as per the first part of the rule for personal accounts ``debit the receiver.'' As cash has gone out, Cash account will be credited according to the second part of the rule for real accounts ``credit what goes out.''

**Example 2:** Received Cash from Sunil Rs.1,000

In this case Cash account and Sunil's account are the two accounts affected. Cash Account is a real account and Sunil 's account is a personal account. As cash has come in, cash account will have to be debited according to the first part of the rule for real accounts ``debit what comes in.'' Sunil has given the benefit (Cash Rs.1,000) to the business and, therefore, his account will have to be credited as per the second part of the rule for personal accounts ``credit the giver.''

**Example 3:** Purchase of Machinery for Rs.2,00,000.

This is a cash transaction. Both the accounts viz., Machinery account and cash account are real accounts. The real account is debited when things come in and credited, when things go out. Here, machinery comes in and cash goes out. So, machinery account is debited and cash account is credited.

**Example 4: Paid Wages Rs.1,000**

In this case the accounts affected are Wages account and Cash account. Wages account is a nominal account and cash account is a real account. As per the first part of the rule for nominal account is ``debit all expenses and losses.'' Wages account will have to be debited as it is an expense to the business. As cash has gone out, Cash account will have to be credited according to the second part of the rule for real accounts ``credit what goes out. ''

**Examples 5: Received Rs.400 as Discount.**

In this case, Cash account and Discount account are the two accounts affected. Cash account is a real account and Discount account is a nominal account. As cash has come in, cash account will have to be debited according to the first part of the rule for real accounts ``debit what comes in. '' As per second part of the rule for nominal accounts, ``credit all incomes and gains,,'' discount account will be credited as it is an income to the business.

**Illu 1: Analysis the following transaction and find out the two accounts involved. How do you treat them and why?**

**2007**

|               |  |
|---------------|--|
| <b>Jan 1</b>  | <b>Ganesh started his business with cash.</b>  |
| <b>Jan 3</b>  | <b>Borrowed from rao</b>                       |
| <b>Jan 5</b>  | <b>Purchased Machinery</b>                     |
| <b>Jan 5</b>  | <b>Purchased furniture from Raj on credit.</b> |
| <b>Jan 8</b>  | <b>purchased goods for cash.</b>               |
| <b>Jan12</b>  | <b>Purchased goods from Vijay on credit</b>    |
| <b>Jan 15</b> | <b>Sold goods for cash</b>                     |
| <b>Jan 18</b> | <b>sold goods to Gupta on credit</b>           |
| <b>Jan 20</b> | <b>Received cash from Gupta</b>                |
| <b>Jan 22</b> | <b>Paid cash to Vijay</b>                      |
| <b>Jan 23</b> | <b>Deposited into Bank</b>                     |
| <b>Jan 25</b> | <b>Withdrew cash for personal use.</b>         |
| <b>Jan 30</b> | <b>Withdrew from bank for office use</b>       |
| <b>Jan 31</b> | <b>Paid Salary</b>                             |
| <b>Jan 31</b> | <b>Paid rent by cheque.</b>                    |

**Solution:**

Before answering the question you have to be familiar with the following.

1. Ascertain what accounts are involved in a transaction.
2. Ascertain what is the nature of the accounts involved.
3. Ascertain which rule of debit and credit is applicable for each of the accounts involved.
4. Ascertain which account is to be debited and which is to be credited.
5. Record the date of transaction in the 'Date column'.

**Analysis of Transaction**

| <b>Date</b>   | <b>Accounts involved</b>      | <b>Nature of Accounts</b> | <b>How affected</b>                          | <b>Whether to be Debited or Credited</b> |
|---------------|-------------------------------|---------------------------|--|--|
| 2007<br>Jan 1 | Cash a/c<br>Capital a/c       | Real<br>Personal          | Cash is coming in<br>Ganesh is the giver     | Debit<br>Credit                          |
| Jan 3         | Cash a/c<br>Loan from Rao a/c | Real<br>Personal          | Cash is coming in<br>Rao is the giver        | Debit<br>Credit                          |
| Jan 5         | Machinery a/c<br>Cash a/c     | Real<br>Real              | Machinery is coming in<br>Cash is going out  | Debit<br>Credit                          |
| Jan 8         | Purchases a/c<br>Cash a/c     | Nominal<br>Real           | Purchase is an expense<br>Cash is going out  | Debit<br>Credit                          |
| Jan 12        | Purchases a/c<br>Vijay's a/c  | Nominal<br>Personal       | Purchase is an expense<br>Vijay is the giver | Debit<br>Credit                          |
| Jan 15        | Cash a/c<br>Sales a/c         | Real<br>Nominal           | Cash is coming in<br>Sales is a revenue      | Debit<br>Credit                          |
| Jan 18        | Gupta a/c<br>Sales a/c        | Personal<br>Nominal       | Gupta is the receiver<br>Sales is a revenue  | Debit<br>Credit                          |
| Jan 20        | Cash a/c<br>Gupta a/c         | Real<br>Personal          | Cash is coming in<br>Gupta is the giver      | Debit<br>Credit                          |
| Jan 22        | Vijay a/c<br>Cash a/c         | Personal<br>Real          | Vijay is the receiver<br>Cash is going out   | Debit<br>Credit                          |
| Jan 23        | Bank a/c                      | Personal                  | Bank is the receiver                         | Debit                                    |

|        |              |          |                        |        |
|--------|--------------|----------|------------------------|--------|
|        | Cash a/c     | Real     | Cash is going out      | Credit |
| Jan 25 | Drawings a/c | Personal | Ganesh is the receiver | Debit  |
|        | Cash a/c     | Real     | Cash is going out      | Credit |
| Jan 30 | Cash a/c     | Real     | Cash is coming in      | Debit  |
|        | Bank a/c     | Personal | Bank is the giver      | Credit |
| Jan 31 | Salary a/c   | Nominal  | Salary is an expenses  | Debit  |
|        | Cash a/c     | Real     | Cash is going out      | Credit |
| Jan 31 | Rent a/c     | Nominal  | Rent is an expense     | Debit  |
|        | Bank a/c     | Personal | Bank is the giver      | Credit |

### 3.7 ACCOUNTING PROCESS :

In order to accomplish its main objective of communicating information to the users, accounting performs the following functions.

- (a) Recording:** It is concerned with the recording of financial transactions in an orderly manner, soon after their occurrence in the proper books of account.
- (b) Classifying:** It is concerned with the systematic analysis of the recorded data so as to accumulate the transactions of similar type at one place. This function is performed by maintaining the ledger in which different accounts are opened to which related transactions are posted.
- (c) Summarising:** It is concerned with the preparation and presentation of the classified data in a manner useful to the users. This function involves the preparation of financial statements such as Income Statement, Balance Sheet, Statement of Changes in Financial Position, Statement of Cash Flow, Statement of Value Added.
- (d) Interpreting:** Now a days, the aforesaid three functions are performed by electronic data processing devices and the accountant has to concentrate mainly on the interpretation aspects of accounting. The accountants should interpret the statements in a manner useful to the users, so as to enable the users to make reasoned decisions out of alternative courses of action. The accountant should explain not only what has happened but also (a) Why it happened, and (b) what is likely to happen under specified conditions.

### 3.8 ACCOUNTING CYCLE:

An accounting cycle is a complete sequence beginning with the recording of the transactions and ending with the preparation of the final accounts.

1. **Journal:** Record the transactions and events in the Journal.
2. **Ledger Posting:** Transfer the transactions (recorded in the journal), in the respective accounts opened in the Ledger.
3. **Balancing the accounts:** Ascertain the difference between the total of debit amount column and the total of credit amount column of a ledger account.
4. **Trial Balance:** Prepare a list showing the balances of each and every account to verify whether the sum of the debit balances is equal to the sum of the credit balances.
5. **Trading, Profit and Loss Account:** Prepare Trading and profit & Loss Account to ascertain the profit or loss for the accounting period.
6. **Balance Sheet:** Prepare the Balance Sheet to ascertain the financial position as the end of a accounting period.

### 3.9 QUESTIONS

#### A. Short Answer Questions

1. What is Double Entry of System of Accounting?
2. What is Single Entry System?
3. What is Accounting Equation?
4. What are personal accounts?
5. What are real accounts?
6. What are nominal accounts?
7. What is Accounting cycle?

#### B. Eassay Questions

1. What is Double Entry system? Distinguish between Double Entry and Single Entry System.
2. How do you classify accounts? Explain the rules of debit and credit.
3. Define Double Entry System of book-keeping? What are its advantages?
4. Mention the rules for recording business transactions under accounting equation approach

5. Give an example of business transactions affecting only : (a) Assets (b) Liabilities (c) Capital
6. "Accounting equation holds goods under all circumstances." Elaborate giving at least five examples.
7. What is the effect of revenue earned and expenses incurred on the accounting equation?
8. Explain the accounting process.

### 3.10 SUGGESTED BOOKS

1. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
2. Asish K. Bhattacharyya, **Financial Accounting**, Prentice Hall of India, New Delhi, 2005
3. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
4. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
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6. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

## Chapter – 4

# Journal – Ledger

### Objectives :

After studying this unit we may be able to :

- Understand the meaning of Journal, Ledger and Trial balance
- Pass Journal entries and post them into ledger.
- Prepare the Trial balance

### Structure :

#### 4.1 Introduction

#### 4.2 Journal

#### 4.3 Ledger

#### 4.4 Trial balance

#### 4.5 Questions

#### 4.6 Exercises

#### 4.7 Suggested Readings

### 4.1 INTRODUCTION:

The first important function in accounting is to record all business transactions in the books of original entry viz., Journal and Ledgers. In this lesson an attempt is made to discuss about journal, method of writing journal and posting into ledger along with Trial Balance preparation.

### 4.2 JOURNAL

The word Journal is stated to have been borrowed from a Latin word – Journ, which means – a day. So, it is a daybook, where in, all day – to – day business transactions are recorded in a chronological order. Journal is considered to be a book of original entry, first entry (or) prime

entry. All transactions are to be recorded first in Journal before they are recorded in ledgers. The Journal is a complete and chronological record of business transactions. The stager and process of recording business events in Journal is known as journalising while the entries made in the Journal one known as Journal entries.

### Proforma of Journal

| Date           | Particulars (with narration)                            |     | L. F. | Debit Rs. | Credit Rs. |
|----------------|---|-----|-------|-----------|------------|
| 2007<br>June 1 | Cash a/c<br>To Sales a/c<br>(Being goods sold for cash) | Dr. |       | 12,000    | 12,000     |

- ❖ **Date:** The first column deals with the date of business transaction.
- ❖ **Particulars:** The 2<sup>nd</sup> column is about the details of the two accounts involved in the business transaction. In the 1<sup>st</sup> line we mention the debit aspect whereas, credit aspect is mentioned in the 2<sup>nd</sup> line.
- ❖ **Narration:** Narration is written briefly and it is kept within brackets. It is brief explanation to the business transaction.
- ❖ **L.F. :** L. F. stands for Ledger Folio. It is reference number of the page in the respective ledger in which, this account appears.
- ❖ **Debit:** It is the amount debited.
- ❖ **Credit:** It is the amount credited.

#### 4.2.1 Need for Journal:

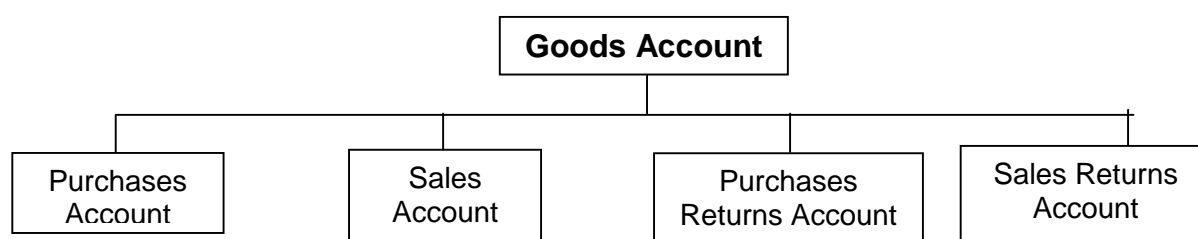
- (a) Need for Journal arises as we have to record all business transactions date – wise in a separate book called Journal. If necessary, one can take stock of all business transactions at a time from this journal. Hence, Journal is very much significant.
- (b) Since narration is present for every transaction, in this Journal, transactions become easily understandable to us. Thus, journal is needed.
- (c) Location of errors is easy when journal is there and hence, it is needed and important.



### 4.2.2. Handling some Important Transactions:

The under mentioned accounts need same special treatment. (1) Goods account, (2) Owner's transactions, (3) Bank transactions, (4) Debts becoming bad etc.

**Goods a/c:** When we record transactions relating to goods, we are reminded of purchases, purchase returns, sales and sales returns. But, in accounting, instead of goods Account, the following appropriate account is used.



|    |                       |  |
|----|-----------------------|--|
| 1. | Purchases Account:    | For the purchase of goods on cash / credit |
| 2. | Sales Account:        | For the sales of goods on cash / credit    |
| 3. | Purchase Returns a/c: | For returning the goods purchased          |
| 4. | Sales returns a/c :   | For goods Returned by customers            |

Hence, the appropriate account is to be chosen from the above as per the real need.

**Proprietor's a/c:** Business entity concept in accounting states that owners of business are distinct from business itself and these two are two different entities and hence, their transactions also must be separated. So, all transactions relating to the proprietor must not be changed to business a/c and must be changed separately to an a/c called – Drawings a/c. Accordingly, the money brought by the owner into business as capital is credited to the capital a/c while, the money (or) goods used by the owners are debited an account called – “Drawings”.

### 4.2.3. Composite Entries:

Sometimes two or more transactions of the same nature may take place on the same date. Instead of making a separate entry for each such transaction it is proper to combine them and

give a combined entry. Such entry of recording a number transactions is termed as Compound Journal Entry. In case of compound entry the total of all debits should be equal to the total of all credits. The compound entry may be recorded in any of the following three ways.

- i. One account may be debited, while several other accounts may be credited.
- ii. One account may be credited, while several other accounts may be debited.
- iii. Several accounts may be debited and several accounts may also be credited.

**Illu.1 : Journalise the following transaction in the books of Mr. Rahul:**

| 2007    |  | Rs.    |
|---------|--|--------|
| March 1 | Started business with cash                                 | 10,000 |
| 2       | Purchased furniture and payment by cheque                  | 2,000  |
| 3       | Withdrew from bank for private use                         | 500    |
| 4       | Cash paid to Lal in full settlement of his account (6,000) | 5,940  |
| 5       | Paid for stationery Rs.200 and salaries Rs.2,000           |        |

**Solution :**

**Journal Entries in the books of Rahul**

| Date  | Particulars   |     | L.F. | Debit<br>Rs. | Credit<br>Rs. |
|-------|---|-----|------|--------------|---------------|
| 2007  |   |     |      | Rs.          | Rs.           |
| Mar.1 | Cash a/c<br>To Capital a/c<br>(Being business started)            | Dr. |      | 10,000       | 10,000        |
| 2     | Furniture a/c<br>To Bank a/c<br>(Being the purchase of furniture) | Dr. |      | 2,000        | 2,000         |
| 3     | Drawings a/c<br>To Bank a/c<br>(Being withdrew from bank)         | Dr. |      | 500          | 500           |

|    |   |            |  |              |             |
|----|---|------------|--|--------------|-------------|
| 4  | Lal's a/c<br>To Cash a/c<br>To Discount a/c<br>(Being full settlement of account) | Dr.        |  | 6,000        | 5,940<br>60 |
| 5. | Stationery a/c<br>Salaries a/c<br>To cash a/c<br>(Being expenses paid)            | Dr.<br>Dr. |  | 200<br>2,000 | 2,200       |

### 4.3. LEDGER

#### 4.3.1 Need for Ledger:

Journal will not be able to help us when we want to know the final status of a particular account because, it contains innumerable transactions without being classified. Hence, a separate account for each transaction in the Journal is needed. The separate statement (or) account for an exclusive transaction is called ledger. Thus, need for ledger arises in accounting.

#### 4.3.2 Ledger Defined:

It is a summary statement of all transactions relating to a person, asset, expense (or) income which have occurred during a given accounting period. The latest position (or) status, of any account can be easily noted by referring to this ledger. The following statements will help us to correctly understand the concept ledger.

- (a) For all types of accounts, ledger is opened.
- (b) It is a final and permanent record.
- (c) It is an easy means of reference.
- (d) It supplies the final status of any a/c.

#### 4.3.3. Proforma of ledger:

Each account in the ledger is divided into two equal halves by a vertical line of separation where, each of the two sides is further broken into 4 (four) columns for Date, particulars, Folio, and Amount. The left hand side is called debit side while, the right hand side is known as credit side. The following is the proforma of ledger.

**Mr. Raju**

| Date    | Particulars    | Folio | Amount<br>Rs. | Date    | Particulars         | Folio | Amount<br>Rs. |
|---------|----------------|-------|---------------|---------|---------------------|-------|---------------|
| 2007    |                |       |               | 2007    |                     |       |               |
| June 4  | To Cash        |       | 1,000         | June 3  | By Purchases<br>a/c |       | 2,000         |
| June 10 | To Balance c/d |       | 1,000         |         |                     |       |               |
|         |                |       | <b>2,000</b>  |         |                     |       | <b>2,000</b>  |
|         |                |       |               | June 15 | By Balance<br>b/d   |       | 1,000         |

From the above ledger of Mr. Raju, it can be understood that we purchased goods worth Rs.2,000 from Mr. Raju and Raju was paid Rs.1,000 in Cash and stock, another amount of Rs.1,000 is to be paid to him. In our accounting terminology, Mr. Raju is our creditor.

**4.3.4. Other Ledgers:**

As a matter of convenience, Ledger is subdivided into personal and impersonal ledgers. Depending upon the size of the organisation, personal ledger is further divided into debtors ledger and creditors ledger. The personal ledger contains only personal accounts (as defined earlier). In this there is no need to add a/c to every person, as a separate account is not opened for every person. Finally, the total picture of debtors / creditors is shown in Trial Balance. On the other hand, impersonal ledger contains all real and nominal accounts as defined earlier.

**Creditors Ledger:** It is also called "Suppliers Ledger". It contains all creditors accounts of the business.

**Debtors Ledger:** It is also called "Customers Ledger". It contains all accounts of debtors the business.

**General Ledger:** It contains all accounts except Debtors / Creditors. Accounts of owner's expenses, incomes, capital, drawings etc. are found in this ledger.

### 4.3.5. Ledger Posting:

It is a periodical posting at entries from the Journal in the ledger based on the following guidelines.

- ❖ Ledger posting begins where Journal writing is complete.
- ❖ For each item in the Journal, a separate a/c is to be opened.
- ❖ Every account (or) ledger is named rightly. Name should precede while “account” should follow as for example: Kumar Account, Salaries Account, Furniture Account etc.
- ❖ Debit side of the Journal entry is to be posted on the debit side of the ledger starting with To.
- ❖ Similarly, the credit side of the Journal entry is to be posted on the credit side of the respective ledger starting with By.

#### Example for clarity:

##### Business Transaction:

Salary of Rs.10,000, paid on June 30<sup>th</sup>, 2007. In the journal, and ledger it will appear as under.

| Date            | Particulars (with narration) |     | L. F. | Debit<br>Rs. | Credit<br>Rs. |
|-----------------|------------------------------|-----|-------|--------------|---------------|
| 2007<br>June 30 | Salary a/c<br>To Cash a/c    | Dr. |       | 10,000       | 10,000        |

#### Salary a/c

Dr.

Cr.

| Date            | Particulars | Folio | Amount<br>Rs. | Date | Particulars | Folio | Amount<br>Rs. |
|-----------------|-------------|-------|---------------|------|-------------|-------|---------------|
| 2007<br>June 30 | To Cash a/c | -     | 10,000        |      |             |       |               |

**Cash a/c****Dr.****Cr.**

| <b>Date</b> | <b>Particulars</b> | <b>Folio</b> | <b>Amount<br/>Rs.</b> | <b>Date</b>     | <b>Particulars</b> | <b>Folio</b> | <b>Amount<br/>Rs.</b> |
|-------------|--------------------|--------------|-----------------------|-----------------|--------------------|--------------|-----------------------|
|             |                    |              |                       | 2007<br>June 30 | By Salaries<br>a/c | -            | 10,000                |

**4.3.6. Balancing of ledgers:**

The very purpose of ledger will be lost, if the accounts maintained in the ledger are not balanced. Unless the a/c is balanced, we cannot understand the final status of any account. Hence, balancing of ledger Accounts must be performed, for which, the following hints may be of some help.

- (1) See the totals of both the sides and put the highest amount in both the sides.
- (2) Find out the difference of these two totals.
- (3) Enter this difference in amount column of that side showing less total, writing, against the difference in the particulars column, the words like: "To Balance c/d" (c/d means carried down) on the debit side of the a/c and "By Balance c/d" on the credit side of the account. In this way, total of two sides will agree.
- (4) The balance is brought forward at the beginning of the next period. If "To Balance c/d" is written on the debit side of the a/c before balancing, it is brought forward on the credit side and "By Balance b/d" (b/d means brought down) is written against the balance in the particulars column and vice – versa.
- (5) Sometimes, the totals of the debit side and credit side are equal. It means that the account has Nil balance. In this situation, the a/c is said to have been closed having no closing and no opening balance.

**Naveen a/c****Dr.****Cr.**

| Date           | Particulars    | Folio | Amount<br>Rs. | Date            | Particulars         | Folio | Amount<br>Rs. |
|----------------|----------------|-------|---------------|-----------------|---------------------|-------|---------------|
| 2007<br>Feb 10 | To Cash        |       | 7,000         | 2007<br>Feb 5   | By Purchases<br>a/c | -     | 10,000        |
| Mar 12         | To Cash        |       | 6,000         | Mar 7           | By Purchases<br>a/c |       | 5,000         |
| Mar 31         | To Balance c/d |       | 2,000         |                 |                     |       |               |
|                |                |       | <b>15,000</b> |                 |                     |       | <b>15,000</b> |
|                |                |       |               | 2007<br>April 1 | By Balance<br>b/d   |       | 2,000         |

**Ravi a/c****Dr.****Cr.**

| Date          | Particulars  | Folio | Amount<br>Rs. | Date             | Particulars | Folio | Amount<br>Rs. |
|---------------|--------------|-------|---------------|------------------|-------------|-------|---------------|
| 2007<br>Jan 8 | To sales a/c |       | 10,000        | 2007<br>March 28 | By Cash a/c |       | 15,000        |
|               | To Sales a/c |       | 5,000         |                  |             |       |               |
|               |              |       | <b>15,000</b> |                  |             |       | <b>15,000</b> |

**Illu.2: Rama, the businessman entered into the following transactions with Krishna on the following dates. Draft the ledger account of Krishna and balance the same :**

|             |   | Rs.   |
|-------------|---|-------|
| <b>2007</b> |   |       |
| Jan.1       | Opening debt of Krishna to Rama                     | 100   |
| 3           | Sold goods to Krishna subject to 10% Trade Discount | 1,000 |
| 8           | Krishna returned goods                              | 100   |
| 9           | Sold goods to Krishna                               | 200   |

**Solution :**

**In Rama's Ledger  
Krishna's Account**

**Dr.**

**Cr.**

| Date          | Particulars                   | JF | Amount<br>Rs. | Date          | Particulars      | JF | Amount<br>Rs. |
|---------------|-------------------------------|----|---------------|---------------|------------------|----|---------------|
| 2007<br>Jan 1 | To Balance b/d                |    | 100           | 2007<br>Jan 8 | By Sales Returns |    | 100           |
| 3             | To Sales a/c<br>(1,000 – 100) |    | 900           |               | By Balance c/d   |    | 1,100         |
| 9             | To Sales a/c                  |    | 200           |               |                  |    |               |
|               |                               |    | <b>1,200</b>  |               |                  |    | <b>1,200</b>  |
| Feb 1         | To Balance b/d                |    | 1,100         |               |                  |    |               |

**Illu. 3: Prepare the Personal Account of Srinivas from the following transactions :**

|       |                                     | Rs.   |
|-------|-------------------------------------|-------|
| 2007  |                                     |       |
| Jan 1 | Debit balance on Srinivas's Account | 1,000 |
| 2     | Sold goods on credit to Srinivas    | 5,400 |
| 6     | Received from Srinivas              | 6,300 |
| 6     | Allowed him discount                | 100   |
| 10    | Srinivas bought goods on credit     | 1,500 |
| 15    | Received cash from Srinivas         | 1,450 |
| 15    | Allowed him Discount                | 50    |



|    |   |       |
|----|---|-------|
| 20 | Purchased goods on credit from Srinivas                 | 1,040 |
| 25 | Paid cash to Srinivas                                   | 500   |
| 28 | Returned goods to Srinivas                              | 140   |
| 31 | Paid cash to Srinivas in full settlement of his account | 390   |

**Solution :****Srinivas's Account**

Dr.

Cr.

| Date          | Particulars                   | JF | Amount<br>Rs. | Date          | Particulars     | JF | Amount<br>Rs. |
|---------------|-------------------------------|----|---------------|---------------|-----------------|----|---------------|
| 2007<br>Jan 1 | To Balance b/d                |    | 1,000         | 2007<br>Jan 6 | By Cash a/c     |    | 6,300         |
| 2             | To Sales a/c                  |    | 5,400         | 15            | By Discount a/c |    | 100           |
| 10            | To Sales a/c                  |    | 1,500         |               | By Cash a/c     |    | 1,450         |
| 25            | To Cash a/c                   |    | 500           | 20            | By Discount a/c |    | 50            |
| 28            | To Purchase<br>Returns a/c    |    | 140           |               | By Purchase a/c |    | 1,040         |
| 31            | To Cash a/c                   |    | 390           |               |                 |    |               |
|               | To Discount a/c<br>(Bal. Fig) |    | 10            |               |                 |    |               |
|               |                               |    | <b>8,940</b>  |               |                 |    | <b>8,940</b>  |

**4.4 TRIAL BALANCE**

With the knowledge of Journal and Ledger, it is now clear to us that some accounts show debit balance and some others show credit balance. But, as per double entry book keeping principles accounts are said to be arithmetically accurate only when total of all debit balances is equal to the total of all credit balances. So, the statement prepared by the accountant for this purpose of verification is known as Trial Balance. Thus, Trial Balance is a statement of all debit and credit balances.

It is prepared on a date and the following are the important columns that need to be provided.

- (1) Name of the account [Particulars]
- (2) Debit
- (3) Credit

### Proforma of a Trial balance

| S. No. | Name of Account | Debit Rs. | Credit Rs.s |
|--------|-----------------|-----------|-------------|
|        |                 |           |             |
|        |                 |           |             |

**Illu.4:** Record the following transactions in journal, post them to ledger, balance all ledger accounts (including temporary accounts) and prepare a trial balance as at April 1, 2007 to check the arithmetical accuracy of posting for the month of March 2007 :

- March 1** Commenced business with Cash Rs.40,000 and building worth Rs.2,00,000.
- 2** Deposited into bank Rs.25,000.
- 4** Cash Purchases Rs.5,000.  
Credit Purchases Rs.15,000.
- 6** Furniture purchased and cheque issued Rs.5,000.
- 8** Cash Sales Rs.15,000  
Credit Sales Rs.8,000
- 15** Received Rs.2,000 cash and a cheque of Rs.3,000 from a customer. Discount allowed Rs.500.
- 17** Paid salaries Rs.2,000.
- 20** Paid to suppliers Rs.5,000 cash and Rs.5,000 by cheque.

**Discount received Rs.1,000.**

**25 Paid cash to the petty cashier Rs.200.**

**28 Withdrew cash for personal use Rs.1,000.**

**Issued a cheque to pay tuition fees Rs.1,000.**

**31 Petty expenses incurred by the petty cashier 150.**

**Solution :**

### Journal Entries

| Date          | Particulars   | LF         | Debit<br>Amount Rs. | Credit<br>Amount Rs. |
|---------------|---|------------|---------------------|----------------------|
| 2007<br>Mar 1 | Cash a/c<br>Building A/c<br>To Capital a/c<br>(Being commencement of business<br>with cash & Building ) | Dr.<br>Dr. | 40,000<br>2,00,000  | 2,40,000             |
| 2             | Bank a/c<br>To Cash a/c<br>(Being cash deposited in bank)   | Dr.        | 25,000              | 25,000               |
| 4             | Purchases a/c<br>To Cash a/c<br>(Being cash purchases of goods)   | Dr.        | 5,000               | 5,000                |
|               | Purchases a/c<br>To Supplier a/c<br>(Being credit purchase of goods)                                    | Dr.        | 15,000              | 15,000               |
| 6             | Furniture a/c<br>To Bank a/c<br>(Being furniture purchased by cheque)                                   | Dr.        | 5,000               | 5,000                |
| 8             | Cash a/c<br>To sales a/c<br>(Being cash sale of goods)  | Dr.        | 15,000              | 15,000               |

|    |   |                   |  |                       |                         |
|----|---|-------------------|--|-----------------------|-------------------------|
| 15 | Cash a/c<br>Bank a/c<br>Discount Allowed a/c<br>To Customer a/c<br>(Being amount received from a customer and discount allowed) | Dr.<br>Dr.<br>Dr. |  | 2,000<br>3,000<br>500 | 5,500                   |
| 17 | Salaries a/c<br>To Cash a/c<br>(Being salaries paid)  | Dr.               |  | 2,000                 | 2,000                   |
| 20 | Supplier a/c<br>To Cash a/c<br>To Bank a/c<br>To Discount received a/c<br>(Being amount paid to supplier & discount received)   | Dr.               |  | 11,000                | 5,000<br>5,000<br>1,000 |
| 25 | Petty cash a/c<br>To Cash a/c<br>(Being payment of petty cashier)   | Dr.               |  | 200                   | 200                     |
| 28 | Drawings a/c<br>To Cash a/c<br>To Bank a/c<br>(Being amount withdrawn for purchaser)  | Dr.               |  | 2,000                 | 1,000<br>1,000          |
| 31 | Petty Expenses a/c<br>To Petty Cash a/c<br>(Being analysis of petty expenses)   | Dr.               |  | 150                   | 150                     |

**LEDGER BOOK**  
**Capital Account**

| Dr.            |                |                 | Cr.           |                 |                 |
|----------------|----------------|-----------------|---------------|-----------------|-----------------|
| Date           | Particulars    | Amount<br>Rs.   | Date          | Particulars     | Amount<br>Rs.   |
| 2007<br>Mar 31 | To Balance c/d | 2,40,000        | 2007<br>Mar 1 | By Cash a/c     | 40,000          |
|                |                |                 |               | By Building a/c | 2,00,000        |
|                |                | <b>2,40,000</b> |               |                 | <b>2,40,000</b> |
|                |                |                 | April 1       | By Balance b/d  | 2,40,000        |

**Building Account**

| Dr.           |                |                 | Cr.            |                |                 |
|---------------|----------------|-----------------|----------------|----------------|-----------------|
| Date          | Particulars    | Amount<br>Rs.   | Date           | Particulars    | Amount<br>Rs.   |
| 2007<br>Mar 1 | To Capital a/c | 2,00,000        | 2007<br>Mar 31 | By Balance c/d | 2,00,000        |
|               |                | <b>2,00,000</b> |                |                | <b>2,00,000</b> |
| April 1       | To Balance b/d | 2,00,000        |                |                |                 |

**Cash Account**

| Dr.           |                 |               | Cr.           |                   |               |
|---------------|-----------------|---------------|---------------|-------------------|---------------|
| Date          | Particulars     | Amount<br>Rs. | Date          | Particulars       | Amount<br>Rs. |
| 2007<br>Mar 1 | To Capital a/c  | 40,000        | 2007<br>Mar 2 | By Bank a/c       | 25,000        |
| 8             | To Sales a/c    | 15,000        | 4             | By Purchases a/c  | 5,000         |
| 15            | To Customer a/c | 2,000         | 17            | By Salaries a/c   | 2,000         |
|               |                 |               | 20            | By Supplier a/c   | 5,000         |
|               |                 |               | 25            | By Petty Cash a/c | 200           |
|               |                 |               | 28            | By Drawings a/c   | 1,000         |
|               |                 |               | 31            | By Balance c/d    | 18,800        |
|               |                 | <b>57,000</b> |               |                   | <b>57,000</b> |
| April 1       | To Balance b/d  | 18,800        |               |                   |               |

**Bank Account**

| Dr.           |                 |               | Cr.           |                  |               |
|---------------|-----------------|---------------|---------------|------------------|---------------|
| Date          | Particulars     | Amount<br>Rs. | Date          | Particulars      | Amount<br>Rs. |
| 2007<br>Mar 2 | To Cash a/c     | 25,000        | 2007<br>Mar 6 | By Furniture a/c | 5,000         |
| 15            | To Customer a/c | 3,000         | 20            | By Supplier a/c  | 5,000         |
|               |                 |               | 28            | By Drawings a/c  | 1,000         |
|               |                 |               | 31            | By Balance c/d   | 17,000        |
|               |                 | <b>28,000</b> |               |                  | <b>28,000</b> |
| April 1       | To Balance b/d  | 17,000        |               |                  |               |

**Purchases Account**

| Dr.           |                 |               | Cr.            |                |               |
|---------------|-----------------|---------------|----------------|----------------|---------------|
| Date          | Particulars     | Amount<br>Rs. | Date           | Particulars    | Amount<br>Rs. |
| 2007<br>Mar 4 | To Cash a/c     | 5,000         | 2007<br>Mar 31 | By Balance c/d | 20,000        |
|               | To Supplier a/c | 15,000        |                |                |               |
|               |                 | <b>20,000</b> |                |                | <b>20,000</b> |
| April 1       | To Balance b/d  | 20,000        |                |                |               |

**Furniture Account**

| Dr.           |                |               | Cr.            |                |               |
|---------------|----------------|---------------|----------------|----------------|---------------|
| Date          | Particulars    | Amount<br>Rs. | Date           | Particulars    | Amount<br>Rs. |
| 2007<br>Mar 6 | To Bank a/c    | 5,000         | 2007<br>Mar 31 | By Balance c/d | 5,000         |
|               |                | <b>5,000</b>  |                |                | <b>5,000</b>  |
| April 1       | To Balance b/d | 5,000         |                |                |               |

**Sales Account**

| Dr.            |                |               | Cr.           |                 |               |
|----------------|----------------|---------------|---------------|-----------------|---------------|
| Date           | Particulars    | Amount<br>Rs. | Date          | Particulars     | Amount<br>Rs. |
| 2007<br>Mar 31 | To Balance c/d | 23,000        | 2007<br>Mar 8 | By Cash a/c     | 15,000        |
|                |                |               |               | By Customer a/c | 8,000         |
|                |                | <b>23,000</b> |               |                 | <b>23,000</b> |
|                |                |               | April 1       | By Balance b/d  | 23,000        |

**Customer Account**

| Dr.           |                |               | Cr.            |                            |               |
|---------------|----------------|---------------|----------------|----------------------------|---------------|
| Date          | Particulars    | Amount<br>Rs. | Date           | Particulars                | Amount<br>Rs. |
| 2007<br>Mar 8 | To Sales a/c   | 8,000         | 2007<br>Mar 15 | By Cash a/c                | 2,000         |
|               |                |               |                | By Bank a/c                | 3,000         |
|               |                |               |                | By Discount<br>allowed a/c | 500           |
|               |                |               |                | By Balance c/d             | 2,500         |
|               |                | <b>8,000</b>  |                |                            | <b>8,000</b>  |
| April 1       | To Balance b/d | 2,500         |                |                            |               |

**Supplier Account**

| Dr.            |                             |               | Cr.           |                  |               |
|----------------|-----------------------------|---------------|---------------|------------------|---------------|
| Date           | Particulars                 | Amount<br>Rs. | Date          | Particulars      | Amount<br>Rs. |
| 2007<br>Mar 20 | To Cash a/c                 | 5,000         | 2007<br>Mar 4 | By Purchases a/c | 15,000        |
|                | To Bank a/c                 | 5,000         |               |                  |               |
|                | To Discount Received<br>a/c | 1,000         |               |                  |               |
| 31             | To Balance c/d              | 4,000         |               |                  |               |
|                |                             | <b>15,000</b> |               |                  | <b>15,000</b> |
|                |                             |               | April 1       | By Balance b/d   | 4,000         |

**Discount allowed Account**

| Dr.            |                 |               | Cr.            |                |               |
|----------------|-----------------|---------------|----------------|----------------|---------------|
| Date           | Particulars     | Amount<br>Rs. | Date           | Particulars    | Amount<br>Rs. |
| 2007<br>Mar 15 | To Customer a/c | 500           | 2007<br>Mar 31 | By Balance c/d | 500           |
|                |                 | <b>500</b>    |                |                | <b>500</b>    |
| April 1        | To Balance b/d  | 500           |                |                |               |

**Salaries Account**

| Dr.            |                |               | Cr.            |                |               |
|----------------|----------------|---------------|----------------|----------------|---------------|
| Date           | Particulars    | Amount<br>Rs. | Date           | Particulars    | Amount<br>Rs. |
| 2007<br>Mar 17 | To Cash a/c    | 2,000         | 2007<br>Mar 31 | By Balance c/d | 2,000         |
|                |                | <b>2,000</b>  |                |                | <b>2,000</b>  |
| April 1        | To Balance b/d | 2,000         |                |                |               |



**Discount Received Account**

Dr.

Cr.

| Date           | Particulars    | Amount<br>Rs. | Date           | Particulars     | Amount<br>Rs. |
|----------------|----------------|---------------|----------------|-----------------|---------------|
| 2007<br>Mar 31 | To Balance c/d | 1,000         | 2007<br>Mar 20 | By Supplier a/c | 1,000         |
|                |                | <b>1,000</b>  |                |                 | <b>1,000</b>  |

**Petty Cash Account**

Dr.

Cr.

| Date           | Particulars    | Amount<br>Rs. | Date           | Particulars              | Amount<br>Rs. |
|----------------|----------------|---------------|----------------|--------------------------|---------------|
| 2007<br>Mar 25 | To Cash a/c    | 200           | 2007<br>Mar 31 | By Petty expenses<br>a/c | 150           |
|                |                |               |                | By Balance c/d           | 50            |
|                |                | <b>200</b>    |                |                          | <b>200</b>    |
| April 1        | To Balance b/d | 50            |                |                          |               |

**Drawing Account**

Dr.

Cr.

| Date           | Particulars    | Amount<br>Rs. | Date           | Particulars    | Amount<br>Rs. |
|----------------|----------------|---------------|----------------|----------------|---------------|
| 2007<br>Mar 28 | To Cash a/c    | 1,000         | 2007<br>Mar 31 | By Balance c/d | 2,000         |
|                | To Bank a/c    | 1,000         |                |                |               |
|                |                | <b>2,000</b>  |                |                | <b>2,000</b>  |
| April 1        | To Balance b/d | 2,000         |                |                |               |

**Petty Expenses Account**

Dr.

Cr.

| Date           | Particulars       | Amount<br>Rs. | Date           | Particulars    | Amount<br>Rs. |
|----------------|-------------------|---------------|----------------|----------------|---------------|
| 2007<br>Mar 31 | To Petty Cash a/c | 150           | 2007<br>Mar 31 | By Balance c/d | 150           |
|                |                   | <b>150</b>    |                |                | <b>150</b>    |
| April 1        | To Balance b/d    | 150           |                |                |               |

| S. No. | Particulars           | LF | Amount<br>Rs.   | Amount<br>Rs.   |
|--------|-----------------------|----|-----------------|-----------------|
| 1.     | Capital a/c           |    | -               | 2,40,000        |
| 2.     | Building a/c          |    | 2,00,000        | -               |
| 3.     | Cash a/c              |    | 18,800          | -               |
| 4.     | Bank a/c              |    | 17,000          | -               |
| 5.     | Purchases a/c         |    | 20,000          | -               |
| 6.     | Furniture a/c         |    | 5,000           | -               |
| 7.     | Sales a/c             |    | -               | 23,000          |
| 8.     | Customer a/c          |    | 2,500           | -               |
| 9.     | Supplier a/c          |    | -               | 4,000           |
| 10.    | Discount Allowed a/c  |    | 500             | -               |
| 11.    | Salaries a/c          |    | 2,000           | -               |
| 12.    | Discount Received a/c |    | -               | 1,000           |
| 13.    | Petty Cash a/c        |    | 50              | -               |
| 14.    | Drawings a/c          |    | 2,000           | -               |
| 15.    | Petty expenses a/c    |    | 150             | -               |
|        | <b>Total</b>          |    | <b>2,68,000</b> | <b>2,68,000</b> |

## 4.5 QUESTIONS

### A. Short Answer Questions :

1. What is Journal
2. What is a compound entry?
3. What is a Ledger?
4. What is a Trial Balance?
5. Give a format of a journal and briefly explain its contents
6. Enumerate any five utilities of ledger

### B. Eassy Type Questions :

1. Explain the procedure of posting
2. Explain the procedure for balancing a ledger account
3. Explain the methods of preparing a trial balance.
4. Distinguish between Journal and Ledger.

## 4.6 EXERCISES

1. Journalise the following transactions.

| 2006     |   | Rs.    |
|----------|---|--------|
| August 1 | Shri Rajan invested to business                             | 20,000 |
| 2        | Opened an account with the bank of India by depositing cash | 10,000 |
| 3        | Purchased goods for cash                                    | 500    |
| 4        | Purchased machinery for cash                                | 800    |
| 5        | Cash purchases of goods                                     | 300    |
| 6        | Cash sales  | 900    |
| 15       | Withdraw cash for personal use                              | 200    |
| 16       | Purchased goods from Preetam & Sons on credit               | 600    |
| 25       | Received cash on account from Ramanand                      | 350    |
| 26       | Paid cash to Minakshi Bros                                  | 250    |
| 29       | Paid rent   | 125    |
| 30       | Received Commission   | 175    |
| 30       | M/s Ram & Sons returned goods                               | 100    |

2. Journalise the following transactions in the books of Sudhir Kumar

| <b>2006</b> |  | <b>Rs.</b> |
|-------------|--|------------|
| Jan.1       | Sudhir commenced business with cash          | 40,000     |
| 3           | Purchased goods for cash                     | 500        |
| 5           | Sold goods for cash                          | 300        |
| 6           | Purchased one motor car for cash             | 15,000     |
| 9           | Sold machinery for cash                      | 9,000      |
| 11          | Purchased a building on credit from Narendra | 20,000     |
| 15          | Sold furniture on credit to Randhir Kapoor   | 9,500      |
| 17          | Paid Cartage                                 | 110        |
| 22          | Received Commission                          | 50         |
| 27          | Cash Sales                                   | 1,200      |
| 29          | Cash Purchases                               | 600        |
| 30          | Received on account from Ahmed               | 350        |
| 31          | Paid cash to Sunit kumar on account          | 190        |

3. Pass Journal entries of the following transactions in the books of Rajesh.

| <b>2006</b> |   | <b>Rs.</b> |
|-------------|---|------------|
| July 1      | Rajesh commenced business with cash                                       | 16,000     |
| 3           | He bought goods as his capital in beginning                               | 4,000      |
| 7           | Sold goods to Dinesh on credit  | 6,500      |
| 8           | Purchased a horse for cash  | 3,100      |
| 17          | Ramesh's a/c which is over due is closed as the amount is not recoverable | 700        |
| 20          | Goods burnt by fire   | 390        |
| 21          | Received cash on account from Dinesh                                      | 3,300      |
| 25          | Goods distributed as free samples   | 325        |

4. Journalise the following transactions in the books of Ram. Post them in the ledger and balance the various accounts opened in the ledger.

| 2006    |  | Rs.    |
|---------|--|--------|
| April 2 | Ram started his business with cash   | 70,000 |
| 3       | Deposited into bank  | 50,000 |
| 4       | Purchased goods for cash from Mr. X  | 5,000  |
| 5       | Bought goods on credit from Mr. Y  | 6,000  |
| 6       | Returned goods to Y  | 1,000  |
| 10      | Sold goods for cash for to Mr .A.  | 6,000  |
| 15      | Sold goods to Mr. B  | 6,000  |
| 16      | Mr. B Returned goods   | 1,000  |
| 17      | Drew from bank for personal use  | 5,000  |
| 25      | Paid to Mr. Y in full settlement by cheque   | 4,800  |
| 26      | Received a cheque from Mr. B in full settlement                                      | 4,900  |
| 27      | Drew cash from bank for office use   | 10,000 |
| 30      | Drew cash for personal purposes  | 5,000  |
| 30      | Paid salaries to staff   | 5,000  |
| 30      | Issued a cheque for Rs.3,000 in favour of Sri Devi a landlady towards rent for April |        |
| 30      | Withdrew goods for private use   | 1,000  |

5. Journalise the following transactions in the books of Mr. X Post them in the ledger and balance the various accounts opened in the ledger also prepare Trial balance.

| 2006    |                                    | Rs.    |
|---------|------------------------------------|--------|
| April 1 | Mr. X Commenced business with cash | 80,000 |
| 4       | Purchased furniture                | 22,000 |
| 5       | Bought goods for cash from Mr. Y   | 24,000 |
| 8       | Purchased goods from Mr. Z         | 40,000 |
| 12      | Sold goods on credit to Mr.A       | 10,400 |

|    |                                |        |
|----|--------------------------------|--------|
| 16 | Received from Mr.A on account  | 4,800  |
| 20 | Sold goods for cash to Mr. B   | 5,200  |
| 21 | Paid to Mr. Z on account       | 12,000 |
| 27 | Withdrew cash for personal use | 500    |
| 28 | Brought in further capital     | 10,000 |
| 29 | Paid to Mr. Z on account       | 16,000 |
| 30 | Paid to General expenses       | 250    |
| 30 | Paid Rent                      | 520    |
| 30 | Paid Salaries to employees     | 12,000 |

## 4.7 SUGGESTED BOOKS

1. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
2. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
3. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
4. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
5. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

## Chapter - 5

# SUBSIDIARY BOOKS

### Objectives :

**After going to this unit we should be able to**

- Know about various types of subsidiary books
- Prepare various types of subsidiary books

### Structure :

**5.1 Introduction**

**5.2 Advantages of Subsidiary Books**

**5.3 Purchases Book**

**5.4 Sales Book**

**5.5 Journal Proper**

**5.6 Questions**

**5.7 Exercises**

**5.8 Suggested Readings**

## 5.1. INTRODUCTION

In earlier times, businessmen used only one Journal for recording all the business transactions. Since the volume of business was small, and the number of transactions very few, "Journal" as a book of accounts was convenient. But with the growth of business, the number of transactions increased manifold and the need was felt to have a better method of recording business transactions. If all these business transactions were recorded in one and the same Journal, the journal would be bulky and cumbersome. It would be very difficult to make a ready reference to such a Journal. Moreover, it is impossible for many clerks to work on the same Journal at one and the same time. Under such circumstances, it becomes necessary to divide the whole Journal into several subsidiary Journals so that work can be assigned to many at one and the same time. In

each separate journal, one particular class of business transactions is recorded. That means the purchase Journal may be maintained to record credit purchases of goods and a Cash Book for recording cash transactions. Instead of recording all the transactions in one and the same journal, they are recorded in separate journals meant for the purpose.

Therefore, in order to meet the requirements of modern business, the original journal is divided into the following:

1. Purchase Book
2. Sales Book
3. Purchase Return Book (Return Outward Book)
4. Sales Return Book (Return Inward Book)
5. Cash Book
6. Bills Receivable Book
7. Bills Payable Book
8. Journal Proper

The chart given below indicates the different types of subsidiary books or journals and the category of business transactions recorded in them:

#### **Subsidiary Books (Sub- Division of Journal)**

| <b>Subsidiary Book /<br/>Subsidiary Journal</b> | <b>Category of Business Transactions<br/>Recorded</b>  |
|---|--|
| 1. Purchase Book                                | Credit Purchases of goods only.  |
| 2. Sales Book                                   | Credit Sales of goods only.  |
| 3. Purchase Return Book (Return Outward Book)   | All return of goods purchased by us from suppliers i.e. Return Outwards.   |
| 4. Sales Return Book (Return Inward Book)       | All return of goods sold by us to customers i.e. Return Inwards.   |
| 5. Cash Book                                    | All cash and Bank transactions.  |
| 6. Bills Receivable Book                        | All Bills received by us.  |
| 7. Bills Payable Books                          | All bills accepted by us.  |
| 8. Journal Proper                               | All such transactions which cannot be entered in the above seven books.<br>(Recorded in the form of journal entries) |



## 5.2 ADVANTAGES OF SUBSIDIARY BOOKS

The advantages of using Special Journals are as under:

- (a) **Facilitates division of work:** The accounting work can be divided among many persons.
- (b) **Permits the installation of internal check system:** The accounting work can be divided in such a manner that the work of one person is automatically checked by another person. With the use of internal check, the possibility of occurrence of error/ fraud may be avoided.
- (c) **Permits the use of specialised skill:** The accounting work requiring specialised skill may be assigned to a person possessing the required skill. With the use of a specialised skill, prompt, economical and more accurate supply of accounting information may be obtained.
- (d) **Time and labour saving in journalising and posting:** For instance, when Sales Book is kept, the name of Sales Account will not be required to be written down in the journal as many times as the sales transactions and at the same time, Sales Account will not be required to be posted again and again since only a periodic total of Sales Book is posted to the Sales Account.

## 5.3 PURCHASE BOOK

This book is maintained mainly to record purchase in business. But here care must be exercised before entering the purchase transactions in this book. Only credit purchases are to be recorded in this book. Credit purchases means the purchase of goods without making payment on the spot. Such purchases are known as credit purchases. Purchases of goods on credit in which the trader deals is recorded in this journal. For example, if a Cloth Merchant has purchased cloth on a credit basis, that will be recorded in the Purchase Book. But if he has purchased furniture on credit, it will not appear in the Purchase Book since it is a purchase of an asset.

The entries in the purchases book are made on the basis of invoices received from the suppliers with the amounts net of trade discount / quantity discount. Trade discount is a reduction granted by a supplier from the list price of goods or services on business considerations (such as quantity bought, trade practice, etc.) other than for prompt payment.

**Formate of Purchase Book:**

| Date | Particulars | L.F. | Inward Invoice No, | Details | Amount Rs. | Amount Rs. |
|------|-------------|------|--------------------|---------|------------|------------|
|      |             |      |                    |         |            |            |

**5.3.1 Explanation of Columns:**

- Date:** Date of purchases is written in this column.
- Particulars:** In this column, the names of the suppliers are entered. There is no need to write the address of the supplier since it appears, on the Invoice itself.
- L.F :** Page number of the "Ledger", on which the account of the supplier appears, is entered in this column.
- Inward Invoice No:** All inward invoices are filed properly, and the consecutive number of the Invoice is shown in this column.
- Details:** The value of goods purchased and amount of trade discount are written.
- Amount:** The net amount of purchases is entered in this column. Only the amount after deducting trade discount is recorded here.

**5.3.2 INVOICE:****Specimen of an Inward Invoice**

| INVOICE  |             |      |  |            |         |  |
|--|-------------|------|--|------------|---------|--|
| Reliance Co. Ltd.<br>40, Jawaharlal Nehru Road<br>Mumbai – 700016. |             |      | No.786 / 90<br>Date: 19 <sup>th</sup> Feb, 2007    |            |         |  |
|  |             |      | Customer Name Ram & Sons<br>R.P. Road<br>Hyderabad |            |         |  |
| Date   | Description | Rate | Amount   | Total (Rs) | Remarks |  |
|  |             |      |  |            |         |  |
| E & O. E.  |             |      |  |            |         |  |

The invoice is the basis of writing a Purchase Book. Transactions are recorded in the Purchase Book from the Invoices received from the suppliers. Hence it is necessary to know about Invoices.

An invoice is a statement sent by the Seller to the buyer giving a full description of the goods supplied.

All the invoices received are properly arranged and consecutively numbered. They are filed in a proper file and then the purchase transactions are recorded in the Purchase Book.

When the trader receives such an invoice, he has to verify whether the goods are received as per the details given in the invoice in regard to quantity, quality etc. He also checks whether the calculations are made correctly. If the invoice is found to be correct in all respects it is given a serial number and after an entry is made in the purchase book, it is filed. All such invoices received are called Inward invoices.

### 5.3.3 Trade Discount:

Trade Discount is a reduction made in the catalogue price of an article to enable the retailer to earn a profit. Generally, it is recorded in the Purchase Book and Sales Book but it does not enter in the ledger accounts. In the ledger, only net amount of purchase and sale are entered.

**Illu 1: Enter the following in the Purchase Book also post them into ledger.**

| <b>2007</b> |   | <b>Rs.</b> |
|-------------|---|------------|
| Aug 10      | Bought goods from Murali Mohan            | 5,000      |
| Aug 15      | Bought goods from Ranga Rao               | 4,000      |
| Aug 20      | Purchased goods from Gopal                | 8,000      |
| Aug 25      | Purchased goods from Harikrishna for cash | 10,000     |
| Aug 31      | Purchased goods from Kavitha              | 6,000      |

**Solution :****Purchases Book**

| Date   | Particulars       | Invoice No. | L. F. | Amount Rs.    |
|--------|-------------------|-------------|-------|---------------|
| 2007   |                   |             |       |               |
| Aug 10 | Murali Mohan      |             |       | 5,000         |
| 15     | Rama Rao          |             |       | 4,000         |
| 20     | Gopal             |             |       | 8,000         |
| 31     | Kavitha           |             |       | 6,000         |
| Aug 31 | Purchases a/c Dr. |             |       | <b>23,000</b> |

**Note:**

1. Purchases Book deals only with credit purchases. As such purchase of goods from Hari Krishna for cash is not entered in this book.

**5.4 SALES BOOK**

A separate book is maintained to record all credit sales. The manner of recording sales in this Book is the same as in the case of the Purchase Book. The book is also known as the Sales Day Book or Sales Journal. The rulings of this book and other principles are almost identical with those of the Purchase Book.

Before entering the transactions in the Sales Book, it should be seen that the transaction satisfies the below mentioned two conditions:

1. It is a sale of articles on credit basis.
2. It is a sale of articles in which a businessman deals.

Sales of goods on a cash basis or the sale of an asset on a Cash / Credit basis cannot be entered in the Sales Book. Supposing a merchant dealing in radios, sells radios on credit, that will be entered in the sales book. But if he sells a Typewriter that being the sale of an asset on credit, will not be entered in the Sales Book:

### 5.4.1 Procedure for Writing – up the Sales Day Book

When goods are sold on credit, an outward invoice is prepared for every credit sale and are checked as to quality, quantity and price of the goods before they are dispatched to the customers. The duplicate copy of the invoice remains with the firm and the original copy is sent to the customer. Sales Day Book is written – up on the basis of duplicate outward invoice.

| <b>INVOICE</b>            |             |      |        |                                 |         |
|---------------------------|-------------|------|--------|---------------------------------|---------|
|                           |             |      |        | No. P. 29                       |         |
|                           |             |      |        | Date: 9 <sup>th</sup> June 2007 |         |
| Jeenath Co. Ltd.          |             |      |        |                                 |         |
| 31, Jawaharlal Nehru Road |             |      |        |                                 |         |
| Hyderabad.                |             |      |        |                                 |         |
|                           |             |      |        | Customer' Name Allwin Co. Ltd.  |         |
|                           |             |      |        | Hyderabad                       |         |
| Qty.                      | Description | Rate | Amount | Total<br>(Rs)                   | Remarks |
|                           |             |      |        |                                 |         |
| E & O. E.                 |             |      |        |                                 |         |

The invoice contains the following details:

- (i) The names and addresses of both the parties to the contract.
- (ii) An exact description of the goods, including the quantity, rate and total value of the goods sold.
- (iii) The terms and conditions of sales (on the overleaf).

E & O. E. means Errors and Omissions Excepted. The market reserves the right to correct any error in the invoice.

The ruling of the Sales Day Book is given below:

**Sales Day Book**

| <b>Date</b> | <b>Particulars</b> | <b>Outward Invoice No.</b> | <b>L. F.</b> | <b>Debit Rs.</b> | <b>Credit Rs.</b> |
|-------------|--------------------|----------------------------|--------------|------------------|-------------------|
|             |                    |                            |              |                  |                   |

- (i) In the "Date" column, the date on which invoice is prepared is entered.
- (ii) In the "Particulars" column, the names of the customers are recorded. A brief description of each of article sold are also written in this column.
- (iii) In the "Outward Invoice No." column, the serial no. of Outward Invoice is written.
- (iv) In the "L. F." column, the page no. of the Debtors' account in the Debtors' Ledger is written.
- (v) In the "Details" column, the value of the goods sold and amount of trade discount is written.
- (vi) In the "Total" column the actual amount receivable from debtors is written.

**Illu.2 : Enter the following transactions in Sales Books of Narayana**

| <b>2007</b>       |                                     | <b>Rs.</b>    |
|-------------------|-------------------------------------|---------------|
| <b>February 2</b> | <b>Credit sales to Sravan</b>       | <b>8,000</b>  |
| <b>7</b>          | <b>Goods sold to Hari on credit</b> | <b>9,000</b>  |
| <b>12</b>         | <b>Sold goods to Rajesh</b>         | <b>6,000</b>  |
| <b>16</b>         | <b>Goods returned by Rajesh</b>     | <b>800</b>    |
| <b>20</b>         | <b>Credit sales to Kishore</b>      | <b>7,000</b>  |
| <b>24</b>         | <b>Credit Sales to Siva</b>         | <b>12,000</b> |
| <b>27</b>         | <b>Sold goods to Sankar</b>         | <b>13,000</b> |

**Solution :****Sales Book**

| <b>Date</b>             | <b>Customer Name</b> | <b>L.F.</b> | <b>Invoice No.</b> | <b>Amount</b> |
|-------------------------|----------------------|-------------|--------------------|---------------|
| Feb 2                   | Sravan               |             |                    | 8,000         |
| 7                       | Hari                 |             |                    | 9,000         |
| 12                      | Rajesh               |             |                    | 6,000         |
| 20                      | Kishore              |             |                    | 7,000         |
| 24                      | Siva                 |             |                    | 12,000        |
| 27                      | Sankar               |             |                    | 13,000        |
| <b>Sales Book Total</b> |                      |             |                    | <b>55,000</b> |

**5.4.2 Sales book with Sales Tax Column:**

It is the duty of the seller to realise sales tax from customers and deposit it to the Government. Sales tax is calculated at a fixed percentage on the net price of the goods, i.e., after trade discount. Generally a separate column is provided in the Sales Day Book for Sales tax. Periodically, the total of sales tax column is credited to Sales Tax Account. When actual payment is made to the Government, the Sales Tax Account is debited and Cash / Bank Account is credited and any Balance of Sales Tax Account at the end of the year is shown in the Balance Sheet as a liability.

**5.4.3 Purchases Returns Book:**

It may be necessary to return some goods that the firm has bought on credit for a variety of reasons such as defective or excess quantity of goods supplied, etc. All return of goods are recorded primarily in the Purchases Returns Book.

When a firm returns some goods to its supplier, it prepares a "Debit Note" and sends it along with the goods returned. The supplier, in turn, will prepare a "Credit Note". The original copy of the credit note will be sent to the firm. Entries in the Purchases Returns Book are made on the basis of original "Credit Note" received from the supplier. On receipt, all credit notes should be numbered consecutively and should be filed properly for future reference.

The specimen of the Purchase Returns Book is given below:

**Purchases Returns Book**

| Date | Particulars | Credit Note No. | L. F. | Rs. | Remarks |
|------|-------------|-----------------|-------|-----|---------|
|      |             |                 |       |     |         |

**Illu.3 :** M/s Naval Handicrafts Emporium, Madras returned the following goods to different parties. Prepare purchase returns book.

|                |   |
|----------------|---|
| <b>2007</b>    |   |
| <b>June 10</b> | <b>Kalanjali, Hyderabad (Debit Note No. 6) 30 Wooden Toy Elephants at Rs.15 per toy Trade discount 20%</b>    |
| <b>22</b>      | <b>Bharathi Arts works, Madhurai (Debit Note No. 7) 40 toys each toy at Rs.12, Trade discount 10%</b>         |
| <b>29</b>      | <b>Modern Cultural Palace, Tanjavoor (Debit Note No. 8) 10 Tanjavoor plates at Rs.80. Trade discount 20%.</b> |

**Solution :**

**Purchases Returns Book**

| Date    | Particulars                         | Invoice No. | L. F. | Debit Note | Amount<br>Rs. |
|---------|-------------------------------------|-------------|-------|------------|---------------|
| 2007    |                                     |             |       |            |               |
| June 10 | Kalanjali, Hyderabad                |             |       | 6          | 360           |
| June 22 | Bharati Arts Works, Madhurai        |             |       | 7          | 432           |
| June 29 | Modern cultural Palace,<br>Tanjavur |             |       | 8          | 640           |
| June 30 | Total                               |             |       |            | <b>1,432</b>  |



**5.4.4 Sales Returns Book:**

Goods may be returned by the customers for a variety of reasons such as wrong quantity and/or quality. All goods returned by the customers are primarily recorded in this book.

When goods are returned by the customer, a "Credit Note" is made out in his name. A Credit Note is prepared in duplicate. The original being sent to the customer for his information and record. The duplicate is preserved in the file for future reference. Duplicate credit Note provides information for recording in the Sales Returns Book.

The specimen ruling of the Sales Returns Book is given below:

**Sales Returns Book**

| <b>Date</b> | <b>Particulars</b> | <b>Credit Note No.</b> | <b>L. F.</b> | <b>Rs.</b> | <b>Remarks</b> |
|-------------|--------------------|------------------------|--------------|------------|----------------|
|             |                    |                        |              |            |                |

**Illu.4 :: M/s Utility Garments Corporation, Tirupathi received the returns goods from various customers. Prepare sales returns account.**

|               |   |
|---------------|---|
| <b>2007</b>   |   |
| <b>Feb 10</b> | <b>Return of goods from Nityanandam &amp; Sons 25 Tea shirts at Rs. 100 per each shirt. Trade discount 10%, Credit Note No. 8</b> |
| <b>19</b>     | <b>Return of goods from M/s. Sumitra &amp; sons 20 Pants at Rs.300 per pant. Trade discount 10% Credit Note No. 9</b>             |
| <b>24</b>     | <b>Return of goods from M/s. Nataraj &amp; Co. 20 Pants at Rs.250 per pant. Trade discount 10% Credit Note No. 10</b>             |

**Solution :****Sales Returns Book**

| <b>Date</b> | <b>Particulars</b>     | <b>L. F.</b> | <b>Credit<br/>Note No.</b> | <b>Amount<br/>Rs.</b> |
|-------------|------------------------|--------------|----------------------------|-----------------------|
| 2007        |                        |              |                            |                       |
| Feb 10      | M/s Nityanandam & Sons |              | 8                          | 2,250-00              |
| Feb 19      | M/s Sumitra & Sons     |              | 9                          | 5,400-00              |
| Feb 24      | M/s Nataraj & Company  |              | 10                         | 4,500-00              |
| Feb 28      | Total                  |              |                            | <b>12,150-00</b>      |

**Illu.5 : Enter the following transactions in suitable subsidiary books:**

| <b>Jan</b> |  | <b>Rs.</b>   |
|------------|--|--------------|
| <b>1</b>   | <b>Purchased goods from Rekaha</b>       | <b>7,500</b> |
| <b>4</b>   | <b>Sold goods to Midhun</b>              | <b>8,000</b> |
| <b>5</b>   | <b>Returned goods to Rekha</b>           | <b>500</b>   |
| <b>6</b>   | <b>Sridevi bought goods from us</b>      | <b>4,000</b> |
| <b>8</b>   | <b>Received goods returned by Midhun</b> | <b>400</b>   |
| <b>10</b>  | <b>Rajesh sold goods to us</b>           | <b>4,000</b> |
| <b>15</b>  | <b>Sold goods to Kishore</b>             | <b>3,000</b> |
| <b>16</b>  | <b>Returned goods to Rajesh</b>          | <b>600</b>   |
| <b>20</b>  | <b>Kishore returns goods</b>             | <b>500</b>   |

**Solution :****Purchase Book**

| <b>Date</b> | <b>Particulars</b> | <b>L.F. No.</b> | <b>Invoice<br/>No.</b> | <b>Amount<br/>Rs.</b> |
|-------------|--------------------|-----------------|------------------------|-----------------------|
| Jan 1       | Rekha              |                 |                        | 7,500                 |
| 10          | Rajesh             |                 |                        | 4,000                 |
|             | Total              |                 |                        | <b>11,500</b>         |

**Sales Book**

| <i>Date</i> | <i>Particulars</i> | <i>L.F. No.</i> | <i>Invoice No.</i> | <i>Amount Rs.</i> |
|-------------|--------------------|-----------------|--------------------|-------------------|
| Jan 4       | Midhun             |                 |                    | 8,000             |
| 6           | Sridevi            |                 |                    | 4,000             |
| 15          | Kishore            |                 |                    | 3,000             |
|             | Total              |                 |                    | <b>15,000</b>     |

**Purchase Returns Book**

| <i>Date</i> | <i>Particulars</i> | <i>L.F. No.</i> | <i>Invoice No.</i> | <i>Amount Rs.</i> |
|-------------|--------------------|-----------------|--------------------|-------------------|
| Jan 5       | Rekha              |                 |                    | 500               |
| 16          | Rajesh             |                 |                    | 600               |
|             | Total              |                 |                    | <b>1,100</b>      |

**Sales Returns Book**

| <i>Date</i> | <i>Particulars</i> | <i>L.F. No.</i> | <i>Invoice No.</i> | <i>Amount Rs.</i> |
|-------------|--------------------|-----------------|--------------------|-------------------|
| Jan 8       | Midhun             |                 |                    | 400               |
| 20          | Kishore            |                 |                    | 500               |
|             | Total              |                 |                    | <b>900</b>        |

**5.4.5 Bills Receivable Book:**

For large organisations, where numerous bills of exchanges are drawn on debtors, it is advantageous to enter them primarily in the Bills Receivable Book.

**Bills Receivable Book**

| <b>Bill No.</b> | <b>Date Recd.</b> | <b>From whom Recd.</b> | <b>Drawer</b> | <b>Acceptor</b> | <b>Date of Bill</b> | <b>Term</b> | <b>Due Date</b> | <b>L. F.</b> | <b>Rs.</b> |
|-----------------|-------------------|------------------------|---------------|-----------------|---------------------|-------------|-----------------|--------------|------------|
| (1)             | (2)               | (3)                    | (4)           | (5)             | (6)                 | (7)         | (8)             | (9)          | (10)       |

- (1) Bill No. – In this column, the serial number of the bill is entered.
- (2) Date Received – This column is used for entering actual date on which the bill is received.
- (3) From Whom Received – This column records the name of the debtor from whom the bill is received.
- (4) Drawer – This column records the name of the drawer of the bill.
- (5) Acceptor – This column records the name of the acceptor.

- (6) Date of the bill – This column records the actual date of drawing of the bill.
- (7) Term – This column is used for entering the period of the bill, e.g., 60 days, 3 months, etc.
- (8) Due Date – This column records the date on which the bill is payable.
- (9) L. F. – The page no. of Debtors' Ledger is entered here.
- (10) Amount – This records the value of the bill.

#### 5.4.6 Bills Payable Book:

Where numerous bills payable are accepted, drawn by the creditors, it is advantageous to enter them primarily in the Bills Payable Book.

##### Bills Payable Book

| Bill No. | Date Accepted | To whom given | Drawer | Date of Bill | Term | Due Date | L. F. | Rs. |
|----------|---------------|---------------|--------|--------------|------|----------|-------|-----|
| (1)      | (2)           | (3)           | (4)    | (5)          | (6)  | (7)      | (8)   | (9) |

- (1) Bill No. – This column, records the serial no. of bills accepted.
- (2) Date Accepted – This column records the actual date of acceptance of the bill.
- (3) To Whom given – This column records the name of the person to whom the bill is given.
- (4) Drawer – This column records the name of the drawer of the bill.
- (5) Date of Bill – This column records the actual date of drawing of the bill.
- (6) Term – This column is used for entering the period of the bill, e.g., 60 days, 3 months, etc.
- (7) Due Date – This column records the date on which the bill is payable
- (8) L. F. – Page no. of Creditors' Ledger is entered here.
- (9) Amount – This records the value of the bills payable.

## 5.5 JOURNAL PROPER

Journal Proper is used for making the original record of those transactions which do not find a place in any of the aforesaid books of original entry.

Entries recorded in the Journal Proper may be classified as follows:

- (1) Opening entries; (2) Closing entries; (3) Transfer entries; (4) rectification of Errors entries;
- (5) Adjustment entries; (6) Credit Purchase of assets; (7) Credit sale of worn – out or obsolete

assets, (8) Credit purchase of Stationery etc. The specimen ruling of the Journal Proper is given below:

### Journal Proper

| Date | Particulars | L. F. | Rs. | Rs. |
|------|-------------|-------|-----|-----|
| (1)  | (2)         | (3)   | (4) | (5) |

(1) Date – This column records the date of transaction.

(2) Particulars – This column records the name of the accounts debited or credited. The account debited is written first, adjacent to the line of date and the account credited is written below with the prefix “To”. In this column, the narration is also recorded.

(3) L. F. – This column records the page no. of ledger in which this account has been posted.

(4) Dr. Column – It records the debit amount.

(5) Cr. Column – it records the Credit amount.

#### (1) Opening Entries:

Opening entries are used at the beginning of the financial year to open the books by recording the assets, liabilities and capital, appearing in the Balance Sheet of the previous year. The rule to be applied is:

|                        |     |
|------------------------|-----|
| Assets Account         | Dr. |
| To Liabilities Account |     |
| To Capital Account.    |     |

#### (2) Closing Entries:

Closing entries are used at the end of accounting year for closing off accounts relating to expenses and revenues. These accounts are closed off by transferring their balances to the Trading and Profit and loss Accounts. Since records must not be made in the ledger without journal entries, closing entries are passed in the Journal Proper first and then posted to the ledger.

#### (3) Transfer Entries:

Transfer entries are passed in the Journal Proper for transferring an item, entered in one account, to another account.

**(4) Rectification of Errors:**

Mistake which has been made in passing an entry should be corrected by passing another entry in the Journal Proper and the practice of erasures should not be tolerated.

**(5) Adjustment Entries:**

Before preparation of Final Accounts, certain adjustment is required in respect of outstanding expenses, prepaid expenses, provision for doubtful debts, etc. Entries made for such adjustment is called Adjustment Entries and is done in the Journal Proper.

**Illu.6 : Pass adjustment entries for the following:**

- i) **Wages outstanding Rs.500.**
- ii) **Interest on Capital Rs.720.**
- iii) **Goods destroyed by fire accident Rs.7,000 out of which insurance company admits the claim for Rs.5,200.**

**Solution :**

**Journal Entries**

| Date | Particulars  |     | L.F | Debit<br>Rs.   | Credit<br>Rs. |
|------|--|-----|-----|----------------|---------------|
| 1    | Wages a/c<br>To Outstanding Wages a/c<br>(Being the adjustment of outstanding wages)   | Dr. |     | 500            | 500           |
| 2.   | Interest on Capital a/c<br>To Capital a/c<br>(Being the interest on capital calculated)  | Dr. |     | 720            | 720           |
| 3.   | Insurance claim a/c<br>Profit and Loss a/c<br>To Abnormal loss a/c<br>(Being the insurance claim admitted and the balance transfer to P & L account) | Dr. |     | 5,200<br>1,800 | 7,000         |

**5.6 QUESTIONS****A. Short Answer Questions**

1. What are the advantages of subsidiary books of accounts?
2. What is a purchase book? What conditions are to be satisfied before a transaction is recorded in the book?
3. Explain the nature and use of a sales book.

4. What is Invoice?
5. What is a Debit note? What is the use of a Debit Note?
6. What is a Credit Note? What is the use of a Credit Note?
7. Differences between debit note and credit note.
8. What is journal proper?
9. What kind of entries are passed in a journal proper?

### B. Essay Questions

1. Explain various types of subsidiary books.
2. What is a subsidiary book? Why are they to be maintained?
3. Prepare purchases book and sales book with hypothetical figures.
4. Explain sales returns book and purchase returns book with proforma

## 5.7 EXERCISES

1. Record the following transactions in the purchases book and post them in the ledger.

| 2006   |   | Rs.   |
|--------|---|-------|
| July 1 | Bought goods from Arvind & Co. for                        | 500   |
| 3      | Sunder & Co. invoiced goods to us                         | 700   |
| 4      | Purchased one typewriter for office use from Godrej Ltd.  | 1,100 |
| 6      | Dinanath sold goods to us (Rs.500 less 5% trade discount) | 475   |
| 7      | Cash purchases  | 300   |

**[Ans.: Purchases Book Total Rs.1,675]**

2. Enter the following transactions in the sales book and post them to ledger accounts.

| 2006   |   | Rs. |
|--------|---|-----|
| July 1 | Sold two sarees to Hemamalini @ Rs.150<br>Less 5/% Trade Discount |     |
| 2      | Supplied one saree to Sharmila                                    | 175 |

|    |                                    |     |
|----|------------------------------------|-----|
| 3  | Babita purchased one saree from us | 200 |
| 4  | Cash sales                         | 100 |
| 8  | Invoiced 4 Sarees to Jayasree      | 500 |
| 9  | Sold old Typewriter                | 375 |
| 10 | Sold blouse pieces to Pramila      | 125 |

**[Ans.: Sales Book Total Rs.1,285.00]**

3. Enter the following transactions in proper subsidiary books.

|             |  |
|-------------|--|
| <b>2006</b> |  |
| April 1     | Purchased goods from Anand for Rs.800 less 20% Trade Discount  |
| 2           | Purchased goods from Baskar for Rs.700 less 20% Trade Discount |
| 4           | Returned Anand goods worth Rs.100                              |
| 5           | Returned Baskar goods worth Rs.80                              |
| 8           | Sold goods to Chandar for Rs.500 less 10% Trade Discount       |
| 11          | Chandar returned us goods worth Rs.100                         |
| 16          | Sold goods to David for Rs.300 less 10% Trade Discount         |
| 19          | David returned us goods worth Rs.50                            |
| 21          | Bought goods from Easwar for Rs.300                            |
| 22          | Sold goods to Farook for Rs.150                                |
| 25          | Bought goods from Gopal for Rs.150 less 20% Trade Discount     |
| 28          | Returned goods worth Rs.50 to Gopal                            |

**[Ans.: Purchases Book Total Rs.1,620; Sales Book total Rs.870; Purchases returns Book Rs.184.00 Sales Returns Book Rs.135.50]**

4. Enter the following transactions in the Sales day book and post them into the ledger.

|         |  |
|---------|--|
| 2006    |  |
| March 1 | Sold to Zankar Stores 5 T.V. sets @ Rs.8,000 each, less 10% Trade discount |



|    |   |
|----|---|
| 10 | Sold to S.K. Electronics 2 T.V. sets @ Rs.900 each, less 10% Trade Discount           |
| 23 | Sold to Ameeta Kelkar and Co. 1 colour T.V. set for Rs.15,000 less 10% Trade Discount |
|    | All sales are subject to 10% sales tax.   |

**[Ans.: Sales Day Book Total Rs.72,270]**

5. Record the following transactions in Journal Proper.

| 2006   |  | Rs.      |
|--------|--|----------|
| Jan.1  | Purchase of typewriter on credit from Kantha Rao & Company               | 6,500    |
| Jan.8  | Sale of building to Kumar & Sons on credit                               | 2,75,000 |
| Jan.12 | Bad debts due from Suresh who became insolvent                           | 300      |
| Jan.19 | Purchase of furniture on credit from Gangadhar for personal use          | 2,500    |
| Jan.28 | Purchase of goods from Achari for cash for household purpose             | 300      |
| Jan.30 | Receipt of cash Rs.1,000 from Ramesh was posted to the account of Suresh |          |

## 5.8 SUGGESTED BOOKS

1. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
2. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
3. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
4. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
5. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

## Chapter - 6

# CASH BOOK

### Objectives :

**After studying this unit we should be able to**

- Features of cash book and the advantages in the preparation of cash book
- Know the types of cash book
- Prepare different types of cash books
- Understand the meaning and need for petty cash book and how to prepare it.

### Structure :

**6.1 Introduction**

**6.2 Types of Cash book**

**6.3 Simple Cash book**

**6.4 Two Column Cash Book**

**6.5 Three column cash book**

**6.6 Petty Cash book**

**6.7 Questions**

**6.8 Exercises**

**6.9 Suggested Readings**

## 6.1 INTRODUCTION

The Cash Book is a sub – division of the book of original entry recording transactions involving receipts or payments of Cash.

All Cash transactions are first entered in the Cash Book and then posted from Cash Book into the ledger. Cash Book is maintained in the form of a ledger with narration. Practically, the Cash Book is a substitute for Cash Account in the ledger.

Cash Book is not only a book of original entry but also a ledger account for cash transactions. Therefore, cash account is not maintained in ledger book and for preparing trial balance (which records balances of ledger accounts) balance of cash account is recorded from cash book. Therefore, it is said that cash book is a subsidiary as well as a principal book. Cash book represents in effect cash account in ledger books; therefore, rules discussed in last chapter for preparing cash account shall be applicable. To recapitulate, cash account records all cash receipts on debit side and all cash payments on credit side of the account.

### 6.1.1 Features:

1. Only Cash transactions are recorded in the Cash Book.
2. It performs the functions of both journal and the ledger at the same time.
3. All cash receipts are recorded in the debit side and all cash payments are recorded in the credit side.
4. It records only one aspect of a transaction, i.e., Cash.
5. All cash transactions are recorded chronologically in the Cash Book.
6. The Cash Book, recording only cash transactions, can never show a credit balance.

### 6.1.2 Necessity of Maintaining Cash Book:

The necessity of maintaining cash book are discussed below:

- (i) If every cash transactions are recorded in the journal, a tremendous amount of work will be involved in debiting or crediting cash account every time cash received or paid. If the cash book is maintained, the botheration of posting every item or receipt or payment of cash individually to cash account in the Ledger is avoided.
- (ii) Cash Book is maintained because it gives the balance of cash – in – hand.

## 6.2. TYPES OF CASH BOOK

The various types of Cash Book from the point of view of uses may be as follows:

Cash Book can be of several kinds:

- (i) **Single Column Cash Book** – For recording cash transactions only.
- (ii) **Cash Book with Cash and Bank Columns** – For recording cash and bank transactions.

- (iii) **Cash Book with Cash, Bank and Discount Columns** – For recording cash and bank transactions involving loss or gain on account of discount.

### 6.3 SINGLE COLUMN CASH BOOK

Single column Cash Book or Simple Cash Book is a such a Cash Book appears like an ordinary account, with one amounts column on each side. The left – hand side records receipts of cash and the right – hand side the payments. The difference between the left hand side or debit side and right hand side or credit side represents the balance i.e., amount of cash in hand and the balance must be a debit one. This cash book records only cash transactions and for bank transactions, a separate Bank Account is opened in the ledger where all transactions relating to “Cheques” are recorded.

#### Specimen of Single Column Cash Book

| Dr.      |             |       |               | Cr.      |             |       |               |
|----------|-------------|-------|---------------|----------|-------------|-------|---------------|
| Receipts |             |       |               | Payments |             |       |               |
| Date     | Particulars | L. F. | Amount<br>Rs. | Date     | Particulars | L. F. | Amount<br>Rs. |
|          |             |       |               |          |             |       |               |

- Date:** The date column in the Cash Book enables a chronological record of each transaction. In this column year, month and actual date of transaction is recorded.
- Particulars:** The column for particulars is left for writing the heads of account to be credited and debited and also for providing the appropriate narration or explanation of the transaction recorded.
- Voucher No.:** The document in support of a transaction is called voucher. There are two types of Vouchers: (1) Receipts Voucher, and (2) Payments Voucher. Generally, voucher has a serial number and this number is written in this column.
- Ledger folio (L. F.) :** The column for ledger folio is for indexing. A folio is a page mark. The folio in which the accounts, named in the Cash Book, are maintained in the ledger are

marked in this column. This enables to locate the respective page or pages in the ledger easily.

5. **Amount:** The money value of the transaction is written in this column.

### 6.3.1 Balancing of the Single – Column Cash Book:

The cash book is balanced just like any other ledger account. As mentioned earlier, the cash book always shows debit balance since the cash payments can never exceed the amount of cash receipts. After closing the cash book, the balance is shown on the debit side. The difference is written on the credit side as 'By Balance c/d', and, then, on the debit side the balance is written as 'To balance b/d'. This becomes the opening balance for the next period.

**Illu.1 : Prepare a cash book from the following information.**

| 2006   |                               | Rs.   |
|--------|-------------------------------|-------|
| Jan.1  | Balance of cash               | 7,000 |
| Jan.10 | Bought goods for cash         | 2,500 |
| Jan.11 | Bought goods on credit from Z | 3,000 |
| Jan.15 | Sold goods for cash           | 4,700 |
| Jan.17 | Paid salary                   | 1,000 |
| Jan.18 | Withdrew for personal use     | 500   |

**Solution :**

#### Cash book for the month of January

| Date   | Particulars    | L.F | Rs.           | Date   | Particulars    | L.F. | Rs.           |
|--------|----------------|-----|---------------|--------|----------------|------|---------------|
| 2006   |                |     |               | 2006   |                |      |               |
| Jan.1  | To Balance b/d |     | 7,000         | Jan.10 | By Purchases   |      | 2,500         |
| Jan.15 | To Sales       |     | 4,700         | Jan.17 | By Salary      |      | 1,000         |
|        |                |     |               | Jan.18 | By Drawings    |      | 500           |
|        |                |     |               | Jan.31 | By balance c/d |      | 7,700         |
|        |                |     | <b>11,700</b> |        |                |      | <b>11,700</b> |
| Feb.1  | To Balance b/d |     | 7,700         |        |                |      |               |

## 6.4 DOUBLE COLUMN CASH BOOK

If along with columns for amounts to record cash receipt and cash payment another column for discount is added on cash side, it is called a Double Column "Cash Book".

Cash receipts are entered in Debit side and cash payments in credit side like the single Column Cash Book.

The Double Column Cash Book has two columns on both the sides of the cash book. This cash book can have two columns on both the sides as under:

(a) Cash and Discount Columns, (b) Cash and Bank Columns, (c) Bank and Discount columns.

However, of the three types of Double Column Cash Book, the most common cash book used is with cash and discount columns.

When a firm makes payment at an earlier date it avails cash discount. So discount received is accompanied with the payment of cash. Discount received (nominal a/c) is a gain to the firm. So whenever cash discount is received it is to be recorded on the credit side of the Cash Book under discount column. Similarly, when a customer pays at an earlier date the firm allows Cash discount. So cash discount allowed is accompanied with the receipt of Cash. Discount allowed (nominal a/c) being a loss is to be recorded on the debit side of the cash book under discount column.

### Specimen of Double Column Cash Book

| Dr.      |             |       |                |            | Cr.      |             |       |                |            |
|----------|-------------|-------|----------------|------------|----------|-------------|-------|----------------|------------|
| Receipts |             |       |                |            | Payments |             |       |                |            |
| Date     | Particulars | L. F. | Discount (Rs.) | Cash (Rs.) | Date     | Particulars | L. F. | Discount (Rs.) | Cash (Rs.) |
|          |             |       |                |            |          |             |       |                |            |

#### 6.4.1 Cash Book with Cash and Discount Column:

In order to record cash discount allowed or received, one additional column for "discount" is provided on both the sides of the Cash Book.

- Cash Discount** : It is a discount allowed to customers as an inducement to make the payment immediately. Cash discount is closely related to cash receipt and cash payment.

When cash is received, discount is allowed and when it is paid discount is received. Cash discount allowed is a loss to a businessman while cash discount received is a gain to him.

- 2. Trade Discount :** It is an allowance made by a wholesaler to a retailer in order to enable the retailer to sell the articles at list prices and earn a reasonable margin of profit. The amount of trade discount is deducted from the invoice, therefore, it has no connection as to the receipt and payment of cash. Hence, trade discount does not appear in the books of accounts.

#### 6.4.2 Difference between Cash Discount and Trade Discount:

1. A trade discount is offered by the trader to a buyer as a reduction in the catalogue or invoice price of the goods sold. However, a cash discount is a reduction in the amount due from a debtor.
2. While a trade discount is offered by the manufacturer or wholesaler to a retailer, a Cash discount is offered by a creditor to a debtor.
3. The purpose of offering the trade discount by the manufacturer or a wholesaler to a retailer is to enable him to sell the goods at the invoice price and to have a margin of profit. The purpose of offering a cash discount is to induce the debtor to make an early payment.
4. A Trade discount is offered unconditionally whereas a cash discount is offered only on payment of the amount.
5. A Trade discount does not figure in the books of both the parties whereas a cash discount is accounted for either as a gain or as a loss.
6. The rate at which a trade discount is offered varies from trade to trade and one commodity to another. However, a cash discount is offered almost at the same rate in all kinds of trade, but the cash discount rate may vary depending on the period of credit.
7. A trade discount is usually predetermined whereas a cash discount is not pre-determined.

**Illu.2 : Prepare two column cash book of Sri Raj for the following transactions.**

| 2006  |              | Rs.   |
|-------|--------------|-------|
| Mar 1 | Cash in hand | 3,000 |

|       |                           |       |
|-------|---------------------------|-------|
| Mar 6 | Cash purchases            | 2,000 |
| 10    | Wages paid                | 40    |
| 11    | Cash sales                | 6,000 |
| 12    | Cash received from Suresh | 1,980 |
|       | Discount allowed          | 20    |
| 19    | Cash paid to Munna        | 2,470 |
|       | Discount received         | 30    |
| 27    | Cash paid to Radha        | 400   |
| 28    | Bought goods for cash     | 2,070 |

**Solution:**

| Date   | Particulars    | LF | Discount  | Amount Rs.    | Date   | Particulars    | LF | Discount  | Amount Rs.    |
|--------|----------------|----|-----------|---------------|--------|----------------|----|-----------|---------------|
| 2006   |                |    |           |               | 2006   |                |    |           |               |
| Mar 1  | To Balance b/d |    |           | 3,000         | Mar 6  | By Purchases   |    |           | 2,000         |
| Mar 11 | To Sales       |    |           | 6,000         | Mar 10 | By Wages       |    |           | 40            |
| Mar 12 | To Suresh      |    | 20        | 1,980         | Mar 19 | By Munnu       |    | 30        | 2,470         |
|        |                |    |           |               | Mar 27 | By Radha       |    |           | 400           |
|        |                |    |           |               | Mar 28 | By Purchases   |    |           | 2,070         |
|        |                |    |           |               | Mar 31 | By Balance c/d |    |           | 1,000         |
|        |                |    | <b>20</b> | <b>10,980</b> |        |                |    | <b>30</b> | <b>10,980</b> |
| Apr 1  | To Balance b/d |    |           | 4,000         |        |                |    |           |               |

**Illu.3 : Prepare a Cash book with Bank and Discount columns from the following transactions.**

| 2006   |                       | Rs.   |
|--------|-----------------------|-------|
| June 1 | Balance at bank       | 8,820 |
| 1      | Cash in hand          | 510   |
| 2      | Cash Sales            | 5,500 |
| 3      | Paid in to Bank       | 5,000 |
| 4      | Stationery purchased  | 200   |
| 10     | Paid Ramesh by cheque | 180   |



|    |  |       |
|----|--|-------|
|    | Discount received  | 20    |
| 11 | Gave a cheque for cash purchases   | 1,000 |
| 12 | Withdrawn cash for personal use  | 400   |
| 15 | Received from Ranga, a cheque for Rs.1,920 in full settlement of account for | 2,000 |
| 16 | Draw from bank   | 500   |
| 20 | Paid wages by cheque   | 200   |
| 30 | Bank charges as per pass book  | 50    |

**Solution:**

| Date   | Particulars    | LF | Discount  | Bank          | Date    | Particulars         | LF | Discount  | Bank          |
|--------|----------------|----|-----------|---------------|---------|---------------------|----|-----------|---------------|
| 2006   |                |    |           |               | 2006    |                     |    |           |               |
| June 1 | To Balance b/d |    |           | 8,820         | June 4  | By Stationery a/c   |    |           | 200           |
| June 1 | To Cash a/c    |    |           | 510           | June 10 | By Ramesh a/c       |    | 20        | 180           |
| 2      | To Sales a/c   |    |           | 5,500         | 11      | By Purchases a/c    |    |           | 1,000         |
| 3      | To cash a/c    |    |           | 5,000         | 12      | By Drawings a/c     |    |           | 400           |
| 15     | To Ranga a/c   |    | 80        | 1,920         | 16      | By Cash a/c         |    |           | 500           |
|        |                |    |           |               | 20      | By Wages a/c        |    |           | 200           |
|        |                |    |           |               | 30      | By Bank charges a/c |    |           | 50            |
|        |                |    |           |               | 30      | By Balance c/d      |    |           | 19,220        |
|        |                |    | <b>80</b> | <b>21,750</b> |         |                     |    | <b>20</b> | <b>21,750</b> |
| July 1 | To Balance b/d |    |           | 19,220        |         |                     |    |           |               |

**6.5 THREE COLUMN CASH BOOK**

A three – column cash book is prepared when there are a large number of cash and bank transactions. It has three columns on each side, namely, a cash column for cash received and cash paid, a bank column for money discount received and discount allowed.

### Specimen of Three Column Cash Book

| Date | Receipts | LF | Discount<br>Rs. | Cash<br>Rs. | Bank<br>Rs. | Date | Payments | LF | Discount<br>Rs. | Cash<br>Rs. | Bank<br>Rs. |
|------|----------|----|-----------------|-------------|-------------|------|----------|----|-----------------|-------------|-------------|
|      |          |    |                 |             |             |      |          |    |                 |             |             |

#### 6.5.1 Balancing the Three – column Cash Book :

The cash and bank columns are balanced separately like other columns. Cash account always shows a debit balance. The bank account may show a debit or a credit balance. A credit balance shows a bank overdraft i.e., an excess amount drawn from the bank. The discount columns are not totaled in this cash book.

#### 6.5.2 Special Points of a Three – column Cash book :

Following are some of the special points to be kept in mind while preparing a three – column cash book.

1. **Opening Balance:** The cash column of a cash book always shows a debit balance. It is written as 'balance brought down' on the debit side. But the opening balance of a bank column may be a debit or credit. If it is a debit balance, it will be shown on the debit side of the bank account while if a credit balance is given, it implies an overdraft and is shown on the credit side as 'By Balance b/d'.
2. **Contra Entries:** Contra entries means such entries that are made on both the sides of the cash book. When cash or a cheque is paid into the bank, the cash balance in the office will be reduced and the bank balance will be increased. In such a case, the Bank account is to be debited and the cash account is to be credited. Since in three column cash book, both cash and Bank accounts are included the amount will be written in a bank column on the receipt side and also in the cash column on the payment side of the cash book.

The transactions affecting the Cash Account and Bank Account (either Cash Account or Bank Account debited or credited) are recorded on both the sides of the Cash Book. As the Triple Column Cash Book consists of Cash Account and Bank Account. Ledger posting of such transactions is completed by recording them on both the sides of the Cash Book.

Entries passed to record such transactions in the Triple Column Cash Book are regarded as contra entries. Letter "C" is written in the "L. F." column of the Cash Book in order to identify such entries.

- 3. Treatment of cheques received:** Cheques received may be treated in the following two ways.
  - (i)** A cheque received by a business may be sent to the bank on the same day for collection. In such a case it will be shown on the debit side of the bank column as soon as it is received.
  - (ii)** A cheque received by the business may be sent to the bank at a later date. In such a case, it is shown on the debit side of the cash account when it is received. When the cheque is sent for collection to the bank, it is shown on both sides of the cash book.
- 4. Endorsement of cheques received:** A cheque received by a business may not be sent for collection to the bank but may be endorsed and transferred in favour of a creditor of the business. The cheque received will be taken as a receipt of cash. The cheque endorsed will be taken as payment of cash.
- 5. Dishonour of cheques :** The term 'dishonour of a cheque' refers to non – payment of a cheque while being presented for collection. The party from whom the cheque received is debited while the account of the bank is credited.
- 6. Bank Charges :** A bank usually charges some amount for the services provided to its customers. Such a charge will be recorded on the credit side of the cash book under the bank column.
- 7. Interest allowed bank :** Interest allowed by the bank increases the bank balance. The amount is recorded on the debit side of the cash book in the bank column.

- 8. Amount withdrawn for person use :** Amount withdrawn from the bank for personal use is shown on the credit side of bank column in the cash book.

### 6.5.3 Posting from Cash Book:

The posting of the debit and credit sides of cash books is done as follows:

- 1. Posting of debit side of cash book :** All the receipts appearing on the debit side are posted to the credit side of the respective ledger accounts. All entries relating to discounts are posted to the credit side of the respective personal accounts in the ledger. The total of discounts allowed on the debit side is posted to the debit of the discount allowed account in the ledger.
- 2. Posting of credit side of cash book :** All the payments appearing on the credit side are posted to the debit side of the respective ledger accounts. All entries relating to the discount received column are posted to the debit side of the respective personal accounts. The total of discount received is posted to the credit of the discount received account in the ledger.
- 3.** received account in the ledger.

**Illu.4 : Enter the following transactions in three columns Cash Book.**

**1995 March**

- 1. Cash at Office Rs.600 and Bank balance Rs.3,000**
- 2. Received a cheque for Rs.500 from Balu in full settlement of Rs.525**
- 4. Drawn from Bank for office use Rs.800**
- 7. Balu's cheque returned dishonored**

**Solution :**

#### **Cash book with Cash, Bank and Discount columns**

| Date | Particulars    | L.F. | D.A. | Cash  | Bank  | Date | Particulars    | L.F | D. R | Cash  | Bank  |
|------|----------------|------|------|-------|-------|------|----------------|-----|------|-------|-------|
| 2006 |                |      | Rs.  | Rs.   | Rs.   | 2006 |                |     | Rs   | Rs.   | Rs.   |
| Ma.1 | To Balance b/d |      |      | 600   | 3,000 | Ma.4 | By Cash        |     |      |       | 800   |
| 2    | To Balu        |      | 25   |       | 500   | Ma.7 | By Balu        |     | 25   |       | 500   |
| 4    | To Bank        | C    |      | 800   |       | 31   | By Balance c/d |     |      | 1,400 | 2,200 |
|      |                |      | 25   | 1,400 | 3,500 |      |                |     | 25   | 1,400 | 3,500 |
| Ap.1 | To Balance b/d |      |      | 1,400 | 2,200 |      |                |     |      |       |       |

**Illu.5 : Prepare a triple column cash book with bank, cash and discount columns from the following transactions:**

| 2006   |   | Rs.    |
|--------|---|--------|
| June 1 | Cash balance Rs.5,000 and bank balance Rs.2,000 | 10,000 |
| 5      | Cash received from sale of goods                | 2,000  |
| 6      | Paid into bank                                  | 1,000  |
| 7      | Paid Anil by cheque                             | 800    |

**Solution :**

### Three Column Cash Book

| Date   | Particulars    | L.F | Dis<br>co<br>unt | Cash         | Bank         | Date   | Particulars    | L.F | Disc<br>ount | Cash         | Bank         |
|--------|----------------|-----|------------------|--------------|--------------|--------|----------------|-----|--------------|--------------|--------------|
|        |                |     | Rs               | Rs.          | Rs.          | 2006   |                |     | Rs.          | Rs.          | Rs.          |
| 2006   |                |     |                  |              |              | 2006   |                |     |              |              |              |
| June 1 | To Balance b/d |     |                  | 5,000        | 2,000        | June 6 | By Bank        |     |              | 1,000        |              |
| 5      | To Sales       |     |                  | 2,000        |              | 7      | By Anil        |     |              |              | 800          |
| 6      | To Cash        | (c) |                  |              | 1,000        | 7      | By Balance c/d |     |              | 6,000        | 2,200        |
|        |                |     |                  | <b>7,000</b> | <b>3,000</b> |        |                |     |              | <b>7,000</b> | <b>3,000</b> |
| 8      | To Balance b/d |     |                  | 6,000        | 2,200        |        |                |     |              |              |              |

**Illu.6 : Prepare a Three column cash book from the following:**

| 2006   |                                       | Rs.    |
|--------|---------------------------------------|--------|
| Jan.1. | Cash balance                          | 15,000 |
|        | Bank balance                          | 50,000 |
| 2.     | Cash sales                            | 40,000 |
| 5.     | Furniture purchased and issued cheque | 8,000  |
| 6.     | Rent paid by the cheque               | 5,000  |
| 7.     | Cash deposited on the bank            | 40,000 |
| 8.     | Received interest on Investments      | 4,000  |
| 9.     | Paid Salaries                         | 5,000  |

|     |   |        |
|-----|---|--------|
| 10. | Received from Vishnu discount allowed                     | 500    |
| 12. | Received cheque from Anjaneyulu and deposited in the bank | 8,000  |
| 13. | Anjaneyulu cheque dishonoured                             | 8,000  |
| 14. | Goods purchased from Gopi for cash                        | 6,000  |
| 18. | For office use cash withdrawn from Bank                   | 12,000 |
| 20. | Cheque issued to Raja                                     | 5,800  |
|     | Discount Received   | 200    |
| 24. | Cash withdrawn for personal use                           | 4,000  |

**Illu.7 : Enter the following transactions in three columnar cash book:**

| 2006  |  | Rs.    |
|-------|--|--------|
| Dec 1 | Cash in hand   | 14,000 |
|       | Balance at bank  | 10,000 |
| 3     | Cash sales   | 6,000  |
| 5     | Paid into bank   | 7,000  |
| 7     | Received a cheque from Suresh  | 2,000  |
| 9     | Paid into bank Suresh 's cheque  | 2,000  |
| 10    | Paid to Amar by cheque Rs.980 in full settlement of his account                  | 1,000  |
|       | Withdrew from bank for office use  | 5,000  |
| 12    | Goods purchased from Naveen  | 3,000  |
| 13    | Purchase of furniture  | 3,000  |
| 14    | Received a cheque from John for Rs.10,000 and paid into the bank on the same day |        |
| 17    | Paid commission to Ram   | 500    |
| 18    | John 's cheque was dishonoured   |        |
| 20    | Drew a cheque for Rs.800 for personal use  |        |
| 24    | Paid salaries  | 2,000  |

**Illu.8 : Enter the following transactions in the three column cash book of Raghunath.**

|                |   |
|----------------|---|
| <b>2006</b>    |   |
| <b>March 1</b> | <b>Cash at Office Rs.600</b>  |
|                | <b>Bank balance (Cr.) Rs.3,000</b>  |
| <b>2</b>       | <b>Cash Sales Rs.2,000</b>  |
| <b>3</b>       | <b>Deposited into bank Rs.2,000</b>   |
| <b>5</b>       | <b>Narayana settled his account of Rs.530 by giving a cheque for Rs.500</b>   |
| <b>8</b>       | <b>Purchased from Narendra goods worth rs.1,000 at 5% trade discount and paid half the amount by cheque and the balance by cash</b> |
| <b>15</b>      | <b>Narayana's cheque returned dishonoured</b>   |
| <b>20</b>      | <b>Drew from bank Rs.300 for office use and Rs.200 as drawings</b>  |
| <b>25</b>      | <b>Paid Office rent Rs.200</b>  |
| <b>27</b>      | <b>Bank charges as per pass book Rs.10</b>  |
| <b>29</b>      | <b>Paid salaries by cheque Rs.500</b>   |
| <b>30</b>      | <b>Received from Satyam cash Rs.500, Cheque Rs.1,000 and allowed him a discount of Rs.50</b>  |
| <b>31</b>      | <b>Paid to Ramachandra Rs.475 in full settlement of his account Rs.500</b>  |

**SOLUTION - 6 :**

| Dr.       |                            |      |              |               |                 | Cr.    |                |     |             |               |                 |
|-----------|----------------------------|------|--------------|---------------|-----------------|--------|----------------|-----|-------------|---------------|-----------------|
| Cash Book |                            |      |              |               |                 |        |                |     |             |               |                 |
| Date      | Receipts                   | L.F. | Dis. Allowed | Cash          | Bank            | Date   | Payments       | L.F | Dis Allowed | Cash          | Bank            |
| 2006      |                            |      |              |               |                 | 2006   |                |     |             |               |                 |
| Jan.1     | To Balance b/d             |      |              | 15,000        | 50,000          |        | By Furniture   |     |             |               | 8,000           |
| Jan.2     | To Sales                   |      |              | 40,000        |                 | Jan. 6 | By Rent        |     |             |               | 5,000           |
| Jan.7     | To Cash                    | C    |              |               | 40,000          | Jan. 7 | By Bank        | C   |             | 40,000        |                 |
| Jan.8     | To Interest on Investments |      |              |               | 4,000           | Jan.9  | By Salaries    |     |             | 5,000         |                 |
| Jan.10    | To Vishnu                  |      | 500          | 15,000        |                 | Jan.13 | By Anjaneyulu  |     |             |               | 8,000           |
| Jan.12    | To Anjaneyulu              |      |              |               | 8,000           | Jan.14 | By Purchased   |     |             | 6,000         |                 |
| Jan.18    | To Bank                    |      |              | 12,000        |                 | Jan.18 | By Cash        | C   |             |               | 12,000          |
|           |                            |      |              |               |                 | Jan.20 | By Raja        |     | 200         |               | 5,800           |
|           |                            |      |              |               |                 | Jan.24 | By Drawings    |     |             |               | 4,000           |
|           |                            |      |              |               |                 | Jan.31 | By Balance c/d |     |             | 31,000        | 59,200          |
|           |                            |      | <b>500</b>   | <b>82,000</b> | <b>1,02,000</b> |        |                |     | <b>200</b>  | <b>82,000</b> | <b>1,02,000</b> |
| 2006      |                            |      |              |               |                 |        |                |     |             |               |                 |
| February  | To Balance b/d             |      |              | 31,000        | 59,200          |        |                |     |             |               |                 |



**Solution - 7 :****Triple Column Cash book**

| Date  | Particulars    | L. F. | Cash Rs.      | Bank Rs.      | Discount allowed Rs. | Date  | Particulars       | L.F. | Cash Rs.      | Bank Rs.      | Discount Received Rs. |
|-------|----------------|-------|---------------|---------------|----------------------|-------|-------------------|------|---------------|---------------|-----------------------|
| 2006  |                |       |               |               |                      | 2006  |                   |      |               |               |                       |
| Dec 1 | To Balance b/d |       | 14,000        | 10,000        |                      | Dec 5 | By Bank a/c       | (C)  | 7,000         |               |                       |
| Dec 3 | To Sales a/c   |       | 6,000         |               |                      | 9     | By Bank a/c       | (C)  | 2,000         |               |                       |
| 5     | To Cash a/c    | (C)   |               | 7,000         |                      | 10    | By Amar a/c       |      |               | 980           | 20                    |
| 7     | To Suresh a/c  |       | 2,000         |               |                      | 11    | By Cash a/c       | (C)  |               | 5,000         |                       |
| 9     | To Cash a/c    | (C)   |               | 2,000         |                      | 13    | By Furnish a/c    |      |               | 2,500         |                       |
| 11    | To Bank a/c    | (C)   | 5,000         |               |                      | 17    | By Commission a/c |      | 500           |               |                       |
| 14    | To John a/c    |       |               | 10,000        |                      | 18    | By John a/c       |      |               | 10,000        |                       |
|       |                |       |               |               |                      | 20    | By Drawings a/c   |      |               | 800           |                       |
|       |                |       |               |               |                      | 24    | By Salaries a/c   |      | 2,000         |               |                       |
|       |                |       |               |               |                      | 31    | By Balance c/d    |      | 15,500        | 9,720         |                       |
|       |                |       | <b>27,000</b> | <b>29,000</b> |                      |       |                   |      | <b>27,000</b> | <b>29,000</b> | <b>20</b>             |
| 2007  |                |       |               |               |                      |       |                   |      |               |               |                       |
| Jan 1 | To Balance b/d |       | 15,500        | 9,720         |                      |       |                   |      |               |               |                       |

**Solution - 8 :****Three Column Cash book of Raghunath**

| Date   | Particulars    | L.F. | Disc<br>out | Cash  | Bank  | Date   | Particulars     | L.F. | Disc<br>out | Cash  | Bank  |
|--------|----------------|------|-------------|-------|-------|--------|-----------------|------|-------------|-------|-------|
| 2006   |                |      | Rs.         | Rs.   | Rs.   | 2006   |                 |      | Rs.         | Rs.   | Rs.   |
| Mar.1  | To Balance b/d |      |             | 600   |       | Mar.1  | By Balance b/d  |      |             |       | 3,000 |
| Mar.2  | To Sales       |      |             | 2,000 |       | Mar.3  | By Bank         | ©    |             | 2,000 |       |
| Mar.3  | To Cash        | ©    |             |       | 2,000 | Mar.8  | By Purchases    |      |             | 475   | 475   |
| Mar.5  | To Narayana    |      | 30          |       | 500   | Mar.15 | By Narayana     |      | 30          |       | 500   |
| Mar.20 | To Bank        | C    |             | 300   |       | Mar.20 | By Cash         | C    |             |       | 300   |
| Mar.30 | To Satyam      |      | 50          | 500   | 1,000 | Mar.25 | By Office rent  |      |             | 200   |       |
| Mar.31 | To Balance c/d |      |             |       | 1,485 | Mar.27 | By Bank charges |      |             |       | 10    |
|        |                |      |             |       |       | Mar.29 | By Salaries     |      |             |       | 500   |
|        |                |      |             |       |       | Mar.31 | By Ramachandra  |      | 25          | 475   |       |
|        |                |      |             |       |       | Mar.31 | By balance c/d  |      |             | 250   |       |
|        |                |      | 80          | 3,400 | 4,985 |        |                 |      | 55          | 3,400 | 4,985 |
| Ap.1   | To Balance b/d |      |             | 250   |       | Ap.1   | By Balance b/d  |      |             |       | 1,485 |

## 6.6 PETTY CASH BOOK

Petty cash is the amount of cash an organization keeps in notes or coins on its premises to pay small items of expenses. In every business there are a number of small payments in cash such as conveyance, cartage, entertainment of the customers, etc. These are generally repetitive in nature. If all these petty expenses are recorded in the cash book along with other payments, the cashier will be overburdened and the cash book overloaded. To avoid this, a separate book called a 'petty cash book' is maintained to record all such payments. A person called the 'petty cashier' is appointed to record all such small payments. The sum of money given to the petty cashier for making small payments is called 'Petty cash'. It is usually kept in an imprest account.

### 6.6.1 Types of Petty Cash Books:

Following are the two types of petty cash books:

- a) Simple Petty Cash Book,
- b) Columnar Petty Cash Book.

**a) Simple Petty Cash Book:** A Simple Petty Cash Book is identical with a Cash Book. It has two sides viz., a receipt side and a payment side like a Cash Book. This type of Petty Cash Book is less useful. Therefore, many traders do not use this type of Petty Cash Book.

A simple Petty Cash Book is written on the lines of a Cash Book. There is only one amount column for recording all petty cash payments. There is no separate column for recording all classes of petty cash payments.

1. The "Amount Received" column is used for recording the amount received from the Cashier by the petty cashier.
2. The "Cash Book Folio" column is used for recording the page number of the cash book where the payment of the petty cashier is made by the cashier.
3. The "Date" column which is common to both the "Receipt" and "payment" side is used for writing the date of the receipt of an amount by the petty cashier on the "receipt" side and the date of payment on the "Payment" side.
4. Similarly, the "Particulars" column which is common to both the sides is used for recording the particulars of Receipts and Payments.
5. The "Voucher Number" column is used for recording the Number of the Voucher obtained by the petty cashier while making the payment.

6. The "Ledger Folio" column is used for writing the page number of the ledger on which the particular ledger account is maintained.
7. The "Amount Paid" column is used for recording the amount paid for a particular class of expenditure.

**b) The Columnar petty Cash Book (Analytical Petty Cash Book) :** This type of Cash Book has two sides. The left hand side is used for recording receipts of Cash or Cheque from the Chief Cashier. This part is very small as compared to the right hand side of the petty cash book. The right hand side is meant for recording payment. The payment side is ruled in suitable columns. A separate column is provided for recording a particular item of expenditure, i.e., Postage, Stationery, Travelling, Advertisement etc. In addition to it, a separate column for ledger is also provided for recording payment made on account of personal accounts or impersonal accounts. Payment made on a personal or impersonal account is entered in the Ledger Column and posted item wise in the respective ledger account.

When the amount is received from Chief Cashier, it is entered on the receipt side of the Petty Cash Book and when payments are made, they are first entered in the total column of the Petty Cash Book and then transferred in the respective column of expenditure. At the end of a certain period, the expenditure columns are totaled. The Petty cashier prepares a statement stating the summary of expenses paid and submits it to the Chief Cashier for incorporation in the main Cash Book.

### **6.6.2 Maintenance of Petty Cash Book :**

The money which is received by the Petty cashier from the chief cashier is recorded on the left hand side under the column "Receipts". Payments are recorded on the right hand side. For each type of expenses separate column is opened. Each cash payment is recorded under the appropriate head of expenses. As payments are analysed and recorded under appropriate columns, Petty Cash Book with separate heads for each expense is known as "Analytical Petty Cash Book".

### **6.6.3 Important Advantages of Petty Cash Book :**

The important advantages of a petty cash book are given below:

- (i) It relieves the main cash book of numerous transactions involving petty sums.
- (ii) Posting involves lesser labour and time.
- (iii) Reduces work load of chief cashier.

- (iv) Effective control can be exercised over small payments because each payment has to be supported by vouchers.

#### 6.6.4 Imprest System of Petty Cash Book :

The most popular system of Petty Cash Book is the Imprest System. Under this system, the chief cashier advances a certain amount to the Petty Cashier at the beginning of a fixed period e.g. a month or a fortnight or a week. This advance given to the petty cashier for meeting small expenses is called "Float". The amount of float is fixed in such a way that the amount is enough to meet the petty expenses for a certain period. At the end of a certain period, the petty cashier submits the account to the Chief Cashier. On receiving the account from the petty cashier, the chief cashier scrutinises it, and sends an amount equal to the actual amount spent for meeting petty expenses of the next period. As such the petty cashier begins the next period with the fixed amount of float.

#### 6.6.5 Advantages of the Imprest System :

The Imprest System has got many advantages over the other system. The Advantages are given below:

1. The record of Petty Cash is checked periodically. Therefore, mistakes, if any, in recording the transactions can be rectified immediately.
2. The Petty Cashier is not allowed to have idle cash in hand. If it is found that the float is more than adequate, it will be immediately reduced.
3. Chances of cash being misused by the petty cashier are reduced.
4. The regular check of the petty cash book creates a sense of responsibility in the petty cashier.
5. The main cashier is relieved from the botheration of petty disbursements.

Owing to the above three advantages, the Imprest System has become very popular in modern business houses.

**Illu.9 :Enter the following transactions in Analytical petty cash book and balance the same:**

| 2006   |                                  | Rs.   |
|--------|----------------------------------|-------|
| June 1 | Received for petty cash payments | 1,000 |
| 2      | Paid for postage                 | 80    |
| 5      | Paid for stationery              | 50    |

|           |                                     |            |
|-----------|-------------------------------------|------------|
| <b>8</b>  | <b>Paid for advertisement</b>       | <b>100</b> |
| <b>12</b> | <b>Paid for wages</b>               | <b>40</b>  |
| <b>16</b> | <b>Paid for carriage</b>            | <b>30</b>  |
| <b>20</b> | <b>Paid for conveyance</b>          | <b>44</b>  |
| <b>25</b> | <b>Paid for travelling expenses</b> | <b>160</b> |
| <b>27</b> | <b>Paid for postage</b>             | <b>100</b> |
| <b>28</b> | <b>Wages paid</b>                   | <b>20</b>  |
| <b>29</b> | <b>Paid for telegrams</b>           | <b>40</b>  |
| <b>30</b> | <b>Paid for postage</b>             | <b>6</b>   |

**Illu.10 : From the following particulars prepare Petty Cash Book on imprest system:**

**1-6-2006 : Received for petty cash payments: Rs.1,000.**

|   | <b>Rs.</b> |
|---|------------|
| <b>2. Paid for postage</b>                    | <b>80</b>  |
| <b>5. Paid for stationery</b>                 | <b>50</b>  |
| <b>8. Paid for advertisement</b>              | <b>100</b> |
| <b>12. Paid for wages</b>                     | <b>40</b>  |
| <b>16. Paid for carriage</b>                  | <b>30</b>  |
| <b>18. Paid for conveyance</b>                | <b>44</b>  |
| <b>20. Travelling expenses</b>                | <b>160</b> |
| <b>25. Postage</b>                            | <b>100</b> |
| <b>27. Wages to office cleaner</b>            | <b>20</b>  |
| <b>28. Telegrams</b>                          | <b>40</b>  |
| <b>30. Sent registered notice to landlord</b> | <b>06</b>  |









## 6.7 QUESTIONS

### I. Short Answer Questions

1. What is cash book?
2. What are the types of cash book?
3. What is contra entry?
4. What is a petty cash book? Explain its nature.

### II. Eassy type Questions

1. Define Cash Book. Is it a subsidiary book or principal book of accounts? Give reasons
2. What is Three column cash book? How do you prepare it?
3. What purpose does an analytical petty cash book serve?
4. Explain the `Imprest System of Petty Cash Book?

## 6.8 EXERCISES

1. Enter the following transactions in a simple cash book.

|      |  |     |
|------|--|-----|
| 2006 |  | Rs. |
|------|--|-----|

|       |                                     |       |
|-------|-------------------------------------|-------|
| Jan.1 | Cash in hand                        | 5,000 |
| 3     | Received from Teji                  | 500   |
| 6     | Received from Nandu                 | 370   |
| 8     | Paid to Mahesh on account           | 750   |
| 10    | Made cash purchases                 | 1,500 |
| 17    | Sold goods to Sathe for cash        | 350   |
| 20    | Paid into Bank                      | 1,000 |
| 22    | Purchased furniture for office use  | 300   |
| 25    | Received for interest on debentures | 75    |
| 27    | Paid electricity charges            | 25    |
| 29    | Paid rent                           | 150   |
| 31    | Paid salaries to staff              | 570   |

**[Ans.: Cash balance Rs.2,000]**

2. Prepare two column cash book (with cash and discount column) of Bharvanji

| 2006  |   | Rs.   |
|-------|---|-------|
| Feb.1 | Opening cash balance  | 2,700 |
| 2     | Received Rs.980 from Raghav and cash discount allowed to him    | 20    |
| 3     | Paid Rs.880 to Ambedkar in settlement of his account for Rs.900 |       |

|    |  |       |
|----|--|-------|
| 4  | Cash sales   | 1,700 |
| 5  | Cash purchases   | 2,250 |
| 6  | Paid Rs.675 to Raj and discount allowed by him Rs.25   |       |
| 10 | Deposited Rs.400 in Janatha Bank   |       |
| 14 | Received Rs.1,560 through cheque from Samant after allowing him cash discount of Rs.40. The cheque was deposited in Bank on the same day |       |
| 18 | Issued a cheque of Rs.135 towards advertisement expenses   |       |
| 22 | Received Rs.1,150 through cheque from Ramesh after allowing him discount of Rs.50. The cheque was immediately deposited in the bank.     |       |
| 25 | Bhavanji withdrew Rs.1,000 for personal expenses through cheque  |       |
| 29 | Cash sales Rs.1,800  |       |
| 29 | Deposited cash in Bank in excess of Rs.500   |       |

**[Ans.: Cash Balance Rs.500; Discount (Dr.) Rs.110; (Cr.) Rs.45]**

3. Enter the following transactions of the Premier Trading Company's cash book with three columns discount, cash and bank and balance the accounts as on 31<sup>st</sup> December, 2005.

|              |   |
|--------------|---|
| Dec.<br>2005 |   |
| 1            | Cash in hand Rs.4, 000.   |
| 1            | Bank Rs.1, 000 (Cr.)  |
| 3            | Receives a cheque from A Rs.290 and allowed him discount of Rs.40.    |
| 7            | A's cheque deposited in to bank.                                      |
| 10           | Withdrew from bank for office use Rs.800.                             |
| 12           | Paid B/p by cheque Rs.600.  |
| 15           | B/R from Ram Rs.2, 500; discounted it, crediting with bank Rs.2, 400. |
| 20           | Issued a cheque for petty cash Rs.100.                                |
| 25           | Paid to Gupta by Cheque Rs.920; discount received Rs.30.              |
| 28           | Made cash sales Rs.900  |

**[Ans.: Cash Balance Rs.5,700; Bank Balance Rs.730; Discount (Dr.) Rs.140; (Cr.) Rs.30**

4. Prepare a three column cash book for the month of March 2006 from the following transactions:

March 2006

- 1 Cash in hand Rs.55,000 and cash at bank Rs.35,000
- 2 Bought goods by cheque Rs.10,000
- 3 Paid trade expenses Rs.1,000
- 4 Received a cheque from Naresh for Rs.30,000 and deposited into

- bank on the same day.
- 5 Paid Rs.2,000 to kumar by cheque in full settlement of Rs.2,100
- 6 Sold goods to Vijay Rs.5,000
- 10 Naresh 's cheque dishonoured.
- 12 Received cheque from Vijay for Rs.5,000.
- 14 Withdrew from bank for personal use Rs.5,000
- 20 Withdrew from bank for office use Rs.6,000
- 24 Cash sales Rs.10,000
- 25 Paid into bank Rs.15,000
- 26 Received a cheque from Rakesh for Rs.5,900 in full settlement of an amount of Rs.6,000.
- 31 An insolvent debtors pays 50% of Rs.8,000 due from him.

**[Ans.: Cash Balance Rs.59,000; Bank Balance Rs.37,900; Discount (Dr.) Rs.100; (Cr.) Rs.100]**

5. Write out an analytical petty cash book maintained on imprest system from the following transactions:

2004

January 1 Issued a Cheque of Rs.200 to the Petty Cashier

|    |                                    |       |
|----|------------------------------------|-------|
| 2  | Paid electricity expenses          | 6.50  |
| 3  | Paid Trunk call charges            | 5.00  |
| 4  | Paid for refreshments              | 10.00 |
| 6  | Paid for Cartage                   | 2.50  |
| 8  | Paid for Printing                  | 7.50  |
| 10 | Purchased typing papers and ribbon | 9.00  |

|    |                                     |       |
|----|-------------------------------------|-------|
| 14 | Paid for stationery                 | 12.00 |
| 17 | Paid railway freight                | 11.00 |
| 19 | Postal charges                      | 6.00  |
| 24 | Paid for Auto charges               | 24.00 |
| 26 | Paid taxi hire to the Sales Manager | 40.00 |
| 28 | Tea and Tip to peon                 | 3.00  |
| 31 | Paid krishna against his account    | 30.00 |

**[Ans.: Cash Balance Rs.33.50]**

6. Enter the following transactions in petty cash book.

| 2006    |                              | Rs. Ps. |
|---------|------------------------------|---------|
| March 1 | Amount received from Cashier | 100.00  |
| 2       | Purchased typing paper       | 4.00    |
| 8       | Office cleaning              | 3.00    |
| 10      | Postage                      | 10.00   |
| 14      | Cartage                      | 12.00   |
| 18      | Postage                      | 8.00    |
| 22      | Stationery                   | 9.00    |
| 25      | Ink                          | 4.00    |
| 31      | Telegram                     | 10.00   |

**[Ans.: Cash balance Rs.40]**

## 6.9 SUGGESTED BOOKS

1. Agarwala, A.N., Amitabha Mukherjee, Mohammed Hanif, **Principles and Practice of Accountancy**, Kitab Mahal Agencies, New Delhi.
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3. Chopde, L.N., & Choudhari, D.H., **Accountancy**, Sheth Publishers, Pune
4. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
5. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
6. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
7. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.



## Chapter - 7

# BANK RECONCILIATION STATEMENT

### Objectives :

**After studying this unit we may be able to :**

- Know the meaning of Bank Reconciliation Statement
- Understand the need for preparing Bank Reconciliation Statement
- Analyse the reasons for differences between the cash book balance and pass book balance.
- Prepare the bank reconciliation statement in different circumstances.

### Structure :

**7.1 Introduction**

**7.2 Need for Bank Reconciliation Statement**

**7.3 Reasons for Disagreement**

**7.4 Procedure for Preparation of BRS**

**7.5 Questions**

**7.6 Exercises**

**7.7 Suggested readings**

## 7.1. INTRODUCTION

This is a statement prepared so as to agree the bank balance as shown by the Pass Book with the Bank balance as shown by the Bank Column of the Cash Book. This statement is usually copied into the Cash Book at the end of a certain period. Generally, this statement is prepared monthly in order to verify the accuracy of the banking transactions made by a trader with his Bank. These transactions are recorded by the bank in the Pass Book. Bank opens a separate account of each depositor in its ledger. All the banking transactions are recorded in the respective ledger

account in the books of the Bank. Similarly the banking transactions are recorded by a trader in the bank column of the Cash Book or in a separate Bank Account in the Ledger. That means every transaction with a bank is recorded in the Cash book, as well as in the Pass Book. For example, if a trader has deposited Rs.5,000 in the Bank, it will be recorded by the trader in the bank column appearing on the receipt side of the Cash Book or a Bank Account opened in the ledger will be debited. In the books of the Bank, credit will be given to customer's account i.e., a credit entry will be made in the Pass Book. That means a Bank Account in the books of a trader is debited, and a customer's account in the Pass Book will be credited with the same amount. As such, theoretically, both the balances must agree. But in practice, this does not happen. Bank balance as shown by Bank column of the Cash Book does not tally with the balance as shown by Pass Book on a particular date. Therefore, it is necessary to find out the causes of difference between the two balances. Hence, the statement explaining the causes of disagreement between the two balances is drawn up.

## 7.2 NEED OF BANK RECONCILIATION STATEMENT

The following are the necessary for preparing Bank Reconciliation Statement.

1. It helps to understand the actual bank balance position.
2. It facilitates detection of any mistakes in the Cash Book and in the Pass Book.
3. It helps to prevent frauds in recording the banking transactions.
4. It explains any delay in collection of cheques.

## 7.3 REASONS OF DISAGREEMENT BETWEEN CASH BOOK AND PASS BOOK

The following are the reasons of disagreement between the Cash Book Bank balance and the Pass Book Bank Balance :

1. **Cheques issued but not presented for payment** : A business man issues cheques to his creditors in settlement of their accounts. The cheques issued are recorded in the bank column appearing on the payment side of the Cash Book immediately on the date of issue, but the Bank does not make a debit entry in the Pass Book. Entry in the Pass Book is made on presentation of the cheques by the creditors for payment. If creditors have not presented the cheques for payment, the Bank will not make an entry in the

Pass Book. Therefore, if we compare the Cash Book with the Pass Book, we will find that entry for issue of cheques appears in the Cash Book, and therefore, there will be a difference between the two balances.

- 2. Cheques deposited in the Bank but not Collected :** Cheques are received from customers from time to time in settlement of the account. The cheques received are sent to the bank for collection and the entry is made in the bank column on the receipt side of the Cash Book. But its corresponding entry does not appear in the Pass Book, as the Bank does not give credit immediately. Credit is given only after collecting the amount of the cheques. Therefore, the bank balance as shown by the Cash Book does not agree with the balance as shown by the Pass Book.
- 3. Cheques received and entered in the Cash Book, but not deposited into bank for collection :** Cheques received from customers may be entered in the Bank column of the cash Bank but the proprietor may forget to deposit the same into bank for collection. No entry is made by the bank in the Pass Book. In such a case the two balances will not agree.
- 4. Cheques deposited into bank for collection but not entered in the Cash book :** Some times the customer might have received a cheque from the party and deposited the same into his bank for collection. But he might have failed to enter the cheque in the Cash Book. The cheque might have been entered by the bank in the Pass Book and customer's ledger as it has been collected. In this case, the two balances will not tally.
- 5. Direct Payment into the Customer's Bank a/c by other parties but not recorded in the Cash Book:** Sometimes a third party may deposit money in the Bank a/c of the customer directly but the intimation of the same may not be received by the customer. As a result corresponding entry of the same may not be made in the Cash Book. As such these two balances will not agree.
- 6. Interest allowed and credited by the Bank :** The Bank allows interest on a customer's deposit account and gives credit in the Pass Book. The entry in the Cash Book is made after receiving intimation from the bank. If a reconciliation statement is prepared before the receipt of such an intimation, there will be no corresponding entry in the Cash Book on its receipt side. Hence, a difference will arise between the two balances.
- 7. Collection of dividend by the Bank:** A businessman earns income. He may instruct the Bank to collect the amount of dividend on his shares. The Bank makes a credit entry in the

Pass Book immediately after collection. But it may not be entered in the Cash book immediately unless an intimation to that effect is received from the Bank. Therefore, there will be disagreement between the two balances.

- 8. Interest charged or Bank charges or commission debited in the Pass Book :** May not appear in the Cash Book due to lack of intimation from the Bank. Therefore, the balance as shown by the Pass Book will not agree with the balance as shown by the Cash Book.
- 9. Standing Instructions :** A businessman may give standing instructions to the Bank for payment of insurance premium, short rent, electricity charges etc. On making payment, the Bank passes a debit entry in the Pass book, thereby reducing the customer 's balance. The intimation of the same may not be received by the businessman. Therefore, it may not be recorded in the Cash Book. This will result in disagreement between the said balances.
- 10. Dishonour of Cheques :** When the cheques deposited in the Bank are dishonoured, the Bank a debit entry in the Pass Book. The corresponding entry is passed in the Cash Book on receiving advise from the Bank. If a Bank Reconciliation Statement is prepared during this period, a difference will arise between the said two balances.
- 11. Errors :** The balance as shown by the Cash Book will not agree with the balance as shown by the Pass Book, if certain errors are committed either by the accountant of a businessman or by the Bank clerk in recording the transactions.

## 7.4. PROCEDURE OF PREPARATION OF BRS

The following procedure is to be followed in the preparation of bank reconciliation statement.

- 1. Selection of a date:** Select the date on which the Bank Reconciliation Statement is to be prepared. Preferably select the last date of the month on which the balances as per Cash Book and Pass Book are known easily.
- 2. Comparison of entries :** Compare the Cash Book debit column entries with the credit side of the Pass Book, and credit column entries with the respective entries in the Pass Book on debit side. Majority of the items will tally.
- 3. Classification of unticked items :** Examine the unticked items and list them. Classify them according to their characteristics and headings. The unticked items are the discrepancies.

4. **Selection of the base** : Select any balance as a base i.e. the starting point. The base may be either Cash Book balance or Pass Book balance whichever is given.
5. Apply the rule of addition and subtraction.
6. Draw the bank reconciliation statement.

**A. When the Balance as per Cash Book is given :**

- Add : 1. Cheques issued but not presented for payment.  
5. Interest and dividend collected by the Bank but not recorded in the Cash Book.  
6. Direct deposit made by a customer in the Bank account.  
7. Interest on a deposit allowed by the Bank but not recorded in the Cash Book.
- Less : 1. Cheques deposited in the Bank but not realised.  
2. Commission charged by the bank, the entry of which does not appear in the Cash Book.  
3. Bank charges debited in the Pass Book but not entered in the Cash Book.  
4. Insurance premium paid by the Bank but not entered in the Cash book owing to lack of intimation.  
5. Dishonour of cheques or dishonour of Bills Recivable discounted debited in the Pass Book but not entered in the Cash Book.

**B. When the Balance as per pass book is given :**

- Add : 1. Cheques deposited in the Bank but not collected.  
2. Bank Charges, commission, interest charged, debited in the pass book but not entered in the Cash Book.  
3. Insurance Premium paid by the bank and debited in the Pass Book but which does not appear in the cash book.  
4. Dishonour of cheques or dishonour of Bills Receivable discounted debited in the Pass book but not recorded in the Cash Book.
- Less : 1. Cheques issued but not presented for payment.  
2. Interest and dividend collected by the Bank but not recorded in the Cash Book.  
3. Direct deposit by a customer in the Bank account, not recorded in the Cash Book.  
4. Interest on a Bank deposit allowed by the Bank but not recorded in the Cash Book.

**7.4.2 Specimen Form :**

The following form is usually used for preparation of a Bank Reconciliation Statement :

**Bank Reconciliation Statement as on -----**

|                               | Rs.  | Rs.   |
|-------------------------------|------|-------|
| Bank Balance as per Cash Book |      | ----- |
| Add: i) .....                 | .... |       |
| ii) .....                     | .... |       |
| iii) .....                    | .... |       |
| Less: i) .....                | .... |       |
| ii) .....                     | .... |       |
| iii) .....                    | .... |       |
| Bank Balance as per Pass Book | .... | ....  |

**Illu.1 : Prepare Bank Reconciliation Statement as on 31-3-2007**

- (a) Balance as per cash book – Rs.15,000
- (b) Cheques paid in but not credited – Rs.1,000
- (c) Cheques issued but not presented – Rs.1,550
- (d) Bills collected and credited in Pass Book only Rs.2,000
- (e) Interest credited in Pass Book only Rs.50
- (f) Commission charged and debited in Pass Book only Rs.100
- (g) Cheques received entered in cash book but omitted to be banked Rs.500.

**Solution :****Bank Reconciliation Statement on 31-3-2007**

|   | Rs.   | Rs.           |
|---|-------|---------------|
| <b>Balance as per Cash Book</b>                   |       | <b>15,000</b> |
| <b>Add :</b> 1. Cheques issued, but not presented | 1,550 |               |
| 2. Bills collected and credited in pass book only | 2,000 |               |
| 3. Interest credited in Pass Book                 | 50    | 3,600         |

|              |   |               |
|--------------|---|---------------|
|              |   | <b>18,600</b> |
| <b>Less:</b> | 1. Cheques paid in but not credited                   | 1,000         |
|              | 2. Commission debited in pass book                    | 100           |
|              | 3. Cheques entered in cash book, but not sent to bank | 500           |
|              |   | 1,600         |
|              | <b>Balance as per Pass Book</b>                       | <b>17,000</b> |

**Illu.2 :** On 31-3-2002, the cash book of Mr. Ganesh showed a bank balance of Rs.8,500. A comparison of pass book and cash book revealed the following.

- (i) Cheques deposited but not cleared by 31-3-2002 Rs.1,000
- (ii) Interest on investments collected by the bank on behalf of Ganesh but not recorded in cash book Rs.400.
- (iii) Cheques for Rs.5,100 were issued during the month of March. But of these cheques, Rs.1,200 were presented in the month of a April 2002. ]
- (iv) The bank paid insurance premium of Rs.600 as per Ganesh's standing instructions. This has not been entered in cash book.
- (v) A customer deposited Rs.150 directly into the bank. This was entered only in Pass book.
- (vi) Bank charges debited in Pass book but not recorded in Cash Book Rs.50.
- (vii) A debit of Rs.400 in respect of dishonoured cheque appears in Pass book but not in Cash book.

Prepare Bank Reconciliation Statement as on 31-3-2002.

**Solution :**

***Bank Reconciliation Statement of Ganesh as on 31-3-2002***

|  | Rs.   | Rs.   |
|--|-------|-------|
| Balance as per Cash Book                                 |       | 8,500 |
| <b>Add:</b>  |       |       |
| 1. Interest collected by bank, not entered in Cash book. | 400   |       |
| 2. Cheques issued, but not presented for payment         | 1,200 |       |
| 3. Deposition to bank by the customer, not               |       |       |

|   |       |               |
|---|-------|---------------|
| entered in Cash Book  | 150   | 1,750         |
|   |       | <b>10,250</b> |
| <b>Less:</b> 1. Cheques deposited, but not clear                | 1,000 |               |
| 2. Insurance premium paid by the bank, not entered in Cash Book | 600   |               |
| 3. Bank charges debited in pass book, not entered in Cash Book  | 50    |               |
| 4. Dishonoured cheque debited in pass book only                 | 400   | 2,050         |
| <b>Balance as per Bank Pass Book</b>                            |       | <b>8,200</b>  |

**Illu.3 : From the following particulars, prepare the Bank Reconciliation Statement as on 30-6-2005 :**

|  | Rs.           |
|--|---------------|
| <b>(a) Balance as per cash book</b>                                  | <b>10,000</b> |
| <b>(b) Cheques issued but not presented</b>                          | <b>1,500</b>  |
| <b>(c) Cheques paid into bank, but not credited</b>                  | <b>1,000</b>  |
| <b>(d) Interest credited in pass book only</b>                       | <b>100</b>    |
| <b>(e) Cheques received entered in cash book but omitted to bank</b> | <b>500</b>    |
| <b>(f) Bill collected and credited in pass book only</b>             | <b>2,000</b>  |
| <b>(g) Commission charged and debited in pass book only</b>          | <b>150</b>    |

**Solution :**

***Bank Reconciliation Statement as on 30-6-2005***

|   | Rs.   | Rs.           |
|---|-------|---------------|
| <b>Balance as per Cash Book</b>                   |       | <b>10,000</b> |
| <b>Add</b> (a) Cheques issued, but not presented  | 1,500 |               |
| (b) Interest credit only in pass book             | 100   |               |
| (c) Bill collected and credited in Pass book only | 2,000 | 3,600         |
|   |       | <b>13,600</b> |



|  |       |               |
|--|-------|---------------|
| <b>Less:</b> (a) Cheques paid in but not Credited                      | 1,000 |               |
| (b) Cheques received and entered in cash book but omitted to be banked | 500   |               |
| (c) Commission charged and debited in pass book only                   | 150   | 1,650         |
| <b>Balance as per Pass Book</b>  |       | <b>11,950</b> |

**Illu.4 : Prepare Bank Reconciliation Statement from the following**

- Bank balance as per pass book Rs.10,000
- Interest on Investments collected by bank Rs.500
- Bank has paid Rs.300 towards insurance premium and was not entered in cash book.
- Cheque received, entered in cash book but not sent to Bank for collection Rs.500
- A wrong debit of Rs.400 is appearing in pass book.

**Solution :**

**Bank Reconciliation Statement**

|        | Particulars   | Rs. | Rs.           |
|--------|---|-----|---------------|
|        | Balance as per Pass Book                            |     | 10,000        |
| Add :  | Insurance premium debited in the pass book only     | 300 |               |
|        | Cheque received was not sent to bank for collection | 500 |               |
|        | Wrong debit entered in the pass book                | 400 | 1,200         |
|        |   |     | 11,200        |
| Less : | Interest on Investments credited in the pass book   |     | 500           |
|        | <b>Balance as per Cash Book</b>                     |     | <b>10,700</b> |

**Illu.5 : From the following particulars, ascertain the bank balance as per cash book of Swami as at 31<sup>st</sup> March 2007.**

- Credit balance as per passbook as on 31-3-07 Rs.2,500.
- Bank charges of Rs.60 had not been entered in the cash book.
- Out of the cheques Rs.3, 500 paid into the bank, a cheque of Rs.1, 000 was not yet credited by the banker.

- d. Out of the cheques issued for Rs.4, 500, cheques of Rs.3, 800 only were presented for payment.
- e. A dividend of Rs.400 was collected by the banker directly but not entered in the cash book.
- f. A cheque of Rs.600 had been dishonored prior 31-3-07 but no entry was made in the cash book.

### Solution :

#### Bank Reconciliation Statement of Mr. Swamy as on 31-3-2007

|        | <i>Particulars</i>                                    | <i>Amount<br/>Rs.</i> | <i>Amount<br/>Rs.</i> |
|--------|---|-----------------------|-----------------------|
|        | Credit balance as per Passbook                        |                       | 2,500                 |
| Add :  | Bank charges has not been entered in the cash book    | 60                    |                       |
|        | Cheques paid into bank but not credited by the banker | 1,000                 |                       |
|        | Dishonored cheque not entered in cash book            | 600                   | 1,660                 |
|        |   |                       | 4,160                 |
| Less : | Cheques issued but not presented for payment          | 700                   |                       |
|        | Dividends collected by bank not entered in cash book  | 400                   | 1,100                 |
|        | <b>Balance as per Cash Book</b>                       |                       | <b>3,060</b>          |

**Illu.6 :** From the following particulars prepare a bank reconciliation statement showing the balance as per cash book on 31-12-2003.

- (a) The following cheques were paid into bank in December, 2003 but were credited by the Bank in January 2004.

|           |        |
|-----------|--------|
| Prem Nath | Rs.350 |
| Shyam Lal | Rs.250 |
| Ram Lal   | Rs.200 |

- (b) The following cheques were issued by the firm in December 2003, but were presented for payment in January 2004.

|        |        |
|--------|--------|
| Suresh | Rs.400 |
|--------|--------|

Ramesh

Rs.450

- (c) A cheque for Rs.100 which was received from a customer was entered in the bank column of the cash book in December 2003, but was omitted to be banked in the month of December.
- (d) The pass book shows a credit of Rs.100 for interest and a debit of Rs.20 for bank charges.
- (e) Interest on investment Rs.500 collected by bank appeared in the pass book.
- (f) The bank balance as per pass book was Rs.6,200 on 31<sup>st</sup> December 2003.

**Solution :****Bank Reconciliation Statement**

|                                      |   | Rs. | Rs.          |
|--------------------------------------|---|-----|--------------|
| <b>Bank balance as per pass book</b> |   |     | <b>6,200</b> |
| <b>Add:</b>                          | 1. Cheques deposited but not credited<br>(Rs.350 + 250 + 200) | 800 |              |
|                                      | 2. Cheque entered in cash book but not sent to bank           | 100 |              |
|                                      | 3. Bank charges not entered in cash book                      | 20  | 920          |
|                                      |   |     | <b>7,120</b> |
| <b>Less:</b>                         | 1. Cheques issued, but not presented for payment              | 850 |              |
|                                      | 2. Interest credited in pass book only                        | 100 |              |
|                                      | 3. Interest on investment entered in pass book only           | 500 | 1,450        |
|                                      | <b>Balance as per Cash Book</b>                               |     | <b>5,670</b> |

**Illu.7 :** On 31<sup>st</sup> March, 2007 Pass Book of Kiran showed a credit balance of Rs.37,400 in Account No. 1 which did not agree with his cash book. On scrutiny, the following discrepancies were located:

- (i) Three cheques totaling Rs.15,200 were deposited into his account, of which only those for Rs.9,800 were credited before 31<sup>st</sup> March .
- (ii) Kiran has issued two cheques of Rs.1,200 and Rs.1,400. Only the first cheque was presented for payment before 31<sup>st</sup> March.

- (iii) The banker paid electricity bill of Rs.750; telephone bill of Rs.900 as per the standing instructions of Kiran.
- (iv) Pass book shows entries of Rs.50 towards charges and Rs.75 towards interest.
- (v) A cheque issued for Rs.300 against a/c No.1 has wrongly entered in A/c 2 by the banker.
- (vi) The pass book has no entry for the cheque of Ram prasad for Rs.270 as it has been dishonoured.
- (vii) Payments side bank column has been under cost by Rs.20.
- Prepare a Bank Reconciliation Statement as on 31<sup>st</sup> March 2007.

### Solution :

#### Bank Reconciliation Statement of Kiran as on 31<sup>st</sup> March, 2007

|        | Particulars  | Rs.   | Rs.           |
|--------|--|-------|---------------|
|        | Balance as per Pass Book   |       | 37,400        |
| Add :  | Cheques deposited but not credited in the pass book                            | 5,400 |               |
|        | Electricity bill and telephone bill paid by bank entered in the pass book only | 1,650 |               |
|        | Bank charges debited in the pass book only                                     | 50    |               |
|        | Payments side of the cash book undercaste                                      | 20    | 7,120         |
|        |  |       | 44,520        |
| Less : | Cheques issued but not presented for payment                                   | 1,400 |               |
|        | Interest credited in the pass book only  | 75    |               |
|        | Cheques issued but not entered in the pass book                                | 300   |               |
|        | Dishonoured cheques not entered in the pass book                               | 270   | 2,045         |
|        | <b>Balance as per cash book</b>  |       | <b>42,475</b> |

**Illu.8 :** From the following particulars, ascertain the pass book balance of Phani Kumar as on 31-12-2007:

- (a) Bank Overdraft as per Cash Book Rs.16,340.  
 (b) Interest on Overdraft debited in pass book Rs.1,000  
 (c) Bank charges debited in pass book only Rs.60.  
 (d) Cheques issued but not cashed up to 31-12-2007 Rs.1,500.  
 (e) Interest on investments recorded in Pass book only Rs.1,000.  
 (f) Cheque paid into Bank but not cleared before 31-12-2007 Rs.2,500.

**Solution :**

**Bank Reconciliation Statement of Kumar on 31-12-2007**

|        | Particulars  | Rs.   | Rs.           |
|--------|--|-------|---------------|
|        | Overdraft balance as per Cash Book                 |       | 16,340        |
| Add :  | i. Interest on overdraft debited only in pass book | 1,000 |               |
|        | ii. Bank charges debited only in pass book         | 60    |               |
|        | iii. Cheque paid upto bank but not cleared         | 2,500 | 3,560         |
|        |  |       | 19,900        |
| Less : | i. Cheques issued but not cashed upto 31-12-07     | 1,500 |               |
|        | ii. Interest on investment credited in pass book   | 1,000 | 2,500         |
|        | <b>Overdraft balance as per pass book</b>          |       | <b>17,400</b> |

**Illu.9 : On the basis of the following information, ascertain the bank balance as per Pass book No: 1.**

**Bank overdraft as per Cash book No: 1 account Rs.4, 500**

- (a) Rs.2,000 paid in No: 1 account stands wrongly credited in Pass Book No: 2 account  
 (b) A payment of Rs.200 from Account No: 2 has been wrongly debited by bankers in Account No: 1

**Solution :****Bank Reconciliation Statement**

|             | Particulars   | Amount Rs.   |
|-------------|---|--------------|
|             | <b>Bank overdraft as per Cash Book No. 1</b>        | <b>4,500</b> |
| <b>Add:</b> | Wrongly credited in pass book No.2 a/c              | 2,000        |
| <b>Add:</b> | Wrongly debited in Pass book a/c No. 1              | 200          |
|             | <b>Bank overdraft balance as per passbook no. 1</b> | <b>6,700</b> |

**Illu.10 :** From following particulars that appear in the Bank Pass Book of Randal as on 31<sup>st</sup> December 2007, prepare a bank Reconciliation statement and find out the balance.

|     |   | Rs.    |
|-----|---|--------|
| (a) | Overdraft as per cash book on 31-12-2007  | 10,540 |
| (b) | Interest on overdraft for six months  | 240    |
| (c) | Interest on investments collected by bank   | 300    |
| (d) | Bank charges for the December 2007  | 60     |
| (e) | Cheques drawn (issued) but not cashed by the customers prior to December 2007                                       | 2,500  |
| (f) | Cheques paid into the bank, but not collected before 31 <sup>st</sup> December 2007                                 | 4,200  |
| (g) | A Bill receivable for Rs.1000 (discounted with the bank in November) was dishonoured on December 31 <sup>st</sup> . | 13,000 |

**Solution :****Bank Reconciliation statement of Randal & Sons as on 31-12-2007**

|                                       | Rs. | Rs.           |
|---------------------------------------|-----|---------------|
| <b>Overdraft as per cash book</b>     |     | <b>10,540</b> |
| Add (b) Interest on over draft        | 240 |               |
| (d) Bank charges entered in pass book | 60  |               |

|  |       |               |
|--|-------|---------------|
| (f) Cheques sent for collection not cleared            | 4,200 |               |
| (g) Dishonoured bills receivable entered in pass book  | 1,000 | 5,500         |
|  |       | <b>16,040</b> |
| Less (c) Interest on investments collected by the Bank | 300   |               |
| (e) Cheques issued but not presented for payment       | 2,500 | 2,800         |
| <b>Over draft as per pass book</b>                     |       | <b>13,240</b> |

**Illu.11 : Prepare a bank reconciliation statement from the following particulars as on 31-3-2005.**

|        |  | Rs.          |
|--------|--|--------------|
| (i)    | <b>Credit balance as per cash book</b>             | <b>4,000</b> |
| (ii)   | <b>Cheques deposited but not collected</b>         | <b>600</b>   |
| (iii)  | <b>Cheques received but not sent to bank</b>       | <b>500</b>   |
| (iv)   | <b>Credit side of bank column cast short</b>       | <b>50</b>    |
| (v)    | <b>Insurance premium debited in pass book only</b> | <b>300</b>   |
| (vi)   | <b>Bank charges debited twice in pass book</b>     | <b>10</b>    |
| (vii)  | <b>Cheques issued but not presented</b>            | <b>400</b>   |
| (viii) | <b>Bills directly collected by bank</b>            | <b>200</b>   |
| (ix)   | <b>Bills discounted dishonoured</b>                | <b>300</b>   |

**Solution :**

***Bank Reconciliation Statement on 31-3-2005***

| Particulars  | Rs. | Rs.          |
|--|-----|--------------|
| <b>Overdraft balance of Cash Book</b>              |     | <b>4,000</b> |
| <b>Add:</b> 1. Cheques deposited but not collected | 600 |              |
| 2. Cheques received but not sent to bank           | 500 |              |
| 3. Credit side of bank column cast short           | 50  |              |
| 4. Insurance premium debited in passbook only      | 300 |              |
| 5. Bank charges debited twice in pass book         | 10  |              |

|  |     |              |
|--|-----|--------------|
| 6. Bills discounted dishonoured                  | 300 | 1,760        |
|  |     | <b>5,760</b> |
| <b>Less:</b> 1. Cheques issued but not presented | 400 |              |
| 2. Bills directly collected by bank              | 200 | 600          |
| <b>Overdraft Balance as per pass book</b>        |     | <b>5,160</b> |

**Illu.12 : From the following information, prepare Mr. Ganesh 's Bank Reconciliation statement as on 31-12-2005.**

- (a) Bank overdraft as per pass book Rs.16, 500
- (b) Cheques issued but not presented for payment Rs.8, 750
- (c) Cheques deposited with the Bank but not collected Rs.10, 500
- (d) Cheques recorded in the Cash Book but not sent to the Bank for collection Rs.2, 000
- (e) Payments received from Customers direct by the bank Rs.3, 500
- (f) Bank charges debited in Pass Book Rs.20
- (g) Premium on life policy of Mr. Ganesh paid by the bank on standing advice Rs.180.
- (h) A bill for Rs.3, 000 (discounted with the bank in November) dishonoured on 31-12-2005 and noting charges paid by the bank Rs.10.

**Solution :**

|  |  | Rs.    | Rs.           |
|--|--|--------|---------------|
| <b>Bank overdraft as per pass book</b> |  |        | <b>16,500</b> |
| <b>Add :</b>                           | (a) Cheques issued, but not presented for payment                      | 8,750  |               |
|  | (b) Direct payments made by the customers                              | 3,500  | 12,250        |
|  |  |        | <b>28,750</b> |
| <b>Less:</b>                           | (a) Cheques deposited, but not collected                               | 10,500 |               |
|  | (b) Cheques recorded in cash book, but not send to bank for collection | 2,000  |               |
|  | (c) Bank charges debited only in pass book                             | 20     |               |
|  | (d) Premium on life insurance policy paid by                           |        |               |



|                                   |  |     |               |
|-----------------------------------|--|-----|---------------|
|                                   | the bank                                     | 180 |               |
|                                   | (e) Noting charges entered in pass book only | 10  | 12,710        |
| <b>Overdraft as per cash book</b> |  |     | <b>16,040</b> |

**Illu.13 : On 31.1.2004 the pass book of Ram Prasad shows on debit balance of Rs.41,000.**

**Prepare Bank Reconciliation statement with the following information :**

- (a) Cheques amounted Rs.15,600 were issued on 27<sup>th</sup> January of which Rs.11,000 were cashed upto 31<sup>st</sup> January.
- (b) Wrong debit of Rs.800 has been given by the banker in the pass book.
- (c) A cheque of Rs.200 was credited in pass book but was not recorded in cash book.
- (d) Cheques amounting to Rs.21,000 were deposited in Bank, but cheques for Rs.7,400 have been credited in the pass book on 21.1.2004.
- (e) A cheque for Rs.1,000 returned dishonoured and was debited in pass book only.
- (f) Interest and bank cahrges Rs.100 were debited only in pass book.
- (g) A cheque of Rs.500 debited in cash book was not sent to Bank.

**Solution :**

***Bank Reconciliation Statement of Prabhu as on 31-1-2004***

|              |  | Rs.   | Rs.           |
|--------------|--|-------|---------------|
|              | Overdraft balance as per Pass Book                                       |       | 41,000        |
| <b>Add:</b>  | 1. Cheques issued, but not presented for payment<br>(Rs.15,600 – 11,000) | 4,600 |               |
|              | 2. Chque credited in Pass Book, but not recorded in<br>Cash book         | 200   | 4,800         |
|              |  |       | <b>45,800</b> |
| <b>Less:</b> | 1. Wrong debit given in the pass book                                    | 800   |               |
|              | 2. Cheques deposited but not collected                                   | 7,400 |               |
|              | 3. Dishonoured cheque entered in Pass Book only                          | 1,000 |               |
|              | 4. Interest and Bank charges debited in Pass Book<br>only                | 100   |               |

|  |   |     |               |
|--|---|-----|---------------|
|  | 5. Cheque debited in Cash Book, not sent to Bank for collection | 500 | 9,800         |
|  | <b>Overdraft balance as per Cash Book</b>                       |     | <b>36,000</b> |

**Illu.14 : From the following particulars, prepare a Bank reconciliation statement of Mr. Sastry:**

- (a) Overdraft as per Pass Book on 31-3-2004 Rs.12, 900
- (b) Cheque issued before 31 March but not presented for payment Rs.1, 200
- (c) Cheques paid into the bank but not cleared and credited before 31-3-2004 amounted Rs.3, 2000
- (d) Interest on overdraft amounting to Rs.175 debited only in the pass book
- (e) Interest on investment Rs.700 was collected by the bank and credited in the Pass Book only
- (f) Rs.950 in respect of a dishonoured cheque entered in the pass book but not in the Cash book.

**Solution :**

|              |   | Rs.   | Rs.           |
|--------------|---|-------|---------------|
|              | Overdraft as per Pass Book                          |       | 12,900        |
| <b>Add:</b>  | (i) Cheque issued, but not presented for payment    | 1,200 |               |
|              | (iii) Interest on investments collected by the bank | 700   | 1,900         |
|              |   |       | <b>14,800</b> |
| <b>Less:</b> | (i) Cheques paid into bank, but not cleared         | 3,200 |               |
|              | (ii) Interest on overdraft not entered in cash book | 175   |               |
|              | (iii) Dishonoured cheque entered in Pass Book only  | 950   | 4,325         |
|              | Over Draft balance as per Cash Book                 |       | <b>10,475</b> |

**Illu.15 : On 1<sup>st</sup> July 2007, the Pass Book of Anvesh showed an overdraft of Rs.7,540.**

**On scrutiny with cash book, the following discrepancies were found:**

- i) Rs.3,200 worth cheques deposited are not credited by the banker.**
- ii) Pass book shows an interest of Rs.57 on overdraft.**
- iii) Rs.1,500 worth of cheques issued are still not presented for payment.**

**Prepare Bank Reconciliation statement.**

**Solution :**

**Bank Reconciliation Statement of Anvesh as on 1<sup>st</sup> July, 2007**

|        | <b>Particulars</b>                             | <b>Rs</b> | <b>Rs.</b>   |
|--------|--|-----------|--------------|
|        | Overdraft as per pass Book                     |           | 7,540        |
| Add :  | Cheques issued but not presented for payment   |           | 1,500        |
|        |  |           | 9,040        |
| Less : | Cheques deposited but not credited by the bank | 3,200     |              |
|        | Interest on overdraft debited in the pass book | 57        | 3,257        |
|        | <b>Overdraft as per cash book</b>              |           | <b>5,783</b> |

**Illu.16 : On 31-12-2007 the pass books of Prabhu showed a debit balance of Rs.41,000. Prepare a bank reconciliation statement with the following information:**

- a) Cheques amounting to Rs.15,600 were drawn on 27-1-2007 out of which cheques for Rs.11,000 were cashed up to 31-1-2007.**
- b) A wrong debit of Rs.800 has been given by the Bank in pass book.**
- c) A cheque for Rs.200 was credited only in the pass book.**
- d) Cheques accounting to Rs.21,000 were deposited for collection. But cheques for Rs.7,400 has been credited in the pass book on 5-2-2007.**
- e) A cheque for Rs.1,000 returned dishonoured and were debited in pass book only.**
- f) Interest and bank charges Rs.100 were not recorded in cash book.**
- g) A cheque of Rs.500 debited in the cash book omitted to be banked.**
- h) A wrong credit has been given by the banker for Rs.500 in the pass book.**

**Solution :****Bank Reconciliation statement of Prabhu as on 31-12-2007**

| Particulars  | Rs.   | Rs.           |
|--|-------|---------------|
| Overdraft balance as per Pass Book   |       | 41,000        |
| <b>Add:</b> Cheques issued but not presented for payment<br>(Rs.15,600 – 11,000) | 4,600 |               |
| Cheque credited only in pass book  | 200   |               |
| Wrong credit given only in pass book   | 500   | 5,300         |
|  |       | 46,300        |
| <b>Less:</b> Wrong debit given in pass book                                      | 800   |               |
| Cheques deposited but not yet collected  | 7,400 |               |
| Cheque returned dishonoured debited in pass book only                            | 1,000 |               |
| Interest and bank charges entered in pass book only                              | 100   |               |
| Cheque debited in cash book but omitted to be sent to bank                       | 500   | 9,800         |
| <b>Overdraft balance as per Cash Book</b>  |       | <b>36,500</b> |

**Illu.17 :** From the following particulars, prepare a Bank reconciliation statement of Mr. Sastry.

- a) Overdraft as per pass book on Marc 31, 2006 was Rs.12,900.
- b) Cheque issued before that date but presented for payment after that date amounted to Rs.1,200
- c) Cheques paid into the bank but not cleared and credited before 31-3-2006 amounted to Rs.3,200.
- d) Interest on overdraft amounting to Rs.175 debited only in the pass book.
- e) Interest on investments Rs.700 was collected by the bank and credited in the pass book but not entered in the cash book.
- f) Rs.950 in respect of a dishonoured cheque entered in the pass book but not in the cash book.

**Solution :****Bank Reconciliation statement as on 31-3-2006**

| Particulars   | Rs.   | Rs.           |
|---|-------|---------------|
| Overdraft balance as per Pass Book                          |       | 12,900        |
| <b>Add:</b> 1) Cheques issued but not presented for payment | 1,200 |               |
| 2) Interest on Investment                                   | 700   | 1,900         |
|   |       | 14,800        |
| <b>Less:</b> 1) Cheques deposited but not yet cleared       | 3,200 |               |
| 2) Interest on overdraft                                    | 175   |               |
| 3) Dishonoured cheque entered only in pass book             | 950   | 4,325         |
| <b>Overdraft as per Cash Book</b>                           |       | <b>10,475</b> |

**Illu.18 : On 31<sup>st</sup> January, 2007 the pass book showed debit balance of Rs.12,300.**

**Prepare a Bank Reconciliation Statement with the following information.**

- (i) Cheques amounting to Rs.4,680 were drawn on 25<sup>th</sup> January, 2007 out of which cheques for Rs.3,300 were cashed up to 31<sup>st</sup> January, 2007
- (ii) A wrong debit of Rs.240 has been given by bank in pass book
- (iii) A cheque for Rs.60 was credited in Pass Book but was not recorded in Cash Book.
- (iv) Cheques amounting to Rs.6,300 were deposited for collection. But cheques for Rs.2,220 have been credited in Pass Book at 5<sup>th</sup> February, 2007.
- (v) A cheque for Rs.300 returned dishonoured and was debited in Pass Book.
- (vi) Interest and bank charges amounted to Rs.30 were not accounted in Cash book.
- (vii) A cheque received, entered in Cash Book but not sent to Bank for collection Rs.150.

**Solution :****Bank Reconciliation Statement as on 31<sup>st</sup> January, 2007**

|        | <b>Particulars</b>   | <b>Rs.</b> | <b>Rs.</b>    |
|--------|--|------------|---------------|
|        | Overdraft balance as per pass book   |            | 12,300        |
| Add :  | Cheques issued but not presented for payment                                 | 1,380      |               |
|        | Cheques credited in the pass book but not recorded in the Cash book          | 60         | 1,440         |
|        |  |            | <b>13,740</b> |
| Less : | Wrong debit given by bank in pass book                                       | 240        |               |
|        | Cheques deposited for collection but not entered in the pass book            | 2,220      |               |
|        | Cheque dishonoured but not entered in the cash book                          | 300        |               |
|        | Interest and bank charges debited in the pass book only                      | 30         |               |
|        | Cheque received entered in the cash book but not sent to bank for collection | 150        | 2,940         |
|        |  |            | <b>10,800</b> |

**Illu.19 : From the following particulars of Murali Traders, prepare a Bank Reconciliation statement as on 31<sup>st</sup> July, 2007.**

- (a) Overdraft as per pass book on 31<sup>st</sup> July, 2007 Rs.42,100**
- (b) Cheques issued for Rs.7,500 and Rs.3,500 respectively on 25<sup>th</sup> July were encashed on 4<sup>th</sup> August.**
- (c) Cheques deposited on 30<sup>th</sup> July but not credited Rs.5,000**
- (d) A cheque for Rs.2,000 received from a customer was entered in the bank column of the cash book on 29<sup>th</sup> July but not sent to bank for collection till 3<sup>rd</sup> August.**
- (e) Electricity bill of Rs.150, paid by the Bank as per standing instructions on 20<sup>th</sup> July was not entered in the cash book.**
- (f) A credit for interest Rs.50 and a debit for bank charges Rs.10 appear in pass book only.**
- (g) Debit side of the bank column of the cash is over caste by mistake Rs.1,000**

**Solution :****Bank Reconciliation Statement on 31-7-2007**

|        | Particulars   | Rs.    | Rs.    |
|--------|---|--------|--------|
|        | Overdraft as per pass book  |        | 42,100 |
| Add :  | (a) Cheques issued, but not presented for payment<br>(Rs,7,500 + 3,500) | 11,000 |        |
|        | (b) Interest not entered in Cash Book                                   | 50     | 11,050 |
| Less : | (a) Cheques presented, but not collected                                | 5,000  |        |
|        | (b) Cheque not sent to bank for collection                              | 2,000  |        |
|        | (c) Electricity bill paid by bank, not entered in cash book             | 150    |        |
|        | (d) Bank charges not appeared in cash book                              | 10     |        |
|        | (e) Wrong totalling of cash book  | 1,000  | 8,160  |
|        | Overdraft as per Cash book  |        | 44,990 |

**7.5 QUESTIONS****A. Short Answer Questions**

1. Why is a Bank Reconciliation Statement?
2. Why is a Bank Reconciliation Statement Prepared?
3. What is pass book?

**B. Essay Questions**

1. What is a Bank Reconciliation Statement How is it prepared?
2. Give reasons for the difference between the Balance as per Cash Book and that as per Pass Book on a Particular day.
3. What are the usual reasons for disagreement between the Cash Book Balance and the Pass Book balance?
4. Explain the procedure in the preparation of Bank Reconciliation Statement.

## 7.6 EXERCISES

1. From the following particulars ascertain the balance that would appear in the pass book of Mr. Rajalingam as on 31<sup>st</sup> December, 2000.
  - i. The cash book showed a credit balance of Rs.18,500
  - ii. Out of the cheques worth Rs.30,000 issued prior to this date, it was found that the bank had paid only cheque worth Rs.14,500.
  - iii. There was also a credit in passbook for an amount by our customer direct into the Bank Rs.11,610.
  - iv. The bank had also collected the bill for Rs.8,200 which fell due on 31-12-2000.
  - v. Rs.950 in respect of a cheque paid in but dishonoured appear in the pass book only.
  - vi. Cheques paid in before 31-12-2000 amounted to Rs.23,000 but the bank had collected and credit cheque worth Rs.9,000.
  - vii. Interest on investment collected by Bank and credited in the pass book amounts to Rs.95.
  - viii. There was an entry on the debit side in the pass book for bank charges Rs.25.

**[Ans.: Bank Balance as per Pass Book Rs.1,930]**

2. The bank balance of Venkatachalam as per his Bank Pass Book on 30<sup>th</sup> September, 2003 was Rs.6,300 (credit balance). On comparing the Pass Book with the Cash Book, the following details were made known.
  - a. Cheques received from Joseph Rs.420 and Chander for Rs.310 were entered in Pass Book on 3<sup>rd</sup> October, 2003, though deposited by Venkatachalam on 30<sup>th</sup> September, 2003.
  - b. Cheques issued on 28<sup>th</sup> September, 2003 by Venkatachalam to Raj, Reddy and Rao for Rs.430, Rs.350, Rs.570 respectively were entered in the Pass Book on 3<sup>rd</sup>, 4<sup>th</sup> and 6<sup>th</sup> October, 2003 respectively.
  - c. The Pass Book showed a credit for Rs.1,000 representing a direct payment made by a customer of Venkatachalam, which was not recorded in Cash Book up to 30<sup>th</sup> September, 2003.
  - d. A Bill payable for Rs.500 was duly paid off by the Bank on 30<sup>th</sup> September, 2003 according to the standing instructions of Venkatachalam but this was not entered in Cash Book.



- e. Bank Charges of Rs.150 were debited in Pass Book.
- f. An amount of Rs.300 interest on investments was collected by the Bank and credited in Pass Book only.

Prepare Bank Reconciliation Statement as on 30<sup>th</sup> September, 2003 and show the Bank balance as per Cash Book.

**[Ans: Bank Balance as per Cash Book Rs.5,030]**

3. From the following particulars, ascertain the bank balance of Mr.Ramesh as per the bank pass book on 31-12-2002.
- a. Bank overdraft as per cash book on 31-12-2002 was Rs.6,000.
  - b. Interest on overdraft for six months ending 31-12-02 Rs.200 is debited in the pass book.
  - c. Cheques issued but not cashed before 31-12-02 amounted to Rs.1,500.
  - d. Cheques deposited into bank but not cleared and credited before 31-12-02 amounted to Rs.2,500.
  - e. Interest on Investments collected by bank and posted in the pass book amounted to Rs.1,800.
  - f. Bills receivable which was discounted with the bank in November, 02 was dishonoured on 31-12-02 and bank had debited Rs.1,050 including Rs.50 for bank charges.
  - g. The bank column of cash book receipts side was overcast by Rs.1,000 in December, 2002.
  - h. Bank had wrongly debited Mr. Ramnath for Rs.500 on 10-12-02 on account of dishonour of cheque pertaining to Mr. Ramgopal but rectified the said mistake on 30-12-02.

**[Ans.: Overdraft balance as per pass book Rs.7,450]**

4. Prepare the bank reconciliation statement as on 30-6-03 from the following particulars.
- (i) Debit balance as per pass book on 30-6-03 Rs.15,000
  - (ii) A cheque for Rs.200 was deposited on 25-6-03 but was not recorded in cash book.
  - (iii) Cheques of Rs.17,000 were issued but, of these Rs.10,000 worth were presented before 30-6-03.
  - (iv) Cheques received on 20-6-03 Rs.2,000 were not sent to bank but noted in cash book.
  - (v) Cheques worth Rs.10,000 were sent to bank for collection. Of these Rs.2,000 were credited on 8-7-03 and Rs.1,000 credited on 10-7-03. Remaining cheques were credit before 30-6-03.

- (vi) Bank paid Rs.300 on behalf of customer to Trade Association. This was not recorded in cash book.
- (vii) Interest on overdraft Rs.800 was not entered in cash book.
- (viii) Bank expenses Rs.40 were recorded twice in cash book and another bank charge for Rs.35 was not recorded in the cash book.
- (ix) Cash book credit side bank column was undercost by Rs.1,000.

**[Ans.: Overdraft balance as per Cash Book Rs.15,105]**

5. From the following particulars prepare Bank Reconciliation Statement as on 31-3-2002.

- (i) Credit balance as per Cash book Rs.1,500
- (ii) Interest charged by the bank Rs.50.
- (iii) Out of cheques paid into the bank Rs.2,500, only cheques for Rs.1,875 were cleared and credited by bank.
- (iv) Two cheques of Rs.750 and Rs.1,500 were issued but out of them only one cheque of Rs.750 was presented for payment up to 31<sup>st</sup> March.
- (v) Dividend of Rs.450 were collected by bank but were not appearing in cash book.

**[Ans.: Overdraft balance as per Pass Book Rs.225]**

6. The Cash Book (Bank Columns) and the Pass Book of Umasankar are given below. Prepare Bank Reconciliation Statement as on 31<sup>st</sup> December, 2005.

**Cash Book (Bank Column)**

| Dr.    |                |            | Cr.    |                |            |
|--------|----------------|------------|--------|----------------|------------|
|        |                | Rs.        |        |                | Rs.        |
| 2005   |                |            | 2005   |                |            |
| Dec 24 | To Balance b/d | 360        | Dec 29 | By Mahesh      | 15         |
| Dec 27 | To Prasad      | 60         | Dec 29 | By Ganesh      | 145        |
| Dec 28 | To Giridhar    | 120        | Dec 29 | By Viswanath   | 35         |
| Dec 28 | To Sankar      | 42         | Dec 31 | By Balance c/d | 387        |
|        |                | <b>582</b> |        |                | <b>582</b> |
| Jan 1  | To Balance b/d | 387        |        |                |            |

**Bank Pass Book**

| Dr.    |                |            | Cr.    |                |            |
|--------|----------------|------------|--------|----------------|------------|
|        |                | Rs.        |        |                | Rs.        |
| 2005   |                |            | 2005   |                |            |
| Dec 31 | To Ganesh      | 145        | Dec 25 | By Balance b/d | 360        |
| Dec 31 | To Balance c/d | 400        | Dec 28 | By Prasad      | 60         |
|        |                |            | Dec 29 | By Giridhar    | 120        |
|        |                |            | Dec 31 | By Interest    | 5          |
|        |                | <b>545</b> |        |                | <b>545</b> |
|        |                |            | 2006   |                |            |
|        |                |            | Jan 1  | By Balance b/d | 400        |

**7.7 SUGGESTED BOOKS**

1. Agarwala, A.N., Amitabha Mukherjee, Mohammed Hanif, **Principles and Practice of Accountancy**, Kitab Mahal Agencies, New Delhi.
2. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
3. Chopde, L.N., & Choudhari, D.H., **Accountancy**, Sheth Publishers, Pune
4. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
5. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
6. Prasad, G., Uttama Durga Devi., A., **Financial Accounting, Part – I**, Jai bharaath Publishers, 2006
7. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
8. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

## Chapter – 8

# Trial Balance

### Objectives :

After thorough study of this chapter, we should be able to

- Meaning and objectives of trial balance
- Understand the methods in the preparation of trial balance.

### Structure :

- 8.1 Introduction
- 8.2 Preparation of Trial balance
- 8.3 Methods are used the Preparation of Trial balance
- 8.4 Questions
- 8.5 Exercises
- 8.6 Suggested Readings

## 8.1 INTRODUCTION

An important aspect of the double entry accounting system is that for each transaction there is an equal amount of debit and credit in two or more accounts. Therefore, the total of all the entries on the debit side of the account must be equal to the total of all the entries on the credit side of the accounts. For this purpose, a statement known as a trial balance showing the balances of various accounts is prepared. The trial balance is usually prepared just before the preparation of final accounts (profit and loss account and balance sheet) in order to check the arithmetical accuracy of the transaction recorded into the ledger accounts.

According to J.R. Batliboi "Trial balance is a statement prepared with the debit and credit balances of accounts to test the arithmetical accuracy of books."

### 8.1.1 Objectives

The following are the objectives of preparing a trial balance.

1. **To ascertain the arithmetical accuracy of ledger accounts** : Trial balance helps in ascertaining the arithmetical accuracy of the accounting entries. It indicates that equal debit and credit amounts have been recorded in the ledger accounts and the balances have been calculated correctly.
2. **To help in locating errors** : When the total of trial balance does not tally, it indicates that some errors have been committed. On the basis steps can be taken to locate the errors committed in the preparation of trial balance.
3. **To help in the preparation of final accounts** : Trial balance contains the list of all the ledger accounts. This helps in the preparation of final accounts. All revenue and expenses accounts appear in the trial balance, which are transferred to the trading and profit and loss accounts. All assets, liabilities, and capital accounts are transferred to the balance sheet. Together, they constitute the final accounts.

## 8.2 PREPARATION OF TRIAL BALANCE

The final accounts are prepared with the help of trial balance, which shows all the ledger balances at the end of accounting period. Generally, the trial balance is given and there is no difficulty in identifying the items of income expenses, assets and liabilities. However, sometimes the trial balance is not correctly given. In such a case, it has to be prepared. It can be easily ascertained whether a particular account has a debit balance or a credit balance. The problem arises when a list of balances is given but it is not indicated whether the account has a debit or a credit balance. Under these circumstances, the nature of each balance has to be ascertained before the preparation of trial balance. The rules of debit and credit help in the preparation of trial balance. A few guidelines, which help in the preparation of trial balance are as follows.

- (i) All accounts of expenses and losses have debit balance.
- (ii) All accounts of income and gains have a credit balance.
- (iii) All accounts of liabilities have a credit balance
- (iv) The capital account usually has a credit balance.

The format of a trial balance is as shown.

### Trial Balance

| S.No. | Name of the Account | Debit balances<br>Rs. | Credit Balances<br>Rs. |
|-------|---------------------|-----------------------|------------------------|
|       |                     |                       |                        |

The first column is the serial number, the second column is the title or the name of the account and the third and fourth columns are the debit and credit columns respectively, representing the balance of each account.

## 8.3 METHODS ARE USED IN THE PREPARATION OF TRIAL

### BALANCE :

The following two methods are used in the preparation of trial balance.

1. Balance Method
2. Total Amounts Method

#### 8.3.1 Balance Method :

Under this method, all the accounts showing debit balances in the ledger accounts are put on the debit side of the trial balance and the accounts showing credit balances are put on the credit side of the trial balance. After this, the debit and credit columns of the trial balance are totalled. The total of two the sides must be equal.

#### 8.3.2 Total amounts method :

Under this method, the total of debits and credits, instead of the balances of each account, are shown in the trial balance. A trial balance by this method, can be prepared immediately after the completion of posting from the books of original entry to the ledger.

**Illu.1 : Prepare the Trial Balance from the following:**

|                  | Rs.           |
|------------------|---------------|
| <b>Purchases</b> | <b>82,800</b> |
| <b>Buildings</b> | <b>30,000</b> |

|                                |                 |
|--------------------------------|-----------------|
| <b>Wages</b>                   | <b>68,000</b>   |
| <b>Fuel</b>                    | <b>2,000</b>    |
| <b>Creditors</b>               | <b>18,000</b>   |
| <b>Bills payable</b>           | <b>700</b>      |
| <b>Discount received</b>       | <b>100</b>      |
| <b>Sales</b>                   | <b>1,93,000</b> |
| <b>Insurance</b>               | <b>1,300</b>    |
| <b>Income Tax</b>              | <b>3,700</b>    |
| <b>Opening stock</b>           | <b>18,000</b>   |
| <b>Commission paid</b>         | <b>300</b>      |
| <b>Debtors</b>                 | <b>19,000</b>   |
| <b>Bad debts</b>               | <b>800</b>      |
| <b>Salaries</b>                | <b>25,000</b>   |
| <b>Printing and stationary</b> | <b>7,600</b>    |
| <b>Postage and Telegrams</b>   | <b>3,400</b>    |
| <b>Bills receivable</b>        | <b>6,900</b>    |
| <b>Cash at bank</b>            | <b>13,000</b>   |
| <b>Capital</b>                 | <b>70,000</b>   |

**Solution :****Trial Balance**

| <b>Debit Balances</b> | <b>Rs.</b> | <b>Credit Balances</b> | <b>Rs.</b> |
|-----------------------|------------|------------------------|------------|
| Purchases             | 82,800     | Creditors              | 18,000     |
| Buildings             | 30,000     | Bills payable          | 700        |
| Wages                 | 68,000     | Discount received      | 100        |
| Fuel                  | 2,000      | Sales                  | 1,93,000   |
| Insurance             | 1,300      | Capital                | 70,000     |
| Income tax            | 3,700      |                        |            |
| Opening stock         | 18,000     |                        |            |
| Commission paid       | 300        |                        |            |

|                         |                 |  |                 |
|-------------------------|-----------------|--|-----------------|
| Debtors                 | 19,000          |  |                 |
| Bad debts               | 800             |  |                 |
| Salaries                | 25,000          |  |                 |
| Printing and Stationery | 7,600           |  |                 |
| Postage and Telegrams   | 3,400           |  |                 |
| Bills Receivable        | 6,900           |  |                 |
| Cash at Bank            | 13,000          |  |                 |
|                         | <b>2,81,800</b> |  | <b>2,81,800</b> |

**Illu.2 : From the following particulars prepare Trial Balance:**

|                          | Rs.           |                               | Rs.           |
|--------------------------|---------------|-------------------------------|---------------|
| <b>Capital</b>           | <b>60,000</b> | <b>Repairs</b>                | <b>500</b>    |
| <b>Drawings</b>          | <b>6,000</b>  | <b>Bad debts</b>              | <b>1,000</b>  |
| <b>Purchases</b>         | <b>25,000</b> | <b>Discount allowed</b>       | <b>1,000</b>  |
| <b>Debtors</b>           | <b>4,000</b>  | <b>Commission received</b>    | <b>4,000</b>  |
| <b>Creditors</b>         | <b>3,000</b>  | <b>Insurance</b>              | <b>1,000</b>  |
| <b>Bills payable</b>     | <b>2,000</b>  | <b>General expenses</b>       | <b>2,000</b>  |
| <b>Sales</b>             | <b>50,000</b> | <b>Depreciation</b>           | <b>3,000</b>  |
| <b>Carriage inwards</b>  | <b>1,000</b>  | <b>Furniture</b>              | <b>10,000</b> |
| <b>Carriage outwards</b> | <b>2,000</b>  | <b>Land and buildings</b>     | <b>32,000</b> |
| <b>Wages</b>             | <b>5,000</b>  | <b>Bills receivable</b>       | <b>3,000</b>  |
| <b>Salaries</b>          | <b>10,000</b> | <b>Fixed deposit with SBI</b> | <b>6,000</b>  |
| <b>Advertisement</b>     | <b>1,000</b>  | <b>Opening stock</b>          | <b>4,000</b>  |
| <b>Power</b>             | <b>1,000</b>  |                               |               |
| <b>Postage</b>           | <b>500</b>    |                               |               |



**Solution :****Trial Balance as on....**

| <b>Particulars</b>     | <b>Rs.</b> | <b>Rs.</b> |
|------------------------|------------|------------|
| Capital                |            | 60,000     |
| Drawings               | 6,000      |            |
| Purchases              | 25,000     |            |
| Debtors                | 4,000      |            |
| Creditors              |            | 3,000      |
| Bills payable          |            | 2,000      |
| Sales                  |            | 50,000     |
| Carriage inwards       | 1,000      |            |
| Carriage outwards      | 2,000      |            |
| Wages                  | 5,000      |            |
| Salaries               | 10,000     |            |
| Advertisement          | 1,000      |            |
| Power                  | 1,000      |            |
| Postage                | 500        |            |
| Repairs                | 500        |            |
| Bad debtors            | 1,000      |            |
| Discount allowed       | 1,000      |            |
| Commission received    |            | 4,000      |
| Insurance              | 1,000      |            |
| General expenses       | 2,000      |            |
| Depreciation           | 3,000      |            |
| Furniture              | 10,000     |            |
| Land and buildings     | 32,000     |            |
| Bills Receivable       | 3,000      |            |
| Fixed deposit with SBI | 6,000      |            |
| Opening stock          | 4,000      |            |

|  |                 |                 |
|--|-----------------|-----------------|
|  | <b>1,19,000</b> | <b>1,19,000</b> |
|--|-----------------|-----------------|

**Illu.3 : The following are the balances extracted from the books of Ramu on 31-12-2006. Prepare Trial Balance.**

|   | Rs.             |
|---|-----------------|
| <b>Capital</b>                            | <b>30,000</b>   |
| <b>Drawings</b>                           | <b>5,000</b>    |
| <b>Furniture</b>                          | <b>2,600</b>    |
| <b>Bank Overdraft</b>                     | <b>4,200</b>    |
| <b>Creditors</b>                          | <b>11,000</b>   |
| <b>Premises</b>                           | <b>20,000</b>   |
| <b>Stock</b>                              | <b>22,000</b>   |
| <b>Debtors</b>                            | <b>18,000</b>   |
| <b>Rent (Cr.)</b>                         | <b>1,000</b>    |
| <b>Discount (Dr.)</b>                     | <b>1,600</b>    |
| <b>Discount (Cr.)</b>                     | <b>2,000</b>    |
| <b>Purchases</b>                          | <b>1,10,000</b> |
| <b>Sales</b>                              | <b>1,50,000</b> |
| <b>Returns inwards</b>                    | <b>2,000</b>    |
| <b>Wages</b>                              | <b>2,000</b>    |
| <b>Salaries</b>                           | <b>9,000</b>    |
| <b>General expenses</b>                   | <b>4,000</b>    |
| <b>Commission</b>                         | <b>2,200</b>    |
| <b>Carriage</b>                           | <b>1,800</b>    |
| <b>Reserve for bad and doubtful debts</b> | <b>2,000</b>    |

**Solution :****Trial Balance as on 31-12-2006**

| <b>Debit balances</b> | <b>Rs.</b>      | <b>Credit balances</b>             | <b>Rs.</b>      |
|-----------------------|-----------------|------------------------------------|-----------------|
| Drawings              | 5,000           | Capital                            | 30,000          |
| Furniture             | 2,600           | Bank Overdraft                     | 4,200           |
| Premises              | 20,000          | Creditors                          | 11,000          |
| Stock                 | 22,000          | Rent                               | 1,000           |
| Debtors               | 18,000          | Discount                           | 2,000           |
| Purchases             | 1,10,000        | Sales                              | 1,50,000        |
| Return inwards        | 2,000           | Reserve for bad and doubtful debts | 2,000           |
| Wages                 | 2,000           |                                    |                 |
| Salaries              | 9,000           |                                    |                 |
| General expenses      | 4,000           |                                    |                 |
| Commission            | 2,200           |                                    |                 |
| Carriage              | 1,800           |                                    |                 |
| Discount              | 1,600           |                                    |                 |
|                       | <b>2,00,200</b> |                                    | <b>2,00,200</b> |

**Illu.4 : From the following particulars prepare Trial Balance**

|                         | <b>Rs.</b>    |
|-------------------------|---------------|
| <b>Capital</b>          | <b>65,000</b> |
| <b>Drawings</b>         | <b>5,000</b>  |
| <b>Salaries</b>         | <b>12,000</b> |
| <b>Sales</b>            | <b>35,000</b> |
| <b>Purchases</b>        | <b>25,000</b> |
| <b>Debtors</b>          | <b>9,600</b>  |
| <b>Creditors</b>        | <b>12,000</b> |
| <b>Carriage inwards</b> | <b>2,000</b>  |

|                            |               |
|----------------------------|---------------|
| <b>Wages</b>               | <b>5,000</b>  |
| <b>Advertisement</b>       | <b>3,000</b>  |
| <b>Bills payable</b>       | <b>5,000</b>  |
| <b>Carriage out</b>        | <b>1,500</b>  |
| <b>Commission received</b> | <b>2,500</b>  |
| <b>Power</b>               | <b>1,500</b>  |
| <b>Postage</b>             | <b>500</b>    |
| <b>Repairs</b>             | <b>1,200</b>  |
| <b>Insurance</b>           | <b>1,500</b>  |
| <b>General Expenses</b>    | <b>3,000</b>  |
| <b>Depreciation</b>        | <b>3,000</b>  |
| <b>Discount received</b>   | <b>500</b>    |
| <b>Furniture</b>           | <b>10,000</b> |
| <b>Land and Buildings</b>  | <b>25,000</b> |
| <b>Bills receivable</b>    | <b>3,000</b>  |
| <b>Opening stock</b>       | <b>5,000</b>  |

**Solution :****Trial Balance**

| <b>Account name</b> | <b>Debit<br/>Rs.</b> | <b>Credit<br/>Rs.</b> |
|---------------------|----------------------|-----------------------|
| Capital             |                      | 65,000                |
| Drawings            | 5,000                |                       |
| Salaries            | 12,000               |                       |
| Sales               |                      | 35,000                |
| Purchases           | 25,000               |                       |
| Debtors             | 9,600                |                       |
| Creditors           |                      | 12,000                |
| Carriage inwards    | 2,000                |                       |
| Wages               | 5,000                |                       |

|                     |                 |                 |
|---------------------|-----------------|-----------------|
| Advertisement       | 3,000           |                 |
| Bills payable       |                 | 5,000           |
| Carriage out        | 1,500           |                 |
| Commission received |                 | 2,500           |
| Power               | 1,500           |                 |
| Postage             | 500             |                 |
| Repair              | 1,200           |                 |
| Bad debts           | 2,000           |                 |
| Discount allowed    | 1,200           |                 |
| Insurance           | 1,500           |                 |
| General expenses    | 3,000           |                 |
| Depreciation        | 3,000           |                 |
| Discount received   |                 | 500             |
| Furniture           | 10,000          |                 |
| Land and buildings  | 25,000          |                 |
| Bills receivable    | 3,000           |                 |
| Opening stock       | 5,000           |                 |
|                     | <b>1,20,000</b> | <b>1,20,000</b> |

## 8.4 QUESTIONS

1. What is Trial balance?
2. What are the advantages in the preparation of Trial Balance?
3. What are various methods in the preparation of trial balance?
4. "Trial balance is a statement prepared with the debit and credit balances of accounts to test the arithmetical accuracy of books." Discuss

## 8.5 EXERCISES

1. From the information given below, prepare a Gross Trial Balance as on 31<sup>st</sup> December, 2006

| Account                    | Debit<br>Rs. | Credit<br>Rs. |
|----------------------------|--------------|---------------|
| Capital a/c                |              | 25,000        |
| Drawings a/c of Proprietor | 5,000        |               |
| Purchases a/c              | 85,000       |               |
| Sales a/c                  |              | 1,80,000      |
| Purchase Returns a/c       |              | 2,000         |
| Sales returns a/c          | 1,500        |               |
| Commission a/c             | 700          | 200           |
| Interest a/c               | 300          |               |
| Office Expenses a/c        | 7,500        |               |
| Sundry debtors a/c         | 1,35,000     | 1,12,700      |
| Sundry Creditors a/c       | 50,000       | 1,25,000      |
| Cash a/c                   | 2,00,000     | 25,000        |
| Bank a/c                   | 85,000       | 1,00,000      |

**[Ans.: Trial balance Total Rs.5,70,000]**

2. Prepare Trial balance from the following balances extracted from the books of accounts of Jayashree Traders as on 31<sup>st</sup> March, 2006

|                  | Rs.      |                      | Rs.      |
|------------------|----------|----------------------|----------|
| Capital          | 1,50,000 | Goodwill             | 1,00,000 |
| Sundry Debtors   | 35,000   | Office Expenses      | 10,000   |
| Sundry Creditors | 42,000   | Outstanding expenses | 15,000   |
| Machinery        | 21,000   | Interest received    | 3,200    |
| Furniture        | 19,000   | Cash balance         | 1,800    |
| Sales            | 2,00,000 |                      |          |

|                          |          |  |  |
|--------------------------|----------|--|--|
| Purchases                | 1,16,000 |  |  |
| Opening stock (1-4-2005) | 1,07,400 |  |  |

**[Ans.: Trail balance Total Rs.4,10,200]**

3. From the following balances given below extracted from the books of Randhir, prepare a Trial balance as on 31<sup>st</sup> December, 2006

|                     | Rs.    |                     | Rs.    |
|---------------------|--------|---------------------|--------|
| Cash in hand        | 200    | Rent and Rates      | 2,000  |
| Cash at Bank        | 2,500  | Purchase returns    | 200    |
| Capital account     | 50,000 | Sales returns       | 300    |
| Drawings            | 5,000  | Plant and Machinery | 15,000 |
| Sales               | 35,000 | Loan (taken)        | 20,000 |
| Purchases           | 30,000 | Furniture           | 5,000  |
| Sundry Debtors      | 32,000 | Opening stock       | 7,500  |
| Sundry Creditors    | 15,000 | Travelling expenses | 7,000  |
| Discount allowed    | 500    | Carriage outward    | 10,000 |
| Commission received | 1,000  |                     |        |
| Wages               | 3,000  |                     |        |
| Salaries            | 1,200  |                     |        |

**[Ans.: Trial balance Total Rs.1,21,200]**

## 8.6. SUGGESTED BOOKS

1. Agarwala, A.N., Amitabha Mukherjee, Mohammed Hanif, **Principles and Practice of Accountancy**, Kitab Mahal Agencies, New Delhi.
2. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
3. Chopde, L.N., & Choudhari, D.H., **Accountancy**, Sheth Publishers, Pune
4. Jain, S.P., Narang, K.L., **Accountancy, Part - I**, Kalyani Publishers
5. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005

6. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advaned Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
7. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
8. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.



## Chapter – 9

# FINAL ACCOUNTS - I

### Objectives :

**After study of this unit we should be able to**

- Know the meaning of financial statements
- Know how to prepare trading and profit and loss account
- Understand the meaning of balance sheet
- Know the methods in the preparation of balance sheet

### Structure :

- 9.1 Introduction
- 9.2 Trading Account
- 9.3 Profit and Loss account
- 9.4 Balance Sheet
- 9.5 Arrangement of Assets and Liabilities
- 9.6 Important points regarding to Balance Sheet
- 9.7 Questions
- 9.8 Exercises
- 9.9 Suggested Readings

## 9.1 INTRODUCTION

Having determined the accuracy of the books of accounts every businessman is interested in knowing about two more facts. They are : (I) Whether he has earned a profit or suffered a loss during the period covered by the Trial balance? (ii) Where does he stand now? In other words, what is his financial position?

The determination of the Profit or Loss is done by Preparing a Trading and Profit and Loss Account. While the financial position is judged by means of preparing a balance sheet of the business. The two financial statements together (i.e., Incomes Statement and the Balance sheet) are termed as Final Accounts. As term indicates, Final Accounts means accounts which are prepared at the final stage to give the financial position of the business.

### 9.1.1. Trading and Profit and Loss Account :

The Trading and Profit and Loss Account is a final summary of such accounts which affect the profit or loss position of the business. In other words, the accounts contain the items of Income and Expenses relating to a particular period. The account is prepared in two parts (I) Trading Account, and (ii) Profit and Loss account.

## 9.2 TRADING ACCOUNT

Trading Account gives the overall result of trading i.e., purchasing and selling of goods. In other words, it explains whether purchasing of goods and selling them has proved to be profitable for the business or not. It takes into account on the one hand the cost of goods sold and on the other the value for which they have been sold away. In case the sales value is higher than the cost of goods sold, there will be a profit, while in a reverse case, there will be a loss. The profit disclosed by the Trading Account is termed as gross Profit. Similarly the loss disclosed by the Trading Account is termed as Gross Loss.

### 9.2.1 Equation for Preparing Trading Account :

The following equation can be derived for preparing Trading Account.

|                          |  |
|--------------------------|--|
| Gross Profit             | Sales – Cost of goods sold   |
| Cost of goods sold       | Opening stock + Purchases + Direct expenses –<br>Closing Stock             |
| Therefore Gross Profit = | Sales – (Opening stock + Purchases + Direct expenses<br>– closing stock)   |
| Gross Profit             | (Sales + Closing stock) – (Opening stock + Purchases<br>+ Direct expenses) |

The term 'Direct expenses' include those expenses which have been incurred in purchasing the goods, bringing them to the business premises and making them fit for sale. Examples of such expenses are carriage charges, octroi, import duty, expenses for seasoning the goods etc.

The Trading Account can be prepared in the following form on the basis of equation given above.

**Trading Account of  
For the year ending ....**

Dr.

Cr.

| Particulars               | Rs.   | Particulars           | Rs.   |
|---------------------------|-------|-----------------------|-------|
| To Opening Stock          | X x x | By Sales Less Returns | X x x |
| To Purchases less returns | X x x | By Closing stock      | X x x |
| To Direct expenses        | X x x | By Gross Loss *       | X x x |
| To Gross Profit *         | X x x |                       |       |
|                           | X x x |                       | X x x |

- Only one figure will be appear

### 9.2.4 Important points regarding Trading Account

- 1. Stock :** The term 'stock' includes goods lying unsold on a particular date. The stock may be of two types. (I) Opening stock (ii) Closing stock.

The term 'Opening stock' means goods lying unsold with the businessman in the beginning of the accounting year. This is shown on the debit side of the Trading account.

The term 'Closing stock' includes goods lying unsold with the business at the end of the accounting year. It should be noted that stock at the end of the accounting year is taken after the books of accounts have been closed. The amount of closing stock is shown on the credit side of the Trading Account as an asset in the Balance Sheet. This has been explained later. The closing stock at the end of the accounting period will become the Opening stock the next year. The opening stock is therefore shown on the debit side of the Trial balance.

**Valuation of Closing Stock :** The closing stock is valued on the basis of 'cost or market price whichever is less' principle. It is therefore, very necessary that the cost of the

goods lying unsold should be carefully determined. The market value of such goods will also be found out on the Balance Sheet date. The closing stock will be valued at the lower of the two values. This valuation is done because of the accounting convention of 'conservatism' according to which expected losses are to be taken into account while not expected profits.

- 2. Purchases :** The term 'Purchases' includes both cash and credit purchase of goods. The term "goods" as already explained in an earlier chapter means items purchased for resale. Assets purchased for permanent use in the business such as purchase of plant, furniture etc., are not included in the purchases of goods. Similarly, purchase of article such as stationery meant for using in the business will also not be included in the item of purchases. In case , a proprietor has himself used certain goods for his personal purposes., the value of such goods at cost will be deducted from the purchases and included in the drawings of the proprietor. Similarly, in case certain goods are given by way of free samples etc., the value of such goods should be charged to advertisement account and deducted from purchases. The amount of purchases will be the net purchases made by the proprietor. The term 'net purchases' means total purchases of goods made by the businessman less the goods that he has returned back to the suppliers. In other words, purchases will be taken to the Trading Account after deducting purchases returns and goods as drawing from the gross purchases made during the accounting period.
- 3. Sales :** The term 'Sales' includes both cash and credit sales. Gross sales will be shown in the inner column of the Trading account out of which sales returns will be deducted. The net sales will then be shown in the outer column of the Trading Account. Proper care should be taken in records sale of those goods which have been sold at the end of the financial year but have not yet been delivered. The sale value of such goods should be included in the sales, but care should be taken that they are not included in the closing stock at the end of the accounting period. Sales of assets like plant and machinery, land and buildings or similar other articles which were purchased for using in the business, and not for sale, should not be included in the figure of 'sales' to be taken to the Trading Account.
- 4. Wages :** The amount of wages is taken as a direct expenses and, therefore, is debited to the Trading Account. Difficulty arises in those cases when the Trial balance includes a single amount for wages and salaries. In such a case, the amount is taken to the Trading Account.. However, if the Trial balance shows salaries and wages, the amount is taken to the Profit and

Loss Account. In actual practice such difficulties do not arise because the businessman knows for which purpose he has incurred the expenditure by way of wages or salaries. However, in an examination problem, it will be useful for the students to follow the principle given above i.e., 'Wages and salaries' to be charged to trading account while 'salaries and wages' to be charged to the profit and loss account. Wages paid for purchases of an asset for long term use in the business e.g., wages paid for plant and machinery or wages paid for construction of a building should not be charged to the Wages Account. They should be charged to the concerned Asset account.

5. **Customs and Import Duty** : In case the goods have been imported from outside the country, customs and import duty may have to be paid. The amount of such duty should be charged to the Trading Account.
6. **Freight, Carriage and Cartage** : Freight, carriage and Cartage are taken as direct expenses incurred on purchasing of the goods. They are, therefore, taken to the debit side of the Trading Account. The terms "Freight in" "Cartage in" and "Cartage in" have also the same meaning. However, "Cartage out.", "Freight Out" and "Carriage out" are taken to be the expenses incurred on selling the goods. They are, therefore, charged to the Profit and Loss account. The term "inward" is also used for the term "IN". Similarly the term "outward" is also used for the term "out". In other words "Carriage" or "Carriage inward" or "Carriage in" are used as synonymous terms. Similarly carriage out or "Carriage outward" are also the synonymous terms. The same is true for other expenses like Freight or Cartage.
7. **Royalty** : Royalty is the amount paid to the owner for using his rights. For example, the royalty is paid by a "Lessee", of a coal mine to its owner for taking out the coal from the coal mine. Similarly, royalty is paid to the owner of a patent for using his right. It is generally taken as a direct expenses and, therefore, is charged to the Trading Account. However, where royalty is based on sales, for example in case of the book publishing trade, it may be charged to profit and loss account.
8. **Gas, Electricity, Water, Fuel etc.** : All these expenses are direct expenses and, therefore, they are charged to the Trading Account.
9. **Packing Materials** : Packing Materials used for packing the goods purchased for bringing them to the shop or convert them into a saleable state are direct expenses and, therefore, they are charged to the Trading Account. However, packing expenses incurred for making the

product look attractive or packing expenses incurred after the product has been sold away are charged to the Profit and Loss account.

### 9.2.5 Closing Entries :

Closing entries are entries passed at the end of the accounting year to close different accounts. These entries are passed to close the accounts relating to incomes, expenses, gains and losses. In other words, these entries are passed to close the different accounts which pertain to Trading and Profit and Loss account. The accounts relating to assets and liabilities are not closed but they are carried forward to the next year. Hence, no closing entries are to be passed regarding these accounts which relate to the Balance sheet.

The principle of passing a closing entry is very simple. In case an account shows a debit balance, it has to be credited in order to close it. For example, if the purchases account is to be closed, the purchases account will have to be credited so that it may be closed because it has a debt balance. The Trading Account will have to be debited. The closing entries are passed in the Journal Proper. The different closing entries to be passed by the Accountant for preparing a Trading Account are being explained below.

### 9.2.6 Importance of the Trading Account :

Trading Account provides the following information to a businessman regarding business.

1. Gross profit disclosed by the Trading Account tells him the upper limit within which he should keep the operating expenses of the business besides saving something for himself. The cost of purchasing and the price at which he can sell the goods are governed largely by market factors over which he has no control. He can control only his operating expenses.
2. He can calculate his Gross profit ratio and compare his performance year after year. A fall in the Gross Profit Ratio means increase in the cost of purchasing the goods or decrease in the selling price of the goods or both. In order to maintain at least same figure of gross profit in absolute terms, he will have to push up the sales or make all out efforts to obtain goods at cheaper prices. Thus, he can prevent at least fall in the figure of his gross profit if can not bring any increase in it.

3. Comparison of stock figures of one period from another will help him in preventing unnecessary lock up of funds in inventories.
4. In case of new products, the businessman can easily fix up the selling price of the products by adding to the cost of purchases, the percentage gross profit that he would like to maintain.

**Illu.1 : From the following information take the appropriate items relating to trading account and prepare trading account for the year ending 31-12-2007.**

|                          | Rs.           |
|--------------------------|---------------|
| <b>Stock 1-1- 2007</b>   | <b>2,000</b>  |
| <b>Purchases</b>         | <b>7,000</b>  |
| <b>Productive wages</b>  | <b>1,500</b>  |
| <b>Freight</b>           | <b>750</b>    |
| <b>Marine Insurance</b>  | <b>250</b>    |
| <b>Customs duty</b>      | <b>400</b>    |
| <b>Salaries</b>          | <b>1,500</b>  |
| <b>Power</b>             | <b>120</b>    |
| <b>Carriage inwards</b>  | <b>75</b>     |
| <b>Carriage outwards</b> | <b>100</b>    |
| <b>Sales</b>             | <b>15,000</b> |
| <b>Packing material</b>  | <b>200</b>    |
| <b>Sales returns</b>     | <b>400</b>    |
| <b>Purchase returns</b>  | <b>300</b>    |
| <b>Office lighting</b>   | <b>250</b>    |
| <b>Office rent</b>       | <b>1,200</b>  |
| <b>Stock 31-12-2007</b>  | <b>3,000</b>  |

**Solution :****Trading a/c for the year ended 31-12-2007**

|                      | Rs.   | Rs.           |                     | Rs.    | Rs.           |
|----------------------|-------|---------------|---------------------|--------|---------------|
| To Opening stock     |       | 2,000         | By Sales            | 15,000 |               |
| To Purchases         | 7,000 |               | Less : Returns      | 400    | 14,600        |
| Less : Returns       | 300   | 6,700         | By Closing stock    |        | 3,000         |
| To Freight           |       | 750           |                     |        |               |
| To Marine insurance  |       | 250           |                     |        |               |
| To Customs duty      |       | 400           |                     |        |               |
| To Carriage inwards  |       | 75            |                     |        |               |
| To Power             |       | 120           |                     |        |               |
| To Productive wages  |       | 1,500         |                     |        |               |
| To Packing materials |       | 200           |                     |        |               |
| To Gross profit c/d  |       | 5,605         |                     |        |               |
|                      |       | <b>17,600</b> |                     |        | <b>17,600</b> |
|                      |       |               | To Gross profit b/d |        | 5,605         |

**Illu.2 :** The following information is taken from in the books of Srinivas. Prepare Trading account for the year ended 31-12-2007 and write closing entries.

|                                  | Rs.           |                               | Rs.          |
|----------------------------------|---------------|-------------------------------|--------------|
| <b>Opening stock</b>             | <b>5,000</b>  | <b>Sales returns</b>          | <b>400</b>   |
| <b>Sales a/c</b>                 | <b>20,000</b> | <b>Manufacturing expenses</b> | <b>100</b>   |
| <b>Purchase returns</b>          | <b>200</b>    | <b>Octroi</b>                 | <b>500</b>   |
| <b>Carriage inwards</b>          | <b>300</b>    | <b>Fuel</b>                   | <b>700</b>   |
| <b>Wages a/c</b>                 | <b>4,000</b>  | <b>Purchases a/c</b>          | <b>8,000</b> |
| <b>Closing stock (31-3-2007)</b> | <b>2,000</b>  |                               |              |



**Solution :****Journal Entries**

| Date  | Particulars  |            | L.F. | Debit           | Credit  |
|-------|--|------------|------|-----------------|---|
| 2007  |  |            |      | Rs.             | Rs.   |
| Mar.1 | Trading a/c<br>To Opening stock a/c<br>To Purchases a/c<br>To Wages a/c<br>To Carriage inwards a/c<br>To Manufacturing expenses a/c<br>To Octori a/c<br>To Fuel a/c<br>(Being the transfer of accounts to trading account) | Dr.        |      | 18,600          | 5,000<br>8,000<br>4,000<br>300<br>100<br>500<br>700 |
|       | Purchase returns a/c<br>To Purchases a/c<br>(Being the transfer of returns to purchases a/c)   | Dr.        |      | 200             | 200   |
|       | Sales a/c<br>Closing stock a/c<br>To Trading a/c<br>(Being the transfer of accounts to trading account)  | Dr.<br>Dr. |      | 20,000<br>2,000 | 22,000  |
|       | Sales a/c<br>To Sales returns a/c<br>(Being the transfer of returns to sales a/c)  | Dr.        |      | 400             | 400   |

**Trading a/c of Srinivas for the year ended 31-3-2007**

|                           | Rs.   | Rs.   |                  | Rs.    | Rs.    |
|---------------------------|-------|-------|------------------|--------|--------|
| To Opening stock          |       | 5,000 | By Sales         | 20,000 |        |
| To Purchases              | 8,000 |       | Less : Returns   | 400    | 19,600 |
| Less : Returns            | 200   | 7,800 | By Closing stock |        | 2,000  |
| To Wages                  |       | 4,000 |                  |        |        |
| To Carriage inwards       |       | 300   |                  |        |        |
| To Manufacturing expenses |       | 100   |                  |        |        |

|                     |  |               |                     |  |               |
|---------------------|--|---------------|---------------------|--|---------------|
| To Octroi           |  | 500           |                     |  |               |
| To Fuel             |  | 700           |                     |  |               |
| To Gross profit c/d |  | 3,200         |                     |  |               |
|                     |  | <b>21,600</b> |                     |  | <b>21,600</b> |
|                     |  |               | By Gross profit b/d |  | 3,200         |

**Illu.3 : From the following information prepare the trading account of Sankar for the year ended 31-12-2006.**

| 2006   |                      | Rs.      |
|--------|----------------------|----------|
| Jan 1  | Raw material         | 24,000   |
|        | Work – in – progress | 10,000   |
|        | Finished goods       | 2,42,000 |
| Dec 31 | Purchases            | 3,56,000 |
|        | Purchase returns     | 12,500   |
|        | Manufacturing wages  | 1,82,000 |
|        | Factory rent         | 16,500   |
|        | Coal, water          | 8,500    |
|        | Sales                | 6,57,000 |
|        | Carriage             | 24,000   |
|        | Customs duty         | 15,000   |
|        | Raw materials        | 32,000   |
|        | Work – in – progress | 12,000   |
|        | Finished goods       | 3,08,000 |

**Solution :**

**Trading a/c of Sankar for the year ended 31-12-2006**

|                  | Rs.    | Rs. |                  | Rs.    | Rs.      |
|------------------|--------|-----|------------------|--------|----------|
| To Opening stock |        |     | By Sales         |        | 6,57,000 |
| Raw materials    | 24,000 |     | By Closing stock |        |          |
| Work-in-progress | 10,000 |     | Raw materials    | 32,000 |          |

|                     |          |                  |                        |          |                  |
|---------------------|----------|------------------|------------------------|----------|------------------|
| Finished goods      | 2,42,000 | 2,76,000         | Work-in-progress       | 12,000   |                  |
| To Purchases        | 3,56,000 |                  | Finished goods         | 3,08,000 | 3,52,000         |
| Less : Returns      | 12,500   | 3,43,500         |                        |          |                  |
| To Wages            |          | 1,82,000         |                        |          |                  |
| To Factory rent     |          | 16,500           |                        |          |                  |
| To Coal water       |          | 8,500            |                        |          |                  |
| To Carriage         |          | 24,000           |                        |          |                  |
| To Customs duty     |          | 15,000           |                        |          |                  |
| To Gross profit c/d |          | 1,43,500         |                        |          |                  |
|                     |          | <b>10,09,000</b> |                        |          | <b>10,09,000</b> |
|                     |          |                  | By Gross profit<br>b/d |          | 1,43,500         |

**Illu.4 : Following are the balances extracted from the books of M/s Ram & Co. Motors Company as on 31<sup>st</sup> March 2003. You are required to prepare the Manufacturing Account and Trading Account for the year ended on that date:**

|   | Rs.             |  | Rs.           |
|---|-----------------|--|---------------|
| <b>Raw Materials (Opening stock)</b>        | <b>50,000</b>   | <b>Repairs to Machinery</b>                | <b>3,750</b>  |
| <b>Work – in – progress (opening stock)</b> | <b>37,500</b>   | <b>Royalty</b>                             | <b>2,500</b>  |
| <b>Finished goods (opening stock)</b>       | <b>45,000</b>   | <b>Purchases returns</b>                   | <b>1,250</b>  |
| <b>Raw material purchases</b>               | <b>1,25,000</b> | <b>Sales returns</b>                       | <b>2,500</b>  |
| <b>Finished goods purchases</b>             | <b>50,000</b>   | <b>Factory insurance</b>                   | <b>3,750</b>  |
| <b>Productive wages</b>                     | <b>75,000</b>   | <b>Factory rent</b>                        | <b>46,250</b> |
| <b>Coal and fuel</b>                        | <b>12,500</b>   | <b>Stock on 31<sup>st</sup> March 2003</b> |               |
| <b>Sales</b>                                | <b>3,95,000</b> | <b>Raw materials</b>                       | <b>37,500</b> |

|                         |              |                             |               |
|-------------------------|--------------|-----------------------------|---------------|
| <b>Carriage inwards</b> | <b>2,500</b> | <b>Work – in – progress</b> | <b>45,000</b> |
| <b>Railway freight</b>  | <b>1,250</b> | <b>Finished goods</b>       | <b>25,000</b> |

**Solution :****Manufacturing a/c of M/s Ram & Co. for the year ended 31-3-2003**

|                            | Rs.      | Rs.             |  | Rs.    | Rs.             |
|----------------------------|----------|-----------------|--|--------|-----------------|
| To Opening stock           |          |                 | By Closing stock                                       |        |                 |
| Raw materials              | 50,000   |                 | Raw materials  | 37,500 |                 |
| Work-in-progress           | 37,500   | 87,500          | Work-in-progress                                       | 45,000 | 82,500          |
| To Purchases               | 1,25,000 |                 | By Manufacturing<br>cost transferred to<br>trading a/c |        | 2,76,250        |
| Less : returns             | 1,250    | 1,23,750        |  |        |                 |
| To Productive<br>wages     |          | 75,000          |  |        |                 |
| To Coal & fuel             |          | 12,500          |  |        |                 |
| To Carriage inwards        |          | 2,500           |  |        |                 |
| To Railway freight         |          | 1,250           |  |        |                 |
| To Repairs to<br>machinery |          | 3,750           |  |        |                 |
| To Royalty                 |          | 2,500           |  |        |                 |
| To Factory<br>insurance    |          | 3,750           |  |        |                 |
| To Factory rent            |          | 46,250          |  |        |                 |
|                            |          | <b>3,58,750</b> |  |        | <b>3,58,750</b> |

**Trading a/c of M/s Ram & Co. for the year ended 31-3-2003**

|  | Rs.      |                                    | Rs.      | Rs.      |
|--|----------|------------------------------------|----------|----------|
| To Opening stock of finished goods                       | 45,000   | By Sales                           | 3,95,000 |          |
| To Manufacturing cost transferred from Manufacturing a/c | 2,76,250 | Less : Returns                     | 2,500    | 3,92,500 |
| To Purchase of finished goods                            | 50,000   | By Closing stock of finished goods |          | 25,000   |
| To Gross profit transferred to profit & Loss a/c         | 46,250   |                                    |          |          |
|  | 4,17,500 |                                    |          | 4,17,500 |

### 9.3 PROFIT AND LOSS ACCOUNT

The Trading Account simply tells about the gross profit or loss made by a businessman on purchasing and selling of goods. It does not take into account the other operating expenses incurred by him during the course of running the business. All such expenses are charged to the Profit and Loss account. Besides this, a businessman may have other sources of income. For example, he may receive rent from some of his business properties. He may have invested surplus funds of the business in some securities. He might be getting interest or dividends from such investments. In order to ascertain the true profit or loss which the business has made during a particular period, it is necessary that all such expenses and incomes should be considered. Profit and loss Account considers all such expenses and incomes and gives the net profit made or loss suffered by a business during a particular period. It is generally prepared in the following form.

**Profit and Loss Account of ..... for the year ending ....**

Dr.

Cr.

| Particulars         | Rs.   | Particulars          | Rs.   |
|---------------------|-------|----------------------|-------|
| To Gross Loss b/d * | X x x | By Gross Profit b/d* | X x x |
| To Salaries         | X x x | By Discount received | X x x |

|   |       |   |       |
|---|-------|---|-------|
| To Rent   | X x x | By Net loss transferred to Capital<br>a/c | X x x |
| To Commission                                   | X x x |   |       |
| To Advertisements                               | X x x |   |       |
| To Bad debts                                    | X x x |   |       |
| To Discount                                     | X x x |   |       |
| To Net profit transferred to Capital<br>Account | X x x |   |       |

- Only one figure will appear

### 9.3.1 Important points regarding Profit and Loss Account :

1. **Gross profit or Gross Loss:** The figure of gross profit or gross loss is brought down from the Trading Account. Of course, there will be only one figure i.e., either of gross profit or gross loss.
2. **Salaries :** Salaries payable to the employees for the services rendered by them in running the business being of indirect nature are charged to the profit and loss account. In case of a partnership firm, salaries may be allowed to the partners. Such salaries will also be charged to the Profit and Loss Account.
3. **Salaries less Tax :** In case of employees earning salaries beyond a certain limit, the employer has to deduct at source income tax from the salaries of such employees. In such a case, the amount of gross salaries should be charged to the Profit and Loss Account, while the tax deducted by the employer will be shown as a liability in the balance sheet of the business till it is deposited with the Tax Authorities.
4. **Interest :** Interest on loans whether short term or long term is an expenses of an indirect nature and, therefore, is charged tot he Profit and Loss Account. However, interest on loans advanced by a firm to third parties is an item of income and therefore, will be credited to the Profit and Loss account.
5. **Commission :** Commission may be both an item of income as well as an item of expense. Commission on business brought by agents is an item of expenses while commission

earned by the business for giving business to others is an item of income. Commission to agents is, therefore, debited to the Profit and Loss account while commission received is credited to the Profit and Loss account.

- 6. Trade expenses :** Trade expenses are expenses of a miscellaneous nature. They are of small amounts and varied in nature and, therefore, it is not considered worthwhile to open separate accounts for each of such types of expenses. The term ``Sundry Expenses'', ``Miscellaneous Expenses'' or ``Petty Expenses'' have also the same meaning. They are charged to the Profit and Loss Account.
- 7. Printing and Stationery :** This item of expenses includes expenses on printing of bills, invoices, registers, files, letter heads, ink, pencil, paper and other items of stationery etc. It is of an indirect nature and, therefore, charged to the Profit and Loss Account.
- 8. Advertisement :** Advertisement expenses are incurred for attracting the customers to the shop and therefore, they are taken as selling expenses. They are debited to the Profit and Loss Account. However, advertisements expenses incurred for purchasing of goods should be charged to the Trading account, while advertisement expenses incurred for purchase of a capital asset (e.g. cost of insertion in a newspaper for purchase of car) should be taken as capital expenditure and debited to the concerned asset account. Similarly, advertisements expenditure incurred for sale of a capital asset should be deducted out of the sale proceeds of the asset concerned.
- 9. Bad debts :** Bad debts denotes the amount lost from debtors to whom the goods were sold on credit. It is a loss, and therefore, should be debited to the Profit and Loss account.
- 10. Depreciation :** Depreciation denotes decrease in the value of an asset due to wear and tear, lapse of time, obsolescence, exhaustion and accident. For example, a motor car purchased gets depreciated on account of its constant use. A property purchased on lease for Rs.12,000 for 12 years will depreciate at the rate of Rs.1,000 per year. On account of new inventions old assets become obsolete and they have to be replaced. Mines, etc., get exhausted after the minerals are completely taken out of them. An asset may meet an accident and may lose its value. It is necessary that depreciation on account of all these factors is charged to the Profit and Loss account to ascertain the true profit or loss made by the business.

In case the total of the credit side of the Profit and Loss Account is greater than the debit side of the Profit and Loss account, the difference is termed as Net profit. In a reverse case, it will be termed as Net Loss. The amount of Net profit or Net loss shown by the Profit and Loss account will be transferred to capital account in case of sole proprietary form. In case of a partnership firm, the amount of net profit or net loss will be transferred to the partners' capital accounts in the agreed ratio. In the absence of any agreement, the partners will share profits and losses equally.

### 9.3. 2 Importance of Profit and Loss Account :

The profit and loss account provides information regarding the following manner.

1. It provides information about the net profit or net loss earned or suffered by the business during a particular period. Thus, it is an index of the profitability or otherwise of the business.
2. The profit figure disclosed by the profit and loss account for a particular period can be compared with that of the other period. Thus, it helps in ascertaining whether the business is being run efficiently or not.
3. An analysis of the various expenses included in the Profit and Loss Account and their comparison with the expenses of the previous period or periods helps in taking steps for effective control of the various expenses.
4. Allocation of profit among the different periods or setting aside a part of the profit for future contingencies can be done. Moreover, on the basis of profit figures of the current and the previous period estimates about the profit in the year to come can be made. These projections will help the business in planning the future courses of action.

**Illu.5 : From the following ledger balances prepare Trading, Profit and Loss account for the year ending 31-3-2007.**

|                                 | Debit Rs.     | Credit Rs. |
|---------------------------------|---------------|------------|
| <b>Opening Stock (1-4-2006)</b> | <b>2,000</b>  |            |
| <b>Purchases</b>                | <b>18,000</b> |            |



|                          |              |               |
|--------------------------|--------------|---------------|
| <b>Sales</b>             |              | <b>21,000</b> |
| <b>Wages</b>             | <b>300</b>   |               |
| <b>Carriage inwards</b>  | <b>100</b>   |               |
| <b>Carriage outwards</b> | <b>150</b>   |               |
| <b>Sales returns</b>     | <b>2,000</b> |               |
| <b>Purchase returns</b>  |              | <b>1,000</b>  |
| <b>Salaries</b>          | <b>2,400</b> |               |
| <b>Rent</b>              | <b>600</b>   |               |
| <b>Discount</b>          | <b>50</b>    |               |
| <b>General expenses</b>  | <b>500</b>   |               |
| <b>Commission</b>        |              | <b>1,800</b>  |

**Closing stock as on 31-3-2007 for Rs.9,000.**

**Solution :**

**Trading, Profit & Loss a/c for the year ended 31-3-2007**

|   | <b>Rs.</b> | <b>Rs.</b>    |                     | <b>Rs.</b> | <b>Rs.</b>    |
|---|------------|---------------|---------------------|------------|---------------|
| To Opening stock                          |            | 2,000         | By Sales            | 21,000     |               |
| To Purchases                              | 18,000     |               | Less : Returns      | 2,000      | 19,000        |
| Less : Returns                            | 1,000      | 17,000        | By Closing stock    |            | 9,000         |
| To Wages                                  |            | 300           |                     |            |               |
| To Carriage inwards                       |            | 100           |                     |            |               |
| To Gross profit c/d                       |            | 8,600         |                     |            |               |
|   |            | <b>28,000</b> |                     |            | <b>28,000</b> |
| To Salaries                               |            | 2,400         | By Gross Profit b/d |            | 8,600         |
| To Rent                                   |            | 600           | By Commission       |            | 1,800         |
| To General expenses                       |            | 500           |                     |            |               |
| To Discount                               |            | 50            |                     |            |               |
| To Carriage outwards                      |            | 150           |                     |            |               |
| To Net profit<br>(transferred to capital) |            | 6,700         |                     |            |               |

|          |  |               |  |  |               |
|----------|--|---------------|--|--|---------------|
| account) |  |               |  |  |               |
|          |  | <b>10,400</b> |  |  | <b>10,400</b> |

**Illu.6 : From the following Trial Balance of Venugopal as on 31-12-2003. Prepare Trading, Profit and Loss Account.**

|                                | Rs.           |                          | Rs.           |
|--------------------------------|---------------|--------------------------|---------------|
| <b>Opening stock</b>           | <b>12,600</b> | <b>Sales</b>             | <b>26,000</b> |
| <b>Salaries, wages</b>         | <b>2,000</b>  | <b>Purchase returns</b>  | <b>200</b>    |
| <b>Carriage</b>                | <b>200</b>    | <b>Discount received</b> | <b>300</b>    |
| <b>Sales returns</b>           | <b>500</b>    | <b>Capital</b>           | <b>8,000</b>  |
| <b>Trading expenses</b>        | <b>550</b>    | <b>Creditors</b>         | <b>900</b>    |
| <b>Rent</b>                    | <b>250</b>    | <b>Loan</b>              | <b>2,000</b>  |
| <b>Plant</b>                   | <b>2,500</b>  |                          |               |
| <b>Plant repairs</b>           | <b>450</b>    |                          |               |
| <b>Cash in hand</b>            | <b>300</b>    |                          |               |
| <b>Cash at bank</b>            | <b>1,000</b>  |                          |               |
| <b>Debtors</b>                 | <b>5,150</b>  |                          |               |
| <b>Income tax</b>              | <b>600</b>    |                          |               |
| <b>Drawings</b>                | <b>900</b>    |                          |               |
| <b>Commission on purchases</b> | <b>400</b>    |                          |               |
| <b>Purchases</b>               | <b>10,000</b> |                          |               |
|                                | <b>37,400</b> |                          | <b>37,400</b> |

**Closing stock value as on 31-12-2003 Rs.3,000.**

**Solution :**

**Trading, Profit & Loss a/c of Venugopal  
for the year ended 31-12-2003**

|   | Rs.    | Rs.           |                      | Rs.    | Rs.           |
|---|--------|---------------|----------------------|--------|---------------|
| To Opening stock                              |        | 12,600        | By Sales             | 26,000 |               |
| To Purchases                                  | 10,000 |               | Less : Returns       | 500    | 25,500        |
| Less : Returns                                | 200    | 9,800         | By closing stock     |        | 3,000         |
| To Carriage                                   |        | 200           |                      |        |               |
| To Commission on purchases                    |        | 400           |                      |        |               |
| To Gross profit c/d                           |        | 5,500         |                      |        |               |
|   |        | <b>28,500</b> |                      |        | <b>28,500</b> |
|   |        |               | By Gross profit b/d  |        | 5,500         |
| To Salaries, wages                            |        | 2,000         | By Discount received |        | 300           |
| To Rent                                       |        | 250           |                      |        |               |
| To Trading expenses                           |        | 550           |                      |        |               |
| To Plant repairs                              |        | 450           |                      |        |               |
| To Net profit<br>(transferred to capital a/c) |        | 2,550         |                      |        |               |
|   |        | <b>5,800</b>  |                      |        | <b>5,800</b>  |

**Note :**

1. Income tax and drawings are personal expenses and hence they are not to be shown in profit and loss a/c.
2. Drawings are to be deducted from capital on the liability side of the Balance Sheet.

**Illu.7 :From the following trial balance prepare trading and profit and loss account for the year ended March 31<sup>st</sup> 2004.**

|                                       | Debit Rs. | Credit Rs. |
|---------------------------------------|-----------|------------|
| Capital                               |           | 7,610      |
| Cash in hand                          | 30        |            |
| Purchases                             | 8,990     |            |
| Sales                                 |           | 11,060     |
| Cash in bank                          | 885       |            |
| Fixtures and Fittings                 | 225       |            |
| Freehold premises                     | 1,500     |            |
| Lighting and heating                  | 65        |            |
| Bills Receivable                      | 825       |            |
| Returns inwards                       | 30        |            |
| Salaries                              | 1,075     |            |
| Creditors                             |           | 1,950      |
| Debtors                               | 5,700     |            |
| Stock at April 1 <sup>st</sup> , 2003 | 3,000     |            |
| Printing                              | 225       |            |
| Bills Payable                         |           | 1,875      |
| Rates, Taxes and Insurance            | 190       |            |
| Discounts received                    |           | 445        |
| Discounts allowed                     | 200       |            |
|                                       | 22,940    | 22,940     |

Closing stock on 31<sup>st</sup> March 2004 was valued at Rs.1,800.

**Solution :**

**Trading, Profit & Loss a/c for the year ended 31-3-2004**

|                     | Rs.    |                  | Rs.    | Rs.    |
|---------------------|--------|------------------|--------|--------|
| To Opening stock    | 3,000  | By Sales         | 11,060 |        |
| To Purchases        | 8,990  | Less : returns   | 30     | 11,030 |
| To Gross profit c/d | 840    | By closing stock |        | 1,800  |
|                     | 12,830 |                  |        | 12,830 |

|                            |              |  |  |              |
|----------------------------|--------------|--|--|--------------|
| To Salaries                | 1,075        | By Gross profit                                |  | 840          |
| To Light, Heat             | 65           | By Discount                                    |  | 445          |
| To Printing                | 225          | By Net loss –<br>transferred to capital<br>a/c |  | 470          |
| To Rates, taxes, insurance | 190          |  |  |              |
| To Discount allowed        | 200          |  |  |              |
|                            | <b>1,755</b> |  |  | <b>1,755</b> |

## 9.4 BALANCE SHEET

Having prepared the Trading and profit and loss account, a businessman will like to know the financial position of his business. For this purpose, he prepares a statement of his assets and liabilities as on a particular date. Such a statement is termed as "Balance Sheet". Thus, Balance Sheet is not an account but only a statement containing the assets and liabilities of a business on a particular date. It is, as a matter of fact, a classified summary of the various remaining accounts after accounts relating to Incomes and Expenses have been closed off by Transfer to Manufacturing, Trading and Profit and Loss account.

Balance sheet has two sides. On the left hand side, the liabilities of the business are shown while on the right had side the assets of the business appear. These two terms have been explained later in the chapter.

It will be useful here to quote definitions of the Balance Sheet given by some prominent writers. According to Palmer, "The Balance sheet is a statement at a given date showing on one side the trader's property and possessions and on the other hand his liabilities." According to Freeman, "A Balance Sheet is an itemised list of the asset, liabilities and proprietorship of a business of an individual at a certain date. The definition given by the American Institute of Certified Public Accountants makes the meaning of Balance Sheet more clear. According to it, Balance Sheet is "a list of balance in the assets and liability accounts. The list depicts the position of assets and liabilities of a specific business at a specific point of time.

## 9.5 ARRANGEMENT OF ASSETS AND LIABILITIES

There is no prescribed form of Balance Sheet for a sole proprietary and partnership concern. However, the assets and liabilities may be shown in any of the following order.

1. Liquidity Order
2. Permanency Order

**1. Liquidity Order :** In case a concern adopts liquidity order, the assets which are more readily convertible into cash come first and those which cannot be so readily converted come next and so on. Similarly, those liabilities which are payable first come first, and those payable later on come next and so on. A proforma of Balance Sheet according to liquidity order is given below.

**Balance Sheet as on.....**

| <b>Liabilities</b>   | <b>Rs.</b>   | <b>Assets</b>       | <b>Rs.</b>   |
|----------------------|--------------|---------------------|--------------|
| Bank overdraft       | X x x        | Cash in hand        | X x x        |
| Outstanding expenses | X x x        | Cash at bank        | X x x x      |
| Bills payable        | X x x        | Prepaid expenses    | X x x        |
| Sundry Creditors     | X x x        | Bills receivable    | X x x        |
| Long term loans      | X x x        | Sundry Debtors      | X x x        |
| Capital              | X x x        | Closing stock       | X x x        |
|                      |              | Furniture           | X x x        |
|                      |              | Plant and Machinery | X x x        |
|                      |              | Buildings           | X x x        |
|                      |              | Land                | X x x        |
|                      |              | Goodwill            | X x x        |
|                      | <b>X x x</b> |                     | <b>X x x</b> |

**2. Permanency order :** In case of permanency order, assets which are more permanent come first, less permanent come next and so on. Similarly, liabilities which are more permanent come first, less permanent come next and so on. In other words, an asset will be sold in the last or a liability which will be paid the last come first and that order is followed both for all assets

and liabilities. In case a Balance Sheet is to be prepared according to permanency order, arrangement of assets and liabilities will be reversed than what has been shown above in case of liquidity order. Arrangement of assets according to any of these orders is also termed as `Marshalling of Assets and Liabilities.

## 9.6 IMPORTANT POINTS REGARDING BALANCE SHEET

1. **Liabilities** : The term `Liabilities' denote claims against the assets of a firm whether those of owners of the business or of the creditors. As a matter of fact, the term `Equity is more appropriate than the term liabilities. This is supported by the definition given by American Accounting Association. According to this association, liabilities are `Claims' of the creditors against the enterprise arising out of past activities that are to be satisfied by the disbursement or utilisation of corporate resources. While the term `equity' stands both for owners equity (owners claims) as well as the outsiders equity (outsiders claims). However, for the sake of convenience, we are using the term `Liabilities' for purpose of this book.

Liabilities can be classified in two categories.

1. Current Liabilities and
2. Long term or Fixed Liabilities.

(i) **Current Liabilities** : The term `Current liabilities' is used for such liabilities which are payable within a year from the date of the Balance Sheet either out of current assets or by creation of new current liabilities. The broad categories of current liabilities are as follows.

- (a) Accounts payable i.e., bills payable and trade creditors
- (b) Outstanding expenses i.e., expenses for which services have been received by the business but for which payment has not been made.
- (c) Bank overdraft
- (d) Short-term loans, i.e., loan from Bank which are payable within one year from the date of the Balance Sheet.
- (e) Advance payments received by the business for the services to be rendered or goods to be supplied in future.

(ii) **Fixed Liabilities** : All liabilities other than current liabilities come within this category. In other words, these are liabilities which do not become due for payment in one year and which do not require current assets for their payment.

**2. Assets** : The term “Assets” denotes the resources required by the business from the funds made available either by the owners of the business or others. It thus includes all rights of properties which a business owns Cash, investments, bills receivable, debtors, stock of raw materials, work in progress and finished goods, land, buildings, machinery, trade marks, patents, rights etc., are some examples of assets. Assets may be classified into the following categories.

**(a) Current assets** : Current assets are those assets which are acquired with the intention of converting them into cash during the normal business operations of the company.

According to Grady, “the term Current assets used to designate cash and other assets or resources commonly identified as those which are reasonably expected to be realised in cash or sold during the normal operating cycle of the business. Thus the term current assets include cash and bank balances, stocks of raw materials, work-in-progress and finished goods, debtors, bills receivable, short-term investments, prepaid expenses etc.

**(b) Liquid Assets** : Liquid assets are those assets which are immediately convertible into cash without much loss. Liquid assets are a part of current assets. In computing liquid assets, stocks of raw materials, work-in-progress and finished goods and prepaid expenses are excluded while all other current assets are taken.

**(c) Fixed Assets** : Fixed Assets are those assets which are acquired for relatively long periods for carrying on the business of the enterprise. They are not meant for resale. Land and buildings, machinery, furniture are some of the examples of Fixed assets. Sometimes, the words Block Capital is also used for them.

**(d) Intangible assets** : Intangible assets are those assets which cannot be seen and touched. Goodwill, patents, trade marks etc., are some examples of intangible assets.

**(e) Fictitious Assets** : These are assets not represented by tangible possession or property. Examples of such assets are : formation expenses incurred for establishing a business such as, registration charges paid to the registrar of a joint stock company for getting a company incorporated, discount on issue of shares, debit balance in the profit and loss account when shown on the assets side in case of a joint stock company etc.



**Ilu.8 : From the following balances prepare Trial Balance as on 31-12-2003. Prepare Trading and Profit and Loss Account for the above year ended and Balance Sheet as on that date.**

|                      | Rs.    |                          | Rs.    |
|----------------------|--------|--------------------------|--------|
| Rajakumar 's capital | 15,000 | Opening stock (1-1-2003) | 15,000 |
| Drawings             | 3,000  | Purchases                | 60,000 |
| Furniture, Fittings  | 500    | Sales                    | 80,000 |
| Typewriters          | 1,000  | Purchase returns         | 500    |
| Cycles               | 250    | Sales returns            | 1,000  |
| Debtors              | 15,000 | Carriage inwards         | 750    |
| Creditors            | 13,500 | Carriage outwards        | 1,250  |
| Rent                 | 2,500  | Rates, Taxes             | 600    |
| Salaries             | 3,600  | Cash in hand             | 2,425  |
| Discount allowed     | 425    | General expenses         | 1,800  |

Closing stock on 31-12-2003 Rs.11,000.

**Solution :**

**Trial balance of Raj Kumar as on 31-12-2003**

|                     | Rs.    |                  | Rs.    |
|---------------------|--------|------------------|--------|
| Drawings            | 3,000  | Capital          | 15,000 |
| Furniture, fittings | 500    | Creditors        | 13,500 |
| Typewriters         | 1,000  | Sales            | 80,000 |
| Cycle               | 250    | Purchase returns | 500    |
| Debtors             | 15,000 |                  |        |
| Rent                | 2,400  |                  |        |
| Salaries            | 3,600  |                  |        |

|                          |                 |  |                 |
|--------------------------|-----------------|--|-----------------|
| Discount allowed         | 425             |  |                 |
| General expenses         | 1,800           |  |                 |
| Opening stock (1-1-2003) | 15,000          |  |                 |
| Purchases                | 60,000          |  |                 |
| Sales returns            | 1,000           |  |                 |
| Carriage inwards         | 750             |  |                 |
| Carriage outwards        | 1,250           |  |                 |
| Rates, taxes             | 600             |  |                 |
| Cash in hand             | 2,425           |  |                 |
|                          | <b>1,09,000</b> |  | <b>1,09,000</b> |

**Trading, Profit & Loss a/c of Raj Kumar for the year ended 31-12-003**

|  | Rs.    | Rs.           |                     | Rs.    | Rs.           |
|--|--------|---------------|---------------------|--------|---------------|
| To Opening stock                         |        | 15,000        | By Sales            | 80,000 |               |
| To Purchases                             | 60,000 |               | Less : returns      | 1,000  | 79,000        |
| Less : Returns                           | 500    | 59,500        | By Closing Stock    |        | 11,000        |
| To Carriage inwards                      |        | 750           |                     |        |               |
| To Gross profit c/d                      |        | 14,750        |                     |        |               |
|  |        | <b>90,000</b> |                     |        | <b>90,000</b> |
| To Salaries                              |        | 3,600         | By Gross profit b/d |        | 14,750        |
| To Rent                                  |        | 2,400         |                     |        |               |
| To Discount allowed                      |        | 425           |                     |        |               |
| To General expenses                      |        | 1,800         |                     |        |               |
| To Carriage outwards                     |        | 1,250         |                     |        |               |
| To Rates, taxes                          |        | 600           |                     |        |               |
| To Net profit transferred to capital a/c |        | 4,675         |                     |        |               |
|  |        | <b>14,750</b> |                     |        | <b>14,750</b> |

**Balance Sheet of Raj Kumar as on 31-12-2003**

|                  | Rs.    | Rs.           |                     | Rs. | Rs.           |
|------------------|--------|---------------|---------------------|-----|---------------|
| Creditors        |        | 13,500        | Cash in hand        |     | 2,425         |
| Capital          | 15,000 |               | Debtors             |     | 15,000        |
| Add : Net profit | 4,675  |               | Stock               |     | 11,000        |
|                  | 19,675 |               | Furniture, Fittings |     | 500           |
| Less : Drawings  | 3,000  | 16,675        | Typewriters         |     | 1,000         |
|                  |        |               | Cycle               |     | 250           |
|                  |        | <b>30,175</b> |                     |     | <b>30,175</b> |

**Illu.9 : From the following trail balance of Rao and Bors. Preparing Trading and Profit and Loss account for the year ended 31<sup>st</sup> , 2007 and Balance Sheet as on that date.**

**Trial Balance of Rao & Bros. As on 31-12-2007**

|                     | Debit Rs. |                   | Credit Rs. |
|---------------------|-----------|-------------------|------------|
| Debtors             | 12,000    | Creditors         | 7,900      |
| Drawings            | 2,900     | Capital           | 30,000     |
| Rent, Taxes         | 250       | Sales             | 14,290     |
| Trade expenses      | 670       | Purchases returns | 280        |
| Purchases           | 8,640     | Discount received | 240        |
| Sales returns       | 190       |                   |            |
| Carriage inwards    | 250       |                   |            |
| Wages               | 2,920     |                   |            |
| Salaries            | 1,200     |                   |            |
| Stock (1-1-2007)    | 3,100     |                   |            |
| Discount allowed    | 180       |                   |            |
| Bad debts           | 200       |                   |            |
| Plant, Machinery    | 2,510     |                   |            |
| Furniture, Fittings | 1,800     |                   |            |
| Cash in hand        | 500       |                   |            |

|                     |               |  |               |
|---------------------|---------------|--|---------------|
| <b>Cash at Bank</b> | <b>15,400</b> |  |               |
|                     | <b>52,710</b> |  | <b>52,710</b> |

**Closing stock as on 31-12-2007 Rs.14,220.**

### **Solution :**

#### **Trading and Profit & Loss a/c of Rao & Bros. , for the year ended 31-12-2007**

|  | Rs.   | Rs.           |                      | Rs.    | Rs.           |
|--|-------|---------------|----------------------|--------|---------------|
| To Opening stock                                 |       | 3,100         | By Sales             | 14,290 |               |
| To Purchases                                     | 8,640 |               | Less : Returns       | 190    | 14,100        |
| Less : Returns                                   | 280   | 8,360         | By Closing stock     |        | 14,220        |
| To Wages   |       | 2,920         |                      |        |               |
| To Carriage inwards                              |       | 250           |                      |        |               |
| To Gross profit c/d                              |       | 13,690        |                      |        |               |
|  |       | <b>28,320</b> |                      |        | <b>28,320</b> |
| To Salaries                                      |       | 1,200         | By Gross profit b/d  |        | 13,690        |
| To Rent, Taxes                                   |       | 250           | By Discount received |        | 240           |
| To Trade expenses                                |       | 670           |                      |        |               |
| To Discount allowed                              |       | 180           |                      |        |               |
| To Bad debts                                     |       | 200           |                      |        |               |
| To Net profit<br>(transferred to capital<br>a/c) |       | 11,430        |                      |        |               |
|  |       | <b>13,930</b> |                      |        | <b>13,930</b> |

#### **Balance Sheet of Rao & Bros. as on 31-12-2007**

| <b>Liabilities</b> | Rs.    | Rs.   | <b>Assets</b> | Rs.    |
|--------------------|--------|-------|---------------|--------|
| Creditors          |        | 7,900 | Cash in hand  | 500    |
| Capital            | 30,000 |       | Cash at bank  | 15,400 |

|                  |        |               |                     |  |               |
|------------------|--------|---------------|---------------------|--|---------------|
| Add : Net profit | 11,430 |               | Debtors             |  | 12,000        |
|                  | 41,430 |               | Closing stock       |  | 14,220        |
| Less : Drawings  | 2,900  | 38,530        | Furniture, Fittings |  | 1,800         |
|                  |        |               | Plant, Machinery    |  | 2,510         |
|                  |        | <b>46,430</b> |                     |  | <b>46,430</b> |

**Illu.10 : From the following Trial Balance prepare Trading and profit and Loss account for the year ended 31<sup>st</sup> March, 2004 and balance sheet as on that date.**

|                               | Rs.             |                          | Rs.             |
|-------------------------------|-----------------|--------------------------|-----------------|
| <b>Machinery</b>              | <b>30,000</b>   | <b>Capital</b>           | <b>1,00,000</b> |
| <b>Stock (1-4-2003)</b>       | <b>16,000</b>   | <b>Sales</b>             | <b>2,03,600</b> |
| <b>Wages</b>                  | <b>50,000</b>   | <b>Creditors</b>         | <b>12,500</b>   |
| <b>Carriage</b>               | <b>500</b>      | <b>Purchase returns</b>  | <b>2,000</b>    |
| <b>Salaries</b>               | <b>5,000</b>    | <b>Discount received</b> | <b>250</b>      |
| <b>Factory rent</b>           | <b>2,400</b>    | <b>Bills payable</b>     | <b>8,500</b>    |
| <b>Repairs</b>                | <b>400</b>      |                          |                 |
| <b>Fuel, power</b>            | <b>2,500</b>    |                          |                 |
| <b>Furniture</b>              | <b>5,500</b>    |                          |                 |
| <b>Buildings</b>              | <b>40,000</b>   |                          |                 |
| <b>Debtors</b>                | <b>20,000</b>   |                          |                 |
| <b>Purchases</b>              | <b>1,22,000</b> |                          |                 |
| <b>Sales returns</b>          | <b>3,600</b>    |                          |                 |
| <b>Drawings</b>               | <b>2,000</b>    |                          |                 |
| <b>Discount allowed</b>       | <b>750</b>      |                          |                 |
| <b>Office expenses</b>        | <b>1,000</b>    |                          |                 |
| <b>Manufacturing expenses</b> | <b>600</b>      |                          |                 |
| <b>Bills receivable</b>       | <b>5,000</b>    |                          |                 |
| <b>Cash in hand</b>           | <b>2,400</b>    |                          |                 |
| <b>Cash at Bank</b>           | <b>15,400</b>   |                          |                 |

|                    |                 |  |                 |
|--------------------|-----------------|--|-----------------|
| <b>Office rent</b> | <b>1,800</b>    |  |                 |
|                    | <b>3,26,850</b> |  | <b>3,26,850</b> |

**Closing stock as on 31-3-2004 Rs.20,000.**

## Solution

### Trading, Profit & Loss a/c for the year ended 31-3-2004

|  | Rs.      | Rs.             |                     | Rs.      | Rs.             |
|--|----------|-----------------|---------------------|----------|-----------------|
| To Opening stock                           |          | 16,000          | By Sales            | 2,03,600 |                 |
| To Purchases                               | 1,22,000 |                 | Less : Returns      | 3,600    | 2,00,000        |
| Less : Returns                             | 2,000    | 1,20,000        | By Closing stock    |          | 20,000          |
| To Carriage inwards                        |          | 500             |                     |          |                 |
| To Fuel, Power                             |          | 2,500           |                     |          |                 |
| To Wages                                   |          | 50,000          |                     |          |                 |
| To Factory rent                            |          | 2,400           |                     |          |                 |
| To Manufacturing expenses                  |          | 600             |                     |          |                 |
| To Gross profit c/d                        |          | 28,000          |                     |          |                 |
|  |          | <b>2,20,000</b> |                     |          | <b>2,20,000</b> |
| To Salaries                                |          | 5,000           | By Gross profit b/d |          | 28,000          |
| To Repairs                                 |          | 400             | By Discount allowed |          | 250             |
| To Discount allowed                        |          | 750             |                     |          |                 |
| To Office expenses                         |          | 1,000           |                     |          |                 |
| To Office rent                             |          | 1,800           |                     |          |                 |
| To Net Profit (transferred to capital a/c) |          | 19,300          |                     |          |                 |
|  |          | <b>28,250</b>   |                     |          | <b>28,250</b>   |

**Balance Sheet as on 31<sup>st</sup> March, 2004**

| <b>Liabilities</b> | <b>Rs.</b> | <b>Rs.</b>      | <b>Assets</b>    | <b>Rs.</b>      |
|--------------------|------------|-----------------|------------------|-----------------|
| Creditors          |            | 12,500          | Cash in hand     | 2,400           |
| Bills payable      |            | 8,500           | Cash at Bank     | 15,400          |
| Capital            | 1,00,000   |                 | Bills receivable | 5,000           |
| Add : Net profit   | 19,300     |                 | Debtors          | 20,000          |
|                    | 1,19,300   |                 | Closing stock    | 20,000          |
| Less : Drawings    | 2,000      | 1,17,300        | Furniture        | 5,500           |
|                    |            |                 | Machinery        | 30,000          |
|                    |            |                 | Buildings        | 40,000          |
|                    |            | <b>1,38,300</b> |                  | <b>1,38,300</b> |

**Illu.11 : From the following trial balance of M/s Jairaj & Co. prepare Trading and profit and Loss Account for the year ending 31<sup>st</sup> March 2004 and Balance Sheet as on that date.**

|                          | <b>Debit Rs.</b> | <b>Credit Rs.</b> |
|--------------------------|------------------|-------------------|
| <b>Stock (1-4-2003)</b>  | <b>20,000</b>    | <b>-</b>          |
| <b>Purchases</b>         | <b>80,000</b>    | <b>-</b>          |
| <b>Sales</b>             | <b>-</b>         | <b>1,15,000</b>   |
| <b>Returns inward</b>    | <b>15,000</b>    | <b>-</b>          |
| <b>Returns outward</b>   | <b>-</b>         | <b>10,000</b>     |
| <b>Carriage inwards</b>  | <b>7,000</b>     | <b>-</b>          |
| <b>Carriage outwards</b> | <b>8,000</b>     | <b>-</b>          |
| <b>Wages</b>             | <b>10,000</b>    | <b>-</b>          |
| <b>Salaries</b>          | <b>12,000</b>    | <b>-</b>          |
| <b>Rent</b>              | <b>7,000</b>     | <b>-</b>          |
| <b>Drawings</b>          | <b>10,000</b>    | <b>-</b>          |
| <b>Capital</b>           | <b>-</b>         | <b>69,000</b>     |
| <b>Interest Received</b> | <b>-</b>         | <b>7,000</b>      |

|                            |                 |                 |
|----------------------------|-----------------|-----------------|
| <b>Investments</b>         | <b>30,000</b>   |                 |
| <b>Cash</b>                | <b>5,000</b>    | <b>-</b>        |
| <b>Bank</b>                | <b>8,000</b>    | <b>-</b>        |
| <b>Debtors</b>             | <b>12,000</b>   | <b>-</b>        |
| <b>Creditors</b>           | <b>-</b>        | <b>15,000</b>   |
| <b>Bills Payable</b>       | <b>-</b>        | <b>5,000</b>    |
| <b>Commission Received</b> | <b>-</b>        | <b>3,000</b>    |
|                            | <b>2,24,000</b> | <b>2,24,000</b> |

Closing stock on March 31, 2004 was valued at Rs.19,000.

### Solution :

#### Trading, Profit & Loss a/c Jai raj & Co. for the year ended 31-3-2004

|                      | Rs.    | Rs.             |  | Rs.      | Rs.             |
|----------------------|--------|-----------------|--|----------|-----------------|
| To Opening stock     |        | 20,000          | By Sales                                 | 1,15,000 |                 |
| To Purchases         | 80,000 |                 | Less : Returns                           | 15,000   | 1,00,000        |
| Less : Returns       | 10,000 | 70,000          | By Closing Stock                         |          | 19,000          |
| To Wages             |        | 10,000          |  |          |                 |
| To Carriage inward   |        | 7,000           |  |          |                 |
| To Gross profit c/d  |        | 12,000          |  |          |                 |
|                      |        | <b>1,19,000</b> |  |          | <b>1,19,000</b> |
| To Salaries          |        | 12,000          | By Gross profit b/d                      |          | 12,000          |
| To Carriage outwards |        | 8,000           | By Interest received                     |          | 7,000           |
| To Rent              |        | 7,000           | By Commission received                   |          | 3,000           |
|                      |        |                 | By Net Loss (transferred to capital a/c) |          | 5,000           |
|                      |        | <b>27,000</b>   |  |          | <b>27,000</b>   |



**Balance Sheet of Jai Raj & Co. as on 31<sup>st</sup> March, 2004**

| <b>Liabilities</b> | <b>Rs.</b> | <b>Rs.</b>    | <b>Assets</b> | <b>Rs.</b>    |
|--------------------|------------|---------------|---------------|---------------|
| Creditors          |            | 15,000        | Cash          | 5,000         |
| Bills payable      |            | 5,000         | Bank          | 8,000         |
| Capital            | 69,000     |               | Debtors       | 12,000        |
| Less : Drawings    | 10,000     |               | Stock         | 19,000        |
|                    | 59,000     |               | Investments   | 30,000        |
| Less : Net Loss    | 5,000      | 54,000        |               |               |
|                    |            | <b>74,000</b> |               | <b>74,000</b> |

## 9.7 QUESTIONS

1. What are financial statements?
2. What is a trading account?
3. What do you meant by direct expenses?
4. Distinguish between capital and revenue expenditure
5. Distinguish between capital and revenue income
6. What is Profit & Loss account?
7. Explain the important points to be followed in the preparation of trading and profit & loss account.
8. What is a Balance Sheet?
9. What is Marshalling?
10. Explain the important points to be considered in the preparation of the balance sheet.
11. Give the proforma of trading and profit and loss account with hypothetical figures
12. Prepare a Balance sheet of an organisation with hypothetical figures.
13. Explain the need for adjustments in final accounts
14. Give five journal entries for adjustments in final accounts
15. How do you treat the following in final accounts?

- (a) Outstanding expenses
- (b) Prepaid expenses
- (c) Outstanding income
- (d) Income received in advance
- (e) Depreciation on assets
- (f) Treatment of bad debt, provision for doubtful debts and provision for discount
- (g) Provision for bad debts
- (h) Provision for discount on debtors
- (i) Provision for discount on creditors
- (j) Interest on Drawings
- (k) Interest on capital
- (l) Closing Stock

## 9.8 EXERCISES

- From the following information, prepare the final accounts for the year ending 31-3-06.

|                      | Rs.    |                   | Rs.      |
|----------------------|--------|-------------------|----------|
| Cash in hand         | 7,000  | Furniture         | 2,500    |
| Building             | 4,000  | Capital           | 60,000   |
| Drawings             | 4,000  | Wages             | 8,000    |
| Creditors            | 33,000 | Debtors           | 30,000   |
| Bad debts            | 1,000  | Misc. Expenses    | 700      |
| Postage & Telegram   | 400    | Insurance         | 2,200    |
| Printing             | 1,500  | Discount received | 1,000    |
| Discount allowed     | 2,000  | Rent & Rates      | 4,500    |
| Carriage             | 3,000  | Stock             | 18,000   |
| Returns outward      | 2,300  | Returns inward    | 1,500    |
| Purchases            | 70,000 | Sales             | 1,00,000 |
| Outstanding expenses | 1,000  | Bills Payable     | 4,000    |

Stock on 31-3-06 Rs.26,000.

**[Ans.: Gross Profit Rs.27,800, Net Profit Rs.16,500 ]**

2. From the following information, prepare the final accounts for the year 2006.

| <b>Dr. Balances</b> | <b>Rs.</b> | <b>Cr. Balances</b> | <b>Rs.</b> |
|---------------------|------------|---------------------|------------|
| Cash at Bank        | 7,000      | Sundry Creditors    | 30,000     |
| Sundry Debtors      | 60,000     | Discount            | 1,000      |
| Plant & Machinery   | 50,000     | Returns             | 4,000      |
| Cash in hand        | 1,000      | Sales               | 1,50,000   |
| Advertising         | 6,000      | Capital             | 56,000     |
| Rent, Rates & Taxes | 5,000      |                     |            |
| Bank Charges        | 500        |                     |            |
| Discount            | 2,000      |                     |            |
| Stock               | 20,000     |                     |            |
| Returns             | 5,000      |                     |            |
| Purchases           | 70,000     |                     |            |

Stock as on 31-12-1996 Rs.31,000.

**[Ans.: Gross Profit Rs.81,000, Net profit Rs.63,000]**

3. From the following information, prepare the final accounts for the year 2006:

| <b>Dr. Balances</b>    | <b>Rs.</b> | <b>Cr. Balances</b> | <b>Rs.</b> |
|------------------------|------------|---------------------|------------|
| Furniture              | 15,000     | Bills payable       | 20,000     |
| Carriage               | 9,000      | Sales               | 2,20,000   |
| Bad Debts              | 5,000      | Returns             | 7,000      |
| Manufacturing Expenses | 7,000      | Creditors           | 50,000     |
| Bills receivable       | 12,000     | Capital             | 1,89,000   |
| Rent                   | 10,000     |                     |            |

|                   |          |  |  |
|-------------------|----------|--|--|
| Stock             | 45,000   |  |  |
| Repairs           | 8,000    |  |  |
| Salaries          | 30,000   |  |  |
| Cash at Bank      | 10,000   |  |  |
| Cash in hand      | 5,000    |  |  |
| Wages             | 40,000   |  |  |
| Returns           | 10,000   |  |  |
| Purchases         | 1,10,000 |  |  |
| Debtors           | 70,000   |  |  |
| Plant & Machinery | 80,000   |  |  |
| Drawings          | 20,000   |  |  |

Stock as on 31-12-2006 Rs.51,000

**[Ans.: Gross Profit Rs.57,000, Net profit Rs.4,000]**

4. From the following information, prepare the final accounts for the year 2006.

| <b>Dr. Balances</b> | <b>Rs.</b> | <b>Cr. Balances</b> | <b>Rs.</b> |
|---------------------|------------|---------------------|------------|
| Returns             | 15,000     | Capital             | 1,41,000   |
| Cash in hand        | 2,000      | Returns             | 10,000     |
| Bills Receivable    | 20,000     | Bank overdraft      | 20,000     |
| Purchases           | 1,50,000   | Bills Payable       | 30,000     |
| Bad debts           | 5,000      | Sales               | 3,40,000   |
| Income Tax          | 2,000      | Commission          | 9,000      |
| Bank Charges        | 1,000      |                     |            |
| Salaries            | 35,000     |                     |            |
| Insurance           | 5,000      |                     |            |
| Rent & Rates        | 12,000     |                     |            |
| Carriage            | 8,000      |                     |            |
| Wages               | 70,000     |                     |            |

|           |        |  |  |
|-----------|--------|--|--|
| Power     | 10,000 |  |  |
| Stock     | 50,000 |  |  |
| Furniture | 15,000 |  |  |
| Machinery | 70,000 |  |  |
| Building  | 80,000 |  |  |

Stock as on 31-12-2006 Rs.61,000.

**[Ans.: Gross Profit Rs.1,08,000, Net Profit Rs.59,000, Balance Sheet Total Rs.2,48,000]**

5. From the following information, prepare the final accounts for the year 2006.

| Dr. Balances      | Rs.      | Cr. Balances  | Rs.      |
|-------------------|----------|---------------|----------|
| Cash at Bank      | 5,000    | Capital       | 60,000   |
| Bills Receivable  | 9,000    | Bills Payable | 7,000    |
| Salaries          | 11,500   | Creditors     | 30,000   |
| General Charges   | 3,000    | Sales         | 2,20,000 |
| Taxes & Insurance | 4,000    | Returns       | 4,000    |
| Cash in hand      | 2,000    | Commission    | 5,000    |
| Interest          | 5,000    |               |          |
| Advertising       | 9,000    |               |          |
| Returns           | 5,000    |               |          |
| Purchases         | 1,20,000 |               |          |
| Stock             | 40,000   |               |          |
| Debtors           | 50,000   |               |          |
| Bad debts         | 2,500    |               |          |
| Furniture         | 10,000   |               |          |
| Building          | 50,000   |               |          |

Stock as on 31-12-96 Rs.21,000.

**[Ans.: Gross Profit Rs.80,000, Net Profit Rs.50,000, Balance Sheet Total Rs.1,47,000]**

6. From the following Trial Balance of M/s Ram & Sons, prepare trading and profit and loss account for the year ending on 31<sup>st</sup> December, 2006 and the balance sheet as on that date.

| Particulars             | Dr. Rs.       | Cr. Rs.       |
|-------------------------|---------------|---------------|
| Purchase                | 21,750        |               |
| Discount allowed        | 1,300         |               |
| Wages                   | 6,500         |               |
| Salaries                | 2,000         |               |
| Sales                   |               | 35,000        |
| Travelling Expenses     | 400           |               |
| Commission              | 425           |               |
| Carriage Inward         | 275           |               |
| Administration Expenses | 105           |               |
| Trade Expenses          | 600           |               |
| Interest                | 250           |               |
| Building                | 5,000         |               |
| Furniture               | 200           |               |
| Debtors                 | 4,250         |               |
| Capital                 |               | 13,000        |
| Creditors / Cash        | 7,045         | 2,100         |
|                         | <b>50,100</b> | <b>50,100</b> |

Stock on 31<sup>st</sup> December, 2006 was Rs.6,000. Depreciate buildings by 20%, create a provision for bad debts at 10% on debtors. Provide for outstanding wages Rs.475, salaries Rs.500 and goods used by the proprietor Rs.500.

**[Ans.: Gross profit Rs.12,500, Net Profit Rs.5,495, Balance Sheet Total Rs.21,070]**

7. From the following ledger balances prepare Trading and profit and Loss Account for the year ended 30<sup>th</sup> September, 2006 and a Balance Sheet as on that date.

| Particulars   | Rs.      | Particulars                 | Rs.    |
|---|----------|-----------------------------|--------|
| Rama's Capital a/c  | 1,19,400 | Cash                        | 530    |
| Rama's drawings a/c   | 10,550   | Repairs & Renewals          | 3,370  |
| Bills Receivable  | 9,500    | Bank                        | 18,970 |
| Plant and Machinery   | 28,800   | Interest and Discount (Dr.) | 5,870  |
| Sundry debtors (including Madan's dishonoured bill Rs.1,000)          | 62,000   | Bad Debts                   | 3,620  |
| Loan a/c (Cr.) at 6%  | 20,000   | Sundry Creditors            | 39,630 |
| Wages (Manufacturing)   | 40,970   | Fixtures & Fittings         | 8,970  |
| Returns Inwards   | 2,780    |                             |        |
| Purchases   | 2,56,590 |                             |        |
| Sales   | 3,56,430 |                             |        |
| Commission received   | 5,640    |                             |        |
| Rent and Taxes  | 5,620    |                             |        |
| Stock on 1 <sup>st</sup> October, 2006                                | 89,680   |                             |        |
| Salaries  | 11,000   |                             |        |
| Travelling Expenses   | 1,880    |                             |        |
| Insurance (including Rs.300 p.a. paid up 31 <sup>st</sup> March 2006) | 400      |                             |        |

Stock in hand on 30<sup>th</sup> September, 2006 was Rs.1,28,960. Write off half of Madan's dishonoured bill. Depreciate Plant and Machinery by 5% and Fixtures and Fittings by 10%.

**[Ans.: Gross Profit Rs.95,370; Net Profit Rs.66,563 and Balance Sheet Total Rs.2,55,043].**

8. From the following Trial Balance of Mr. A, Prepare Trading and Profit & Loss Account for the year ending 31<sup>st</sup> December, 2006 and a Balance Sheet as on that date :

| Debit Balances | Rs.   | Credit Balances | Rs.    |
|----------------|-------|-----------------|--------|
| Drawings       | 5,275 | Capital         | 59,700 |

|   |                 |                        |                 |
|---|-----------------|------------------------|-----------------|
| Bills Receivable                                      | 4,750           | Loan at 8% on (1-1-88) | 10,000          |
| Machinery   | 14,400          | Commission received    | 2,820           |
| Debtors (including X for Dishnoured Bill of Rs.1,000) | 30,000          | Creditors              | 29,815          |
| Wages   | 20,485          | Sales                  | 1,78,215        |
| Returns inwards                                       | 2,390           |                        |                 |
| Purchases   | 1,28,295        |                        |                 |
| Rent  | 2,810           |                        |                 |
| Stock (1-1-06)  | 44,840          |                        |                 |
| Salaries  | 5,500           |                        |                 |
| Travelling Expenses                                   | 945             |                        |                 |
| Insurance   | 200             |                        |                 |
| Cash  | 9,750           |                        |                 |
| Repairs   | 1,685           |                        |                 |
| Interest on Loan                                      | 500             |                        |                 |
| Discount Allowed                                      | 2,435           |                        |                 |
| Bad Debts   | 1,810           |                        |                 |
| Furniture   | 4,480           |                        |                 |
|   | <b>2,80,550</b> |                        | <b>2,80,550</b> |

The following adjustments are to be made:

- (i) Stock in the shop on 31<sup>st</sup> December, 2006 was Rs.64,480.
- (ii) Half the amount of X's bill is irrecoverable.
- (iii) Create a provision of 5% on other debtors.
- (iv) Wages include Rs.600 for erection of new machinery.
- (v) Depreciate Machinery by 5% and Furniture by 10%.
- (vi) Commission include Rs.300 being Commission received in advance.]

**[Ans.: Gross profit Rs.47,285, Net Profit Rs.30,472, Balance Sheet Total Rs.1,25,312].**



9. The following are the balances of Messers Gupta & Co. as on June, 2006.

| <b>Debit Balances</b> | <b>Rs.</b>      | <b>Credit Balances</b> | <b>Rs.</b>      |
|-----------------------|-----------------|------------------------|-----------------|
| Cash in hand          | 540             | Sales a/c              | 98,780          |
| Cash at Bank          | 2,630           | Returns outward        | 500             |
| Purchases a/c         | 40,675          | Capital Account        | 62,000          |
| Returns Inwards       | 680             | Sundry creditors       | 6,300           |
| Wages Account         | 8,480           | Rent                   | 9,000           |
| Fuel & power          | 4,730           |                        |                 |
| Carriage on Sales     | 3,200           |                        |                 |
| Carriage on Purchases | 2,040           |                        |                 |
| Stock (1-7-06)        | 5,760           |                        |                 |
| Building a/c          | 32,000          |                        |                 |
| Freehold Land         | 10,000          |                        |                 |
| Machinery             | 20,000          |                        |                 |
| Patents               | 7,500           |                        |                 |
| Salaries              | 15,000          |                        |                 |
| General expenses      | 3,000           |                        |                 |
| Insurance             | 600             |                        |                 |
| Drawings              | 5,245           |                        |                 |
| Sundry debtors        | 14,500          |                        |                 |
|                       | <b>1,76,580</b> |                        | <b>1,76,580</b> |

Prepare Trading and Profit & Loss a/c and a Balance Sheet as on 30<sup>th</sup> June, 2006 after taking into account the following adjustments:

- (i) Stock on hand as on 30<sup>th</sup> June, 2006 is Rs.6,800.
- (ii) Machinery is to be depreciated at 10% and Patents at 20%.
- (iii) Salaries for the month of June, 2006 amounting to Rs.1,500 were unpaid.
- (iv) Insurance, includes a premium of Rs.170 on a policy expiring on 31<sup>st</sup> December, 2006.
- (v) Further Bad Debts are Rs.725.

- (vi) Rent Receivable Rs.1,000.

**[Ans.: Gross profit Rs.43,715, Net profit Rs.26,275, Balance Sheet Total Rs.90,830].**

## 9.9 SUGGESTED BOOKS

1. Agarwala, A.N., Amitabha Mukherjee, Mohammed Hanif, **Principles and Practice of Accountancy**, Kitab Mahal Agencies, New Delhi.
2. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
3. Chopde, L.N., & Choudhari, D.H., **Accountancy**, Sheth Publishers, Pune
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5. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
6. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
7. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
8. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

## Chapter - 10

# FINAL ACCOUNTS (WITH ADJUSTMENTS)

### Objectives :

**After going through this unit, we should be able to**

- Know the reasons for adjustments in final accounts
- Understand various types of adjustments and their adjustment in practice
- Prepare the final accounts after taking the adjustment into account.

### Structure :

**10.1 Need for Adjustments in Final Accounts**

**10.2 Adjustments in Final Accounts**

**10.3 Questions**

**10.4 Exercises**

**10.5 Suggested Readings**

## 10.1 NEED FOR ADJUSTMENTS IN FINAL ACCOUNTS

After ascertaining the arithmetical accuracy of the books of accounts by preparing a Trial balance, a trader has to ascertain the results of his business activities and the financial position of the organisation. For this purpose he has to prepare a Trading and profit and loss account and a balance sheet. Final accounts (i.e., the Trading and profit and loss account and balance sheet) are prepared on the basis of a trial balance. But the trial balance is not the complete tool for the purpose of preparation of final accounts. The trial balance contains only those items, which have been recorded in the books of accounts. It does not consider the items such as expenses payable, income receivable, expenses paid in advance and income received in advance, non cash items

such as depreciation on asset, interest on capital, interest on drawings, anticipated losses such as reserve for bad debts, reserve for discount on debtors etc. Unless these items are considered and given effect, the final accounts cannot disclose a true and fair view of the organisation. Hence, necessary adjustments about the above items should be made.

### **10.1.2 Meaning of Adjustments :**

Adjustments in final accounts mean bringing into accounts the items which have not been included in the trial balance. It means bringing into account the expenses incurred but not paid, income earned but not actually received, depreciation on assets, interest on capital, interest on drawings, reserve for bad debts, reserve for discount on debtors and anticipated gains like reserve for discount on creditors.

### **10.1.3. Adjustment Entries :**

Various adjustments in Trading and profit and loss account and Balance sheet are made by means of journal entries. Journal entries passed for adjustments at the end of the year are called adjustment entries. All the adjustment entries are passed in the journal proper.

## **10.2 ADJUSTMENTS IN FINAL ACCOUNTS :**

The following are usual items of adjustments which require adjustments while preparing Trading and Profit and Loss Account and Balance Sheet.

1. Outstanding expenses
2. Prepaid expenses
3. Outstanding income
4. Income received in advance
5. Depreciation on assets
6. Treatment of bad debt, provision for doubtful debts and provision for discount
7. Provision for bad debts
8. Provision for discount on debtors
9. Provision for discount on creditors
10. Interest on Drawings
11. Interest on capital
12. Closing Stock

**10.2.1 Outstanding Expenses :**

Expenses, which are incurred during the year but not paid, are called "outstanding or unpaid expenses". Such unpaid expenses must be considered, otherwise the profit will be overstated. Outstanding expenses must be duly accounted for because the parties who have given services have claim against the business and hence these become the liabilities at the end of the year.

For example, office rent due for the month of December is not paid in the same month, it will be outstanding rent for the month of December. Office rent outstanding is a liability and must be shown in the Balance sheet and the amount due for Office rent will be transferred to the Profit and Loss account. Next year, when this due amount will be paid off, office rent outstanding account will be debited and cash account credited.

**10.2.2. Prepaid Expenses :**

When an expenses is paid in advance, and the benefit of the amount paid will be available in the next year, it is called prepaid expenses. Such expenses are shown in the Balance Sheet as an asset. Such expenses are paid during the year but not incurred..

**10.2.3. Outstanding Income :**

The income which is earned but not yet received in cash during the year is called as an outstanding income. Such incomes, which are earned in the current year should be credited to the Profit and Loss Account and as the amount is yet to be received, it will be transferred to the Balance Sheet on the assets side. For example, the commission earned in the month of December, 2005, but received as yet, will be outstanding incomes for the year ending 31<sup>st</sup> December, 2005. The original amount of commission shown in the Trial balance will be increased by the amount of commission receivable. Next year, when the amount due on commission will be received, it will be credited by debiting the cash account.

**10.2.4 Income received in Advance :**

Sometimes, a trader receives the amount of income in advance before rendering the full service. Such incomes should not be transferred to the credit side of the profit and loss account. The portion of such income is deducted from the income concerned and it is treated as liability. For example, during the year ended 31<sup>st</sup> March, 2006, the total amount received as Rent is Rs.650, out of which Rs.50 are related to the next months of April, 2006. In this case, Rent for the year ended 31<sup>st</sup> March, 2006 will be only  $(Rs.650 - 50) = Rs.600$  and Rs.50 will be shown in the Balance Sheet as liability. Next year, rent received in advance account will be transferred to Rent (received account)

**10.2.5 Depreciation :**

The assets become useless after some time by continuous usage. Every fixed asset has a definite period of utility to the business. The value of an asset goes on decreasing year by year. Such a loss in value is known as depreciation. It is an invisible loss, but must be shown in the profit and loss account each year as long as the asset is in use. And the asset must be shown in the Balance sheet at its reduced value. Generally, the depreciation is charged on the basis of the life of the asset. One thing should be noted that, depreciation is charged only on fixed assets, and not on floating assets, because floating assets are not held by the business for a long time.

**10.2.6. Bad debts :**

A businessman has to sell goods on credit also in order to increase sales. In credit sales, goods are delivered to the customers immediately and cash is received from the debtors after a certain period. Hence, there is a risk of loss due to bad debt. It is likely that some customers may not pay their dues for one or the other reason. Thus, the debt due from customers becomes bad for recovery. Bad debt is the irrecoverable debt from customers. Bad debt is a loss to business. It reduces profits. It is a nominal account. Hence, it is placed on debit side of Profit and Loss account.

**10.2.7. Sundry Debtors :**

It represents the total debt due from various parties on account of sale of goods on credit.

**Provision for Doubtful debts :** The term 'doubtful debts' suggests that the debt may be recovered or may not be recovered. It is rather doubtful about recovery of such debt. Under such a circumstances, it cannot be considered as bad. At the same time, it cannot be considered good for recovery. If all such debtors are treated as good and shown in the balance

sheet, it will amount to showing the assets at a higher value. The profit and loss account also will not show true position. The profit will be overstated. On other hand, if all such debts are shown as bad the profit will be understated and the balance sheet will not show true position as the debtors will be understated. Hence, it is necessary to show the position which is very close to the correct position. This can be done by providing for doubtful debts. The amount of doubtful debt provision is estimated on the basis of past experience. A certain percentage of debt is treated as doubtful and accordingly provided for while preparing financial statement. The amount thus provided for is called "Provision for doubtful debts". There is a distinction between provision for doubtful debts and reserve for doubtful debts. A provision is interpreted as the amount retained by way of providing for a known liability. The amount of such provision cannot be determined with substantial accuracy. The term "reserve" is interpreted as, the amount retained for known liability which is in excess of the necessary amount. The amount which is in excess of the required amount is referred to as a "reserve". However, for the purpose of accounting the above distinction is ignored as the distinction does not materially affect accounting treatment.

#### **10.2.8 Provision for Discount on Debtors :**

In business, a proprietor may be required to allow discount to debtors if they pay their dues before the due dates. The discount allowed would be a loss to business and it is in connection with the debtors created during the year. Hence, it is quite advisable to make a provision for such discount by charging the profit and loss account. Such a provision is called as "Provision for discount on debtors."

**10.2.9 Bad debts recovery :** After writing off bad debts, it is quite likely that some debtors may pay their dues which have been written off as bad. The amount received from debtor against such bad debts written off is called as "Bad debts Recovery" The amount received is credited to Bad debts Recovery Account.

#### **10.2.10 Reserve or provision for discount on Creditors :**

As the trader allows a cash discount to his debtors he may also receive a cash discount from him creditors if he makes the payment during the stipulated period. As such, the trader may receive the cash discount from his creditors which can be estimated. Thus, the cash discount likely

to be received from creditors is estimated and a provision is made for discount on creditors. Such a provision is called as `Provision or Reserve for Discount on Creditors.`.

A Discount received from creditors is a gain, and it is transferred to the credit of the Profit and Loss Account. A reserve for discount on creditors is created by debiting such a Reserve Account and crediting the profit and loss account. The debit balance of Reserve for discount on creditors is shown in the Balance Sheet by subtracting it from sundry creditors.

The actual amount of discount received is credited to the Discount Received Account and debited to the Creditors personal account. At the end of the year, the total amount of Discount received is transferred to the credit side of Reserve for Discount on Creditors Accounts . Then, a new estimate is made regarding the Discount receivable from Sundry Creditors by crediting the Profit and Loss Account.

#### **10.2.11 Interest on Drawings :**

Drawings denotes the money withdrawn by the proprietor from the business for his personal use. It is usual practice to charge interest on drawings in case interest is allowed to the proprietor on his capital. In case of a partnership firm, interest on drawings will be charged on the drawings made by each partner.

**Computation of Interest on drawings :** There is a difference between the method of computation of interest on capital and interest on drawings. In most cases interest on capital is charged on the opening balance in the capital account. However, in case of additional capital introduced during the year by the proprietor, interest may be charged from the date of introducing additional capital till the end of the accounting period. Since the interest is to be charged on the amount withdrawn by the proprietor from the date on which he withdrew the amount from the business till the end of the accounting period, it requires computation of interest on each with

#### **10.2.11. Closing Stock :**

Stock remaining unsold at the end of the accounting year is called ``Closing stock``. Closing stock has to be taken into account while preparing final accounts. Unless it is taken into account Trading and profit and loss account and balance sheet will not disclose a true and fair view of the state of affairs of the business concern. Closing stock is credited to Trading Account and shown in the Balance Sheet on the Assets side.



**Illu.1 : From following Trial Balance of Swaroop, prepare Trading and Loss account for the year ended 31<sup>st</sup> March 2006 and a Balance sheet as on that date.**

| <i>Debit Balances</i> | <i>Rs.</i> | <i>Credit Balances</i> | <i>Rs.</i> |
|-----------------------|------------|------------------------|------------|
| Stock                 | 45,000     | Capital                | 75,000     |
| Plant and machinery   | 75,000     | Sales                  | 4,20,750   |
| Purchases             | 2,25,000   | Sundry Creditors       | 15,000     |
| Trade expenses        | 10,000     | Bad debts provision    | 200        |
| Carriage inwards      | 2,500      | Bills payable          | 2,000      |
| Carriage outwards     | 1,500      |                        |            |
| Factory rent          | 1,500      |                        |            |
| Discount              | 350        |                        |            |
| Insurance             | 700        |                        |            |
| Sundry debtors        | 60,000     |                        |            |
| Office rent           | 3,000      |                        |            |
| Stationery            | 600        |                        |            |
| Salaries              | 17,800     |                        |            |
| Advertising           | 15,000     |                        |            |
| Bills receivable      | 6,000      |                        |            |
| Drawing               | 6,000      |                        |            |
| Wages                 | 20,000     |                        |            |
| Furniture             | 7,500      |                        |            |
| Coal and gas          | 1,000      |                        |            |
| Cash in hand          | 2,000      |                        |            |
| Cash at Bank          | 12,500     |                        |            |
|                       | 5,12,950   |                        | 5,12,950   |

**Adjustments :**

- a. Closing stock amounted to Rs. 35,000

- b. Depreciate Machinery by 10% and Furniture by 5%
- c. Raise the Bad debts provision to 5% on Debtors
- d. Outstanding Factory rent Rs.300 and Office rent Rs. 600
- e. Insurance prepaid Rs.100.

**Solution :****Trading Profit & Loss Account of****Dr.****Swaroop for the year ending 31.3.2006****Cr.**

|                            | <b>Rs.</b>      |                     | <b>Rs.</b>      |
|----------------------------|-----------------|---------------------|-----------------|
| To Opening Stock           | 45,000          | By Sales            | 4,20,750        |
| To Purchase                | 2,25,000        | By Closing Stock    | 35,000          |
| To Wages                   | 20,000          |                     |                 |
| To Coal and Gas            | 1,000           |                     |                 |
| To Carriage Inwards        | 2,500           |                     |                 |
| To Factory Rent      1,500 |                 |                     |                 |
| Add outstanding      300   | 1,800           |                     |                 |
| To Gross profit c/d        | 1,60,450        |                     |                 |
|                            | <b>4,55,750</b> |                     | <b>4,55,750</b> |
| To Salaries                | 17,800          | By Gross profit b/d | 1,60,450        |
| To Advertising             | 15,000          |                     |                 |
| To Stationary              | 600             |                     |                 |
| To Office Rent      3,000  |                 |                     |                 |
| Add outstanding      600   | 3,600           |                     |                 |
| To Insurance      700      |                 |                     |                 |
| Less Prepaid      100      | 600             |                     |                 |
| To Discount                | 350             |                     |                 |
| To Carriage outwards       | 1,500           |                     |                 |
| To Trade expenses          | 10,000          |                     |                 |
| To Depreciation            |                 |                     |                 |
| Machinery      7,500       |                 |                     |                 |

|                                      |     |                 |  |                 |
|--------------------------------------|-----|-----------------|--|-----------------|
| Furniture                            | 375 | 7,875           |  |                 |
| To Provision for Bad Debts           |     | 2,800           |  |                 |
| To Net Profit transferred to capital |     | 1,00,325        |  |                 |
|                                      |     | <b>1,60,450</b> |  | <b>1,60,450</b> |

**Balance sheet of Swaroop as on 31-3-2006**

| <i>Liabilities</i> |          | <i>Rs.</i>      | <i>Assets</i>     |        | <i>Rs.</i>      |
|--------------------|----------|-----------------|-------------------|--------|-----------------|
| Sundry creditors   |          | 15,000          | Cash in Hand      |        | 2,000           |
| Bills payable      |          | 2,000           | Cash at Bana      |        | 12,500          |
| Outstanding        |          |                 | Bills receivable  |        | 6,000           |
| Factory rent       | 300      |                 | Debtors           | 60,000 |                 |
| Office rent        | 600      | 900             | Less P.B.D.       | 3,000  | 57,000          |
| Capital            | 75,000   |                 | Closing Stock     |        | 35,000          |
| Add Net Profit     | 1,00,325 |                 | Plant & Machinery | 75,000 |                 |
|                    | 1,75,325 |                 | Less Deprecia     | 7,500  | 67,500          |
| Less Drawings      | 6,000    | 1,69,325        | Furniture         | 7,500  |                 |
|                    |          |                 | Less Deprecia.    | 375    | 7,125           |
|                    |          |                 | Prepaid Insurance |        | 100             |
|                    |          | <b>1,87,225</b> |                   |        | <b>1,87,225</b> |

Existing Rs. 200+ New Rs. 2,800= Rs.3,000.

**Illu.2 : From following Trial Balance, prepare Trading, Profit and Loss account for the year ended 31-12-2006 and the Balance Sheet as on that date:**

| <i>Debit Balances</i>    | <i>Rs.</i> | <i>Credit Balances</i>   | <i>Rs.</i> |
|--------------------------|------------|--------------------------|------------|
| Chandra Sekhar's drawing | 4,500      | Chandra Sekhar's Capital | 24,000     |

|                        |               |                         |               |
|------------------------|---------------|-------------------------|---------------|
| <b>Purchases</b>       | <b>20,000</b> | <b>Sales</b>            | <b>30,500</b> |
| <b>Returns inwards</b> | <b>1,500</b>  | <b>Discounts</b>        | <b>1,900</b>  |
| <b>Opening Stock</b>   | <b>8,000</b>  | <b>Sundry Creditors</b> | <b>10,000</b> |
| <b>Salary</b>          | <b>4,200</b>  | <b>Bills payable</b>    | <b>2,500</b>  |
| <b>Wages</b>           | <b>1,200</b>  |                         |               |
| <b>Rent</b>            | <b>350</b>    |                         |               |
| <b>Bad debts</b>       | <b>400</b>    |                         |               |
| <b>Discounts</b>       | <b>700</b>    |                         |               |
| <b>Sundry debtors</b>  | <b>14,000</b> |                         |               |
| <b>Cash in hand</b>    | <b>260</b>    |                         |               |
| <b>Cash at Bank</b>    | <b>5,940</b>  |                         |               |
| <b>Insurance</b>       | <b>400</b>    |                         |               |
| <b>Trade expenses</b>  | <b>300</b>    |                         |               |
| <b>Printing</b>        | <b>150</b>    |                         |               |
| <b>Furniture</b>       | <b>2,000</b>  |                         |               |
| <b>Machinery</b>       | <b>5,000</b>  |                         |               |
|                        | <b>68,900</b> |                         | <b>68,900</b> |

**Adjustments :**

- a. Closing Stock Rs. 7,000
- b. Insurance pre – paid Rs. 60
- c. Outstanding salary Rs. 200 and wages Rs. 200
- d. Make provision for doubtful debts at 5% on Sundry debtors
- e. Calculate interest on capital at 5% p.a.
- f. Depreciate Machinery at 5% and Furniture at 10%
- g. Reserve for discount on creditors at 1%.

**Solution :**

| Dr.                             |       | Trading and Profit and Loss Account as on 31-12-2006 |                                   |        | Cr.           |  |
|---------------------------------|-------|--|-----------------------------------|--------|---------------|--|
|                                 | Rs.   | Rs.  |                                   | Rs.    | Rs.           |  |
| To Opening Stock                |       | 8,000  | By Sales                          | 30,500 |               |  |
| To Purchases                    |       | 20,000   | Less Returns                      | 1,500  | 29,000        |  |
| To Wages                        | 1,200 |  | By Closing Stock                  |        | 7,000         |  |
| Add Outstanding                 | 200   | 1,400  |                                   |        |               |  |
| To Gross Profit c/d             |       | 6,600  |                                   |        |               |  |
|                                 |       | <b>36,000</b>  |                                   |        | <b>36,000</b> |  |
| To Salary                       | 4,200 |  | By Gross profit b/d               |        | 6,600         |  |
| Add outstanding                 | 200   | 4,400  | By Discounts                      |        | 1,900         |  |
| To Rent                         |       | 350  | By Discount reserve on Creditors  |        | 100           |  |
| To Bad debts                    |       | 400  | By Net loss – transfer to capital |        | 390           |  |
| To Discount                     |       | 700  |                                   |        |               |  |
| To Insurance                    | 400   |  |                                   |        |               |  |
| Less pre-paid                   | 60    | 340  |                                   |        |               |  |
| To Trade expenses               |       | 300  |                                   |        |               |  |
| To Printing                     |       | 150  |                                   |        |               |  |
| To Provision for Doubtful debts |       | 700  |                                   |        |               |  |
| To Interest on Capital          |       | 1,200  |                                   |        |               |  |
| To Depreciation c/d             |       |  |                                   |        |               |  |
| Machinery 5%                    |       | 250  |                                   |        |               |  |
| Furniture 10%                   |       | 200  |                                   |        |               |  |
|                                 |       | <b>8,990</b>   |                                   |        | <b>8,990</b>  |  |

**Balance Sheet as on 31-12-2006**

| <b>Liabilities</b>    |        | <b>Rs.</b>    | <b>Assets</b>     |        | <b>Rs.</b>    |
|-----------------------|--------|---------------|-------------------|--------|---------------|
| Bills payable         |        | 2,500         | Cash in Hand      |        | 260           |
| Sundry Creditors      | 10,000 |               | Cash at bank      |        | 5,940         |
| Less Discount reserve | 100    | 9,900         | Sundry Debtors    | 14,000 |               |
| Outstanding salary    |        | 200           | Less provision    | 700    | 13,300        |
| Wages                 |        | 200           | Closing Stock     |        | 7,000         |
| Capital               | 24,000 |               | Furniture         | 2,000  |               |
| Add Interest          | 1,200  |               | Less Depreciation | 200    | 1,800         |
|                       | 25,200 |               | Machinery         | 5,000  |               |
| Less Net Loss         | 390    |               |                   |        |               |
|                       | 24,810 |               | Less Depreciation | 250    | 4,750         |
| Less Drawings         | 4,500  | 20,310        |                   |        |               |
|                       |        |               | Prepaid Insurance |        | 60            |
|                       |        | <b>33,110</b> |                   |        | <b>33,110</b> |

**Illu.3 : The following Trial Balance is extracted from the books of merchant on 31-12-2006:**

|                                | <b>Rs.</b>   | <b>Rs.</b>    |
|--------------------------------|--------------|---------------|
| <b>Capital</b>                 |              | <b>12,500</b> |
| <b>Furniture</b>               | <b>640</b>   |               |
| <b>Vehicles</b>                | <b>6,250</b> |               |
| <b>Buildings</b>               | <b>7,500</b> |               |
| <b>Bad debts</b>               | <b>125</b>   |               |
| <b>Provision for bad debts</b> |              | <b>200</b>    |
| <b>Debtors and creditors</b>   | <b>3,800</b> | <b>2,500</b>  |

|                            |               |               |
|----------------------------|---------------|---------------|
| <b>Stock on 1-1-2006</b>   | <b>3,460</b>  |               |
| <b>Purchases and sales</b> | <b>5,475</b>  | <b>15,450</b> |
| <b>Bank overdraft</b>      |               | <b>2,850</b>  |
| <b>Returns</b>             | <b>200</b>    | <b>125</b>    |
| <b>Advertising</b>         | <b>568</b>    |               |
| <b>Commission</b>          |               | <b>375</b>    |
| <b>Cash</b>                | <b>650</b>    |               |
| <b>Insurance</b>           | <b>1,250</b>  |               |
| <b>General expenses</b>    | <b>782</b>    |               |
| <b>Salaries</b>            | <b>3,300</b>  |               |
|                            | <b>34,000</b> | <b>34,000</b> |

**Adjustments:**

- Stock on 31-12-2006 was Rs.3,250.
- Depreciate buildings by 5%, Furniture by 10% and Vehicles by 20%.
- Outstanding interest Rs.85, Salaries 300 and taxes Rs.120.
- Prepare insurance is Rs.100.
- 1/3 of the commission received is in respect of work to be done next year.
- Write off further bad debts Rs.100 and provision for bad debts is to be made equal to 5% on debtors.

Prepare final accounts for the year ending 31-12-2006.

**Solution :**

**Trading and Profit & Loss a/c  
for the year ending 31-12-2006**

| Dr.              | Rs.   | Cr.                | Rs.    |
|------------------|-------|--------------------|--------|
| To Opening stock | 3,460 | By Sales           | 15,450 |
| To Purchase      | 5,475 | <b>Less:</b> Sales |        |
|                  |       | Returns            | 200    |
|                  |       |                    | 15,250 |

|                          |       |               |                            |               |
|--------------------------|-------|---------------|----------------------------|---------------|
| <b>Less:</b> Purchase    |       |               | By Closing stock           | 3,250         |
| Returns                  | 125   | 5,350         |                            |               |
| To Gross profit          |       | 9,690         |                            |               |
|                          |       | <b>18,500</b> |                            | <b>18,500</b> |
| To Advertising           |       | 568           | By Gross Profit            | 9,690         |
| To Insurance             | 1,200 |               | By Commission              | 375           |
| <b>Less:</b> prepaid     | 100   | 1,100         | <b>Less:</b> Received      |               |
|                          |       |               | Earlier                    | 125           |
| To General expenses      |       | 782           | By Provision for bad debts |               |
|                          |       |               | (3,800 – 100 = 3,700 x     | 15            |
|                          |       |               | 5/100 = 185 – 200)         |               |
| To Salaries              | 3,300 |               |                            |               |
| <b>Add:</b> Outstanding  | 300   | 3,600         |                            |               |
| To Outstanding interest  |       | 85            |                            |               |
| To Bad debts (100 + 125) |       | 225           |                            |               |
| To Depreciation          |       |               |                            |               |
| Buildings                |       | 375           |                            |               |
| Furniture                |       | 64            |                            |               |
| Vehicles                 |       | 1,250         |                            |               |
| To Net Profit            |       | 1,736         |                            |               |
|                          |       | <b>9,955</b>  |                            | <b>9,955</b>  |

### Balance Sheet as on 31-12-2006

| Liabilities                 | Rs.    | Assets                     | Rs.   |
|-----------------------------|--------|----------------------------|-------|
| Capital                     | 12,500 | <b>Current Assets:</b>     |       |
| <b>Add:</b> Net profit      | 1,736  | Cash                       | 650   |
| <b>Current Liabilities:</b> |        | Debtors                    | 3,800 |
| Bank overdraft              | 2,850  | <b>Less:</b> Bad debts     | 100   |
| Outstanding interest        | 85     |                            | 3,700 |
| Outstanding Salaries        | 300    | <b>Less:</b> Provision for |       |



|                     |               |                           |       |               |
|---------------------|---------------|---------------------------|-------|---------------|
|                     |               | Bad debts                 | 185   | 3,515         |
| Outstanding taxes   | 120           | Prepaid insurance         |       | 100           |
| Creditors           | 2,500         | Closing Stock             |       | 3,250         |
| Commission received | 125           | <b>Fixed Assets:</b>      |       |               |
|                     |               | Furniture                 | 640   |               |
|                     |               | <b>Less: Depreciation</b> | 64    | 576           |
|                     |               | Vehicles                  | 6,250 |               |
|                     |               | <b>Less: Depreciation</b> | 1,250 | 5,000         |
|                     |               | Buildings                 | 7,500 |               |
|                     |               | <b>Less: Depreciation</b> | 375   | 7,125         |
|                     | <b>20,216</b> |                           |       | <b>20,216</b> |

**Illu.4 : From the following Trial Balance of Shri Goyal, prepare Trading and Profit & Loss a/c for the year ending 31<sup>st</sup> December, 2006 and Balance Sheet As on that date:**

**Trial Balance as on 31<sup>st</sup> December, 2006**

| <i>Debit Balance</i>     | <i>Rs.</i>      | <i>Credit Balance</i> | <i>Rs.</i>      |
|--------------------------|-----------------|-----------------------|-----------------|
| Adjusted purchases       | 3,49,600        | Sales                 | 3,70,000        |
| Wages                    | 10,450          | Capital               | 34,250          |
| National insurance       | 150             | Discount received     | 300             |
| Carriage inwards         | 200             | Commission received   | 10,000          |
| Carriage outwards        | 250             | Dividends received    | 150             |
| Lighting                 | 300             |                       |                 |
| Rates and insurance      | 250             |                       |                 |
| Stock at 31-12-06        | 30,625          |                       |                 |
| Cash in Hand and at Bank | 875             |                       |                 |
| Plant and machinery      | 15,000          |                       |                 |
| Discount allowed         | 3,000           |                       |                 |
| Furniture                | 4,000           |                       |                 |
|                          | <b>4,14,700</b> |                       | <b>4,14,700</b> |

**Adjustments:**

- i) Depreciate plant and machinery @ 15% and furniture 10%.
- ii) Goods worth Rs.2, 000 given to his son at cost by Shri Goyal.
- iii) Manager Commission 20% of profit after charging commission.

**Solution :**

**Trading and Profit & Loss a/c of Mr. Goyal**  
For the year ending 31-12-2006

Dr.

Cr.

| <i>Particulars</i>                          | <i>Amount</i> | <i>Rs.</i>      | <i>Particulars</i>     | <i>Amount</i> | <i>Rs.</i>      |
|---|---------------|-----------------|------------------------|---------------|-----------------|
| To Adjusted purchases                       | 3,49,600      |                 | By Sales               |               | 3,70,000        |
| Less: Goods given to son                    | 2,000         | 3,47,600        |                        |               |                 |
| To Wages                                    |               | 10,450          |                        |               |                 |
| To Carriage inwards                         |               | 200             |                        |               |                 |
| To Gross profit<br>(transferred to P&L a/c) |               | 11,750          |                        |               |                 |
|   |               | <b>3,70,000</b> |                        |               | <b>3,70,000</b> |
| To Lighting                                 |               | 300             | By Gross profit        |               | 11,750          |
| To Rates and insurance                      |               | 250             | By Dividends received  |               | 150             |
| To National insurance                       |               | 150             | By Commission received |               | 10,000          |
| To Carriage outwards                        |               | 250             | By Discount received   |               | 300             |
| To Discount allowed                         |               | 3,000           |                        |               |                 |
| To Depreciation on P&M                      |               |                 |                        |               |                 |
| (15,000 X 15 / 100)                         |               | 2,250           |                        |               |                 |
| To Depreciation on Furniture                |               |                 |                        |               |                 |
| (4,000 X 10 / 100)                          |               | 400             |                        |               |                 |
| To Manager's commission                     |               |                 |                        |               |                 |
| (15,600 X 20 / 120)                         |               | 2,600           |                        |               |                 |
| To Net profit transferred to Capital<br>a/c |               | 13,000          |                        |               |                 |

|  |  |               |  |  |               |
|--|--|---------------|--|--|---------------|
|  |  | <b>22,200</b> |  |  | <b>22,200</b> |
|--|--|---------------|--|--|---------------|

**Balance Sheet of Mr. Goyal as on 31-12-2006**

| <i>Liabilities</i>       |        | <i>Amount<br/>Rs.</i> | <i>Assets</i>       |        | <i>Amount<br/>Rs.</i> |
|--------------------------|--------|-----------------------|---------------------|--------|-----------------------|
| Capital                  | 34,250 |                       | Plant and Machinery | 15,000 |                       |
| Add: Net profit          | 13,000 |                       | Less: Depreciation  | 2,250  | 12,750                |
|                          | 47,250 |                       | Furniture           | 4,000  |                       |
| Less: Drawings           | 2,000  | 45,250                | Less: Depreciation  | 400    | 3,600                 |
| O/s Manager's commission |        | 2,600                 | Stock               |        | 30,625                |
|                          |        |                       | Cash in Hand        |        | 875                   |
|                          |        | <b>47,850</b>         |                     |        | <b>47,850</b>         |

**Illu.5 : From the Trial Balance of Aditya as on 31<sup>st</sup> December 2006, prepare a Trading and Profit and Loss a/c for the year ended December 2006 and a Balance Sheet as on that date:**

| <b>Particulars</b>            | <b>Dr. Rs.</b>  | <b>Cr. Rs.</b> |
|-------------------------------|-----------------|----------------|
| <b>Purchases</b>              | <b>1,80,000</b> |                |
| <b>Opening stock</b>          | <b>10,000</b>   |                |
| <b>Salaries</b>               | <b>5,400</b>    |                |
| <b>Bonus to employees</b>     | <b>1,200</b>    |                |
| <b>Rent @ 250 per month</b>   | <b>2,750</b>    |                |
| <b>Machinery</b>              | <b>29,000</b>   |                |
| <b>Wages</b>                  | <b>3,000</b>    |                |
| <b>Furniture and fittings</b> | <b>5,000</b>    |                |
| <b>Electricity</b>            | <b>550</b>      |                |
| <b>Trade expenses</b>         | <b>1,500</b>    |                |
| <b>Debtors</b>                | <b>10,500</b>   |                |
| <b>Interest on loan</b>       | <b>900</b>      |                |

|                   |                 |                 |
|-------------------|-----------------|-----------------|
| <b>Building</b>   | <b>30,000</b>   |                 |
| <b>Commission</b> | <b>200</b>      |                 |
| <b>Sales</b>      |                 | <b>2,05,000</b> |
| <b>Loan @ 10%</b> |                 | <b>10,000</b>   |
| <b>Creditors</b>  |                 | <b>15,000</b>   |
| <b>Capital</b>    |                 | <b>55,000</b>   |
| <b>Drawings</b>   | <b>5,000</b>    |                 |
|                   | <b>2,85,000</b> | <b>2,85,000</b> |

The following adjustments need to be considered:

- (i) Closing Stock on 31<sup>st</sup> December amounted Rs.12,000
- (ii) Purchases include the cost of moped for Rs.5,000
- (iii) Wages include Rs.1,000 paid for erection charge.
- (iv) Sundry Debtors include Rs.500 which had become bad and a provision of 10% need to be maintained on doubtful debts.
- (v) Electricity outstanding Rs.50 and
- (vi) Provide 10% depreciation on Building.

**Solution :**

**Trading and Profit and Loss a/c  
for the year ended 31<sup>st</sup> December, 2006**

| Particulars             | Rs.      | Rs.      | Particulars         | Rs.      |
|-------------------------|----------|----------|---------------------|----------|
| To Opening Stock        |          | 10,000   | By Sales            | 2,05,000 |
| To Purchases            | 1,80,000 |          | By Closing stock    | 12,000   |
| Less : Cost of Moped    | 5,000    | 1,75,000 |                     |          |
| To Wages                | 3,000    |          |                     |          |
| Less : Erection charges | 1,000    | 2,000    |                     |          |
| To Gross Profit c/d     |          | 30,000   |                     |          |
|                         |          | 2,17,000 |                     | 2,17,000 |
| To Salaries             |          | 5,400    | By Gross profit b/d | 30,000   |

|  |       |        |  |        |
|--|-------|--------|--|--------|
| To Bonus to employees                    |       | 1,200  |  |        |
| To Rent                                  | 2,750 |        |  |        |
| Add : outstanding                        | 250   | 3,000  |  |        |
| To Electricity                           | 550   |        |  |        |
| Add : Outstanding                        | 50    | 600    |  |        |
| To Trade expenses                        |       | 1,500  |  |        |
| To Interest on loan                      | 900   |        |  |        |
| Add : Outstanding                        | 100   | 1,000  |  |        |
| To Commission                            |       | 200    |  |        |
| To Bad debts                             |       | 500    |  |        |
| To Provision for bad and doubtful debts  |       | 1,000  |  |        |
| To Depreciation on Building              |       | 3,000  |  |        |
| To Net Profit transferred to capital a/c |       | 12,600 |  |        |
|  |       | 30,000 |  | 30,000 |

**Balance Sheet as on 31<sup>st</sup> December, 2006**

| Liabilities             | Rs.    | Rs.    | Assets                              | Rs.    | Rs.    |
|-------------------------|--------|--------|-------------------------------------|--------|--------|
| Creditors               |        | 15,000 | Debtors                             | 10,500 |        |
| 10% Loan                | 10,000 |        | Less : Bad debts                    | 500    |        |
| Add : Outstanding       | 100    | 10,100 |                                     | 10,000 |        |
| Outstanding rent        |        | 250    | Less : Provision for doubtful debts | 1,000  | 9,000  |
| Outstanding electricity |        | 50     | Closing stock                       |        | 12,000 |
| Capital                 | 55,000 |        | Machinery                           | 29,000 |        |
| Add : Net Profit        | 12,600 |        | Add : Erection charges              | 1,000  | 30,000 |
|                         | 67,600 |        | Furniture & Fittings                |        | 5,000  |

|                 |       |        |                     |        |        |
|-----------------|-------|--------|---------------------|--------|--------|
| Less : Drawings | 5,000 | 62,600 | Buildings           | 30,000 |        |
|                 |       |        | Less : Depreciation | 3,000  | 27,000 |
|                 |       |        | Moped               |        | 5,000  |
|                 |       | 88,000 |                     |        | 88,000 |

**Illu.6 : From the following Trial Balance of Rahul, prepare Trading, profit and Loss Account for the year ending 31<sup>st</sup> March, 2006 and Balance Sheet as on that date.**

|                                      | Debit Rs. | Credit Rs. |
|--------------------------------------|-----------|------------|
| Factory Rent                         | 4,000     |            |
| Bills receivable                     | 5,300     |            |
| Bills payable                        | -         | 4,200      |
| Insurance                            | 1,200     |            |
| Furniture                            | 10,000    |            |
| Machinery                            | 28,000    |            |
| Office Rent                          | 2,000     |            |
| Manufacturing Wages                  | 21,500    |            |
| Provisions for doubtful debts        |           | 1,000      |
| Manufacturing expenses               | 1,500     |            |
| General expenses                     | 5,400     |            |
| Capital                              |           | 60,000     |
| Drawings                             | 7,200     |            |
| Stock on 1 <sup>st</sup> April, 2005 | 20,500    |            |
| Purchases                            | 68,000    |            |
| Carriage inwards                     | 1,500     |            |
| Sales                                |           | 1,40,500   |
| Sundry Debtors                       | 23,500    |            |
| Sundry Creditors                     |           | 14,300     |
| Cash in hand                         | 500       |            |
| Cash at Bank                         | 2,200     |            |

|                          |                 |                 |
|--------------------------|-----------------|-----------------|
| <b>Carriage outwards</b> | <b>1,700</b>    |                 |
| <b>Salaries</b>          | <b>16,000</b>   |                 |
|                          | <b>2.20,000</b> | <b>2,20,000</b> |

**Adjustments :**

- i. Write off bad debts Rs.500 and maintain the provision for doubtful debts at 5% on Sundry debtors.
- ii. Stock on 31<sup>st</sup> March, 2006 Rs.27,000
- iii. Unexpired Insurance Rs.300
- iv. Depreciate Machinery by 5% and furniture by 10%
- v. On 24<sup>th</sup> December, 2004 a fire broke out and destroyed the stock of the value of Rs.10,000 and the insurance company has admitted the claim to the extent of Rs.6,000

**Solution :**

**Trading and Profit and Loss a/c  
for the year ended 31<sup>st</sup> March, 2006**

|                              | Rs.   | Rs.      |   | Rs.      |
|------------------------------|-------|----------|---|----------|
| To Opening stock             |       | 20,500   | By Sales                                  | 1,40,500 |
| To Purchases                 |       | 68,000   | By Loss due to goods<br>destroyed by fire | 10,000   |
| To Manufacturing<br>wages    |       | 21,500   | By Closing stock                          | 27,000   |
| To Manufacturing<br>expenses |       | 1,500    |   |          |
| To Carriage inwards          |       | 1,500    |   |          |
| To Factory rent              |       | 4,000    |   |          |
| To Gross Profit c/d          |       | 60,500   |   |          |
|                              |       | 1,77,500 |   | 1,77,500 |
| To Insurance                 | 1,200 |          | By Gross profit b/d                       | 60,500   |
| Less : Prepaid               | 300   | 900      |   |          |

|  |       |        |  |        |
|--|-------|--------|--|--------|
| To Office rent                           |       | 2,000  |  |        |
| To General expenses                      |       | 5,400  |  |        |
| To Carriage outwards                     |       | 1,700  |  |        |
| To Salaries                              |       | 16,000 |  |        |
| To Bad debts                             |       | 500    |  |        |
| To Provision for doubtful debts          |       | 150    |  |        |
| To Loss of stock destroyed by fire       |       | 4,000  |  |        |
| To Depreciation on                       |       |        |  |        |
| Machinery                                | 1,400 |        |  |        |
| Furniture                                | 1,000 | 2,400  |  |        |
| To Net profit transferred to capital a/c |       | 27,450 |  |        |
|  |       | 60,500 |  | 60,500 |

**Balance Sheet of Rahul as on 31<sup>st</sup> March, 2006**

|                  | Rs.    | Rs.    |                                     | Rs.    | Rs.    |
|------------------|--------|--------|-------------------------------------|--------|--------|
| Sundry Creditors |        | 14,300 | Cash in hand                        |        | 500    |
| Capital          | 60,000 |        | Cash at Bank                        |        | 2,200  |
| Add : Net profit | 27,450 |        | Bills receivable                    |        | 5,300  |
|                  | 87,450 |        | Sundry Debtors                      | 23,500 |        |
| Less : Drawings  | 7,200  | 80,250 | Less : Bad debts                    | 500    |        |
|                  |        |        |                                     | 23,000 |        |
| Bills payable    |        | 4,200  | Less : Provision for doubtful debts | 1,150  | 21,850 |
|                  |        |        | Closing stock                       |        | 27,000 |
|                  |        |        | Insurance claim                     |        | 6,000  |
|                  |        |        | Prepaid insurance                   |        | 300    |



|  |  |        |                     |        |        |
|--|--|--------|---------------------|--------|--------|
|  |  |        | Machinery           | 28,000 |        |
|  |  |        | Less : Depreciation | 1,400  | 26,600 |
|  |  |        | Furniture           | 10,000 |        |
|  |  |        | Less : Depreciation | 1,000  | 9,000  |
|  |  | 98,750 |                     |        | 98,750 |

**Illu.7 : Prepare Trading account, Profit & Loss account and balance Sheet from the following data of M/s. Anil & Co. as on 31<sup>st</sup> March, 2006 :**

| Particulars       | Debit<br>Rs.  | Particulars             | Credit<br>Rs. |
|-------------------|---------------|-------------------------|---------------|
| Drawings          | 5,000         | Capital                 | 40,000        |
| Debtors           | 10,900        | Creditors               | 6,000         |
| Wages             | 6,000         | Sales                   | 40,000        |
| Purchases         | 25,000        | Purchase returns        | 2,000         |
| Rent              | 1,000         | Provision for bad debts | 2,000         |
| Commission        | 2,000         | Interest                | 750           |
| Advertising       | 1,000         |                         |               |
| Bad debts         | 1,100         |                         |               |
| Machinery         | 10,000        |                         |               |
| Furniture         | 10,000        |                         |               |
| Tools             | 5,000         |                         |               |
| Insurance         | 1,000         |                         |               |
| Carriage outwards | 1,000         |                         |               |
| Investment        | 10,000        |                         |               |
| Salary            | 1,750         |                         |               |
|                   | <b>90,750</b> |                         | <b>90,750</b> |

**Additional information:**

- a) Provide 10% depreciation on furniture and 5% depreciation on machinery.
- b) Wages includes Rs.1,000 paid for installation of machinery.

- c) Closing stock Rs.30,000.  
 d) Create 5% provision for doubtful debts.  
 e) Goods given as free samples Rs.500.

**Solution :**

**Trading and Profit & Loss a/c of M/s Anil & Co.  
 for the year ending 31<sup>st</sup> March, 2006**

| Particulars                 | Rs.    | Rs.    | Particulars                                  |       | Rs.    |
|-----------------------------|--------|--------|--|-------|--------|
| To Opening Stock            |        | -      | By Sales                                     |       | 40,000 |
| To Purchases                | 25,000 |        | By Closing stock                             |       | 30,000 |
| Less : returns              | 2,000  | 23,000 | By Advertising                               |       | 500    |
| To Wages                    | 6,000  |        |  |       |        |
| Less : Installation charges | 1,000  | 5,000  |  |       |        |
| To Gross profit c/d         |        | 42,500 |  |       |        |
|                             |        | 70,500 |  |       | 70,500 |
| To Salary                   |        | 1,750  | By Gross profit<br>b/d                       |       | 42,500 |
| To Rent                     |        | 1,000  | By Interest                                  |       | 750    |
| To Commission               |        | 2,000  | By Provision for<br>bad debts                | 2,000 |        |
| To Advertising              | 1,000  |        | Less : 5%<br>Provision for<br>doubtful debts | 545   | 1,455  |
| Add : Free Sample           | 500    | 1,500  |  |       |        |
| To Bad debts                |        | 1,100  |  |       |        |
| To Insurance                |        | 1,000  |  |       |        |
| To Carriage outwards        |        | 1,000  |  |       |        |
| To Depreciation on          |        |        |  |       |        |
| Furniture                   | 1,000  |        |  |       |        |
| Machinery                   | 550    | 1,550  |  |       |        |

|  |  |        |  |  |        |
|--|--|--------|--|--|--------|
| To Net profit (transferred to capital a/c) |  | 33,805 |  |  |        |
|  |  | 44,705 |  |  | 44,705 |

**Balance Sheet of M/s Anil & Co. as on 31-3-2006**

| Liabilities      | Rs.    | Rs.           | Assets                       | Rs.    | Rs.           |
|------------------|--------|---------------|------------------------------|--------|---------------|
| Capital          | 40,000 |               | Debtors                      | 10,900 |               |
| Add : Net profit | 33,805 |               | Less : Reserve for bad debts | 545    | 10,355        |
|                  | 73,805 |               | Machinery                    | 11,000 |               |
| :Less : Drawings | 5,000  | 68,805        | Less : Depreciation          | 550    | 10,450        |
| Creditors        |        | 6,000         | Furniture                    | 10,000 |               |
|                  |        |               | Less : Depreciation          | 1,000  | 9,000         |
|                  |        |               | Tools                        |        | 5,000         |
|                  |        |               | Investments                  |        | 10,000        |
|                  |        |               | Closing stock                |        | 30,000        |
|                  |        | <b>74,805</b> |                              |        | <b>74,805</b> |

**Illu.8 : From the following Trial balance of Mr. Samsan, prepare the final accounts for the year ended 31-3-2006.**

| Debit balances     | Rs.      | Credit balances  | Rs.      |
|--------------------|----------|------------------|----------|
| Land and buildings | 50,000   | Returns          | 2,500    |
| Purchases          | 1,10,000 | Discount         | 1,200    |
| Stock              | 40,000   | Sales            | 2,05,000 |
| Returns            | 1,500    | Capital          | 1,15,000 |
| Wages              | 10,000   | Loan from Vijay  | 15,000   |
| Salaries           | 9,000    | Commission       | 1,500    |
| Office expenses    | 2,400    | Sundry Creditors | 25,000   |
| Carriage           | 1,200    | Bills payable    | 2,350    |

|                          |                 |  |                 |
|--------------------------|-----------------|--|-----------------|
| <b>Carriage outwards</b> | <b>2,000</b>    |  |                 |
| <b>Discount</b>          | <b>750</b>      |  |                 |
| <b>Bad debts</b>         | <b>1,200</b>    |  |                 |
| <b>Insurance</b>         | <b>1,500</b>    |  |                 |
| <b>Machinery</b>         | <b>50,000</b>   |  |                 |
| <b>Furniture</b>         | <b>10,000</b>   |  |                 |
| <b>Bills receivable</b>  | <b>20,000</b>   |  |                 |
| <b>Sundry debtors</b>    | <b>40,000</b>   |  |                 |
| <b>Cash in hand</b>      | <b>1,500</b>    |  |                 |
| <b>Cash at bank</b>      | <b>4,500</b>    |  |                 |
| <b>Office equipment</b>  | <b>12,000</b>   |  |                 |
|                          | <b>3,67,550</b> |  | <b>3,67,550</b> |

**Adjustments :**

- (a) Closing stock Rs.60,000
- (b) Outstanding wages Rs.2,000, rent Rs.3,000
- (c) Depreciation on land and buildings at 5%, machinery at 10%, Office equipment by 10%
- (d) Bad debts reserve 2 1/2% on sundry debtors.
- (e) Prepaid insurance Rs.200
- (f) Provide interest on capital at 5%
- (g) Loan from Vijay was taken on 1-1-2006 at 8% interest.

**Solution :**

**Trading and Profit & Loss a/c of Mr. Samsan  
for the year ending 31-3-2006**

| Particulars      | Rs.      | Rs.      | Particulars      |          | Rs.      |
|------------------|----------|----------|------------------|----------|----------|
| To Opening Stock |          | 40,000   | By Sales         | 2,05,000 |          |
| To Purchases     | 1,10,000 |          | Less : Returns   | 1,500    | 2,03,500 |
| Less : Returns   | 2,500    | 1,07,500 | By Closing stock |          | 60,000   |

|   |        |          |                        |  |          |
|---|--------|----------|------------------------|--|----------|
| To Wages  | 10,000 |          |                        |  |          |
| Add : Outstanding wages                         | 2,000  | 12,000   |                        |  |          |
| To Carriage                                     |        | 1,200    |                        |  |          |
| To Gross profit c/d                             |        | 1,02,800 |                        |  |          |
|   |        | 2,63,500 |                        |  | 2,63,500 |
| To Salaries                                     |        | 9,000    | By Gross Profit<br>b/d |  | 1,02,800 |
| To Office expenses                              |        | 2,400    | By Discount            |  | 1,200    |
| To Carriage outwards                            |        | 2,000    | By Commission          |  | 1,500    |
| To Discount                                     |        | 750      |                        |  |          |
| To Bad debts                                    |        | 1,200    |                        |  |          |
| To Insurance                                    | 1,500  |          |                        |  |          |
| Less : Prepaid insurance                        | 200    | 1,300    |                        |  |          |
| To Depreciation on                              |        |          |                        |  |          |
| Land and buildings                              |        | 2,500    |                        |  |          |
| Machinery                                       |        | 5,000    |                        |  |          |
| Office equipment                                |        | 1,200    |                        |  |          |
| To reserve for bad debts                        |        | 1,000    |                        |  |          |
| To Outstanding rent                             |        | 3,000    |                        |  |          |
| To Interest on capital                          |        | 5,750    |                        |  |          |
| To Interest on Vijay loan<br>(for 3 months)     |        | 300      |                        |  |          |
| To Net profit (transferred<br>to balance sheet) |        | 70,100   |                        |  |          |
|   |        | 1,05,500 |                        |  | 1,05,500 |

**Balance Sheet of Mr. Samsan as on 31-3-2006**

| <b>Liabilities</b> | <b>Rs.</b> | <b>Rs.</b> | <b>Assets</b>       | <b>Rs.</b> | <b>Rs.</b> |
|--------------------|------------|------------|---------------------|------------|------------|
| Capital            | 1,15,000   |            | Land and Buildings  | 50,000     |            |
| Add : Interest     | 5,750      |            | Less : Depreciation | 2,500      | 47,500     |

|                            |        |          |                              |        |          |
|----------------------------|--------|----------|------------------------------|--------|----------|
| Add : Net profit           | 70,100 | 1,90,850 | Machinery                    | 50,000 |          |
| Loan from Vijay            | 15,000 |          | Less : Depreciation          | 5,000  | 45,000   |
| Add : Outstanding interest | 300    | 15,300   | Furniture                    |        | 10,000   |
| Sundry Creditors           |        | 25,000   | Bills receivable             |        | 20,000   |
| Bills payable              |        | 2,350    | Sundry debtors               | 40,000 |          |
| Outstanding wages          |        | 2,000    | Less : Reserve for bad debts | 1,000  | 39,000   |
| Outstanding rent           |        | 3,000    | Cash in hand                 |        | 1,500    |
|                            |        |          | Cash at bank                 |        | 4,500    |
|                            |        |          | Office equipment             | 12,000 |          |
|                            |        |          | Less : Depreciation          | 1,200  | 10,800   |
|                            |        |          | Closing stock                |        | 60,000   |
|                            |        |          | Prepaid Insurance            |        | 200      |
|                            |        | 2,38,500 |                              |        | 2,38,500 |

**Illu.9 : Prepare Trading and profit and Loss account and Balance Sheet of Rajesh as on 31-3-2006 from the following Trial balance and adjoining information:**

|  | Rs.             | Rs.             |
|--|-----------------|-----------------|
| <b>Cash in hand</b>                        | <b>540</b>      |                 |
| <b>Cash at Bank</b>                        | <b>12,630</b>   |                 |
| <b>Purchases</b>                           | <b>1,40,675</b> |                 |
| <b>Sales</b>                               |                 | <b>2,58,780</b> |
| <b>Returns</b>                             | <b>2,680</b>    | <b>1,500</b>    |
| <b>Wages</b>                               | <b>20,480</b>   |                 |
| <b>Fuel and power</b>                      | <b>4,730</b>    |                 |
| <b>Carriage on sales</b>                   | <b>3,200</b>    |                 |
| <b>Carriage on purchase</b>                | <b>2,040</b>    |                 |
| <b>Stock (1<sup>st</sup> April, 2005 )</b> | <b>25,760</b>   |                 |
| <b>Buildings</b>                           | <b>50,000</b>   |                 |

|                                     |                 |                 |
|-------------------------------------|-----------------|-----------------|
| <b>Machinery</b>                    | <b>20,000</b>   |                 |
| <b>Patents</b>                      | <b>7,500</b>    |                 |
| <b>Salaries</b>                     | <b>15,000</b>   |                 |
| <b>General expenses</b>             | <b>13,000</b>   |                 |
| <b>Insurance</b>                    | <b>600</b>      |                 |
| <b>Drawings</b>                     | <b>15,245</b>   |                 |
| <b>Capital</b>                      |                 | <b>82,000</b>   |
| <b>Sundry debtors and creditors</b> | <b>14,500</b>   | <b>6,300</b>    |
|                                     | <b>3,48,580</b> | <b>3,48,580</b> |

**Additional Information:**

- (a) Stock on hand on 31-3-2006 was Rs.26,800.
- (b) Machinery is to be depreciated @ 10% and patents @ 20%
- (c) Salaries amounting to Rs.1,500 stand unpaid.
- (d) Prepaid insurance Rs.170.
- (e) A provision of bad and doubtful debts be created to the extent of 5% on debtors.

**Solution :**

**Trading, Profit & Loss a/c of Mr. Ganguli  
for the year ending 31-3-2006**

| Particulars         | Rs.      | Rs.      | Particulars      | Rs.      | Rs.      |
|---------------------|----------|----------|------------------|----------|----------|
| To Opening Stock    |          | 25,760   | By Sales         | 2,58,780 |          |
| To Purchases        | 1,40,675 |          | Less : Returns   | 2,680    | 2,56,100 |
| Less : Returns      | 1,500    | 1,39,175 | By Closing stock |          | 26,800   |
| To Wages            |          | 20,480   |                  |          |          |
| To Fuel and power   |          | 4,730    |                  |          |          |
| To Carriage inward  |          | 2,040    |                  |          |          |
| To Gross profit c/d |          | 90,715   |                  |          |          |
|                     |          | 2,82,900 |                  |          | 2,82,900 |
| To Salaries         | 15,000   |          | By Gross profit  |          | 90,715   |

|  |       |        |     |  |        |
|--|-------|--------|-----|--|--------|
|  |       |        | b/d |  |        |
| Add : Outstanding                            | 1,500 | 16,500 |     |  |        |
| To Carriage on sales                         |       | 3,200  |     |  |        |
| To General expenses                          |       | 13,000 |     |  |        |
| To Insurance                                 | 600   |        |     |  |        |
| Less : Prepaid                               | 170   | 430    |     |  |        |
| To Depreciation :                            |       |        |     |  |        |
| Machinery                                    |       | 2,000  |     |  |        |
| Patents                                      |       | 1,500  |     |  |        |
| To Provision for bad debts                   |       | 725    |     |  |        |
| To Net profit (transferred to Balance Sheet) |       | 53,360 |     |  |        |
|  |       | 90,715 |     |  | 90,715 |

**Balance Sheet of Mr. Ganguli as on 31-3-2006**

| Liabilities          | Rs.      | Rs.      | Assets              | Rs.    | Rs.      |
|----------------------|----------|----------|---------------------|--------|----------|
| Creditors            |          | 6,300    | Cash in hand        |        | 540      |
| Outstanding salaries |          | 1,500    | Cash at bank        |        | 12,630   |
| Capital              | 82,000   |          | Closing stock       |        | 26,800   |
| Add : Net profit     | 53,360   |          | Debtors             | 14,500 |          |
|                      | 1,35,360 |          | Less : Provision    | 725    | 13,775   |
| Less : Drawings      | 15,245   | 1,20,115 | Prepaid insurance   |        | 170      |
|                      |          |          | Buildings           |        | 50,000   |
|                      |          |          | Machinery           | 20,000 |          |
|                      |          |          | Less : Depreciation | 2,000  | 18,000   |
|                      |          |          | Patents             | 7,500  |          |
|                      |          |          | Less : Depreciation | 1,500  | 6,000    |
|                      |          | 1,27,915 |                     |        | 1,27,915 |



**Illu.10 : From the following Trial balance of Venkata Krishna as at 31<sup>st</sup> March, 2004. Prepare trading and profit and loss account for the year ended 31<sup>st</sup> March, 2004 and a Balance Sheet as on that date.**

| Debit balances          | Rs.      | Credit balances     | Rs.      |
|-------------------------|----------|---------------------|----------|
| Stock                   | 45,000   | Capital             | 75,000   |
| Plant and Machinery     | 75,000   | Sales               | 4,20,750 |
| Purchases               | 2,25,000 | Sundry Creditors    | 15,000   |
| Trade charges           | 10,000   | Bad debts provision | 200      |
| Carriage inwards        | 2,500    | Bills payable       | 2,000    |
| Carriage outwards       | 1,500    |                     |          |
| Factory rent            | 1,500    |                     |          |
| Discount                | 350      |                     |          |
| Insurance               | 700      |                     |          |
| Sundry debtors          | 60,000   |                     |          |
| Office rent             | 3,000    |                     |          |
| Printing and Stationery | 600      |                     |          |
| General expenses        | 2,800    |                     |          |
| Advertising             | 15,000   |                     |          |
| Bills receivable        | 6,000    |                     |          |
| Drawings                | 6,000    |                     |          |
| Salaries                | 15,000   |                     |          |
| Wages                   | 20,000   |                     |          |
| Furniture               | 7,500    |                     |          |
| Coal and Gas            | 1,000    |                     |          |
| Cash in hand            | 2,000    |                     |          |
| Cash at bank            | 12,500   |                     |          |
|                         | 5,12,950 |                     | 5,12,950 |

**Adjustments :**

1. Closing stock amounted to Rs.35,000

2. Depreciate machinery 10% and furniture by 2%
3. Raise the bad debts provision to 5% on debtors
4. Outstanding factory rent Rs.300 and office rent Rs.600
5. Insurance prepaid Rs.100

### Solution :

#### Trading and Profit & Loss account of Venkata Krishna Reddy for the year ending 31-3-2004

| Particulars              | Rs.   | Rs.      | Particulars         | Rs.      |
|--------------------------|-------|----------|---------------------|----------|
| To Opening stock         |       | 45,000   | By Sales            | 4,20,750 |
| To Purchases             |       | 2,25,000 | By Closing stock    | 35,000   |
| To Wages                 |       | 20,000   |                     |          |
| To Coal and Gas          |       | 1,000    |                     |          |
| To Carriage inwards      |       | 2,500    |                     |          |
| To Factory rent          | 1,500 |          |                     |          |
| Add : Outstanding        | 300   | 1,800    |                     |          |
| To Gross profit c/d      |       | 1,60,450 |                     |          |
|                          |       | 4,55,750 |                     | 4,55,750 |
| To Salaries              |       | 15,000   | By Gross profit b/d | 1,60,450 |
| To Advertising           |       | 15,000   |                     |          |
| To General expenses      |       | 2,800    |                     |          |
| To Printing & Stationery |       | 600      |                     |          |
| To Office rent           | 3,000 |          |                     |          |
| Add : Outstanding        | 600   | 3,600    |                     |          |
| To Insurance             | 700   |          |                     |          |
| Less : Prepaid           | 100   | 600      |                     |          |
| To Discount              |       | 350      |                     |          |
| To Carriage outwards     |       | 1,500    |                     |          |
| To Trading expenses      |       | 10,000   |                     |          |
| To Depreciation          |       |          |                     |          |

|  |       |          |  |          |
|--|-------|----------|--|----------|
| Machinery                                    | 7,500 |          |  |          |
| Furniture                                    | 375   | 7,875    |  |          |
| To Provision for bad debts                   |       | 2,800    |  |          |
| To Net profit (transferred to balance sheet) |       | 1,00,325 |  |          |
|  |       | 1,60,450 |  | 1,60,450 |

**Balance Sheet of Venkata Krishna as on 31-3-2004**

| Liabilities              | Rs.      | Rs.      | Assets                                  | Rs.    | Rs.      |
|--------------------------|----------|----------|---|--------|----------|
| Sundry Creditors         |          | 15,000   | Cash in hand                            |        | 2,000    |
| Bills payable            |          | 2,000    | Cash at bank                            |        | 12,500   |
| Outstanding factory rent |          | 300      | Bills receivable                        |        | 6,000    |
| Outstanding office rent  |          | 600      | Debtors                                 | 60,000 |          |
| Capital                  | 75,000   |          | Less : Reserve for bad & doubtful debts | 3,000  | 57,000   |
| Add : Net Profit         | 1,00,325 |          | Closing stock                           |        | 35,000   |
|                          | 1,75,325 |          | Plant & Machinery                       | 75,000 |          |
| Less : Drawings          | 6,000    | 1,69,325 | Less : Depreciation                     | 7,500  | 67,500   |
|                          |          |          | Furniture                               | 7,500  |          |
|                          |          |          | Less : Depreciation                     | 375    | 7,125    |
|                          |          |          | Prepaid insurance                       |        | 100      |
|                          |          | 1,87,225 |   |        | 1,87,225 |

**Illu.11 : Prepare Trading and Profit and Loss account and a Balance Sheet of Shyam Sundar as on 31-12-2005 from the following Trial Balance and Adjustments:**

|                                | Dr. Rs.         | Cr. Rs.         |
|--------------------------------|-----------------|-----------------|
| <b>Shyam Sundar 's capital</b> |                 | <b>93,230</b>   |
| <b>Sales</b>                   |                 | <b>1,26,177</b> |
| <b>Sundry creditors</b>        |                 | <b>22,680</b>   |
| <b>Purchase returns</b>        |                 | <b>3,172</b>    |
| <b>Bills payable</b>           |                 | <b>6,422</b>    |
| <b>Plant and Machinery</b>     | <b>55,000</b>   |                 |
| <b>Fixtures and fittings</b>   | <b>1,720</b>    |                 |
| <b>Factory fuel and power</b>  | <b>542</b>      |                 |
| <b>Office Salaries</b>         | <b>3,745</b>    |                 |
| <b>Lighting (Factory)</b>      | <b>392</b>      |                 |
| <b>Travelling expenses</b>     | <b>925</b>      |                 |
| <b>Carriage on sales</b>       | <b>960</b>      |                 |
| <b>Cash at bank</b>            | <b>2,245</b>    |                 |
| <b>Cash in hand</b>            | <b>68</b>       |                 |
| <b>Sundry debtors</b>          | <b>47,800</b>   |                 |
| <b>Purchases</b>               | <b>83,290</b>   |                 |
| <b>Manufacturing wages</b>     | <b>9,915</b>    |                 |
| <b>Rents and taxes</b>         | <b>1,765</b>    |                 |
| <b>Office expenses</b>         | <b>2,778</b>    |                 |
| <b>Carriage on purchases</b>   | <b>897</b>      |                 |
| <b>Discount</b>                | <b>422</b>      |                 |
| <b>Drawings account</b>        | <b>6,820</b>    |                 |
| <b>Stock on 1-4-2004</b>       | <b>21,725</b>   |                 |
| <b>Manufacturing expenses</b>  | <b>2,680</b>    |                 |
| <b>Sales returns</b>           | <b>7,422</b>    |                 |
| <b>Insurance</b>               | <b>570</b>      |                 |
|                                | <b>2,51,681</b> | <b>2,51,681</b> |

**Adjustments:**

- (a) Depreciation – 5% of Plant and Machinery and 10% fixtures and fittings.

- (b) Reserve bad debts 2 ½% on sundry debtors  
 (c) Outstanding rent Rs.150  
 (d) Insurance unexpired on 31<sup>st</sup> March Rs.70  
 (e) Outstanding wages and salaries Rs.800 and Rs.350 respectively.  
 (f) Stock 31<sup>st</sup> March 2005 Rs.16, 580.

**Solution :**

**Trading, Profit and Loss Account of Shyam Sundar**

**Dr. For the year ending 31-3-2005 Cr.**

|                           |        | Rs.             |                      |          | Rs.             |
|---------------------------|--------|-----------------|----------------------|----------|-----------------|
| To Opening stock          |        | 21,725          | By Sales             | 1,26,177 |                 |
| To Purchases              | 83,290 |                 | <b>Less:</b> Returns | 7,422    | 1,18,755        |
| <b>Less:</b> Returns      | 3,172  | 80,118          | By Closing Stock     |          | 16,580          |
| To Lighting (Factory)     |        | 392             |                      |          |                 |
| To Factory fuel & Power   |        | 542             |                      |          |                 |
| To Manufacturing wages    | 9,915  |                 |                      |          |                 |
| <b>Add : Outstanding</b>  | 800    | 10,715          |                      |          |                 |
| To Carriage on purchases  |        | 897             |                      |          |                 |
| To Manufacturing expenses |        | 2,680           |                      |          |                 |
| To Gross profit c/d       |        | 18,266          |                      |          |                 |
|                           |        | <b>1,35,335</b> |                      |          | <b>1,35,335</b> |
| To Salaries               | 3,745  |                 | By Gross profit b/d  | 18,266   |                 |
| <b>Add : Outstanding</b>  | 350    | 4,095           |                      |          |                 |
| To Travelling expenses    |        | 925             |                      |          |                 |
| To Carriage on sale       |        | 960             |                      |          |                 |
| To Office expenses        |        | 2,778           |                      |          |                 |

|  |       |               |  |  |               |
|--|-------|---------------|--|--|---------------|
| To Discount                                |       | 422           |  |  |               |
| To Depreciation                            |       |               |  |  |               |
| Plant                                      | 2,750 |               |  |  |               |
| Fixtures                                   | 172   | 2,922         |  |  |               |
| To Reserve for bad debts                   |       | 1,195         |  |  |               |
| To Rent and Taxes                          | 1,765 |               |  |  |               |
| <b>Add : Outstanding rent</b>              | 150   | 1,915         |  |  |               |
| To Insurance                               | 570   |               |  |  |               |
| <b>Less: unexpired</b>                     | 70    | 500           |  |  |               |
| To Net profit transferred to Balance Sheet |       | 2,554         |  |  |               |
|  |       | <b>18,266</b> |  |  | <b>18,266</b> |

### Balance Sheet of Shyam Sundar as on 31-3-2005

| Liabilities            | Rs.           | Rs.             | Assets                    | Rs.    | Rs.             |
|------------------------|---------------|-----------------|---------------------------|--------|-----------------|
| Sundry creditors       |               | 22,680          | Cash in Hand              |        | 68              |
| Bills Payable          |               | 6,422           | Cash at Bank              |        | 2,245           |
| Outstanding rent       |               | 150             | Debtors                   | 47,800 |                 |
| Outstanding wages      |               | 800             | <b>Less : R. B. D.</b>    | 1,195  | 46,605          |
| Outstanding salaries   |               | 350             | Closing stock             |        | 16,580          |
| Capital                | 93,230        |                 | Unexpired Insurance       |        | 70              |
| <b>Add: Net profit</b> | 2,554         |                 | Fixtures and Fittings     | 1,720  |                 |
|                        | <b>95,784</b> |                 | <b>Less: Depreciation</b> | 172    | 1,548           |
| <b>Less: Drawings</b>  | 6,820         | 88,964          | Plant and Machinery       | 55,000 |                 |
|                        |               |                 | <b>Less: Depreciation</b> | 2,750  | 52,250          |
|                        |               | <b>1,19,366</b> |                           |        | <b>1,19,366</b> |

**Illu.12 : Prepare Trading and Profit and Loss a/c and a Balance Sheet as on 31.3.2005 from the following Trial Balance :**

| <b>Debit</b>          | <b>Rs.</b> | <b>Credit</b> | <b>Rs.</b> |
|-----------------------|------------|---------------|------------|
| Salaries              | 6,000      | Capital       | 25,000     |
| Purchases             | 26,000     | Sales         | 47,000     |
| Trade expenses        | 1,000      | Discount      | 200        |
| Wages                 | 7,800      | Creditors     | 21,000     |
| Carriage on purchases | 400        | Bills payable | 6,800      |
| Office expenses       | 500        |               |            |
| Commission            | 600        |               |            |
| Bad debts             | 1,200      |               |            |
| Debtors               | 30,000     |               |            |
| Furniture             | 3,000      |               |            |
| Machinery             | 10,000     |               |            |
| Bills receivable      | 2,000      |               |            |
| Insurance             | 400        |               |            |
| Opening stock         | 7,000      |               |            |
| Cash in hand          | 500        |               |            |
| Cash at bank          | 3,600      |               |            |
|                       | 1,00,000   |               | 1,00,000   |

**Adjustments :**

- (a) Closing stock Rs.11,000
- (b) Outstanding wages Rs.2,000
- (c) Prepaid insurance Rs.50
- (d) Provide for reserve on doubtful debts 5% on debtors.
- (e) Depreciate machinery and furniture @ 5%.

**Solution :**

**Trading, Profit and Loss Account  
for the year ending 31-3-2005**

Dr.

Cr.

|   | Rs.           |                     | Rs.           |
|---|---------------|---------------------|---------------|
| To Opening stock                              | 7,000         | By Sales            | 47,000        |
| To Purchases                                  | 26,000        | By Closing stock    | 11,000        |
| To Wages                   7,800              |               |                     |               |
| <b>Add:</b> Outstanding       2,000           | 9,800         |                     |               |
| To Carriage on Purchases                      | 400           |                     |               |
| To Gross profit c/d                           | 14,800        |                     |               |
|   | <b>58,000</b> |                     | <b>58,000</b> |
| To Salaries                                   | 6,000         | By Gross profit b/d | 14,800        |
| To Trade Expenses                             | 1,000         | By Discount         | 200           |
| To Office expenses                            | 500           |                     |               |
| To Commission                                 | 600           |                     |               |
| To Bad debts                                  | 1,200         |                     |               |
| To Insurance           400                    |               |                     |               |
| <b>Less :</b> Prepaid           50            | 350           |                     |               |
| To Depreciation                               |               |                     |               |
| Machinery           500                       |               |                     |               |
| Furniture            150                      | 650           |                     |               |
| To Reserve for doubtful debts                 | 1,500         |                     |               |
| To Net profit transferred to<br>Balance sheet | 3,200         |                     |               |
|   | <b>15,000</b> |                     | <b>15,000</b> |

**Balance Sheet of as on 31-3-2005**

| Liabilities   | Rs.   | Assets       | Rs. |
|---------------|-------|--------------|-----|
| Bills payable | 6,800 | Cash in hand | 500 |



|                         |               |                           |               |
|-------------------------|---------------|---------------------------|---------------|
| Creditors               | 21,000        | Cash at Bank              | 3,600         |
| Outstanding wages       | 2,000         | Bills receivable          | 2,000         |
| Capital                 | 25,000        | Debtors                   | 30,000        |
| <b>Add : Net profit</b> | 3,200         | <b>Less: Reserve</b>      | 1,500         |
|                         | 28,200        |                           | 28,500        |
|                         |               | Prepaid Insurance         | 50            |
|                         |               | Closing stock             | 11,000        |
|                         |               | Machinery                 | 10,000        |
|                         |               | <b>Less: Depreciation</b> | 500           |
|                         |               |                           | 9,500         |
|                         |               | Furniture                 | 3,000         |
|                         |               | <b>Less: Depreciation</b> | 150           |
|                         |               |                           | 2,850         |
|                         | <b>58,000</b> |                           | <b>58,000</b> |

**Illu.13 : From the following Trial Balance of Lakshmi Narayana on 30<sup>th</sup> June 2004 prepare Trading and Profit and Loss Account and Balance Sheet as on that date.**

|   | Dr. Rs.         | Cr. Rs.         |
|---|-----------------|-----------------|
| <b>Capital and drawings</b>   | <b>10,550</b>   | <b>1,19,400</b> |
| <b>Bills receivable</b>   | <b>9,500</b>    |                 |
| <b>Purchases and Sales</b>  | <b>2,56,590</b> | <b>3,56,430</b> |
| <b>Returns inwards</b>  | <b>2,780</b>    |                 |
| <b>Opening stock</b>  | <b>89,680</b>   |                 |
| <b>Commission</b>   |                 | <b>5,640</b>    |
| <b>Plant and Machinery</b>  | <b>28,800</b>   |                 |
| <b>Salaries</b>   | <b>11,000</b>   |                 |
| <b>Travelling Expenses</b>  | <b>1,880</b>    |                 |
| <b>Debtors (including Mohan for dishonoured cheque of Rs.1,000)</b> | <b>62,000</b>   |                 |
| <b>Stationery</b>   | <b>2,000</b>    |                 |
| <b>Telephone charges</b>  | <b>1,370</b>    |                 |
| <b>Interest and Discounts</b>                                       | <b>5,870</b>    |                 |

|  |                 |                 |
|--|-----------------|-----------------|
| <b>Bad debts</b>   | <b>3,620</b>    |                 |
| <b>Fixture and Fittings</b>  | <b>8,970</b>    |                 |
| <b>Creditors</b>   |                 | <b>56,630</b>   |
| <b>6% Loan</b>   |                 | <b>23,000</b>   |
| <b>Wages</b>   | <b>40,970</b>   |                 |
| <b>Cash in hand</b>  | <b>530</b>      |                 |
| <b>Cash at Bank</b>  | <b>18,970</b>   |                 |
| <b>Insurance (including premium of Rs.300 p. a. paid up to 31<sup>st</sup> December)</b> | <b>400</b>      |                 |
| <b>Rent and taxes</b>  | <b>5,620</b>    |                 |
|  | <b>5,61,100</b> | <b>5,61,100</b> |

**Adjustments:**

- (a) Stock in trade on 30<sup>th</sup> June 2004 was Rs.1,28,960.
- (b) Write off half of Mohan 's cheque
- (c) Create provision of 5% on Debtors
- (d) Manufacturing wages include Rs.1,200 for erection of machinery purchased last year.
- (e) Depreciate Plant and Machinery by 5% and Fixture and Fittings by 10% per year.
- (f) Commission accrued Rs.600
- (g) Interest on loan for the last two months is not paid.

**Solution :**

**Trading Profit and Loss account of Lakshmi Narayana**  
for the year ending 30-6-2004

Dr.

Cr.

| Particulars                         | Rs.    | Rs.      | Particulars          | Rs.      | Rs.      |
|-------------------------------------|--------|----------|----------------------|----------|----------|
| To Opening stock                    |        | 89,680   | By Sales             | 3,56,430 |          |
| To Purchases                        |        | 2,56,590 | <b>Less:</b> Returns | 2,780    | 3,53,650 |
| To Wages                            | 40,970 |          | By Closing stock     |          | 1,28,960 |
| <b>Less:</b> Machine erection wages | 1,200  | 39,770   |                      |          |          |
| To Gross Profit c/d                 |        | 96,570   |                      |          |          |

|   |       |                 |                                   |       |                 |
|---|-------|-----------------|-----------------------------------|-------|-----------------|
|   |       | <b>4,82,610</b> |                                   |       | <b>4,82,610</b> |
| To Salaries                                 |       | 11,000          | By Gross profit                   |       | 96,570          |
| To Trading expenses                         |       | 1,880           | By Commission                     | 5,640 |                 |
| To Stationery                               |       | 2,000           | <b>Add:</b> Accrued<br>commission | 600   | 6,240           |
| To Telephone charges                        |       | 1,370           |                                   |       |                 |
| To Interest and Discount                    | 5,870 |                 |                                   |       |                 |
| <b>Add:</b> Outstanding<br>interest on loan | 230   | 6,100           |                                   |       |                 |
| To insurance                                | 400   |                 |                                   |       |                 |
| <b>Less:</b> Unexpired                      | 150   | 250             |                                   |       |                 |
| To Rent and taxes                           |       | 5,620           |                                   |       |                 |
| To Bad debts                                |       | 4,120           |                                   |       |                 |
| To Depreciation :                           |       |                 |                                   |       |                 |
| Machinery                                   | 1,500 |                 |                                   |       |                 |
| Fixtures & Fittings                         | 897   | 2,397           |                                   |       |                 |
| To Provision for bad<br>debts               |       | 3,075           |                                   |       |                 |
| To Net profit transferred<br>to capital a/c |       | 64,998          |                                   |       |                 |
|   |       | <b>1,02,810</b> |                                   |       | <b>1,02,810</b> |

**Balance Sheet of Lakshmi Narayana as on 30-6-2004**

| <b>Liabilities</b>     |                 | <b>Rs.</b> | <b>Assets</b>              |               | <b>Rs.</b> |
|------------------------|-----------------|------------|----------------------------|---------------|------------|
| Creditors              |                 | 56,630     | Cash in hand               |               | 530        |
| 6% loan                | 23,000          |            | Cash at bank               |               | 18,970     |
| <b>Add:</b> Interest   | 230             | 23,230     | Bills receivable           |               | 9,500      |
| Capital                | 1,19,400        |            | Debtors                    | 62,000        |            |
| <b>Add:</b> Net profit | 64,998          |            | <b>Less:</b> Bad debts     | 500           |            |
|                        | <b>1,84,398</b> |            |                            | <b>61,500</b> |            |
| <b>Less:</b> Drawings  | 10,550          | 1,73,848   | <b>Less:</b> Provision for |               |            |

|  |  |                 |                              |               |                 |
|--|--|-----------------|------------------------------|---------------|-----------------|
|  |  |                 | Bad debts                    | 3,075         | 58,425          |
|  |  |                 | Closing stock                |               | 1,28,960        |
|  |  |                 | Commission accrued           |               | 600             |
|  |  |                 | Unexpired insurance          |               | 150             |
|  |  |                 | Plant and Machinery          | 28,800        |                 |
|  |  |                 | <b>Add:</b> Erection charges | 1,200         |                 |
|  |  |                 |                              | <b>30,000</b> |                 |
|  |  |                 | <b>Less:</b> Depreciation    | 1,500         | 28,500          |
|  |  |                 | Fixtures & Fittings          | 8,970         |                 |
|  |  |                 | <b>Less:</b> Depreciation    | 897           | 8,073           |
|  |  | <b>2,53,708</b> |                              |               | <b>2,53,708</b> |

**Illu.14 :** The following Trial Balance has been taken from the books of Mr. Aravind as on 31<sup>st</sup> December 2000. You are required to prepare the Trading and profit and loss account for the year ended 31-12-2000 and the Balance Sheet as on that date.

| <i>Debit balances</i> | Rs.    | <i>Credit Balances</i> | Rs.    |
|-----------------------|--------|------------------------|--------|
| Cash in hand          | 540    | Sales                  | 98,780 |
| Cash at Bank          | 2,630  | Return outwards        | 500    |
| Purchases             | 40,675 | Capital                | 62,000 |
| Return inwards        | 680    | Sundry creditors       | 6,300  |
| Wages                 | 8,480  | Rent                   | 9,000  |
| Fuel                  | 4,730  |                        |        |
| Carriage on purchases | 2,040  |                        |        |
| Carriage on sales     | 3,200  |                        |        |
| Stock (1.1.2000)      | 5,760  |                        |        |
| Buildings             | 32,000 |                        |        |
| Land                  | 10,000 |                        |        |
| Machinery             | 20,000 |                        |        |

|                         |                 |  |                 |
|-------------------------|-----------------|--|-----------------|
| <b>Patents</b>          | <b>7,500</b>    |  |                 |
| <b>Salaries</b>         | <b>15,000</b>   |  |                 |
| <b>General expenses</b> | <b>3,000</b>    |  |                 |
| <b>Insurance</b>        | <b>600</b>      |  |                 |
| <b>Drawings</b>         | <b>5,745</b>    |  |                 |
| <b>Sundry debtors</b>   | <b>14,000</b>   |  |                 |
|                         | <b>1,76,580</b> |  | <b>1,76,580</b> |

**Adjustments :**

- (a) Stock on hand on 31.12.2000, Rs.6,800
- (b) Machinery is to be depreciated at the rate of 10% and patents at the rate of 20%.
- (c) Outstanding salaries Rs.1,500
- (d) Prepaid insurance Rs.170.
- (e) Rent receivable Rs.1,000
- (f) Bad debts Rs.725.

**Solution :**

**Trading Profit & Loss a/c of Mr. Aravind**  
for the year ended 31-12-2000

Dr.

Cr.

|                          | Rs.    | Rs.             |                        | Rs.    | Rs.             |
|--------------------------|--------|-----------------|------------------------|--------|-----------------|
| To Opening stock         |        | 5,760           | By Sales               | 98,780 |                 |
| To Purchases             | 40,675 |                 | <b>Less: Returns</b>   | 680    | 98,100          |
| <b>Less: Returns</b>     | 500    | 40,175          | By Closing stock       |        | 6,800           |
| To wages                 |        | 8,480           |                        |        |                 |
| To Fuel                  |        | 4,730           |                        |        |                 |
| To Carriage in purchases |        | 2,040           |                        |        |                 |
| To Gross Profit c/d      |        | 43,715          |                        |        |                 |
|                          |        | <b>1,04,900</b> |                        |        | <b>1,04,900</b> |
| To Salary                | 15,000 |                 | By Gross profit c/d    |        | 43,715          |
| <b>Add: Outstanding</b>  | 1,500  | 16,500          | By Rent                | 9,000  |                 |
| To Carriage on sales     |        | 3,200           | <b>Add: Receivable</b> | 1,000  | 10,000          |

|                              |       |               |  |  |               |
|------------------------------|-------|---------------|--|--|---------------|
| To General expenses          |       | 3,000         |  |  |               |
| To Bad debts                 |       | 725           |  |  |               |
| To Insurance                 | 600   |               |  |  |               |
| To prepaid                   | 170   | 430           |  |  |               |
| To depreciation on Machinery | 2,000 |               |  |  |               |
| To Patents                   | 1,500 | 3,500         |  |  |               |
| To Net Profit                |       | 26,360        |  |  |               |
|                              |       | <b>53,715</b> |  |  | <b>53,715</b> |

**Balance Sheet of Mr. Aravind as on 31<sup>st</sup> December, 2000**

| <b>Liabilities</b>     | <b>Rs.</b>    | <b>Rs.</b>    | <b>Assets</b>          | <b>Rs.</b> | <b>Rs.</b>    |
|------------------------|---------------|---------------|------------------------|------------|---------------|
| Capital                | 62,000        |               | Land                   |            | 10,000        |
| <b>Add:</b> Net Profit | 26,360        |               | Building               |            | 32,000        |
|                        | <b>88,360</b> |               | Machinery              | 20,000     |               |
| <b>Less:</b> Drawings  | 5,745         | 82,615        | Depreciation           | 2,000      | 18,000        |
| Creditors              |               | 6,300         | Patents                | 7,500      |               |
| Outstanding salaries   |               | 1,500         | Depreciation           | 1,500      | 6,000         |
|                        |               |               | Closing stock          |            | 6,800         |
|                        |               |               | Debtors                | 14,000     |               |
|                        |               |               | <b>Less:</b> Bad debts | 725        | 13,275        |
|                        |               |               | Cash in hand           |            | 540           |
|                        |               |               | Cash at bank           |            | 2,630         |
|                        |               |               | Prepaid insurance      |            | 170           |
|                        |               |               | Rent receivable        |            | 1,000         |
|                        |               | <b>90,415</b> |                        |            | <b>90,415</b> |

**Illu.15 : From the following Trial Balance, prepare Trading and Profit and Loss Account of Abhimanyu for the year ending 31<sup>st</sup> December 2005 and a Balance Sheet as on that date. You are also to consider the following adjustments:**

- (1) Stock on 31<sup>st</sup> December 2005 amounted to Rs.52, 000
- (2) Provide Rs.5, 000 for outstanding wages and Rs.500 for outstanding rent
- (3) Drawings amounting to Rs.10, 000 has been debited to capital account.
- (4) Charge interest @ 5% p. a. on capital and Rs.300 on drawings.
- (5) Goods distributed as samples amounted to Rs.2, 000.
- (6) Depreciate freehold premises @ 5%.

|  | Dr. Balances<br>Rs. | Cr. Balances<br>Rs. |
|--|---------------------|---------------------|
| Stock on 1 <sup>st</sup> January           | 23,000              |                     |
| Purchases and returns                      | 75,100              | 300                 |
| Cash in hand                               | 1,700               |                     |
| Bank                                       | 11,330              |                     |
| Freehold property                          | 19,300              |                     |
| Printing and Stationery                    | 820                 |                     |
| Trade expenses                             | 560                 |                     |
| Commission received                        |                     | 1,650               |
| 10% investments (January 1 <sup>st</sup> ) | 2,000               |                     |
| Interest on the above                      |                     | 100                 |
| Sundry debtors and Creditors               | 18,000              | 14,835              |
| Wages                                      | 12,500              |                     |
| Salaries                                   | 7,000               |                     |
| Capital                                    |                     | 57,000              |
| Income tax                                 | 800                 |                     |
| Discount allowed and received              | 3,150               | 2,300               |
| Sales and returns                          | 275                 | 1,04,475            |
| Bills receivable                           | 1,600               |                     |

|                                  |                 |                 |
|----------------------------------|-----------------|-----------------|
| <b>Office furniture</b>          | <b>1,525</b>    |                 |
| <b>Rent, rates and insurance</b> | <b>2,000</b>    |                 |
|                                  | <b>1,80,660</b> | <b>1,80,660</b> |

**Solution :**

**Trading, Profit and Loss Account of Abhimanyu  
for the year ending 31<sup>st</sup> December, 2005**

| Particulars                             | Rs.           | Rs.             | Particulars                   | Rs.      | Rs.             |
|---|---------------|-----------------|-------------------------------|----------|-----------------|
| To Opening Stock                        |               | 23,000          | By Sales                      | 1,04,475 |                 |
| To Purchases                            | 75,100        |                 | <b>Less : Returns</b>         | 275      | 1,04,200        |
| <b>Less : Returns</b>                   | 300           |                 | Closing Stock                 |          | 52,000          |
|   | <b>74,800</b> |                 |                               |          |                 |
| <b>Less : Samples</b>                   | 2,000         | 72,800          |                               |          |                 |
| Wages                                   | 12,500        |                 |                               |          |                 |
| <b>Add : Outstanding</b>                | 5,000         | 17,500          |                               |          |                 |
| Gross Profit c/d                        |               | 42,900          |                               |          |                 |
|   |               | <b>1,56,200</b> |                               |          | <b>1,56,200</b> |
| To Salaries                             |               | 7,000           | By Gross Profit b/d           |          | 42,900          |
| To Rent, Rates,<br>insurance            | 2,000         |                 | By Commission<br>received.    |          | 1,650           |
| <b>Add: Outstanding rent</b>            | 500           | 2,500           | By Interest on<br>Investments | 100      |                 |
| To Printing & Stationery                |               | 820             | <b>Add : Outstanding</b>      | 100      | 200             |
| To Trade expenses                       |               | 560             | By Discount received          |          | 2,300           |
| To Income Tax                           |               | 800             | By Interest on<br>Drawings    |          | 300             |
| To Discount allowed                     |               | 3,150           |                               |          |                 |
| To Interest on capital                  |               | 3,350           |                               |          |                 |
| To Samples distributed                  |               | 2,000           |                               |          |                 |
| To Depreciation on<br>Freehold premises |               | 965             |                               |          |                 |
| To Net Profit transferred               |               |                 |                               |          |                 |



|                  |  |               |  |  |               |
|------------------|--|---------------|--|--|---------------|
| to Balance sheet |  | 26,205        |  |  |               |
|                  |  | <b>47,350</b> |  |  | <b>47,350</b> |

### Balance Sheet of Abimanyu as on 31<sup>st</sup> December, 2005

| Liabilities                       | Rs.           | Rs.             | Assets                              | Rs.    | Rs.             |
|-----------------------------------|---------------|-----------------|-------------------------------------|--------|-----------------|
| Sundry Creditors                  |               | 14,835          | Cash in hand                        |        | 1,700           |
| Capital                           | 57,000        |                 | Bank                                |        | 11,330          |
| <b>Add : Interest</b>             | 3,350         |                 | Closing Stock                       |        | 52,000          |
| <b>Add : Profit</b>               | 26,205        |                 | Investments                         |        | 2,000           |
|                                   | <b>86,555</b> |                 | Sundry Debtors                      |        | 18,000          |
| <b>Less : Interest on drawing</b> | 300           | 86,255          | Bills receivable                    |        | 1,600           |
| Outstanding wages                 |               | 5,000           | Outstanding interest on Investments |        | 100             |
| Outstanding Rent                  |               | 500             | Freehold Property                   | 19,300 |                 |
|                                   |               |                 | <b>Less : Depreciation</b>          | 965    | 18,335          |
|                                   |               |                 | Office Furniture                    |        | 1,525           |
|                                   |               | <b>1,06,590</b> |                                     |        | <b>1,06,590</b> |

**Illu.16 : From the following Trial Balance, Prepare the Trading Profit and Loss Account and the Balance Sheet on 31-12-2004.**

| Debit Balance             | Rs.    | Credit Balance   | Rs.      |
|---------------------------|--------|------------------|----------|
| Drawings                  | 6,000  | Capital          | 60,000   |
| Trading expenses          | 2,500  | Sundry creditors | 43,000   |
| Rent                      | 2,000  | Bills payable    | 4,000    |
| Travelling expenses       | 4,700  | Commission       | 4,000    |
| Returns                   | 1,000  | Returns          | 1,100    |
| Salaries                  | 9,500  | Sales            | 1,58,000 |
| Purchases                 | 80,000 | Overdraft        | 6,000    |
| Duty and clearing charges | 3,500  |                  |          |
| Sundry debtors            | 51,000 |                  |          |
| Bills receivable          | 5,000  |                  |          |

|                            |                 |  |                 |
|----------------------------|-----------------|--|-----------------|
| <b>Loan to Ramu</b>        | <b>42,000</b>   |  |                 |
| <b>Plant and Machinery</b> | <b>8,500</b>    |  |                 |
| <b>Opening stock</b>       | <b>47,000</b>   |  |                 |
| <b>Cash in hand</b>        | <b>900</b>      |  |                 |
| <b>Cash at Bank</b>        | <b>12,500</b>   |  |                 |
|                            | <b>2,76,100</b> |  | <b>2,76,100</b> |

**Adjustments :**

- (i) Closing Stock Rs.60,000
- (ii) Allow interest on capital at 10%
- (iii) Provide depreciation on machinery at 10% p.a.
- (iv) Commission received in advance Rs.500
- (v) Outstanding salaries Rs.1,600
- (vi) Write off bad debts Rs.1,000 and provide 5% as reserve for bad debts on debtors.
- (vii) Interest to be received Rs.200.

**Solution :**

**Trading Profit & Loss Account  
for the year ending 31-12-2004**

Dr.

Cr.

| <b>Particulars</b>         | <b>Rs.</b> | <b>Rs.</b>      | <b>Particulars</b>   | <b>Rs.</b> | <b>Rs.</b>      |
|----------------------------|------------|-----------------|----------------------|------------|-----------------|
| To Opening stock           |            | 47,000          | By Sales             | 1,58,000   |                 |
| To Purchases               | 80,000     |                 | <b>Less:</b> Returns | 1,000      | 1,57,000        |
| <b>Less :</b> Returns      | 1,100      | 78,900          | By Closing Stock     |            | 60,000          |
| To Duty & Clearing charges |            | 3,500           |                      |            |                 |
| To Gross Profit c/d        |            | 87,600          |                      |            |                 |
|                            |            | <b>2,17,000</b> |                      |            | <b>2,17,000</b> |
| To Salaries                | 9,500      |                 | By Gross Profit b/d  |            | 87,600          |
| <b>Add:</b> Outstanding    | 1,600      | 11,100          | By Commission        | 4,000      |                 |

|  |  |               |                                    |     |               |
|--|--|---------------|------------------------------------|-----|---------------|
| To Trading expenses                        |  | 2,500         | <b>Less:</b> Received in a advance | 500 | 3,500         |
| To Rent                                    |  | 2,000         | By Outstanding Interest            |     | 200           |
| To Travelling expenses                     |  | 4,700         |                                    |     |               |
| To Interest on capital                     |  | 6,000         |                                    |     |               |
| To Depreciation on Machinery               |  | 850           |                                    |     |               |
| To Bad debts                               |  | 1,000         |                                    |     |               |
| To Reserve for bad debts                   |  | 2,500         |                                    |     |               |
| To Net profit transferred to balance sheet |  | 60,650        |                                    |     |               |
|  |  | <b>91,300</b> |                                    |     | <b>91,300</b> |

**Balance Sheet as on 31-12-2004**

| <b>Liabilities</b>     | <b>Rs.</b> | <b>Rs.</b> | <b>Assets</b>                         | <b>Rs.</b> | <b>Rs.</b> |
|------------------------|------------|------------|---------------------------------------|------------|------------|
| Bank overdraft         |            | 6,000      | Cash in Hand                          |            | 900        |
| Bills payable          |            | 4,000      | Cash at Banks                         |            | 12,500     |
| Sundry creditors       |            | 43,000     | Debtors                               | 51,000     |            |
| Capital                | 60,000     |            | <b>Less:</b> Bad debts                | 1,000      |            |
| <b>Add:</b> Interest   | 6,000      |            |                                       | 50,000     |            |
| <b>Add:</b> Net Profit | 60,650     |            | <b>Less :</b> Provision for Bad debts | 2,500      | 47,500     |
|                        | 1,26,650   |            | Bills Receivable                      |            | 5,000      |
| <b>Less :</b> Drawings | 6,000      | 1,20,650   | Loan to Ramu                          | 42,000     |            |
| Outstanding Salaries   |            | 1,600      | <b>Add:</b> Outstanding Interest      | 200        | 42,200     |

|                                |  |                 |                           |       |                 |
|--------------------------------|--|-----------------|---------------------------|-------|-----------------|
| Commission received in advance |  | 500             | Closing stock             |       | 60,000          |
|                                |  |                 | Plant and Machinery       | 8,500 |                 |
|                                |  |                 | <b>Less: Depreciation</b> | 850   | 7,650           |
|                                |  | <b>1,75,750</b> |                           |       | <b>1,75,750</b> |

**Illu.17 : From the following Trial Balance, you are required to prepare final accounts for the year ended 31-12-2005 :**

| <i>Particulars</i>                 | <b>Debit Rs.</b> | <b>Credit Rs.</b> |
|------------------------------------|------------------|-------------------|
| Land & Buildings                   | 20,000           | -                 |
| Goodwill                           | 40,000           | -                 |
| Plant and Machinery                | 30,000           | -                 |
| Loose Tools                        | 1,000            | -                 |
| Opening stock                      | 20,000           | -                 |
| Capital and drawings               | 7,500            | 70,000            |
| Bills receivable and Bills payable | 7,500            | 8,000             |
| Purchase and sales                 | 30,000           | 1,15,000          |
| Carriage inwards                   | 1,000            | -                 |
| Salaries                           | 14,000           | -                 |
| Wages                              | 15,000           | -                 |
| Debtors and Creditors              | 20,000           | 36,000            |
| Cash at Bank                       | 15,000           | -                 |
| Cash on hand                       | 2,000            | -                 |
| Furniture                          | 3,000            | -                 |
| Insurance                          | 2,000            | -                 |
| Returns                            | 750              | 1,000             |
| Bad debts                          | 1,250            |                   |
|                                    | <b>2,30,000</b>  | <b>2,30,000</b>   |

**Adjustments :**

**(a) Depreciate Plant & Machinery by 10%.**

(b) Pre-paid insurance Rs.1,500

(c) Provide 5% on debtors against bad and doubtful debts and 2% against discount on debtors.

(d) Closing stock was valued at Rs.20,000.

### Solution :

| Dr.                                |        | Trading, Profit & Loss a/c for the year ended 31-12-2005 |                      | Cr.      |                 |
|------------------------------------|--------|--|----------------------|----------|-----------------|
|                                    |        | Rs.  |                      |          | Rs.             |
| To Opening stock                   |        | 20,000   | By Sales             | 1,15,000 |                 |
| To Purchases                       | 30,000 |  | <b>Less:</b> Returns | 750      | 1,14,250        |
| <b>Less:</b> Returns               | 1,000  | 29,000   | By Closing Stock     |          | 20,000          |
| To Wages                           |        | 15,000   |                      |          |                 |
| To Carriage Inwards                |        | 1,000  |                      |          |                 |
| To Gross profit c/d                |        | 69,250   |                      |          |                 |
|                                    |        | <b>1,34,250</b>  |                      |          | <b>1,34,250</b> |
| To Salaries                        |        | 14,000   | By Gross profit b/d  |          | 69,250          |
| To Insurance                       | 2,000  |  |                      |          |                 |
| <b>Less:</b> Prepaid               | 1,500  | 500  |                      |          |                 |
| To Bad debts                       |        | 1,250  |                      |          |                 |
| To Reserve for bad debts           |        | 1,000  |                      |          |                 |
| To Depreciation on plant           |        | 3,000  |                      |          |                 |
| To Reserve for discount on debtors |        | 380  |                      |          |                 |
| To Net Profit                      |        | 49,120   |                      |          |                 |
|                                    |        | <b>69,250</b>  |                      |          | <b>69,250</b>   |

**Balance Sheet as on 31-12-2005**

| <b>Liabilities</b>     | <b>Rs.</b>      | <b>Rs.</b>      | <b>Assets</b>                                | <b>Rs.</b>    | <b>Rs.</b>      |
|------------------------|-----------------|-----------------|--|---------------|-----------------|
| Sundry Creditors       |                 | 36,000          | Land & Buildings                             |               | 20,000          |
| Bills payable          |                 | 8,000           | Loose Tools                                  |               | 1,000           |
| Capital                | 70,000          |                 | Goodwill                                     |               | 40,000          |
| <b>Add: Net profit</b> | 49,120          |                 | Furniture                                    |               | 3,000           |
|                        | <b>1,19,120</b> |                 | Plant & Machinery                            | 30,000        |                 |
| <b>Less: drawings</b>  | 7,500           | 1,11,620        | <b>Less: Depreciation</b>                    | 3,000         | 27,000          |
|                        |                 |                 | Debtors                                      | 20,000        |                 |
|                        |                 |                 | <b>Less: Reserve for Bad debts</b>           | 1,000         |                 |
|                        |                 |                 |  | <b>19,000</b> |                 |
|                        |                 |                 | <b>Less: Reserve for discount on debtors</b> | 380           | 18,620          |
|                        |                 |                 | Bills receivable                             |               | 7,500           |
|                        |                 |                 | Closing Stock                                |               | 20,000          |
|                        |                 |                 | Prepaid Insurance                            |               | 1,500           |
|                        |                 |                 | Cash at Bank                                 |               | 15,000          |
|                        |                 |                 | Cash in Hand                                 |               | 2,000           |
|                        |                 | <b>1,55,620</b> |  |               | <b>1,55,620</b> |

**Working Notes :**

1. Reserve for Bad debts (RBD) = Rs.20,000 x 5/100 = Rs.1000
2. Reserve for discount on debtors = Rs.20,000 – 1,000 = Rs.19,000 x 2/100 = Rs.380

**Illu.18 : From the following balances and adjustments prepare Final Accounts as on 31-3-2005.**

|                       | <b>Rs.</b>    |                                 | <b>Rs.</b>   |
|-----------------------|---------------|---------------------------------|--------------|
| <b>Purchases</b>      | <b>65,000</b> | <b>Debtors discount Reserve</b> | <b>2,000</b> |
| <b>Bank overdraft</b> | <b>8,000</b>  | <b>Sales returns</b>            | <b>2,000</b> |

|                      |          |                           |        |
|----------------------|----------|---------------------------|--------|
| Sales                | 1,20,000 | Plant and Machinery       | 20,000 |
| Opening stock        | 15,000   | Sundry Creditors          | 18,000 |
| Capital Account      | 60,000   | Land & Buildings          | 50,000 |
| Bad debts reserve    | 2,500    | Salaries                  | 4,000  |
| Purchase returns     | 1,500    | Factory expenses          | 600    |
| Wages                | 600      | Carriage                  | 800    |
| Bills Payable        | 10,000   | General expenses          | 400    |
| Insurance            | 600      | Commission                | 200    |
| Advertising expenses | 1,500    | Sundry Debtors            | 15,000 |
| Bills Receivable     | 19,000   | Bad debts                 | 400    |
| Cash in hand         | 600      | Discount (Dr.)            | 300    |
| Goodwill             | 20,000   | Creditor discount reserve | 800    |
|                      |          | Drawings Account          | 2,400  |

- (a) Closing Stock Rs.25,000  
 (b) Outstanding wages and salaries are Rs.800 and Rs.2,400.  
 (c) Prepaid insurance Rs.150.  
 (d) Bad debts to be written off Rs.600 and provide bad debts reserve @ 5% on Debtors.  
 (e) Provide 2% discount reserve on debtors and creditors.  
 (f) Depreciation is to be calculated 10% on Plant and Machinery, 5% on Land and Buildings.

**Solution :**

**Trading and Profit and Loss a/c  
for the year ending 31-3-05**

Dr.

Cr.

| <i>Particulars</i> | Amount<br>Rs. | Particulars | Amount<br>Rs. |
|--------------------|---------------|-------------|---------------|
| To Opening Stock   | 15,000        | By Sales    | 1,20,000      |

|   |        |                 |   |       |                 |
|---|--------|-----------------|---|-------|-----------------|
| To Purchases  | 65,000 |                 | <b>Less:</b> Sales return                             | 2,000 | 1,18,000        |
| <b>Less:</b> Returns                                      | 1,500  | 63,500          | By Closing Stock                                      |       | 25,000          |
| To Wages  | 600    |                 |   |       |                 |
| <b>Add:</b> Outstanding                                   | 800    | 1,400           |   |       |                 |
| To Factory expenses                                       |        | 600             |   |       |                 |
| To Carriage   |        | 800             |   |       |                 |
| To Gross profit c/d                                       |        | 61,700          |   |       |                 |
|   |        | <b>1,43,000</b> |   |       | <b>1,43,000</b> |
| To Salaries   | 4,000  |                 | By Gross profit b/d                                   |       | 61,700          |
| <b>Add:</b> Outstanding salaries                          | 2,400  | 6,400           | By Bad debts reserve                                  | 2,500 |                 |
| To Insurance  | 600    |                 | <b>Less:</b> New provision<br>5% (15,000-600) x 5/100 | 720   | 1,780           |
| <b>Less:</b> Prepaid                                      | 150    | 450             | By Discount on creditors (Rs.800 + 360)               |       | 1,160           |
| To Advertising expenses                                   |        | 1,500           |   |       |                 |
| To General expenses                                       |        | 400             |   |       |                 |
| To Commission   |        | 200             |   |       |                 |
| To Bad debts  | 400    |                 |   |       |                 |
| <b>Add:</b> New Reserve                                   | 600    | 1,000           |   |       |                 |
| To Discount   |        | 300             |   |       |                 |
| To Debtors discount reserves                              | 2,000  |                 |   |       |                 |
| <b>Add:</b> Debtor Discount 2%                            | 273    | 2,273           |   |       |                 |
| To Depreciation on Plant & Machinery (Rs.20,000 x 10/100) |        | 2,000           |   |       |                 |



|   |  |               |  |  |               |
|---|--|---------------|--|--|---------------|
| To Depreciation on Land & Building<br>(Rs.50,000 x 5/100) |  | 2,500         |  |  |               |
| To Net Profit<br>(Transfer to Balance sheet)              |  | 47,617        |  |  |               |
|   |  | <b>64,640</b> |  |  | <b>64,640</b> |

**Balance Sheet of .....as at 31-3-2005**

| <b>Liabilities</b>       |                 | <b>Amount<br/>Rs.</b> | <b>Assets</b>               |               | <b>Amount<br/>Rs.</b> |
|--------------------------|-----------------|-----------------------|-----------------------------|---------------|-----------------------|
| Bank overdraft           |                 | 8,000                 | Goodwill                    |               | 20,000                |
| Bills payables           |                 | 10,000                | Cash in hand                |               | 600                   |
| Sundry creditors         | 18,000          |                       | Bills Receivables           |               | 19,000                |
| <b>Less: Discount 2%</b> | 360             | 17,640                | Debtors                     | 15,000        |                       |
| Outstanding wages        |                 | 800                   | <b>Less: Bad debts</b>      | 600           |                       |
| Outstanding salaries     |                 | 2,400                 |                             | <b>14,400</b> |                       |
| Capital                  | 60,000          |                       | <b>Less: 5% Provision</b>   | 720           |                       |
| <b>Add: Net Profit</b>   | 47,617          |                       |                             | <b>13,680</b> |                       |
|                          | <b>1,07,617</b> |                       | <b>Less: 2% Discount</b>    | 273           | 13,407                |
| <b>Less: drawings</b>    | 2,400           | 1,05,217              | Closing stock               |               | 25,000                |
|                          |                 |                       | Prepaid insurance           |               | 150                   |
|                          |                 |                       | Plant & Machinery           | 20,000        |                       |
|                          |                 |                       | <b>Less: Depreciation</b>   | 2,000         | 18,000                |
|                          |                 |                       | Land & Buildings            | 50,000        |                       |
|                          |                 |                       | <b>Less: Depreciation</b>   | 2,500         | 47,500                |
|                          |                 |                       | Difference in trial balance |               | 400                   |
|                          |                 | <b>1,44,057</b>       |                             |               | <b>1,44,057</b>       |

**Trial Balance as on 31-3-2005**

| <b>Debit</b>                                  | <b>Amount<br/>Rs.</b> | <b>Credit</b>                    | <b>Amount<br/>Rs.</b> |
|---|-----------------------|----------------------------------|-----------------------|
| Purchases                                     | 65,000                | Bank overdraft                   | 8,000                 |
| Opening stock                                 | 15,000                | Sales                            | 1,20,000              |
| Wages   | 600                   | Capital                          | 60,000                |
| Insurance                                     | 600                   | Bad debts reserve                | 2,500                 |
| Advertising expenses                          | 1,500                 | Purchase returns                 | 1,500                 |
| Bills receivable                              | 19,000                | Bills payable                    | 10,000                |
| Cash in hand                                  | 600                   | Sundry creditors                 | 18,000                |
| Goodwill                                      | 20,000                | Discount on creditors<br>reserve | 800                   |
| Debtors discount reserve                      | 2,000                 |                                  |                       |
| Sales returns                                 | 2,000                 |                                  |                       |
| Plant & Machinery                             | 20,000                |                                  |                       |
| Land & Buildings                              | 50,000                |                                  |                       |
| Salaries                                      | 4,000                 |                                  |                       |
| Factory expenses                              | 600                   |                                  |                       |
| Carriage                                      | 800                   |                                  |                       |
| General expenses                              | 400                   |                                  |                       |
| Commission                                    | 200                   |                                  |                       |
| Sundry debtors                                | 15,000                |                                  |                       |
| Bad debts                                     | 400                   |                                  |                       |
| Discount                                      | 300                   |                                  |                       |
| Drawings                                      | 2,400                 |                                  |                       |
| Difference in Trial Balance<br>(Suspense a/c) | 400                   |                                  |                       |
|   | <b>2,20,800</b>       |                                  | <b>2,20,800</b>       |

**10.3 QUESTIONS**

1. Explain the need for adjustments in final accounts
2. Give five journal entries for adjustments in final accounts
3. How do you treat the following in final accounts?
  - (a) Outstanding expenses
  - (b) Prepaid expenses
  - (c) Outstanding income
  - (d) Income received in advance
  - (e) Depreciation on assets
  - (f) Treatment of bad debt, provision for doubtful debts and provision for discount
  - (g) Provision for bad debts
  - (h) Provision for discount on debtors
  - (i) Provision for discount on creditors
  - (j) Interest on Drawings
  - (k) Interest on capital
  - (l) Closing Stock

#### 10.4 EXERCISES

1. From the following Trial Balance of M/s Ram & Sons, prepare trading and profit and loss account for the year ending on 31<sup>st</sup> December, 2006 and the balance sheet as on that date.

| Particulars         | Dr. Rs. | Cr. Rs. |
|---------------------|---------|---------|
| Purchase            | 21,750  |         |
| Discount allowed    | 1,300   |         |
| Wages               | 6,500   |         |
| Salaries            | 2,000   |         |
| Sales               |         | 35,000  |
| Travelling Expenses | 400     |         |
| Commission          | 425     |         |
| Carriage Inward     | 275     |         |

|                         |               |               |
|-------------------------|---------------|---------------|
| Administration Expenses | 105           |               |
| Trade Expenses          | 600           |               |
| Interest                | 250           |               |
| Building                | 5,000         |               |
| Furniture               | 200           |               |
| Debtors                 | 4,250         |               |
| Capital                 |               | 13,000        |
| Creditors / Cash        | 7,045         | 2,100         |
|                         | <b>50,100</b> | <b>50,100</b> |

Stock on 31<sup>st</sup> December, 2006 was Rs.6,000. Depreciate buildings by 20%, create a provision for bad debts at 10% on debtors. Provide for outstanding wages Rs.475, salaries Rs.500 and goods used by the proprietor Rs.500.

**[Ans.: Gross profit Rs.12,500, Net Profit Rs.5,495, Balance Sheet Total Rs.21,070]**

2. From the following ledger balances prepare Trading and profit and Loss Account for the year ended 30<sup>th</sup> September, 2006 and a Balance Sheet as on that date.

| Particulars  | Rs.      | Particulars                 | Rs.    |
|--|----------|-----------------------------|--------|
| Rama's Capital a/c   | 1,19,400 | Cash                        | 530    |
| Rama's drawings a/c  | 10,550   | Repairs & Renewals          | 3,370  |
| Bills Receivable   | 9,500    | Bank                        | 18,970 |
| Plant and Machinery  | 28,800   | Interest and Discount (Dr.) | 5,870  |
| Sundry debtors (including Madan's dishonoured bill Rs.1,000) | 62,000   | Bad Debts                   | 3,620  |
| Loan a/c (Cr.) at 6%   | 20,000   | Sundry Creditors            | 39,630 |
| Wages (Manufacturing)  | 40,970   | Fixtures & Fittings         | 8,970  |
| Returns Inwards  | 2,780    |                             |        |

|   |          |  |  |
|---|----------|--|--|
| Purchases   | 2,56,590 |  |  |
| Sales   | 3,56,430 |  |  |
| Commission received   | 5,640    |  |  |
| Rent and Taxes  | 5,620    |  |  |
| Stock on 1 <sup>st</sup> October, 2006                                | 89,680   |  |  |
| Salaries  | 11,000   |  |  |
| Travelling Expenses   | 1,880    |  |  |
| Insurance (including Rs.300 p.a. paid up 31 <sup>st</sup> March 2006) | 400      |  |  |

Stock in hand on 30<sup>th</sup> September, 2006 was Rs.1,28,960. Write off half of Madan's dishonoured bill. Depreciate Plant and Machinery by 5% and Fixtures and Fittings by 10%.

**[Ans.: Gross Profit Rs.95,370; Net Profit Rs.66,563 and Balance Sheet Total Rs.2,55,043].**

3. From the following Trial Balance of Mr. A, Prepare Trading and Profit & Loss Account for the year ending 31<sup>st</sup> December, 2006 and a Balance Sheet as on that date :

| Debit Balances  | Rs.      | Credit Balances        | Rs.      |
|---|----------|------------------------|----------|
| Drawings  | 5,275    | Capital                | 59,700   |
| Bills Receivable                                      | 4,750    | Loan at 8% on (1-1-88) | 10,000   |
| Machinery   | 14,400   | Commission received    | 2,820    |
| Debtors (including X for Dishnoured Bill of Rs.1,000) | 30,000   | Creditors              | 29,815   |
| Wages   | 20,485   | Sales                  | 1,78,215 |
| Returns inwards                                       | 2,390    |                        |          |
| Purchases   | 1,28,295 |                        |          |
| Rent  | 2,810    |                        |          |
| Stock (1-1-06)  | 44,840   |                        |          |
| Salaries  | 5,500    |                        |          |

|                     |                 |  |                 |
|---------------------|-----------------|--|-----------------|
| Travelling Expenses | 945             |  |                 |
| Insurance           | 200             |  |                 |
| Cash                | 9,750           |  |                 |
| Repairs             | 1,685           |  |                 |
| Interest on Loan    | 500             |  |                 |
| Discount Allowed    | 2,435           |  |                 |
| Bad Debts           | 1,810           |  |                 |
| Furniture           | 4,480           |  |                 |
|                     | <b>2,80,550</b> |  | <b>2,80,550</b> |

The following adjustments are to be made:

- (i) Stock in the shop on 31<sup>st</sup> December, 2006 was Rs.64,480.
- (ii) Half the amount of X's bill is irrecoverable.
- (iii) Create a provision of 5% on other debtors.
- (iv) Wages include Rs.600 for erection of new machinery.
- (v) Depreciate Machinery by 5% and Furniture by 10%.
- (vi) Commission include Rs.300 being Commission received in advance.]

**[Ans.: Gross profit Rs.47,285, Net Profit Rs.30,472, Balance Sheet Total Rs.1,25,312].**

4. The following are the balances of Messers Gupta & Co. as on June, 2006.

| <b>Debit Balances</b> | <b>Rs.</b> | <b>Credit Balances</b> | <b>Rs.</b> |
|-----------------------|------------|------------------------|------------|
| Cash in hand          | 540        | Sales a/c              | 98,780     |
| Cash at Bank          | 2,630      | Returns outward        | 500        |
| Purchases a/c         | 40,675     | Capital Account        | 62,000     |
| Returns Inwards       | 680        | Sundry creditors       | 6,300      |
| Wages Account         | 8,480      | Rent                   | 9,000      |
| Fuel & power          | 4,730      |                        |            |
| Carriage on Sales     | 3,200      |                        |            |

|                       |                 |  |                 |
|-----------------------|-----------------|--|-----------------|
| Carriage on Purchases | 2,040           |  |                 |
| Stock (1-7-06)        | 5,760           |  |                 |
| Building a/c          | 32,000          |  |                 |
| Freehold Land         | 10,000          |  |                 |
| Machinery             | 20,000          |  |                 |
| Patents               | 7,500           |  |                 |
| Salaries              | 15,000          |  |                 |
| General expenses      | 3,000           |  |                 |
| Insurance             | 600             |  |                 |
| Drawings              | 5,245           |  |                 |
| Sundry debtors        | 14,500          |  |                 |
|                       | <b>1,76,580</b> |  | <b>1,76,580</b> |

Prepare Trading and Profit & Loss a/c and a Balance Sheet as on 30<sup>th</sup> June, 2006 after taking into account the following adjustments:

- (i) Stock on hand as on 30<sup>th</sup> June, 2006 is Rs.6,800.
- (ii) Machinery is to be depreciated at 10% and Patents at 20%.
- (iii) Salaries for the month of June, 2006 amounting to Rs.1,500 were unpaid.
- (iv) Insurance, includes a premium of Rs.170 on a policy expiring on 31<sup>st</sup> December, 2006.
- (v) Further Bad Debts are Rs.725.
- (vi) Rent Receivable Rs.1,000.

**[Ans.: Gross profit Rs.43,715, Net profit Rs.26,275, Balance Sheet Total Rs.90,830].**

5. The following is the Trial Balance of Amrit Raj as on 31<sup>st</sup> December, 2006:

| Particulars | Dr. Rs. | Cr. Rs. |
|-------------|---------|---------|
| Capital     |         | 25,000  |
| Building    | 30,000  |         |

|  |        |        |
|--|--------|--------|
| Furniture                              | 2,640  |        |
| Scooter                                | 4,000  |        |
| Returns inward and outward             | 2,300  |        |
| Stock on 1 <sup>st</sup> January, 2006 | 8,000  |        |
| Purchases and sales                    | 33,800 | 56,040 |
| Bad debts                              | 400    |        |
| Carriage Inward                        | 600    |        |
| General Expenses                       | 1,200  |        |
| Bad Debts Provision                    |        | 700    |
| Bank Loan                              |        | 5,000  |
| Interest on Bank Loan                  | 300    |        |
| Commission                             |        | 900    |
| Insurance and Taxes                    | 2,000  |        |
| Scooter Expenses                       | 2,600  |        |
| Salaries                               | 4,400  |        |
| Cash in hand                           | 2,000  |        |
| Debtors and Creditors                  | 3,000  | 8,000  |

You are required to prepare the final accounts for the year ending 31<sup>st</sup> December, 2006 taking into account the following adjustments:

- Closing Stock on 31-12-06 was valued at Rs.4,340.
- Insurance is prepaid to the extent of Rs.200 and carriage inward is unpaid Rs.100.
- Salaries have been paid for 11 months.
- Bank Loan has been taken at 10% p.a. interest.
- Depreciate building by 5% and Scooter by 15%.
- Write off Rs.200 as further bad debts and increase bad debts provision by 5% on book debts.
- Scooter is used for business as well as for private purposes equally.

**[Ans.: Gross Profit Rs.17,180, Net Profit Rs.6,640, Balance Sheet Total Rs.43,740]**



6. From the following Trial Balance of C.C. Lakadwala as at 31<sup>st</sup> March, 2006, you are required to prepare the Trading and Profit and Loss Account for the year ended 31<sup>st</sup> March, 2006 and Balance Sheet as at that date :

| <b>Debit Balances</b>   | <b>Rs.</b>      | <b>Credit Balances</b> | <b>Rs.</b>      |
|-------------------------|-----------------|------------------------|-----------------|
| Stock                   | 45,000          | Capital                | 75,000          |
| Purchases               | 2,25,000        | Sales                  | 4,20,750        |
| Plant & Machinery       | 75,000          | Sundry Creditors       | 15,000          |
| Trade charges           | 10,000          | Bad debts provision    | 200             |
| Carriage Inwards        | 2,500           | Bills Payable          | 2,000           |
| Carriage outwards       | 1,500           |                        |                 |
| Factory Rent            | 1,500           |                        |                 |
| Discount                | 350             |                        |                 |
| Insurance               | 700             |                        |                 |
| Sundry Debtors          | 60,000          |                        |                 |
| Office Rent             | 3,000           |                        |                 |
| Printing and Stationery | 600             |                        |                 |
| General Expenses        | 2,800           |                        |                 |
| Advertising             | 15,000          |                        |                 |
| Bills Receivable        | 3,000           |                        |                 |
| Drawings                | 6,000           |                        |                 |
| Salaries                | 18,000          |                        |                 |
| Manufacturing wages     | 20,000          |                        |                 |
| Furniture and Fixtures  | 7,500           |                        |                 |
| Coal, gas and Water     | 1,000           |                        |                 |
| Cash in hand            | 2,000           |                        |                 |
| Cash at Bank            | 12,500          |                        |                 |
|                         | <b>5,12,950</b> |                        | <b>5,12,950</b> |

The following adjustments are to be taken into consideration:

- (a) Closing stock amounted to Rs.35,000

- (b) Plant and Machinery and Furniture to be depreciated by 5% and 10% respectively.
- (c) Bad debts provision to be raised to 21% on debtors.
- (d) Provided for outstanding liabilities for Factory Rent Rs.300 and Office Rent Rs.600.
- (e) Insurance include Rs.100 in respect of 2006-07.

**[Ans.: Gross Profit Rs.1,56,700, Net Profit Rs.91,100, Total of Balance Sheet Rs.1,78,000].**

## 10.5 SUGGESTED BOOKS

1. Agarwala, A.N., Amitabha Mukherjee, Mohammed Hanif, **Principles and Practice of Accountancy**, Kitab Mahal Agencies, New Delhi.
2. Basu & Das, **Practical in Accountancy, Volume – one**, Rabindra Library, Calcutta
3. Chopde, L.N., & Choudhari, D.H., **Accountancy**, Sheth Publishers, Pune
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5. Maheswari, S.N., Maheswari, S.K., **Advanced Accountancy (Vol.I)**, Vikas Publishing House Pvt. Ltd., New Delhi, 2005
6. Pillai, R.S.N., Bagavathi, Uma, S., **Fundamentals of Advanced Accounting (Vol.I)** S. Chand & Company Ltd., New Delhi, 2006
7. Shukla, M.C., Grewal, T.S., Gupta, S.C., **Advanced Accounts (Volume I)** S. Chand & Company Limited, New Delhi, 2005
8. Tulsian, P.c., **Accountancy** Tata McGraw-Hill Publishing Company Limited, New Delhi.

**Chapter – 11**

# **Cost Accounting Nature and Significance**

**Objectives :**

**After reading this unit we should be able to :**

- Know the meaning, definition and objectives of cost accounting
- Understand the advantages of limitations of cost accounting
- Discuss the installation of cost accounting system

**Synopsis:**

- 11.1 Nature and Significance**
- 11.2 Limitations of Financial Accounting**
- 11.3 Importance of Cost Accounting**
- 11.4 Limitations of Cost Accounting**
- 11.5 Installation of Costing System**
- 11.6 Financial Accounting Vs. Cost Accounting**
- 11.7 Questions**
- 11.8 Suggested Readings**

**11.1 NATURE AND SIGNIFICANCE**

All aspects of accountancy have arisen from practical necessity. The oldest forms of accounting developed as a result of the need of commercial firms to present the resultant annual profit or loss. The emphasis of accounting is to know the profit or loss of a firm but not on other aspects like the profitability of a particular product or department; how much capital is locked up in unremunerative projects, how to control expenditure and reduce wastage etc. The main emphasis is on their ascertainment and exhibition of the profits earned or losses incurred by the business rather than on aspects of planning and control and decision making.

The cost of manufacture of products or of rendering a service is, no doubt, available in financial accounts for a division or enterprise as a whole and that too at the end of the accounting period. But if the cost of individual products or services and the profit or loss from each are required concurrently as the process of manufacture or of rendering the service proceeds, recourse has to be made to cost accounting. Cost accounting developed as an advanced phase of accounting science trying to make up the deficiencies of financial accounts and is essentially a creation of the twentieth century. Let us know the meaning of Costing, Cost Accounting and Cost Accountancy.

**Costing** : Costing is the technique and process of ascertaining costs. It expresses faithfully the actual cost of any particular unit of production and also discloses how such total cost is constituted.

**Cost Accounting** : It is a normal mechanism by means of which costs of products and services are ascertained and controlled. It embraces all accounting procedures relating to recording of all income and expenditure and the preparation of periodical statements with a view to ascertain and control costs. Thus, it includes three things : Cost Ascertainment, Cost Presentation and Cost Control.

**Cost Accountancy** : It is the application of costing and cost accountancy principles, methods and techniques to the science, art and practice of cost control and the ascertainment of profitability. It is the science, art and practice of a cost accountant.

### 11.1. Cost Accounting – Definitions:

**Walter W. Bigg** – Cost Accounting is the provision of such analysis and classification of expenditure as it will enable the total cost of any particular unit of production to be ascertained with reasonable degree of accuracy and at the same time to disclose exactly how such total cost is constituted.

**R. N. Carter** – Cost Accounting is defined as a system of recording in accounts the materials used and labour employed in the manufacture of a certain commodity or on a particular job.

**Wheldon** – Costing is the classifying, recording and appropriate allocation of expenditure for the determination of the cost of products or services; and for the presentation of suitably arranged data for purposes of control, and guidance of the management. It includes the ascertainment of cost of every order, job, contract, process; service or unit as may be appropriate. It deals with the costs of production, selling and distribution’.

### 11.1.1 Objectives of Cost Accounting:

The main objectives of cost accounting are given below:

- 1. Ascertainment of Costs :** It enables management to ascertain the cost of a product, job or operation in a systematic way. Expenses relating to a product are collected from diverse sources. In addition to direct expenses relating to a product, joint expenses pertaining to several products are also taken into account (dividend on some equitable basis) while ascertaining the cost of a product.
- 2. Determination of Selling Price :** Cost Accounting provides useful cost data for fixing the selling price of a product. By dividing the expenses into fixed and variable components, it helps management to fix the price of a product in a scientific manner. For example, in times of falling prices, the manufacturer knows where to stop the production and to what extent he can cut down the prices. The margin at various levels of production can also be found out easily.
- 3. Control of Inefficiencies :** Cost Accounting involves the study of various operations in an undertaking. All activities are put to a close examination, with a view to find out the sources of efficiency or inefficiency. Once the weak spots are located through such studies, rectification steps can be initiated promptly to set the things in order. A number of techniques such as standard costing, budgetary control are employed for this purpose.
- 4. Facilitates Preparation of Financial Statements :** Cost accounting facilitates the preparation of daily, weekly or monthly reports regarding stock of raw materials, work-in-progress, and finished goods. It helps management to take stock of production, sales and operating results from time to time and prepare financial statements as and when required.
- 5. Provides Basic for Operating Policy :** Cost accounting helps management in the planning and execution of operating policies relating to : (i) cost – volume relationship, (ii)

shutting down or operating the plant incurring losses, (iii) make or buy decisions and (iv) producing with existing plant and equipment or replacing them with improved facilities.

## 11.2. LIMITATIONS OF FINANCIAL ACCOUNTING

Financial Accounting is concerned with recording, classifying and summarising financial transactions pertaining to an accounting period. The basic objective is to provide a commentary to the shareholders and outside parties on the financial status of an enterprise in the form of a profit and loss account and balance sheet. The profit or loss of business operations is revealed through these statements year after year; observing the statutory requirements of the Companies Act, 1956.

Cost Accounting, on the other hand, aims at providing cost data for managerial planning, controlling and decision – making. It provides a complete explanation as to how the scarce inputs are put to use in business. The sources of efficiency or inefficiency are revealed through periodical reports. The profit or loss relating to each job, department or product can also be found out easily.

Financial Accounting provides a post-mortem examination of past events and, hence, not amenable for exercising control measures. It does not offer a running commentary on the profitability of various jobs, departments or processes in an organisation. These serious limitations have ultimately paved the way for the emergence of cost accounting. Let us now examine the limitations of financial accounting in greater detail :

1. Financial Accounting discloses only the net result of the collective activities of the business as a whole. It does not indicate the profit or loss of each department, job, process or contract.
2. Expenditure is not split up according to departments, process and products and, hence, prices of articles manufactured cannot be fixed accurately.
3. Financial accounting does not indicate the remunerative prices which may be quoted in times of depression.
4. It does not ensure proper control over materials and supplies, wages, labour and overheads.

5. Expenses are not classified as direct and indirect items and are not assigned to the product at each stage of production to show the controllable and uncontrollable items of overhead cost.
6. It does not provide any measure to judge the efficiency of the concern.
7. Financial Accounting is purely historical, since the data is summarised at the end of the accounting period. Prompt cost information on a day – to – day basis is not available.
8. It does not provide a complete analysis of losses due to idle time, idle plant and equipment.
9. It does not offer cost data for comparison with previous periods.

### 11.3. IMPORTANCE OF COST ACCOUNTING

Cost Accounting offers a number of benefits to management, employees, creditors, government and society in general. The importance of cost accounting can be understood after going through the following benefits derived from it.

#### 11.3.1. Benefits to Management:

Cost Accounting helps management in carrying out its functions efficiently and effectively in the following way.

- (i) **Planning** : Cost Accounting ascertains costs of different courses of action and provides a sound basis for picking up a suitable course of action. It compiles up-to-date cost data, analyses by products, operations, elements, functions and departments and presents them in a suitable form. Based on such data, management can plan its future operations in a competent way.
- (ii) **Budgeting** : Cost Accounting is not a post-mortem examination of past events. It is a system of foresight. It does not merely record actual costs incurred but works out estimated and standard costs for exercising control. It prepares budgets for future operations based on past experience and likely changes in future. It helps management to make an objective assessment of organisational strengths, weaknesses, opportunities and threats (SWOT Analysis) before undertaking a project.
- (iii) **Decision – Making** : Cost Accounting compels management to arrive at decisions based on cost data, in place of trial and error judgements. Valuable cost data enables management to decide issues such as: make or buy, expand or contract business

activities, putting scarce inputs to effective use, evaluating the profitability of various alternatives, selling below cost price etc.

- (iv) Organising** : Cost Accounting requires that the work in an organisation must be logically divided, in the form of departments, cost centers and responsibility centres. Work is clearly earmarked for various departments such as purchasing, inspection, storage and accounting departments. An efficient system of communication is also promoted between these departments using printed forms, rulings and statements.
- (v) Controlling** : Cost Accounting serves as a means of control in the following ways:
- (a) A sound system of material control in the form of buying, receiving, inspection, storage, issue of materials prevents wastage, pilferage, under-and-over stocking of materials at various levels. The fixation of stock levels and inventory control ensures regular and adequate supply of materials of right quality whenever required.
  - (b) A proper system of control over labour costs by job and time records helps management avoid idle time, defective work etc. and utilise human assets in the best possible way.
  - (c) Plant capacity and other facilities are employed in the best possible way.
  - (d) It provides systematic and comparative records to management, facilitating the introduction of corrective measures at the right time.
- (vi) Pricing** : Cost Accounting provides useful data for quoting appropriate prices for domestic as well as foreign markets (by employing techniques such as marginal costing, budgeting) well a head of production schedule. It also enables management to fix minimum prices during depression by dividing expenses into fixed and variable components.
- (vii) Efficient use of Resources** : Cost Accounting conducts a continuous war against wastes of all kinds. The standards for measuring efficiency are established initially. Deviations checked promptly, weak spots are identified, and remedial steps taken up earnestly. The reasons for profit or loss during a period are analysed thoroughly for future guidance. Every attempt is made to put resources to the best possible use. Unprofitable products, activities are dispensed with. Costs and revenues of two



products, two periods, two departments etc., are compared from time to time with a view to improve efficiency continuously.

### **11.3.2. Benefits to Employees:**

Cost Accounting offers a number of benefits to employees in the following ways :

- i. It facilitates the introduction of various incentive schemes and bonus plans and, thus, offers adequate rewards for efficient and sincere workers.
- ii. Employee performance is appraised in a scientific manner, by setting standards of efficiency, and measuring the same through time and motion studies. Job and time cards help management in finding out people who are regular, productive and, therefore, deserve promotions from time to time.
- iii. Workers get continuous employment, overtime incentive, better job security and larger compensation owing to increased prosperity of industries.

### **11.3.3. Benefits to the Creditors:**

Bankers, debenture – holders and other creditors study the data provided by cost accountants to ascertain the solvency, profitability and future prosperity of an enterprise before they lend. The reports submitted by cost accountants immensely help them in taking right decisions.

### **11.3.4. Benefits to the Government :**

The procedures and techniques of cost accounting are useful in preparing national plans aimed at achieving economic progress. In order to decide things pertaining to taxation, import and export policies, price ceiling, granting of quotas and subsidies, Government requires cost data relating to various industries. It is also interested in seeing that corporate funds are not squandered away in uneconomical activities. Cost Audit is, therefore, made compulsory now for industries belonging to Cement, Tyres, Refrigerators, Motor Vehicles, Tractors, Vanaspathi, Cotton Textiles etc.

### **11.3.5. Benefits to the Society:**

Costing offers innumerable benefits to the society in the following ways:

- i. It wages a war against wastes of all kinds. Consumers, therefore, get quality goods at an economical price.
- ii. It brings stability by improving managerial and operating efficiency.
- iii. Cost saving and cost reduction efforts carried out by various firms help in curbing inflationary tendencies in the economy.
- iv. Continuous employment opportunities are provided to various sections in the society when Cost Accounting procedures, methods and practices are followed in different industries.

## 11.4. LIMITATIONS OF COST ACCOUNTING

Cost accounting can never be an exact science because of the inherent element of judgement. There is often, no uniformity in costs ascertained by different cost accountants using the same data. Disagreements in the cost of a product usually arise owing to different procedures of cost ascertainment, allocation and apportionment followed by cost accountants. For this reason, cost results must be accepted as reasonable approach to accuracy and not as price measurements. Accuracy in cost accounting is, therefore, relative. Unless uniform principles are followed in the collection, allocation and apportionment of expenses, results are bound to be different. Also, costs have no utility in themselves. Their usefulness, to a large extent, depends on how promptly remedial steps are taken up by top management, once certain loopholes are detected and pointed out by the cost accountant.

1. **It is expensive** : The system of cost accounting involves additional expenditure to be incurred in installing and maintaining it. However, before installing it, care must be taken to ensure that the benefits derived is more than the investment made or this system of accounting.
2. **The system is more complex** : As the cost accounting system involve number of steps in ascertaining cost such as collection and classification of expenses, allocation and apportionment of expenses, it is considered to be complicated system of accounts. Moreover, the system makes use of several documents and forms in preparing the reports. This will tend to delay in the preparation of accounts.

3. **Inapplicability of same costing method and technique** : All business enterprises cannot make use of a single method and technique of costing. It all depends upon the nature of business and type of product manufactured by it. If a wrong technique and method is used, it misleads the results of business.
4. **Not suitable for small scale units** : A cost accounting system is applicable only to a large sized business but not to a small sized business but not to a small – sized one. Hence, there is limitation to its application to all types of business.
5. **Lack of accuracy** : The accuracy of cost accounting get distorted owing to the use of notional cost such as standard cost, estimated cost etc.
6. **It lacks social accounting** : Cost accounting fails to take into accounts the social obligations of the business. In other words, social accounting is outside the purview of cost accounts.

## 11.5. INSTALLATION OF COSTING SYSTEM

Several practical difficulties may come in the way of installing a system of cost accounting in a concern. These may be stated as follows:

1. **Lack of Support** : Many a time a system of cost accounting is introduced without adequate preparation. The Managing Director may be interested in introducing the system but not others in the top management. At other times, the management may be interested in installing the system, but not the departmental heads. This problem can be overcome if discussions are held at various levels in a proper manner, before introducing a system of cost Accounting.
2. **Resistance at lower levels** : Employees at lower levels may have certain emotional objections against the introduction of a system of cost accounting. They may label the same as another device to extract additional work. In such case, the management must try to sell the concept sincerely. They must explain as to how the system is going to work and how the employees are going to get various kinds of benefits from time to time.
3. **Shortage of Trained staff** : Cost Accounting requires skills of a special kind for its success. Unless it is installed and implemented in a careful manner, success cannot be guaranteed. This, however, is not easy. Trained staff may not be readily available to translate the plan

into action. In such cases, it is better to train the existing hands first before installing a system of cost accounting.

- 4. Cost :** To keep the costs under control, unnecessary sophistication and formalities may be dispensed with. Cost Accounting may prove to be useless if it is installed as a decorative piece. The system must be designed in such a way that the basic requirements of a concern for prompt cost information must be served in an economical manner.

### 11.5.1 Factors to be considered before Installing a Cost Accounting System :

The following factors are to be considered before installing a cost accounting system in any organisation.

- 1. History of the organisation :** The history of an organisation implies the duration of its existence, position in the industry, the rate of growth, policy and philosophy of management. The history of business unit serves as the basis for designing the cost accounts in respect of necessity, simplicity, and investment involved in installing cost accounts.
- 2. Nature of the industry :** The method of costing to be installed depends on the nature of industry. The nature of business such as manufacturing, mining, trading etc., determines the costing techniques to be applied. Similarly, the type of product manufactured also determine the determine the method of costing that is to be employed.
- 3. Technical Consideration :** Technical consideration that influence the installation of cost accounts are : size and layout of the factory; existence of production and service departments, flow of production; capacity of machines and degree of mechanisation; existence of laboratories internal transport and material handling equipment's; production control techniques; inspection of testing of materials and finished goods.
- 4. Organisational factors :** The organisational factors to be considered are : (a) size and the type of organisation such as line, line and staff, functional and committee organisation (b) the levels of management, viz., top level, middle level and bottom level management, (c) extent of delegation and responsibility (d) extent of centralisation and decentralisation, (e) extent of departmentation, (f) availability of modern office equipment's, and (g) number of managerial and supervisory staff.

5. **Selling and distribution method** : The chief factors to be considered with regard to distribution process are the warehousing facilities, external transport, market research and other promotional measures, terms of sale and procurement of orders from customers.
6. **Accounting aspects** : The factors to be considered in respect of accounting are: number of financial records, existing forms, registers used, and number of copies required.
7. **Area of control to be exercised** : The areas where cost control is to be exercised is to be identified so that each manager may take action relevant to his activities. If material control occupies significant area of control, it must be given top most priority for exercising control over materials.
8. **Reporting** : The cost accounting system to be installed must ensure proper reporting of cost data to all levels of management. It must also to be pointed out that duplication of reporting is to be avoided.
9. **Uniformity** : The practice of adopting uniform costing facilitates inter-firm comparison among various firms belonging to the same industry. further, it also has the benefit of adopting common costing practice if a holding company has number of subsidiaries.
10. **Use of electronic data processing** : Now a days it has become a common practice to use computers everywhere. In this situation it is essential to ensure that the computers meet the needs of the system.
11. **Practical Consideration** : The cost accounting system to be installed must be flexible in operation and must be capable of adoption to changing conditions. The system must be periodically scrutinised so as to make necessary changes owing to development in business.

### 11.5.2 Ideal system of Cost Accounting:

An ideal system of cost accounting when installed and handled properly will be able to offer a number of benefits to management, employees in particular and society in general. Such a system must possess the following features :

1. **Suitable** : It must be suitable. It must be devised according to the nature, conditions, requirements and size of the organisation.
2. **Simple** : It must be simple and easy to understand and implement.

3. **Flexible** : The system must be flexible enough to take note of changes that confront an organisation from time to time.
4. **Economical** : The system must be cost – effective. The benefits must outweigh the costs.
5. **Comparable** : The management must be able to make comparison of facts with the past figures, figures of other concerns or other departments of the same unit.
6. **Timely** : it must be able to provide useful cost data when required.
7. **Uniform** : All forms and proformas etc., necessary to the system should be of uniform size and quality.
8. **Labour – saving** : The system must involve minimum clerical work. Employees should feel it easy while implementing the system.
9. **Control** : It must provide for a satisfactory system of control over materials, labour and overhead costs.
10. **Reconciliation** : The system must be so devised that the financial as well as cost records are capable of easy reconciliation.

## 11.6 FINANCIAL ACCOUNTING VS. COST ACCOUNTING

| Basis for Difference        | Final Accounting   | Cost Accounting  |
|-----------------------------|--|--|
| <b>1. Objective</b>         | The objective is to find out the profitability of operations during a particular period for the benefit of owners and outsiders. | The objective here is to help management through the provision of prompt cost data and thereby improve managerial decision making. |
| <b>2. Coverage</b>          | Here, the transactions are recorded for a definite period. It mainly deals with all commercial transactions.                     | Here the transactions are identified with cost units. Attention is focussed on transactions relating to manufacturing.             |
| <b>3. Analysis of Costs</b> | In Financial accounting the expenditure is analysed item-wise, e.g., wages,  | Records expenses by departments, elements, produces or processes to  |

|                               |   |  |
|-------------------------------|---|--|
|                               | salaries, depreciation etc., hence it is not amenable for offering a commentary.  | study them analytically.   |
| <b>4. Analysis of profits</b> | The profitability of individual products or departments is not known.   | The profits or loss relating to each job, process, operation department can be found out.  |
| <b>5. Material control</b>    | Material control is not ensured, as figures are not available.  | A systematic procedure for purchasing, storing and issuing of materials exists.  |
| <b>6. Labour cost control</b> | Wage sheets under financial accounting do not reveal labour efficiency, idle time and effective hours of work. Hence, control not possible. | Labour time records and wage sheets permit management to find out effective and idle hours and ensure control accordingly.                     |
| <b>7. Cost Classification</b> | Distinction between fixed (uncontrollable) and variable (controllable) costs not maintained.  | Costs are classified into fixed and variable elements and attention is focussed on controllable costs, which can be reduced by suitable steps. |
| <b>8. Stock Valuation</b>     | Here, stock valued at cost price or market price, whichever is less.  | Here stock is valued at cost.  |
| <b>9. Control means</b>       | Does not provide any means to measure the efficiency and exercise control over costs.   | Techniques like standard costing employed to ensure control over operations.   |
| <b>10. Recording</b>          | Records actual (historical) costs. It is only a post-mortem examination of  | Actual facts are combined with estimated ones while recording transactions.  |

|                       |   |  |
|-----------------------|---|--|
|                       | events that have taken place, leaving very little room for initiative corrective steps promptly.        | Transactions are recorded in an objective manner, according to the purpose for which costs have been incurred. |
| <b>11. Comparison</b> | Data here is not sufficient for drawing inter-period and inter-firm comparisons from time to time.      | Detailed comparison of results of two periods or two firms in an industry possible in cost accounting.         |
| <b>12. Legal need</b> | Statements prepared as per the legal requirements, i.e., as laid down by Companies Act, Income Tax Act. | Statements prepared internally as per the managerial requirements.   |
| <b>13. Approach</b>   | Data generated for external parties. Deals with external transactions.                                  | Data generated for managerial decision-making. Deals with internal transactions.                               |

## 11.7 QUESTIONS

### A. Very short answer questions (5 lines)

1. Costing
2. Cost Accounting
3. Cost Accountancy
4. Financial Accounting

### B. Short Answer questions (10 lines)

1. What is Costing ?
2. Define Costing.
3. Explain the advantage of costing
4. Explain the relationship between cost accounting and management accounting.
5. What are the characteristics of good system of costing?



6. Explain the objectives of cost accounting.
7. Define the concept of Cost Accounting.

### C. Essay type questions.

1. Define Cost Accounting and discuss the nature and scope of Cost Accounting Define cost accounting and explain the advantages of it.
2. Explain the benefits and limitations of cost accounting.
3. Describe the objectives and advantages of cost accounting
4. What is the necessity of cost accounting ? What are the differences between Financial Accounting and cost accounting?
5. "A good system of costing serves as a means of control over expenditure and helps to secure economy in manufacture." Explain.
6. Distinguish between Financial Accounting, Cost Accounting and Management Accounting.
7. Describe the relationship between cost accounting and financial accounting. What are the advantages of cost accounting.
8. Define Cost accounting. Explain the differences between cost accounting and financial accounting.
9. Explain the functions and advantages of cost accounting.
10. What essential points should be kept in view while installing a new costing system?
11. Explain the terms of Costing, Cost Accounting and Cost Accountancy.
12. State the advantages and disadvantages of maintaining cost accounts.
13. What are the functions and characteristics of a good costing system?
14. Bring out the pre – requisites for the installation of cost accounting system.

## 11.8 SUGGESTED READINGS

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**Chapter – 12****Cost Classification and Analysis****Objectives :**

**After going through this unit we should be able to :**

- Know the meaning of cost
- Classify the cost and the basis of time, volume, functions and controllability
- Analyse the components of total cost
- Prepare the cost sheet

**Structure :**

**12.1 Introduction**

**12.2 How is “cost” Understood?**

**12.3 Cost Classification**

**12.4 Components of Total Cost**

**12.5 Cost Sheet**

**12.6 Questions**

**12.7 Exercises**

**12.8 Suggested Readings**

**12.1 INTRODUCTION**

The term “costs” is the important component of accounting subject. There cannot be any system of accounting without the word costs. Financial Accounting, Cost Accounting and Management Accounting are mostly associated with costs. But, the most confusion causing component also is cost because, costs as such make no sense. There must be same prefix (or) suffix to this term costs, in the absence of which, one cannot make anything from it. It means that

the mere word costs doesn't make any sense. If it is production costs, it makes some meaning. Similarly, if it is costs of sales, it makes some sense. Hence, it must be carefully understood.

## 12.2 HOW IS "COST" UNDERSTOOD?

"Cost" connotes different meanings to different people.

- ❖ **CIMA (Chartered Institutes of Management Accountants) of London defines cost as :**  
It is the amount of expenditure (Actual/Notional) incurred or attributable to a specified thing (or) activity.
- ❖ **AICPA (American Institute of Certified Public Accountants) committee on terminology defines costs as :** The amount measured in money, of cash expended (or) other property transferred, capital stock issued, services performed (or) a liability incurred in consideration of goods or services received or to be received.
- ❖ **Shilling law :** Cost is defined as the resources that must be sacrificed to attain a particular objective.

Thus, the term cost is to be understood.

## 12.3 COST CLASSIFICATION :

Cost Classification is grouping up of Cost having similarity. It means that all costs that are alike are grouped under one heading. This can be done on several criteria like : time, volume, functions, elements, controllability etc.

### 12.3.1. Cost Classification by Time :

Cost can be divided into Historical costs and pre-determined costs. Historical costs are the costs that were spent or incurred for the purpose of securing some benefits. Pre-determined costs may be both Expected Costs and standard costs. Expected costs are the costs that are guessed based on past and human judgement. They may be exact (or) not. On the other hand, standard costs are costs which are very much systematically, scientifically and professionally determined by professional experts. These standard costs are used as bench marks for evaluating the performance. Standard costs are set for all elements of costs viz., material, labour and expenses.

### 12.3.2. Cost Classification by Volume :

Costs are divided into Fixed costs, variable costs and semi-fixed, semi-variable costs, based on the volume of output.

Fixed Costs are the costs that do not change in sympathy with changes in output. Normally, they are common for all levels of output and for a period also. In the short run, they are fixed. But beyond a particular level and time period also, these costs may vary. Fixed costs are often called period costs. Eg. : Rent, Insurance, Repairs on buildings etc.

**Variable Costs** : The opposite of fixed costs is variable costs. They vary in sympathy with changes in output. So, if volume varies, costs also vary. Hence, they are known as Variable Costs. Variable costs are also known as direct costs. Eg. Material cost, Labour cost etc.

### Semi Variable (or) Semi Fixed Costs :

These costs are not exactly variable costs (or) fixed costs. These are variable to some extent and fixed to some extent. Eg. Maintenance of Motor Vehicles, Electricity, Telephone expenses, service Department wages. In the case of 1<sup>st</sup> one, the total cost may include some fixed components towards depreciation at a flat rate and some variable component towards cost of fuel oil, which is incurred in proportion to the use of the vehicle. Thus, it is good example of semi variable (or) semi fixed cost. The 2<sup>nd</sup> example also can be discussed on a similar basis.

### 12.3.3. Cost Classification by Functions :

It is assumed that there are three important functions to any organisation in general. They are (1) Manufacturing (2) Office and Administration and (3) Selling and Distribution. Accordingly, Cost is ascertained for these functions.

- 1. Manufacturing Costs** : Manufacturing costs is a total of all direct (or) variable costs of manufacture and manufacturing overheads. So, it is an aggregate of direct material, direct labour, direct expenses and some indirect costs (Manufacturing overheads)
- 2. Office/Administration Cost** : It is cost of formulating a policy, directing the organisation and controlling the operations of an undertaking which is not directly related to production, selling, distribution, research or development. Thus, it includes all office expenses, remuneration paid to managers, directors, legal expenses, depreciation of office premises.

- 3. Selling and Distribution costs :** It is the cost of seeking and stimulating demand and the cost of dispatching and delivering products. Eg. Advertisement expenses, sales promotion expenses, warehouse rent, loading expenses etc.

#### 12.3.4 Cost Classification by Controllability :

Cost Classification can also be made based on controllability. There can be two types of costs.

**Controllable Costs :** It is a cost which can be controlled by the business actions. Eg. Direct material, Direct labour etc.

**Uncontrollable Costs :** These costs are not available for control. It means that we are not able to control them by means of human action. Eg., Fixed Costs like : Rent, Insurance etc.

#### 12.3.5 Cost Classification by Elements and Nature of Cost :

Broadly, elements of costs are three. They are : Materials, labour and expenses. Further, each of these can be divided into direct and indirect costs based on the nature of cost. Material Cost is divided into direct material cost and indirect material cost.

- 1. Direct Material Cost :** It is any material cost which is directly assignable or chargeable to a product/a cost center/cost unit.
- 2. Indirect Material Cost :** As in the case of direct material cost, it is not chargeable/assignable directly to a product or a cost center but charged separately. Ex. Oil, grease, printing.
- 3. Direct labour Cost :** Any assignable and chargeable labour cost to a product/service/cost centre is called Direct labour cost. Eg. Wages paid to Mr.A and Mr. B on a product XYZ.
- 4. Indirect Labour Cost :** It is any labour cost not directly chargeable to product but charged separately. Eg. Store keepers, inspectors, time booking, time keeping offices etc.

5. **Direct Expenses** : These are also direct but they are over and above direct material and direct labour costs. Chargeable or assignable to a product/service/cost centre. Eg. Cost of special experiment, machinery, drawings etc. for a specific product.
6. **Indirect Expenses** : These are all indirect expenses which may include anything over and above indirect material and indirect labour. Eg. Rent, Taxes etc.
7. **Direct Costs** : It is any cost that is directly chargeable to a product/cost centres.
8. **Indirect costs** : It is any cost to be charged to the product but not chargeable/assignable directly to a product.

#### Overheads :

This is a concept which tells that it is another general word used to signify all indirect cost in the organisation. So, Overhead is an aggregate of all indirect costs. It includes all indirect materials, indirect labour and indirect expenses. This overhead can be classified again on the basis of functions seen earlier. Thus, there may be manufacturing overheads, office overheads and selling distribution overheads.

## 12.4 COMPONENTS OF TOTAL COST

Total Cost is the sum of all costs associated with a particular unit, or process or department or batch or the entire concern. It comprises of cost of production, and selling and distribution expenses. It is also called 'Cost of Sales'. It includes (1) Prime cost (2) Factory cost (3) Office Cost (4) Cost of Sales.

#### Components of Total Cost

|  |                     |
|--|---------------------|
| Direct Materials<br>Direct Labour<br>Direct Expenses | <b>Prime Cost</b>   |
| Prime Cost<br>+Factory overheads                     | <b>Factory Cost</b> |
| Factory Cost<br>+ Office Overheads                   | <b>Office Cost</b>  |

|   |                   |
|---|-------------------|
| Office Cost<br>+ Selling and Distribution overheads | <b>Total Cost</b> |
| Total Cost<br>+ Profit/Loss                         | <b>Sales</b>      |

Let us know explain the above chart starting with prime cost.

- 1. Prime Cost :** It consists of costs as direct material, direct labour, and direct expenses. It is also known as basic, first or flat cost
- 2. Factory Cost :** It comprises prime cost, in addition, works or factory overheads which include costs of indirect material, indirect labour and indirect factory expenses. This cost is also known as works cost, production or manufacturing cost.
- 3. Office Cost :** It comprises of factory cost and office and administration overheads. This is also termed as total cost of production.
- 4. Total Cost :** It comprises of cost of production and selling and distribution overheads. It also termed as Cost of sales.

#### 12.4.1. Items to be included under various overheads :

##### A. Factory Overheads :

|  |  |
|--|--|
| 1. Factory rent, Insurance, Taxes                | 11. Consumable Stores                  |
| 2. Depreciation on Plant & machinery             | 12. Cotton, Waste, Greece              |
| 3. Cost of Fuel and Coal                         | 13. Workmen Compensation               |
| 4. Gas, Electricity, Steam                       | 14. Normal Wastage of Materials        |
| 5. Salaries of works manager                     | 15. R & D. Expenses                    |
| 6. Repairs and Depreciation on Factory Buildings | 16. Normal Idle Time                   |
| 7. Canteen and Recreation Expenses               | 17. Factory Lighting, heating          |
| 8. Workers Recruitment and Training              | 18. Internal transport, watch and ward |



|                             |                                 |
|-----------------------------|---------------------------------|
| expenses                    |                                 |
| 9. Drawing, Office expenses | 19. Stores maintenance expenses |
| 10. Purchase Dept. Expenses | 20. Service Dept. Expenses      |

**B. Office Overheads :**

|  |   |
|--|---|
| 1. Office Salaries                           | 7. Subscription to trade association        |
| 2. Counting Office salaries                  | 8. Office Lighting & Heating                |
| 3. Rent, Depreciation of Office buildings    | 9. Bank expenses, Subscriptions to journals |
| 4. Repairs, depreciation on Office furniture | 10. General Manager's salary                |
| 5. Office Stationery, Postage, Telephone     | 11. Directors fees                          |
| 6. Audit fees, legal expenses                | 12. Depreciation on accounting machinery    |

**C. Selling & Distribution Overheads :**

|  |                              |
|--|------------------------------|
| 1. Advertisement expenses              | 9. Delivery van repairs      |
| 2. Sales staff salaries, commission    | 10. Sales branch expenses    |
| 3. Sales representative expenses       | 11. M.T.s Repairs            |
| 4. Samples, Catalogues                 | 12. Special packing expenses |
| 5. After sales services                | 13. Stock loss on transport  |
| 6. Showroom rent and lighting          | 14. Demonstration expenses   |
| 7. Warehouse insurance, staff salaries | 15. Discount to consumers    |
| 8. Loss on stock in warehouse          | 16. Sales Office expenses    |

**12.4.2 Items excluded from Cost Sheet :**

The total cost of a product should include only those items of expenses which are a charge against profit. Items of expenses, which are relating to capital assets, capital losses, payments by way of distribution of profits are matters of pure finance. They should not form a part of the costs. The following are the examples of such expenses.

|                                       |  |
|---------------------------------------|--|
| 1. Expenses on acquisition of capital | 9. Goodwill                                |
| 2. Dividends on capital               | 10. Income tax                             |
| 3. Abnormal Wastage of materials      | 11. Charities                              |
| 4. Discount on Debentures             | 12. Donations, staff pension fund          |
| 5. Underwriting commission            | 13. Transfer of reserves                   |
| 6. Preliminary expenses               | 14. Capital losses                         |
| 7. Cost of abnormal idle time         | 15. Rent, interest and commission received |
| 8. Fines and penalties                | 16. Compensation                           |

## 12.5 COST SHEET

Cost Sheet is a statement presenting the items entering into cost of products or services. It shows the total cost components by stages and cost per unit of output during a period. It is usually prepared to meet three objectives : to prepare estimates of costs for future use; to facilitate a comparative study of costs with previous cost sheets; and to know the cost trends.

| Particulars  | Total Cost<br>Rs. | Cost per unit<br>Rs. |
|--|-------------------|----------------------|
| <b>Direct Materials</b>  |                   |                      |
| Opening Stock of Materials   | X x x             |                      |
| <b>Add : Purchase of Materials</b>   | X x x             |                      |
|  | X x x             |                      |
| <b>Less : Closing stock of materials</b>   | X x x             |                      |
| Direct wages   |                   | X x x                |
| Direct expenses  |                   | X x x                |
| <b>Prime Cost</b>  |                   | X x x                |
| <b>Add : Factory Overheads</b>   |                   |                      |
| Factory rent, rates, taxes   | X x x             |                      |
|  |                   |                      |
|  |                   |                      |
| Fuel, power and water  | X x x             |                      |
| Lighting and heating   | X x x             |                      |
| Indirect wages   | X x x             |                      |
| Depreciation, repairs  | X x x             |                      |
| Salaries of works manager  | X x x             |                      |
| Indirect materials   | X x x             |                      |
| Drawing office and works office expenses   | X x x             |                      |
| Depreciation on Factory building   | X x x             | X x x                |
| <b>Works Cost/Factory Cost</b>   |                   | <b>X x x</b>         |
|  |                   |                      |
| <b>Add : Office Administration overheads</b>   |                   |                      |
| Office rent, insurance lighting  | X x x             |                      |
| Office salaries, telephone   | X x x             |                      |
| Law and audit expenses   | X x x             |                      |
| Director's remuneration  | X x x             |                      |
| General Manager's salary   | X x x             |                      |
| Printing and stationery  | X x x             |                      |
| Maintenance repairs  | X x x             |                      |
| Bank charges   | X x x             |                      |
| Miscellaneous expenses   | X x x             | X x x                |
| <b>Cost of Production</b>  |                   | <b>X x x</b>         |
| <b>Add : Opening stock of finished goods</b>   | X x x             |                      |
| <b>Less : Closing stock of finished goods</b>  | X x x             |                      |
| <b>Cost of goods sold</b>  |                   | <b>X x x</b>         |
| <b>Add : Selling and Distribution Overheads</b>  | X x x             | X x x                |
| Show room expenses, salesmen's salaries & Commission, warehouse rent, carriage outwards, advertising, delivery expenses, samples and free gifts etc. |                   |                      |

|  |              |              |
|--|--------------|--------------|
| <b>Cost of Sales</b>                         | X x x        | X x x        |
| <b>Add : Net profit (or deduct net loss)</b> | X x x        | X x x        |
| <b>Sales</b>                                 | <b>X x x</b> | <b>X x x</b> |

**Illu.1 : From the books of accounts of M/s Aryan Enterprises, the following details have been extracted for the year ending March 31<sup>st</sup>, 2006.**

|  | Rs.             |
|--|-----------------|
| <b>Stock of Materials :</b>                |                 |
| <b>Opening Stock</b>                       | <b>1,88,000</b> |
| <b>Closing Stock</b>                       | <b>2,00,000</b> |
| <b>Materials purchased during the year</b> | <b>8,32,000</b> |
| <b>Direct wages paid</b>                   | <b>2,38,400</b> |
| <b>Indirect wages</b>                      | <b>16,000</b>   |
| <b>Salaries to Administrative staff</b>    | <b>40,000</b>   |
| <b>Freights :</b>                          |                 |
| <b>Inward</b>                              | <b>32,000</b>   |
| <b>Outward</b>                             | <b>20,000</b>   |
| <b>Cash discount allowed</b>               | <b>14,000</b>   |
| <b>Bad debts written off</b>               | <b>18,800</b>   |
| <b>Repairs to Plant &amp; Machinery</b>    | <b>42,400</b>   |
| <b>Rent, Rates and Taxes – Factory</b>     | <b>12,000</b>   |
| <b>Office</b>                              | <b>6,400</b>    |
| <b>Travelling expenses</b>                 | <b>12,400</b>   |
| <b>Salesmen’s salaries and commission</b>  | <b>33,600</b>   |
| <b>Depreciation written off</b>            |                 |
| <b>Plant &amp; Machinery</b>               | <b>28,400</b>   |
| <b>Furniture</b>                           | <b>2,400</b>    |
| <b>Directors’ fees</b>                     | <b>24,000</b>   |
| <b>Electricity charges (factory)</b>       | <b>48,000</b>   |
| <b>Fuel (for boiler)</b>                   | <b>64,000</b>   |
| <b>General charges</b>                     | <b>24,800</b>   |

|                         |               |
|-------------------------|---------------|
| <b>Manager's salary</b> | <b>48,000</b> |
|-------------------------|---------------|

The Manager's time is shared between the factory and the office in the ratio of 20:80. From the above details you are required to prepare (a) Prime Cost (b) Factory Overheads (c) Factory Cost (d) General Overheads and (e) Total Cost.

**Solution :**

**M/s Aryan Enterprises**  
**Cost sheet for the year ending 31-3-2006**

|                                    | Rs.       | Rs.              |
|------------------------------------|-----------|------------------|
| <b>Direct Material Consumed</b>    |           |                  |
| Opening Stock                      | 1,88,000  |                  |
| Add : Purchases                    | 8,32,000  |                  |
|                                    | 10,20,000 |                  |
| Add : Freight inward               | 32,000    |                  |
|                                    | 10,52,000 |                  |
| Less : Closing stock               | 2,00,000  | 8,52,000         |
| Direct wages                       |           | 2,38,400         |
| <b>Prime Cost (a)</b>              |           | <b>10,90,400</b> |
| <b>Factory Overheads (b)</b>       |           |                  |
| Indirect wages                     | 16,000    |                  |
| Repairs to plant & machinery       | 42,400    |                  |
| Rent, Rates and Taxes – factory    | 12,000    |                  |
| Depreciation – Plant and Machinery | 28,400    |                  |
| Electricity charges                | 48,000    |                  |
| Fuel                               | 64,000    |                  |
| Manager's salary (Rs.48,000 x 20%) | 9,600     | 2,20,400         |
| <b>Factory Cost ©</b>              |           | <b>13,10,800</b> |
| <b>General Overheads (d)</b>       |           |                  |

|                                    |        |                  |
|------------------------------------|--------|------------------|
| Salaries to Administrative staff   | 40,000 |                  |
| Freight outward                    | 20,000 |                  |
| Rent, rates and Taxes – Office     | 6,400  |                  |
| Travelling                         | 12,400 |                  |
| Salesmen's salaries and Commission | 33,600 |                  |
| Depreciation – Furniture           | 2,400  |                  |
| Bad debts                          | 18,800 |                  |
| Director's fees                    | 24,000 |                  |
| General charges                    | 24,800 |                  |
| Manager's salary (Rs.48,000 x 80%) | 38,400 | 2,20,800         |
| <b>Total Cost (E)</b>              |        | <b>15,31,600</b> |

**Notes :**

1. Cash discount, being a financial item, has been excluded from cost accounts. However, normal bad debts are taken as a part of selling overheads and therefore, have been included in costs.
2. General overheads include all overheads other than factory overheads.

**Illu.2 : The following data have been extracted from the books of M/s Lanco Industries Ltd., for the calendar year, 2007.**

|                                      | Rs.           |
|--------------------------------------|---------------|
| <b>Opening stock of Raw material</b> | <b>25,000</b> |
| <b>Purchases of Raw Material</b>     | <b>85,000</b> |
| <b>Closing stock of Raw Material</b> | <b>40,000</b> |
| <b>Carriage inward</b>               | <b>5,000</b>  |
| <b>Wages – Direct</b>                | <b>75,000</b> |
| <b>Indirect</b>                      | <b>10,000</b> |
| <b>Other Dividend charges</b>        | <b>15,000</b> |
| <b>Rent and Rates – Factory</b>      | <b>5,000</b>  |
| <b>Office</b>                        | <b>500</b>    |

|                                  |          |
|----------------------------------|----------|
| Indirect consumption of material | 500      |
| Depreciation – Plant etc.        | 1,500    |
| Office Furniture                 | 100      |
| Salary – Office                  | 2,500    |
| Salesman                         | 2,000    |
| Other factory expenses           | 5,700    |
| Other office expenses            | 900      |
| Managing Director's Remuneration | 12,000   |
| Other selling expenses           | 1,000    |
| Travelling expenses of salesman  | 1,100    |
| Carriage and Freight outward     | 1,000    |
| Sales                            | 2,50,000 |
| Advance income tax paid          | 15,000   |
| Advertisement                    | 2,000    |

Managing Director's remuneration is to be allocated, Rs.4,000 to factory Rs.2,000 to the Office and Rs.6,000 to selling depts. From the above information prepare (a) Prime Cost (b) Works cost (c) Cost of production (d) Cost of Sales (e) Net profit.

Solution :

**M/s Lanco Industries Limited**  
**Statement of Cost and Profit for the year 2006**

|                          | Rs.      | Rs.    |
|--------------------------|----------|--------|
| <b>Material consumed</b> |          |        |
| Opening Stock            | 25,000   |        |
| Add : Purchases          | 85,000   |        |
| Add : Carriage inward    | 5,000    |        |
|                          | 1,15,000 |        |
| Less : Closing stock     | 40,000   | 75,000 |

|  |        |                 |
|--|--------|-----------------|
| Wages  |        | 75,000          |
| Other Direct wages                           |        | 15,000          |
| <b>Prime Cost</b>                            |        | <b>1,65,000</b> |
| Factory Expenses                             |        |                 |
| Indirect wages                               | 10,000 |                 |
| Rent and Rates                               | 5,000  |                 |
| Indirect material                            | 500    |                 |
| Depreciation of Plant                        | 1,500  |                 |
| Other factory expenses                       | 5,700  |                 |
| Managing Director's Remuneration             | 4,000  | 26,700          |
| <b>Factory Cost</b>                          |        | <b>1,91,700</b> |
| <b>Office and Administrative Expenses</b>    |        |                 |
| Rent and Rates                               | 500    |                 |
| Depreciation on Office Furniture             | 100    |                 |
| Salary                                       | 2,500  |                 |
| Other Office expenses                        | 900    |                 |
| Managing Director's Remuneration             | 2,000  | 6,000           |
| Cost of Production                           |        | 1,97,700        |
| <b>Selling &amp; Distribution Expenses :</b> |        |                 |
| Salary – Salesmen                            | 2,000  |                 |
| Managing Director's remuneration             | 6,000  |                 |
| Other selling expenses                       | 1,000  |                 |
| Advertisement                                | 2,000  |                 |
| Travelling expenses                          | 1,100  |                 |
| Carriage and freight outward                 | 1,000  | 13,100          |
| <b>Cost of sales</b>                         |        | <b>2,10,800</b> |
| Profit                                       |        | 39,200          |
| <b>Sales</b>                                 |        | <b>2,50,000</b> |

Note : Income tax is not included as it is not a cost.



**Illu.3 : From the following particulars, prepare a cost sheet showing the components of total cost and the profit for the year ended 31-12-2007:**

|                                   | On 1-1-2007<br>Rs. | On 31-12-2007<br>(Rs.) |
|-----------------------------------|--------------------|------------------------|
| Stock of raw materials            | 80,000             | 1,00,000               |
| Work – in – progress              | 30,000             | 20,000                 |
| Stock of finished goods           | 12,000             | 30,000                 |
| Purchase of raw materials         |                    | 9,50,000               |
| Carriage inwards                  |                    | 25,000                 |
| Wages                             |                    | 3,50,000               |
| Works manager's salary            |                    | 60,000                 |
| Factory employees salary          |                    | 1,20,000               |
| Power expenses                    |                    | 19,000                 |
| Factory rent, taxes and insurance |                    | 14,500                 |
| Other production expenses         |                    | 85,000                 |
| General expenses                  |                    | 65,000                 |
| Sales for the year                |                    | 17,20,000              |
| Income tax                        |                    | 5,500                  |
| Dividend                          |                    | 1,000                  |
| Debenture interest                |                    | 5,000                  |
| Goodwill                          |                    | 10,000                 |
| Payment of Sales tax              |                    | 16,000                 |

**Solution :**

**Cost Sheet for the year ended 31-12-2007**

|                                    | Rs.      | Rs. |
|------------------------------------|----------|-----|
| Opening Stock of material          | 80,000   |     |
| <b>Add:</b> Purchases of materials | 9,50,000 |     |
| Carriage inwards                   | 25,000   |     |

|              |  |                  |                  |
|--------------|--|------------------|------------------|
|              |  | <b>10,55,000</b> |                  |
| <b>Less:</b> | Closing stock of materials                     | 1,00,000         |                  |
|              | Direct materials consumed                      |                  | 9,55,000         |
|              | Direct wages                                   |                  | 3,50,000         |
|              | <b>Prime cost</b>                              |                  | <b>13,05,000</b> |
|              | <b>Factory Overheads:</b>                      |                  |                  |
|              | Works manager's salary                         | 60,000           |                  |
|              | Factory employee's salaries                    | 1,20,000         |                  |
|              | Power expenses                                 | 19,000           |                  |
|              | Factory rent, taxes, insurance                 | 14,500           |                  |
|              | Other production expenses                      | 85,000           | 2,98,500         |
|              |  |                  | <b>16,03,500</b> |
| <b>Add:</b>  | Opening work-in-progress                       |                  | 30,000           |
|              |  |                  | <b>16,33,500</b> |
| <b>Less:</b> | Closing work-in-progress                       |                  | 20,000           |
|              | <b>Factory cost</b>                            |                  | <b>16,13,500</b> |
|              | <b>Office &amp; Administrative Overheads :</b> |                  |                  |
|              | General expenses                               | 65,000           | 65,000           |
|              | <b>Cost of production</b>                      |                  | <b>16,78,500</b> |
| <b>Add:</b>  | Opening finished goods                         |                  | 12,000           |
|              |  |                  | <b>16,90,500</b> |
| <b>Less:</b> | Closing finished goods cost of goods sold      |                  | 30,000           |
|              |  |                  | <b>16,60,500</b> |
|              | <b>Selling &amp; Distribution overheads :</b>  |                  |                  |
|              | Nil  |                  | -                |
|              | Cost of sales                                  |                  | <b>16,60,500</b> |
|              | Net profit                                     |                  | 59,500           |
|              | <b>Sales</b>                                   |                  | <b>17,20,000</b> |

**Note :** Income tax, dividend, debenture, interest, goodwill and payment of sales tax are all financial items which totally excluded from cost accountancy.

**Illu.4 : Tirupathi Electronics Ltd., produces a standard product and provides you the following information for the year ending 31<sup>st</sup> March 2005 :**

|                           | Rs.                  |
|---------------------------|----------------------|
| <b>Raw Materials :</b>    |                      |
| Opening stock             | 10,000               |
| Purchases                 | 85,000               |
| Closing stock             | 4,000                |
| Direct wages              | 20,000               |
| Other direct expenses     | 10,000               |
| Factory overheads         | 100% of direct wages |
| Office overheads          | 100% of works cost   |
| Selling expenses          | Rs.2 per unit sold   |
| <b>Finished goods :</b>   |                      |
| Opening stock 1,000 units | (-) 16,000           |
| Produced during the year  | 10,000 units         |
| Closing stock             | 2,000 units          |

Prepare Cost sheet for the year ending 31<sup>st</sup> March 2005. Also ascertain the selling price per unit so as to yield a profit of 20% on the selling price.

**Solution :**

**Cost Sheet for the year ended 31-3-2005**

| Particulars                             | Rs.           | Rs.    |
|---|---------------|--------|
| Opening stock of materials              | 10,000        |        |
| <b>Add:</b> Purchases of materials      | 85,000        |        |
|   | <b>95,000</b> |        |
| <b>Less:</b> Closing stock of materials | 4,000         |        |
| Direct materials consumed               |               | 91,000 |
| Direct wages                            |               | 20,000 |
| Other direct expenses                   |               | -      |

|   |  |                 |
|---|--|-----------------|
| <b>Prime Cost</b>   |  | <b>1,11,000</b> |
| Factory Overheads :   |  |                 |
| 100% of direct wages (20,000 x 100/100)   |  | 20,000          |
| <b>Factory cost</b>   |  | <b>1,41,000</b> |
| Office overheads :  |  |                 |
| 10% of Factory cost (1,41,000 x 10/100)   |  | 14,100          |
| <b>Cost of production (10,000 units)</b>  |  | <b>1,55,100</b> |
| <b>Add:</b> Opening finished stock (1000 units)                                 |  | 16,000          |
|   |  | <b>1,71,100</b> |
| <b>Less:</b> Closing finished stock (2000 units)<br>(1,55,100 / 10,000 x 2,000) |  | 31,020          |
| <b>Cost of goods sold</b>   |  | <b>1,40,080</b> |
| Selling overheads (10,000 + 1,000 - 2,000 =<br>9000 units @ 2/- per unit)       |  | 18,000          |
| <b>Cost of sales</b>  |  | <b>1,58,080</b> |
| <b>Add:</b> Profit (1,58,080 x 20 / 80)   |  | 39,520          |
| <b>Sales</b>  |  | <b>1,97,600</b> |

$$\text{Selling Price Per unit} = \frac{1,97,600}{9,000} = 21.96$$

**Illu.5 : From the following particulars, you are required to prepare a cost sheet.**

|   | Rs.              |
|---|------------------|
| <b>Stock of finished goods 31-12-2006</b> | <b>72,800</b>    |
| <b>Stock of raw materials 31-12-2006</b>  | <b>33,280</b>    |
| <b>Purchase of raw materials</b>          | <b>7,59,200</b>  |
| <b>Productive wages</b>                   | <b>5,16,880</b>  |
| <b>Sales</b>                              | <b>15,39,200</b> |
| <b>Stock of finished goods 31-12-2007</b> | <b>78,000</b>    |

|  |                 |
|--|-----------------|
| <b>Stock of raw materials 31-12-2007</b> | <b>35,360</b>   |
| <b>Works overhead charges</b>            | <b>1,29,220</b> |
| <b>Office overheads</b>                  | <b>70,000</b>   |

The company is intending to send a quotation for a large plant. The estimated material cost is Rs.52,000, Wages Rs.30,000. The quotation is to make a profit of 20% on selling price. Show what the amount of the quotation would be, if based on the above percentage.

### Solution :

#### Cost Sheet for the year ended 31-12-2007

| Particulars                             | Rs.             | Rs.              |
|---|-----------------|------------------|
| Opening stock materials                 | 33,280          |                  |
| <b>Add:</b> Purchases of materials      | 7,59,200        |                  |
|   | <b>7,92,480</b> |                  |
| <b>Less:</b> Closing stock of materials | 35,360          |                  |
| Direct materials consumed               |                 | 7,57,120         |
| Direct wages                            |                 | 5,16,880         |
| Prime cost                              |                 | <b>12,74,000</b> |
| Works overheads charges                 |                 | 1,29,220         |
| Works cost                              |                 | <b>14,03,220</b> |
| Office and general overhead             |                 | 70,000           |
| Total Cost                              |                 | <b>14,73,220</b> |
| Net profit                              |                 | 65,980           |
| Sales                                   |                 | <b>15,39,200</b> |

(a) Cost of materials consumed = Rs.7,57,120

(b) Prime cost = Rs.12,74,000

(c) Works cost = Rs.14,03,220

(d) Total cost = Rs.14,73,381

(e) Percentage of works overhead over productive wages :

$$\frac{1,29,220}{5,16,880} \times 100 = 25\%$$

(f) Percentage of general overhead over works cost :

$$\frac{70,000}{14,03,220} \times 100 = 5\% \text{ (Approximately)}$$

### Tender

|                                       | Rs.    | Rs.             |
|---------------------------------------|--------|-----------------|
| Direct materials                      | 52,000 |                 |
| Direct wages                          | 31,200 |                 |
| Prime Cost                            |        | 83,200          |
| Works overheads (Rs.31,200 x 25/100)  |        | 7,800           |
| Works cost                            |        | <b>91,000</b>   |
| General overheads (Rs.91,000 x 5/100) |        | 4,550           |
| Total cost                            |        | <b>95,550</b>   |
| Net Profit (Rs.95,550 x 20/80)        |        | 23,888          |
| Selling price                         |        | <b>1,19,438</b> |

**Illu.6 : From the following particulars prepare cost sheet, percentage of works overhead to productive wages, percentage of general overhead to works cost and the percentage of net profit on sales.**

**Sales Rs.12,00,000, works overhead Rs.75,000, Stock of materials on 1<sup>st</sup> July 2005 Rs.20,000, Stock of finished goods on 31<sup>st</sup> July 2005 Rs.30,000, Purchases Rs.5,50,000, Office expenses Rs.50,000, stock of finished goods 31<sup>st</sup> July 2005 Rs.25,000, productive wages Rs.2,50,000, stock of materials on 31<sup>st</sup> July 2005 Rs.70,000, work in progress 1<sup>st</sup> July 2005 Rs.10,000; work in progress on 31<sup>st</sup> July 2005 Rs.25,000.**

**Solution :****Cost Sheet for the month of July 2005**

| Particulars                                    |                            | Rs.             | Rs.              |
|--|----------------------------|-----------------|------------------|
| Opening stock of materials                     |                            | 20,000          |                  |
| <b>Add:</b>                                    | Purchases of materials     | 5,50,000        |                  |
|  |                            | <b>5,70,000</b> |                  |
| <b>Less:</b>                                   | Closing stock of materials | 70,000          |                  |
| Direct materials consumed                      |                            |                 | 5,00,000         |
| Direct wages                                   |                            |                 | 2,50,000         |
| Prime Cost                                     |                            |                 | <b>7,50,000</b>  |
| <b>Works overheads :</b>                       |                            |                 |                  |
| Works over head expenses                       |                            | 75,000          | 75,000           |
|  |                            |                 | <b>8,25,000</b>  |
| <b>Add :</b>                                   | Opening work in progress   |                 | 10,000           |
|  |                            |                 | <b>8,35,000</b>  |
| <b>Less:</b>                                   | Closing work in progress   |                 | 25,000           |
| Works cost                                     |                            |                 | <b>8,10,000</b>  |
| <b>Office &amp; Administrative overheads :</b> |                            |                 |                  |
| Office Expenses                                |                            | 50,000          | 50,000           |
| Cost of production                             |                            |                 | <b>8,60,000</b>  |
| <b>Add:</b>                                    | Opening finished goods     |                 | 25,000           |
|  |                            |                 | <b>8,85,000</b>  |
| <b>Less:</b>                                   | Closing finished goods     |                 | 30,000           |
| Cost of goods sold                             |                            |                 | <b>8,55,000</b>  |
| <b>Selling and distribution overheads :</b>    |                            |                 |                  |
| NIL  |                            | -               | -                |
| Cost of Sales                                  |                            |                 | <b>8,55,000</b>  |
| Net profit                                     |                            |                 | 3,45,000         |
| Sales  |                            |                 | <b>12,00,000</b> |

**Percentage of works overheads to production wages :**

$$= 75,000 / 2,50,000 \times 100 = 30\%$$

**Percentage of general overheads to works cost :**

$$= 50,000 / 8,10,000 \times 1.00 = 6\% \text{ (Approximately)}$$

**Percentage of net Profits to Sales :**

$$= 3,45,000 / 12,00,000 \times 100 = 28.75\%$$

**Illu.7 : From the given particulars prepare cost sheet and find out profit :**

|                            | Rs.           |
|----------------------------|---------------|
| <b>Direct materials</b>    | <b>20,000</b> |
| <b>Direct labour</b>       | <b>12,000</b> |
| <b>Chargeable expenses</b> | <b>1,000</b>  |

**Works overhead is 50% of prime cost and office overhead is 10% of works cost. 25% of profit on selling price is expected.**

**Solution :**

**Cost Sheet**

|  | Rs.    | Rs.           |
|--|--------|---------------|
| Direct material                          | 20,000 |               |
| Direct labour                            | 12,000 |               |
| Chargeable expenses                      | 1,000  |               |
| <b>Prime cost</b>                        |        | <b>33,000</b> |
| Works overheads -                        |        |               |
| @ 50% of prime cost (33,000 x 50/100)    |        | 16,500        |
| <b>Works cost</b>                        |        | <b>49,500</b> |
| Office overheads -                       |        |               |
| @ 10% of works cost (49,500 x 10/100)    |        | 4,950         |
| <b>Cost of production</b>                |        | <b>54,450</b> |
| Profit -                                 |        |               |
| @ 25% on selling price (54,450 x 25/ 75) |        | 18,150        |



|               |  |               |
|---------------|--|---------------|
| Selling price |  | <b>72,600</b> |
|---------------|--|---------------|

**Illu.8 : From the following particulars prepare cost sheet and show what the amount of the quotation would be if 20% on selling price.**

|  | Rs.       |
|--|-----------|
| Stock of finished goods at the beginning | 70,000    |
| Stock of raw materials at the beginning  | 30,000    |
| Purchase and raw materials               | 7,50,000  |
| Productive wages                         | 5,20,000  |
| Sales                                    | 15,50,000 |
| Stock of finished goods at the end       | 80,000    |
| Stock of raw materials at the end        | 30,000    |
| Works overhead charge                    | 1,30,000  |
| Office overheads                         | 70,000    |

The company is intending to send a quotation for a large plant. The estimated material cost is Rs.50,000, wages Rs.30,000.

**Solution :**

#### Cost Sheet

| Particulars                             | Rs.             | Rs.              |
|---|-----------------|------------------|
| Opening stock of materials              | 30,000          |                  |
| <b>Add:</b> Purchases of materials      | 7,50,000        |                  |
|   | <b>7,80,000</b> |                  |
| <b>Less:</b> Closing stock of materials | 30,000          |                  |
| Direct materials consumed               |                 | 7,50,000         |
| Productive or direct wages              |                 | 5,20,000         |
| Prime cost                              |                 | <b>12,70,000</b> |
| Works overheads charges                 |                 | 1,30,000         |
| Works cost                              |                 | <b>14,00,000</b> |

|  |  |                  |
|--|--|------------------|
| Office overheads                             |  | 70,000           |
| Cost of production                           |  | <b>14,70,000</b> |
| <b>Add:</b> Opening stock of finished goods  |  | 70,000           |
|  |  | <b>15,40,000</b> |
| <b>Less:</b> Closing stock of finished goods |  | 80,000           |
| Cost of goods sold / cost of sales           |  | <b>14,60,000</b> |
| Net profit                                   |  | 90,000           |
| Sales  |  | <b>15,50,000</b> |

### Quotation for a large plant (Tender)

|  | Rs.    | Rs.             |
|--|--------|-----------------|
| Direct material  | 50,000 |                 |
| Direct wages   | 30,000 |                 |
| Prime cost   |        | 80,000          |
| Works overheads  |        |                 |
| Percentage on direct wages $1,30,000 / 5,20,000 \times 100$<br>$= 25\% = 30,000 \times 25/100$ |        | 7,500           |
| Works cost   |        | <b>87,500</b>   |
| Office overheads :   |        |                 |
| Percentage on works cost<br>$70,000 / 14,00,000 \times 100 = 5\% = 87,500 \times 5/100$        |        | 4,375           |
| Cost of production / Total cost  |        | <b>91,875</b>   |
| <b>Add:</b> Profit $(91,875 \times 20/ 80)$  |        | 22,969          |
| <b>Quotation</b>   |        | <b>1,14,844</b> |

**Illu.9 :Following figures relate to the manufacture of fans for three months ending 31<sup>st</sup> March 2006 :**

|   |     |
|---|-----|
|   | Rs. |
| Completed stock on 1 <sup>st</sup> January 2006 | NIL |

|  |          |
|--|----------|
| Completed stock on 31 <sup>st</sup> March 2006         | 20,250   |
| Stock of raw materials on 1 <sup>st</sup> January 2006 | 5,000    |
| Stock of raw materials on 31 <sup>st</sup> March 2006  | 3,500    |
| Factory wages  | 75,000   |
| Indirect charges                                       | 12,500   |
| Materials purchased                                    | 32,500   |
| Sales  | 1,12,500 |

The number of fans manufactured during those 3 months was 3,000. Prepare a statement showing the cost per fan and price to be quoted for 750 fans to realise the same percentage of profits as was realized during the said period, assuming same conditions.

**Solution :**

**Cost sheet of 3000 fans  
for the three months period ended 31<sup>st</sup> March 2006**

|  | Rs.           | Rs.             |
|--|---------------|-----------------|
| Opening stock of materials               | 5,000         |                 |
| <b>Add:</b> Material purchases           | 32,500        |                 |
|  | <b>37,500</b> |                 |
| <b>Less:</b> Closing stock of materials  | 3,500         |                 |
| Direct materials consumed                |               | 34,000          |
| Direct wages (factory wages)             |               | 75,000          |
| <b>Prime cost</b>                        |               | <b>1,09,000</b> |
| Overheads (Indirect charges)             |               | 12,500          |
| <b>Total Cost</b>                        |               | <b>1,21,500</b> |
| <b>Add:</b> Opening finished stock – nil |               | -               |
|  |               | <b>1,21,500</b> |
| <b>Less:</b> Closing finished stock      |               | 20,250          |
| <b>Cost of Sales</b>                     |               | <b>1,01,250</b> |

|              |  |                 |
|--------------|--|-----------------|
| Net profit   |  | 11,250          |
| <b>Sales</b> |  | <b>1,12,500</b> |

$$\text{Percentage of Profit on sales} = \frac{11,250}{1,12,500} \times 100 = 10\%$$

#### Statement showing Price for 750 fans and cost per fan

|                        | Total cost    | Cost per fan |
|------------------------|---------------|--------------|
| Direct Material :      |               |              |
| = 34,000 / 3,000 x 750 | 8,500         |              |
| = 8,500 / 750          |               | 11.33        |
| Direct wages :         |               |              |
| = 75,000 / 3,000 x 750 | 18,750        |              |
| = 18,750 / 750         |               | 25.00        |
| <b>Prime cost</b>      | <b>27,250</b> | <b>36.33</b> |
| Overheads :            |               |              |
| = 12,500 / 3,000 x 750 | 3,125         |              |
| = 3,125 / 750          |               | 4.17         |
| <b>Total cost</b>      | <b>30,375</b> | <b>40.50</b> |
| <b>Add: Net profit</b> |               |              |
| = 30,375 x 10/ 90      | 3,375         |              |
| = 3,375 / 750          |               | 4.50         |
| <b>Quotation</b>       | <b>33,750</b> | <b>45.00</b> |

**Illu.10 : Prepare cost sheet showing the different elements of cost from the following information :**

| Opening Balances     | Rs.    | Closing Balances     | Rs.    |
|----------------------|--------|----------------------|--------|
| Raw materials        | 25,000 | Raw materials        | 40,000 |
| Work – in - progress | 1,000  | Work – in – progress | 500    |
| Finished goods       | 2,000  | Finished goods       | 1,000  |

|                               |                 |                               |               |
|-------------------------------|-----------------|-------------------------------|---------------|
| <b>Purchase of materials</b>  | <b>85,000</b>   | <b>Carriage in</b>            | <b>5,000</b>  |
| <b>Direct wages</b>           | <b>75,000</b>   | <b>Indirect wages</b>         | <b>10,000</b> |
| <b>Direct charges</b>         | <b>15,000</b>   | <b>Rent and rates :</b>       |               |
| <b>Indirect materials</b>     | <b>500</b>      | <b>Factory</b>                | <b>5,000</b>  |
| <b>Other factory expenses</b> | <b>5,700</b>    | <b>Office</b>                 | <b>500</b>    |
| <b>Prepaid income tax</b>     | <b>15,000</b>   | <b>Depreciation :</b>         |               |
| <b>Salaries :</b>             |                 | <b>Plant and Machinery</b>    | <b>1,500</b>  |
| <b>Office</b>                 | <b>2,500</b>    | <b>Furniture</b>              | <b>100</b>    |
| <b>Godown</b>                 | <b>2,000</b>    | <b>Manager's Remuneration</b> | <b>12,000</b> |
| <b>Other office expenses</b>  | <b>900</b>      | <b>Advertisement</b>          | <b>2,000</b>  |
| <b>Bad debts</b>              | <b>1,000</b>    | <b>Carriage outwards</b>      | <b>1,000</b>  |
| <b>Travelling expenses</b>    | <b>1,100</b>    |                               |               |
| <b>Sales</b>                  | <b>2,50,000</b> |                               |               |

Manager's remuneration is to be allocated Rs.4,000 to factory Rs.2,000 to office and Rs.6,000 to sales departments.

**Solution :**

### Cost Sheet

|   | <b>Rs.</b>      | <b>Rs.</b>      |
|---|-----------------|-----------------|
| Opening stock of materials              | 25,000          |                 |
| <b>Add:</b> Purchases of materials      | 85,000          |                 |
| <b>Add:</b> Carriage inwards            | 5,000           |                 |
|   | <b>1,15,000</b> |                 |
| <b>Less:</b> Closing stock of materials | 40,000          |                 |
| Direct materials consumed               |                 | 75,000          |
| Direct wages                            |                 | 75,000          |
| Direct charges                          |                 | 15,000          |
| <b>Prime Cost</b>                       |                 | <b>1,65,000</b> |
| <b>Factory Overheads :</b>              |                 |                 |
| Indirect materials                      | 500             |                 |

|  |        |                 |
|--|--------|-----------------|
| Indirect wages                                 | 10,000 |                 |
| Other factory expenses                         | 5,700  |                 |
| Rent, rates (Factory)                          | 5,000  |                 |
| Depreciation on Plant & Machinery              | 1,500  |                 |
| Manager's remuneration (Factory)               | 4,000  | 26,700          |
| <b>Factory Cost</b>                            |        | <b>1,91,700</b> |
| <b>Office &amp; Administrative overheads :</b> |        |                 |
| Salaries (office)                              | 2,500  |                 |
| Other office expenses                          | 900    |                 |
| Rent, rates (office)                           | 500    |                 |
| Depreciation on furniture                      | 100    |                 |
| Manager's remuneration (office)                | 2,000  | 6,000           |
| <b>Cost of production</b>                      |        | <b>1,97,700</b> |
| <b>Selling &amp; Distribution Overheads :</b>  |        |                 |
| Salaries (godown)                              | 2,000  |                 |
| Bad debts                                      | 1,000  |                 |
| Travelling expenses                            | 1,100  |                 |
| Advertisement                                  | 2,000  |                 |
| Carriage outwards                              | 1,000  |                 |
| Manager's remuneration (sales dept)            | 6,000  | 13,100          |
| <b>Total cost</b>                              |        | <b>2,10,800</b> |
| Net profit                                     |        | 39,200          |
| <b>Sales</b>                                   |        | <b>2,50,000</b> |

**Illu.11 : From the following data, prepare cost and production statement of M/s. Karuna Coolers manufacturing company for the year 2005:**

|   |               |
|---|---------------|
|   | <b>Rs.</b>    |
| <b>Stock of materials on 1-1-2005</b>   | <b>52,500</b> |
| <b>Stock of materials on 31-12-2005</b> | <b>7,350</b>  |

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Purchases</b>                    | <b>78,750</b>   |
| <b>Factory wages</b>                | <b>1,42,500</b> |
| <b>Factory expenses</b>             | <b>26,250</b>   |
| <b>Establishment expenses</b>       | <b>15,000</b>   |
| <b>Finished stock on 1-1-2005</b>   | <b>NIL</b>      |
| <b>Finished stock on 31-12-2005</b> | <b>52,500</b>   |
| <b>Sales</b>                        | <b>2,88,500</b> |

The number of coolers manufactured during the year were 6,000. The company wants to quote for a contract for the supply of 1,500 coolers during 2006. The coolers are of the same quality, but cost of materials increased by 15% and labour by 10%. Prepare a statement showing the price to be quoted to give the same percentage of profit on turnover as was realised during 2005, assuming that the cost per unit of overhead charges will be the same as in previous year.

### Solution :

#### Cost – Sheet of M/s Karuna Coolers for the year ended 2005

|  | Rs.             | Rs.      |
|--|-----------------|----------|
| Opening stock of material              | 52,500          |          |
| <b>Add: Purchases</b>                  | 78,750          |          |
|  | <b>1,31,250</b> |          |
| <b>Less: Closing stock of material</b> | 7,350           |          |
| Direct material consumed               |                 | 1,23,900 |
| Direct wages                           |                 | 1,42,500 |

|  |  |                 |
|--|--|-----------------|
| <b>Prime Cost</b>                              |  | <b>2,66,400</b> |
| <b>Factory Overheads :</b>                     |  |                 |
| Factory expenses                               |  | 26,250          |
| Factory cost                                   |  | <b>2,92,650</b> |
| <b>Office &amp; Administrative overheads :</b> |  |                 |
| Establishment expenses                         |  | 15,000          |
| <b>Add: Opening finished stock</b>             |  | -               |
|  |  | <b>2,77,650</b> |

|                                     |  |                 |
|-------------------------------------|--|-----------------|
| <b>Less: Closing finished stock</b> |  | 52,500          |
| Cost of goods sold / cost of sales  |  | <b>2,25,150</b> |
| Net profit                          |  | 63,350          |
| Sales                               |  | <b>2,88,500</b> |

#### Statement Showing quotation for 1500 coolers for 2006

|   | Rs.    | Rs.           |
|---|--------|---------------|
| <b>Direct material :</b>                          |        |               |
| = $1,23,900 / 6,000 \times 1500$                  | 30,975 |               |
| <b>Add: Increase</b> ( $30,975 \times 15 / 100$ ) | 4,646  | 35,621        |
| <b>Direct wages :</b>                             |        |               |
| = $1,42,500 / 6,000 \times 1,500$                 | 35,625 |               |
| <b>Add: Increase</b> ( $35,625 \times 10/100$ )   | 3,563  | 39,188        |
| Prime cost  |        | <b>74,809</b> |
| <b>Factory Overheads :</b>                        |        |               |
| = $26,250 / 6,000 \times 1,500$                   |        | 6,563         |
| Factory Cost                                      |        | <b>81,372</b> |
| <b>Office &amp; Administrative Overheads :</b>    |        |               |
| = $15,000 / 6,000 \times 1500$                    |        | 3,750         |
| Cost Production / Total cost                      |        | <b>85,122</b> |
| <b>Add: Net Profit</b>                            |        |               |



|   |  |                 |
|---|--|-----------------|
| $= 63,350 / 2,88,500 \times 100 = 22\%$ |  |                 |
| $= 85,122 \times 22 / 78$               |  | 24,009          |
| <b>Quotation</b>                        |  | <b>1,09,131</b> |

**Illu.12 :** From the following particulars, you are required to prepare a cost sheet. Calculate percentage of works on cost to wages, percentage of office overheads to works cost :

|   | Rs.              |
|---|------------------|
| <b>Stock of finished goods 31-12-2000</b> | <b>1,45,600</b>  |
| <b>Stock of raw materials 31-12-2000</b>  | <b>66,560</b>    |
| <b>Purchase of raw materials</b>          | <b>15,18,400</b> |
| <b>Productive wages</b>                   | <b>10,33,760</b> |
| <b>Sales</b>                              | <b>30,78,400</b> |
| <b>Stock of finished goods 31-12-2001</b> | <b>1,56,000</b>  |
| <b>Stock of raw materials 31-12-2001</b>  | <b>70,720</b>    |
| <b>Works overhead charges</b>             | <b>2,58,440</b>  |
| <b>Office overheads</b>                   | <b>1,40,322</b>  |

The company is intending to send a quotation for a large plant. The estimated material cost is Rs.1,04,000 and wages Rs.62,400. The quotation is to make a profit of 20% on selling price. Show what the amount of quotation would be, if based on the above percentage.

**Solution :**

**Cost Sheet**

|                                    | Rs.              | Rs. |
|------------------------------------|------------------|-----|
| Opening stock materials            | 66,560           |     |
| <b>Add: Purchases of materials</b> | <b>15,18,400</b> |     |
|                                    | <b>15,84,960</b> |     |

|   |        |                  |
|---|--------|------------------|
| <b>Less:</b> Closing stock of materials | 70,720 |                  |
| Direct materials consumed               |        | 15,14,240        |
| Direct wages                            |        | 10,33,760        |
| <b>Prime cost</b>                       |        | <b>25,48,000</b> |
| Works overheads charges                 |        | 2,58,440         |
| <b>Works cost</b>                       |        | <b>28,06,440</b> |
| Office and general overhead             |        | 1,40,322         |
| <b>Total cost</b>                       |        | <b>29,46,762</b> |
| Net profit                              |        | 1,31,638         |
| Sales                                   |        | <b>30,78,400</b> |

- (a) Cost of materials consumed = Rs.15,14,240  
 (b) Prime cost = Rs.25,48,000  
 (c) Works cost = Rs.28,06,440  
 (d) Total cost = Rs.29,46,762  
 (e) Percentage of works overhead over productive wages :  
 $2,58,440 / 10,33,760 \times 100 = 25\%$   
 (f) Percentage of general overhead over works cost  
 $1,40,322 / 28,06,440 \times 100 = 5\%$

#### Statement showing the amount of Quotation

|                  | Rs.      | Rs. |
|------------------|----------|-----|
| Direct materials | 1,04,000 |     |
| Direct wages     | 62,400   |     |

|                                      |  |                 |
|--------------------------------------|--|-----------------|
| <b>Prime cost</b>                    |  | 1,66,400        |
| Works overheads (62,400 x 25/100)    |  | 15,600          |
| <b>Works cost</b>                    |  | <b>1,82,000</b> |
| General overheads (1,82,000 x 5/100) |  | 9,100           |
| <b>Total cost</b>                    |  | <b>1,91,100</b> |
| Net profit (1,91,100 x 20/80)        |  | 47,775          |
| <b>Selling price</b>                 |  | <b>2,38,875</b> |

**Illu.13 : Bharat Engineering Company Limited manufactured and sold 1000 Radio sets in 2004. The following are particulars regarding the Radios sold and manufactured by them:**

|                               | Rs.             |
|-------------------------------|-----------------|
| <b>Cost of Material</b>       | <b>80,000</b>   |
| <b>Wages paid</b>             | <b>1,20,000</b> |
| <b>Manufacturing expenses</b> | <b>50,000</b>   |
| <b>Salaries</b>               | <b>60,000</b>   |
| <b>Rent and Rates</b>         | <b>10,000</b>   |
| <b>Selling expenses</b>       | <b>30,000</b>   |
| <b>General expenses</b>       | <b>20,000</b>   |
| <b>Sales</b>                  | <b>4,00,000</b> |

The company desires to supply 200 Radio sets to a commercial concern. You are required to prepare a statement showing the price at which Radios should be sold so as to show a profit of 10% on the selling price. The following additional information is supplied to you:

- (a) The price of Material will rise by 20% on the previous year level
- (b) Wages will rise by 5%
- (c) Manufacturing expenses will rise by 10%
- (d) Office and selling expenses per unit will remain same.

**Solution :**

### Cost Sheet of M/s Bharath Engineering Company Limited

| Particulars                  |        | Amount Rs.      | Cost per Unit |
|------------------------------|--------|-----------------|---------------|
| Materials                    |        | 80,000          | 80            |
| Wages                        |        | 1,20,000        | 120           |
| <b>Prime cost</b>            |        | <b>2,00,000</b> | <b>200</b>    |
| Manufacturing expenses       |        | 50,000          | 50            |
| <b>Works cost</b>            |        | <b>2,50,000</b> | <b>250</b>    |
| Salaries                     | 60,000 |                 |               |
| Rent                         | 10,000 |                 |               |
| General expenses             | 20,000 | 90,000          | 90            |
| <b>Cost of production</b>    |        | <b>3,40,000</b> | <b>340</b>    |
| <b>Add: Selling expenses</b> |        | <b>30,000</b>   | <b>30</b>     |
| <b>Total cost</b>            |        | <b>3,70,000</b> | <b>370</b>    |
| Add: Profit                  |        | 30,000          | 30            |
| Sales                        |        | <b>4,00,000</b> | <b>400</b>    |

#### Absorption of overheads :

(a) Materials =  $80 + (80 \times 20/100) = 96$

(b) Wages =  $120 + (120 \times 5/100) = 126$

(c) Manufacturing expenses =  $50 + (50 \times 10/100) = 55$

#### Quotation for 20 Radios

| Particulars                                   | Amount Rs.    |
|---|---------------|
| <b>Materials (200 x 96)</b>                   | <b>19,200</b> |
| <b>Wages (200 x 126)</b>                      | <b>25,200</b> |
| Prime cost                                    | 44,400        |
| Add: <b>Manufacturing expenses (200 x 55)</b> | <b>11,000</b> |
| Works cost                                    | 55,400        |
| Add: <b>office expenses (200 x 90)</b>        | <b>18,000</b> |

|   |              |
|---|--------------|
| Cost of production                      | 73,400       |
| Add: <b>Selling expenses (200 x 30)</b> | <b>6,000</b> |
| Total cost                              | 79,400       |
| Add: <b>Profit (90 – 10)</b>            | <b>8,822</b> |
| <b>79,400 - ?</b>                       |              |
| Sales                                   | 88,222       |

**Illu.14 : A factory uses a Job costing system. The following data are available from the books at the ending 31<sup>st</sup> March 2005.**

**Direct Material Rs.9,00,000**

**Direct Wages Rs.7,50,000**

**Profit Rs.6,09,000**

**Selling and Distribution overhead Rs.5,25,000**

**Administrative overhead Rs.4,20,000**

**Factory overhead Rs.4,50,000.**

**Required : Prepare a cost sheet indicating the prime cost, works cost, production cost, cost of sale and sales value.**

**Solution :**

**Cost Sheet for the year ended 31<sup>st</sup> March, 2005**

| <b>Particulars</b>           | <b>Amount<br/>Rs.</b> |
|------------------------------|-----------------------|
| Direct materials             | 9,00,000              |
| Direct wages                 | 7,50,000              |
| <b>Prime cost</b>            | <b>16,50,000</b>      |
| <b>Add:</b> Factory overhead | 4,50,000              |
| <b>Works Cost</b>            | <b>21,00,000</b>      |

|                                      |                  |
|--------------------------------------|------------------|
| Add : Administrative overhead        | 4,20,000         |
| <b>Cost of production</b>            | <b>25,20,000</b> |
| Add: Selling & Distribution overhead | 5,25,000         |
| <b>Total cost</b>                    | <b>30,45,000</b> |
| Add: Profit                          | 6,09,000         |
| <b>Sales</b>                         | <b>36,54,000</b> |

## 12.6.QUESTIONS

### A. Short Answer Questions

1. What is meant by classification of overheads on time basis?
2. What are the items not to be included in costing?
3. What are the advantages of cost sheet?

### B. Essay Type Questions :

1. Explain the various methods of costing.
2. How do you classify costs? State various methods
3. Explain elaborately the parts of total cost and components to be included therein.
4. Explain similarities and differences between cost centre, and cost unit.
5. Discuss the basis for the classification of costs.
6. Define cost. State the items of cost.
7. Explain with examples of fixed and variable expenses.

## 12.7.EXERCISES

1. The all India Water proof Manufactures Ltd., manufactured and sold 850 water proofs in the year ending 31st March 2003. The summarised Trading and Profit and Loss Account is as follows:

|                           | Rs.             |                 | Rs.             |
|---------------------------|-----------------|-----------------|-----------------|
| To Materials              | 64,000          | By Sales        | 3,20,000        |
| To Direct wages           | 96,000          |                 |                 |
| To Manufacturing expenses | 40,000          |                 |                 |
| To Gross profit           | 1,20,000        |                 |                 |
|                           | <b>3,20,000</b> |                 | <b>3,20,000</b> |
| To Office Salaries        | 48,000          | By Gross profit | 1,20,000        |
| To Rent, Rates and Taxes  | 8,000           |                 |                 |
| To Selling Expenses       | 16,000          |                 |                 |
| To General Expenses       | 24,000          |                 |                 |
| To Net Profit             | 24,000          |                 |                 |
|                           | <b>1,20,000</b> |                 | <b>1,20,000</b> |

For the year ending 31st March 2004, it has been estimated that:

- Output and sales will be 1,000 waterproofs.
- Price of materials will rise by 25% on the previous year's level.
- Wages will rise by 12.5%
- Manufacturing cost will rise in proportion to the combined cost of materials and wages.
- Selling cost per unit will remain unchanged.
- Other expenses will remain unaffected by the raise in output.

Prepare a cost statement, showing the price at which the waterproofs would be marketed so as to show a profit at 12% on the selling price.

**[Ans.: Prime Cost Rs.2,21,177; Factory Cost Rs.2,76,472; Cost of Production Rs.3,56,472; Total Cost Rs.3,75,296; Selling Price Rs.4,26,473]**

2. From the books of M/s. Swamy Associates Ltd., the following balances extracted for the calendar year 2007:

Stock of materials on 1st Jan. 2007 Rs.20,000

Purchases of raw materials Rs.5, 50,000 and returns Rs.11, 000

Stock of finished goods as on 1st Jan. 2007 Rs.25,000

Sale of scrap during the year 2007 Rs.4, 000

Productive wages Rs.2,50,000

Finished goods sold Rs.12,00,000

Works overhead charges Rs.75,000

Office and general expenses Rs.50,000

Stock of materials on 31st December 2007 Rs.70, 000

Stock of finished goods on 31st December 2007 –30,000

*Ascertain:*

- (a) Prime cost
- (b) Works cost
- (c) Cost of production
- (d) Cost of goods sold
- (e) Profit / Loss by preparing cost sheet.

**[Ans.: Prime Cost Rs.7,39,000; Works cost Rs.8,10,000; Cost of Production Rs.8,60,000; Cost of goods sold Rs.8,55,000; Net Profit Rs.3,45,000]**

3. Prepare cost sheet from the following particulars:

Opening materials Rs.30,850

Opening work in progress Rs.60,850

Purchase of materials Rs.1,43,250

Direct wages Rs.1,78,500

Works overheads Rs.1,42,800

Office overheads Rs.1,12,700

Closing material Rs.37,700

Closing work in progress Rs.67,750

Sales for the year Rs.8,60,625.

**[Ans.: Prime Cost Rs.3,14,900; Works cost Rs.4,50,800; Cost of Production Rs.5,63,500; Net profit Rs.2,97,125]**

4. The following extract of costing information relates to commodity for the half year 30th June, 2005.



|  | <b>Rs.</b> |
|--|------------|
| Stock on 1st January 2005:               |            |
| Raw materials                            | 22,000     |
| Finished product (1,600 tonnes)          | 17,600     |
| Purchase of raw materials                | 1,32,000   |
| Direct wages                             | 1,10,000   |
| Rent, rates, insurance and works on cost | 44,000     |
| Carriage inward                          | 1,584      |
| Stock on 30 <sup>th</sup> June, 2005:    |            |
| Raw materials                            | 24,464     |
| Finished product (3,200 tonnes)          | 35,200     |
| Work in progress – 1st January 2005      | 5,280      |
| 30th June 2005                           | 17,600     |
| Cost of factory supervision              | 8,800      |
| Sales – finished goods                   | 3,30,000   |

Advertising, discount allowed and selling cost 75 paise per tonne sold. 25,600 tonnes of commodity was produced during the period:

You are required to ascertain:

- (a) Value of raw materials used
- (b) Cost of output for the period
- (c) Cost of sales
- (d) Net profit for the period and
- (e) Net profit per tonne.

**[Ans.: Prime Cost Rs.2,41,120; Factory Cost Rs.2,81,600; Cost of production Rs.2,81,600; Cost of goods sold Rs.2,64,000; Net profit Rs.48,000]**

5. Prepare Cost Sheet showing the different elements of cost from the following information:

| <b>Opening Balances</b> | <b>Rs.</b> | <b>Closing Balances</b> | <b>Rs.</b> |
|-------------------------|------------|-------------------------|------------|
| Raw materials           | 25,000     | Raw materials           | 40,000     |

|                        |          |                        |        |
|------------------------|----------|------------------------|--------|
| Work-in-progress       | 1,000    | Work-in-progress       | 500    |
| Finished goods         | 2,000    | Finished goods         | 1,000  |
| Purchase of materials  | 85,000   | Carriage in            | 5,000  |
| Direct wages           | 75,000   | Indirect wages         | 10,000 |
| Direct charges         | 15,000   | Rent & Rates:          |        |
| Indirect materials     | 500      | Factory                | 5,000  |
| Other factory expenses | 5,700    | Office                 | 500    |
| Prepaid income tax     | 15,000   | Depreciation:          |        |
| Salaries:              |          | Plant & Machinery      | 1,500  |
| Office                 | 2,500    | Furniture              | 100    |
| God own                | 2,000    | Manager's remuneration | 12,000 |
| Other office expenses  | 900      | Advertisement          | 2,000  |
| Bad debts              | 1,000    | Carriage out           | 1,000  |
| Travelling expenses    | 1,100    |                        |        |
| Sales                  | 2,50,000 |                        |        |

Manager's remuneration is to be allocated Rs.4, 000 to Factory, Rs.2, 000 to Office and Rs.6, 000 to Sales departments.

**[Ans.: Prime Cost Rs.1,65,000; Net works cost Rs.1,92,200; Cost of Production Rs.2,00,200; Net profit Rs.38,700]**

6. From the following particulars, prepare Cost Sheet showing the different elements of cost for the year ending 31-12-2007.

Materials purchased Rs.1,25,000; Works overheads Rs.45,000; Direct wages Rs.1,00,000; Opening materials Rs.23,400; Carriage inwards Rs.1,600; Opening work-in-progress Rs.15,000; Closing materials Rs.20,000; Opening finished goods (2000 tonnes) Rs.30,000; Closing work-in-progress Rs.4,800; Closing finished goods (3000tonnes) Rs.46,000. Selling and distribution expenses Rs.1.50 per Tonne sold. During the above period 16000 tonnes of units were produced.

**[Ans.: Material consumed Rs.1,30,000; Prime Cost Rs.2,30,000; Gross works cost Rs.2,75,000; Net works cost Rs.2,85,000; Cost of goods sold Rs.2,69,200; Total Cost Rs.2,91,700]**

7. The following information has been obtained from the records of ABC Corporation for the Period from June 1 to 30, 2007:

|   | <i>On June<br/>1, 2002</i> | <i>On June<br/>30, 2002</i> |
|---|----------------------------|-----------------------------|
|   | <i>Rs.</i>                 | <i>Rs.</i>                  |
| Cost of raw materials                       | 60,000                     | 50,000                      |
| Cost of work-in-progress                    | 12,000                     | 15,000                      |
| Cost of stock of finished goods             | 90,000                     | 1,10,000                    |
| Purchase of raw materials during June, 2002 |                            | 4,80,000                    |
| Wages paid                                  |                            | 2,40,000                    |
| Factory overheads                           |                            | 1,00,000                    |
| Administration overheads                    |                            | 50,000                      |
| Selling and distribution overheads          |                            | 25,000                      |
| Sales                                       |                            | 10,00,000                   |

Prepare a statement giving the following information:

- Raw materials consumed
- Prime cost
- Factory cost
- Cost of goods sold and
- Net profit.

**[Ans.: Prime cost Rs.7,30,000; Factory cost Rs.8,27,000; Cost of goods sold Rs.8,57,000; Net Profit Rs.1,18,000]**

## 12.8. SUGGESTED READINGS

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## Chapter – 13

# Budget – Budgetary Control

### Objectives :

This lesson helps you in

- Understanding the meaning of Budget and Budgetary control
- Know the essentials of effective budgeting
- Discuss the advantages and limitations of budgeting
- Know the procedure and preparation of various types of budgets.
- Understand the meaning and preparation of flexible budget

### Structure :

13.1 Introduction

13.2 Budgetary Control

13.3 Objectives of Budgetary Control

13.4 Budgeting Vs. Budgetary Control

13.5 Essentials of Effective Budgeting

13.6 Advantages of Budgetary Control

13.7 Limitations of Budgeting

13.8 Procedure for Budgeting

13.9 Types of Budgets

13.10 Fixed & Flexible Budgets

13.11 Questions

13.12 Exercises

13.13 Suggested Readings

### **13.1. INTRODUCTION :**

A budget is simply a financial forecast for a future period. It is prepared in advance and is based on a future plan of action. Budgets are prepared for many different purposes and the period of future forecasting varies, but the most usual type of budget is the one prepared annually to estimate and control the activities of a company for its next financial period. Just as an individual will plan his approximate income and expenditure for future periods so does an organisation whether it is a government department, a local authority a hospital or a school.

### **13.2. BUDGETARY CONTROL :**

Budgetary control is the establishment of budgets relating to the responsibilities of executives of a policy and the continuous comparison of actual with budgeted results, either to secure by individual action in the objectives of that policy or to provide a basis for its revision. Budgetary control is not a type of costing but is extensively used in all types of industries, business Government departments as a system of control through responsible persons such as executives, departmental heads of the management control. It refers to the establishment of budgets relating the responsibilities of executives to the requirements of a policy and the continuous comparison of actual with budgeted results. A comparison of budgeted and actual performance shows whether the performance is satisfactory or not. This may enable the management either to secure by individual action the objectives of the policy or to revise the policy itself. It ensures control over the performances and costs in the different sections of the business.

### **13.3. OBJECTIVES OF BUDGETARY CONTROL :**

The following are the objectives of Budgetary Control.

1. Budgetary control aims at maximisation of profits through effective planning and control of income and expenditure directing capital and resources to the best and most profitable channel.
2. It provides a clear definition of the objectives and policies of the concern and a tool for subjecting these policies to periodic examination.

3. There is a planned approach to expenditure and financing of the business so that economy is effected in the utilisation of funds to the optimum benefit of the concerns and industries have the budget approach. This provides a basis for stable employment in the country, makes economic use of limited resources of the nation, and prevent wastage.
4. The function and performances of the various branches and spheres of the organisation are closely co-ordinates in a well-knit pattern. This results in closer co-operation between the various members of the organisation.
5. Deviations from budgets point out the weak spots and inefficiencies so that proper remedial measures can be taken. Efforts are concentrated only over a small part portion of the expenditure, which is not in conformity with the norm, leaving out the bulk which being within the budget needs no attention, and thus, reports are furnished under the principles of management or control by exception.
6. It makes each level of management aware of its task and fully conscious of best way to perform it. This maximises the effective utilisation of men, material and resources.
7. It provides a motivating force urging all concerned to work efficiently. As budgets are set for each item of expenditure against departments and against each executive, motivate persons to show maximum efficiency.
8. It creates in the management the habit of thinking ahead-making careful study of the problems in advance before taking decisions.
9. A budgetary control system assists in delegation of authority and is a powerful tool fo responsibility accounting.
10. It stabilises the conditions in industries, which are subject to seasonal or cyclic fluctuations.
11. Budgets help standard costing by creating conditions necessary for setting up of standard costs.
12. Budgetary control system provides a means for continuous appraisal of departmental performance and supplies a basis for internal audit.

#### **13.4. BUDGETING VS. BUDGETARY CONTROL :**

Budgeting and budgetary control are accounting exercises which act as a tool of management at all level. Budgeting differs from budgetary control in the following respect.

|    | <b>Budgeting</b>   | <b>Budgetary Control</b>  |
|----|--|---|
| 1. | Budgeting is the preparation in advance of the quantitative as well as financial statements to indicate the intention of the management in respect of the various aspects of the business.     | Budgetary control is a system by which budgets are used as a means of planning and controlling all the aspects of a business  |
| 2. | Budget is a statement showing the probable items of work to be carried out by the various departments specifying the quantities and monetary values  | Budgetary control is a means of control by which the actual position is compared with that planned for to enable the management to take appropriate action if there are any deviations. |
| 3. | Budget is a plan of operations expressed in monetary terms   | Budgetary control is the very essence of financial control  |
| 4. | It is an overall statement in financial terms of the plan of operations. It includes the sales to be made, the expenses to be incurred and the income to be received during the budget period. | Its main objective is to control all aspects of production and selling. The results revealed by the budgets If found unsatisfactory indicates a need for change in policy itself.       |
| 5. | Budget should be prepared by the department to which it relates  | Budgetary control in complied by a budget committee or controller.  |

### **13.5 ESSENTIALS OF EFFECTIVE BUDGETING :**

A budgetary control system can prove successful only when certain conditions and attitudes exist, absence of which will negate to a large extent the value of a budget system in any business. Such conditions and attitudes, which are essential for effective budgeting, are as follows.



1. **Support of top management** : If the budget system is to be successful, it must be fully supported by every member of the management and the impetus and direction must come from the very top management. No control system can be effective unless the organisation is convinced that the top management considers the system to be important.
2. **Participation by responsible executives** : Those entrusted with the performance of the budgets should participate in the process of setting the budget figures. This will ensure proper implementation of budget programmes.
3. **Reasonable goals** : The budget figures should be realistic and represent reasonably attainable goals. The responsible executives should agree that the budget goals are reasonable and attainable.
4. **Clearly defined organisation** : In order to derive maximum benefits from the budget system, well defined responsibility centres should be built within the organisation. The controllable costs for each responsibility centres should be separately shown.
5. **Continuous budget education** : The best way to ensure the active interest of the responsible supervisors is continuous budget education in respect of objectives, potentials and techniques of budgeting. This may be accomplished through written manuals, meetings etc. whereby preparation of budgets, actual results achieved etc., may be discussed.
6. **Adequate accounting system** : There is a close relationship between budgeting and accounting. For the preparation of budgets, one has to depend on the accounting department for reliable historical data which primarily forms the basis for many estimates. The accounting system should be so designed so as to set up accounts in terms of areas of managerial responsibility. In other words, responsibility accounting is essential for successful budgetary control.
7. **Constant vigilance** : Reports comparing budget and actual results should be promptly prepared and special attention focussed on significant exception i.e., figures that are significantly different from those expected.
8. **Maximum profits** : The ultimate object of realising the maximum profit should always be kept uppermost.
9. **Cost of the system** : The budget system should not cost more than it is worth. Since it is not practicable to calculate exactly what a budget system is worth, it only implies a caution against adding expensive refinements unless their value clearly justifies them.

**10. Integration with standard costing system :** When standard costing system is also used, it should be completely integrated with the budget programme, in respect of both budget preparation and variance analysis.

### **13.6 ADVANTAGES OF BUDGETARY CONTROL :**

The advantages of budgetary control may be summarised as follows.

1. The preparation of budgets emphasises and causes to be clarified the responsibilities of each executive. It forces early consideration of basic policies. In addition, it focuses attention in the contribution made by each market and product, on the capital and methods employed and on costs, and does so in such a manner that any further opportunities for profit making are revealed
2. Budgets provide a means of controlling in detail the income and expenditure of a business; they regulate the spending of money, and show up losses, waste, and inefficiency, thus making it possible for corrective action to be taken promptly. Furthermore, they tend to bring managers "down to earth" by compelling them to express their intentions in cold figures.
3. Budgetary control provides a means of ensuring that capital employed is kept at a minimum level consistent with the level of activity planned and that it is usefully employed; at the same time it ensures that adequate liquid resources are always available.
4. It enables management to decentralise responsibility without losing control of the business, since it pinpoints inefficiency :
5. It provides for the coordination of sales, production, and other activities of the business. It forces members of the management team to plan in harmony and emphasises the need for careful and adequate consideration of all relevant factors before coming to a decision. It is, therefore, a valuable aid in the fixing of selling prices;
6. Cost consciousness is increased and there is introduced an attitude of mind in which waste and inefficiency cannot thrive. The existence of a system of budgets does much to make clear to lower levels in the organisation the basic policies of top management.

### **13.7 LIMITATIONS OF BUDGETING :**

Budgeting is not a fool proof tool. Those who consider using budgetary control must be fully aware of its limitations. The principal limitations are as follows.

1. The budget plan is based on estimates. Though there are numerous statistical and other techniques, which may give reasonable satisfactory results, yet forecasting cannot be an exact science. The strength or weakness of a budgetary control system depends to a large extent on the accuracy with which estimates are made.
2. A budgetary programme must be continuously adopted to fit changing circumstances. Various technique must be tried, improved, or discarded and replaced with others. Normally, it takes several years to attain a reasonably good system of budgetary control.
3. Execution of a budget will not occur automatically. Sometimes it is assumed that the introduction of a budget programme is alone sufficient to ensure its success. All levels of management must participate enthusiastically in the programme for the realisation of budgetary goals.
4. No budgetary system will eliminate the necessity for superior executive ability in every major business decision. In other words, budgeting does not take the place of management, but rather it is a tool of management.

### **13.8 PROCEDURE FOR BUDGETING :**

The procedure for construction of a budget varies between organisations . Each responsible individual, from the lowest level, may construct his own budget and submit it through the next highest person, for incorporation in a total or master budget. Alternatively, all the detailed individual budgets and the master budgets may be constructed by the accountant or another executive, and passed downwards for comment at all levels. Whichever procedure is adopted, there should be a budget committee under the chairmanship of an executive powerful enough to ensure prompt action and co-operation. This is essential not only to demonstrate to all the importance with which budgeting is viewed, but also to ensure that all take maximum care and that there is a final arbiter of the disputes, which are bound to arise. When the forecasts of all sections

have been considered, someone must decide what the budget will be and this normally is the chairman of the budget committee.

The following steps may be taken in the preparation of the budget of an industrial concern.

- 1. Establishment of Budget Centres :** A budget centre is a section of the organisation of an undertaking for the purpose of budgetary control. Budget centres or departments should be established, for each of which budget will be set with the help of the head of the department concerned.
- 2. Introduction of Adequate Accounting Records :** A pre-requisite to the establishment of a budgetary control system is that accounting system should be able to record and analyse the information required. A chart of accounts corresponding with the budget centres should be maintained.
- 3. Preparation of an Organisation chart :** Organisation chart defines the functions and responsibilities of each member of management and ensure that each one knows his position in the organisation and his relationship to other members.
- 4. Preparation of Budget Manual :** Budget manual is "a document which sets out, the responsibility of the persons engaged in the routing of and the forms and records required for budgetary control." It is usually in loose leaf form and an index is provided so that information can be quickly located.
- 5. Fixation of Budget period :** Budget period may be defined as "the period for which a budget is prepared and employed. There is no right period for any budget. Budget periods vary between short term and long term. Short term budgeting is usually costly to prepare and operate while long term budgeting may be considerably affected by unforeseen conditions.
- 6. Determining of Key Factor :** Key factor means "the factor the extent of whose influence must first be assessed in order to ensure that functional budgets are reasonably capable of fulfillment" The key factor is also known as "limiting" or "governing" or "principal budget" factor. Key factor is of vital importance since it determines priorities in functional budgets. Sales is most often the key factor in industry.

## 13.9 TYPES OF BUDGETS :

Budgets may be classified into :

- (a) Functional budgets, and
- (b) Fixed and Flexible budgets.

Let us know first discuss about functional budgets.

### Functional Budget :

There are several types of budgets depending upon the functions and sub-functions they serve, the regularity with which they are established and the time horizon they serve. In terms of functions they perform, budgets are classified operating budgets financial budgets, and capital budgets. The operating budget may have selling and production as two main sub-functions. Thus we may have the following functional budgets.

**1. Sales budget :** In most of the firms, sales budget is the commencement of budgeting. This is the most difficult functional budget to prepare because it is not so easy to estimate consumers' future demands. A sales budget shows what products will be sold in what quantities and at what prices. The responsibility for making sales budget lies with the sales manager who takes into account the following factors for preparing the sales budget.

- (i) Past sales figures and trends
- (ii) Salesmen's estimates;
- (iii) General economic conditions;
- (iv) Orders on hand;
- (v) Seasonal fluctuations
- (vi) Competition; and
- (vii) Government's control and policy.

Preparation of sales budget is the key factor in any business enterprises. All other budgets are based on the sales budgets. Sales budget sets tone for production, finance and personnel budgets.

**2. Production Budget :** The production budget will be based upon the anticipated volume of sales by the sales budget. While preparing the production budget, the production manager will take into account the physical facilities like plant, powers, factory space, materials and labour

available for the period. This budget may be expressed in terms of quantities (weights, units, etc.,) or money or both. Production may be computed as follows.

Units to be produced =

$$\text{Desired closing stock of finished goods} + \text{Budgeted sales} - \\ \text{Beginning stock of finished goods}$$

It would be seen that the production budget is affected by both sale budget and stock levels. In fact the production budget will consist of the total of the purchases budget, direct labour budget and factory overhead budget.

**3. Material Purchase Budget :** The Purchase budget sets out the quantity and volume of different types of materials to be purchased during the budget period, taking into consideration the levels of production activity and the inventory levels. While preparing the materials budget, the following factors must be taken into account.

- (i) The quantities of materials to be required for the production budget.
- (ii) The probable dates by which materials required must be available.
- (iii) Storage facilities available
- (iv) Availability of credit facilities and other financial resources
- (v) Price trends in the market
- (vi) The anticipated cost of purchases to be made
- (vii) Nature of the materials, i.e., seasonal or otherwise.

**4. Labour Budget :** It is essential that the management should determine in advance personnel requirements for various jobs in the enterprises. This budget may be classified into labour requirement budget and labour requirement budget. The labour requirement budget in the various job categories such as un-skilled, semi-skilled, skilled and supervisory is determined with the help of various department heads. The labour requirement is made keeping in view the requirement of the job and its specifications, the degree of skilled and experience requirement and the rates of pay.

**5. Cash Budget :** Cash budgets constructed under different sets of assumption provide the financial manager with details of the extra cash available or requirement under either adverse or favourable circumstances. As a result, the financial manager should have more confidence in his decisions regarding the minimum cash balance that the company should maintain, and other questions of cash management. The cash budget prepared by the accounting

department is prepared using the best estimates of the cash receipts and disbursements in the coming months. In order to take account of possible deviations from the most likely cash flow, additional cash budgets may be constructed, based upon different sets of assumptions. For example, the company may wish to desire to additional cash budgets, one assuming a pessimistic forecast of the likely level of activity and the other assuming an optimistic forecast of the likely level of business activity. The generation of a set of budgets under various assumptions maybe facilitate by using simulation technique.

**6. Master Budget :** The master budget in also called the operating budget. It provides the basic plan for operations during the period when all detail budgets have been completed. A master budget become a governing document for the operations of the business during the period it covers. In fast, budgets have to be revised several times before the position disclosed by the summary budget is accepted. Truly speaking a master budget is a statement of the targets, which must be attained during the period by each member of the organisation of the business. Thus a master budget is :

- (i) A statement of company's operating policy for the budget period, and
- (ii) A budgeted profit and loss account for the budget period and a balance sheet as at the end of the period.

The importance of the budgetary control system lies in the fact that it enables a concern to secure control over performance and costs in different parts of a business. It brings a closer cooperation among the various persons in the organisation. The firm can maximise its profits by effective planning and control of income and expenditure. A planned approach to expenditure and financing of the business results in the optimum utilisation of resources. If all the concerns in the economy adopt budgetary control system, this benefit would ultimately be extended to the national economy. This would provide a basis for stable employment in the country and prevent wastage of national resources.

### **13.10 FIXED & FLEXIBLE BUDGETS :**

#### **Fixed budget :**

A fixed budget is one which prepared keeping in mind one level of output. It is defined as a budget ``which is designed to remain unchanged irrespective of the level of activity attained.'' If actual output differs from budgeted level of output, variances will arise. Fixed budget is prepared

on the assumption that output and sales can be estimated with a fair degree of accuracy. This means that in those situations where sales and output cannot be accurately estimated, fixed budget does not suit.

**Flexible Budget :**

In contrast to a fixed budget, a flexible budget is one “which is designed to change in relation to the level of activity attained.” The underlying principle of flexible budget is that a budget is of little use unless cost and revenue are related to the actual volume of production. Flexible budgeting has been developed with the objective of changing the budget figures to correspond with the actual output achieved. Thus a budget might be prepared for various levels of activity, say, 70%, 80%, 90% and 100% capacity utilisation. Then whatever the level of output actually reached, it can be compared with an appropriate level.

Flexible budgets are prepared in those companies where it is extremely difficult to forecast output and sales. Such a situation may arise in the following cases.

1. Where nature of business is such that sales are difficult to predict e.g., demand for luxury goods is quite unpredictable.
2. Where sales are affected by weather conditions e.g., soft drink industry, woolen garments etc.
3. Where sales are affected by changes in fashion e.g., ready made garments.
4. Where Company frequently introduces new products.
5. Where large part of output is intended for export.

**13.10.1 Use of Flexible Budgets :**

The figures in flexible budgets are adaptable to any given set of operating conditions. It is, therefore, more realistic than a fixed budget which is true only in one set of operating conditions.

Flexible budgets are also useful from the control point of view. Actual performance of an executive should be compared with what he should have achieved in the actual circumstances and not with what he should have achieved under quite different circumstances.

In brief, flexible budgets are more realistic, practical and useful. Fixed budgets on the other hand, have a limited application and are suited only for items like fixed costs.



### 13.10.2 Preparation of Flexible Budgets :

Preparation of flexible budgets involves measurement of the sensitivity of various cost items to output. It is obvious that all costs do not behave in identical manner as the level of output changes. Some times, like the salary of the managing director, would be totally fixed despite considerable changes in the output or volume of activity. Some items, like raw material costs, are fully sensitive to changes in the level of output. Most other items are semi-variable, they change in the same direction as the volume of activity but not by the same margin. It is necessary to establish the extent of change in each semi-variable expenses for a given change in the volume of activity. This distinction between the treatment of fixed, semi-fixed and variable costs is very important in preparation of flexible budgets.

Flexible budgets are an extremely useful devices for planning. Due to various economic, social and political uncertainties, it is often difficult to predict the actual level of output. Through the technique of flexible budgeting estimates can be quickly altered to conform to actual conditions. Thus, if a budget is drawn up on the basis of an estimated sale of 50,000 units and the actual sales are only 40,000 units, the estimates can be quickly adjusted and the actual figures can then be profitably compared with the budgets so adjusted.

**Illu.1 : The following overhead expenses are given at 60% of plant capacity:**

|              |                                   |            |               |
|--------------|-----------------------------------|------------|---------------|
| <b>(i)</b>   | <b>Variable overheads:</b>        |            |               |
|              | <b>Indirect Labour</b>            | <b>Rs.</b> | <b>15,000</b> |
|              | <b>Stores and spares</b>          | <b>Rs.</b> | <b>6,000</b>  |
| <b>(ii)</b>  | <b>Semi – variable overheads:</b> |            |               |
|              | <b>Power (60% variable)</b>       | <b>Rs.</b> | <b>20,000</b> |
|              | <b>Repairs and Maintenance</b>    | <b>Rs.</b> | <b>6,000</b>  |
| <b>(iii)</b> | <b>Fixed Overheads:</b>           |            |               |
|              | <b>Depreciation</b>               | <b>Rs.</b> | <b>12,000</b> |
|              | <b>Insurance</b>                  | <b>Rs.</b> | <b>5,000</b>  |
|              | <b>Salaries</b>                   | <b>Rs.</b> | <b>25,000</b> |

**Estimated direct Labour hours 1,20,000 hours**

**You are required to prepare flexible budget for overhead expenses at 70% and 80% of plant capacity and determine overhead recovery rate:**

**Solution :**

| Particulars                   | 60% capacity<br>(Rs.) | 70% capacity<br>(Rs.) | 80%<br>(Rs.) |
|-------------------------------|-----------------------|-----------------------|--------------|
| Variable overheads:           |                       |                       |              |
| Indirect labour               | 15,000                | 17,500                | 20,000       |
| Stores and spares             | 6,000                 | 7,000                 | 8,000        |
| Semi – variable overheads:    |                       |                       |              |
| Power                         | 20,000                | 22,000                | 24,000       |
| Repairs and maintenance       | 6,000                 | 6,400                 | 6,800        |
| Fixed overheads:              |                       |                       |              |
| Depreciation                  | 12,000                | 12,000                | 12,000       |
| Insurance                     | 5,000                 | 5,000                 | 5,000        |
| Salaries                      | 25,000                | 25,000                | 25,000       |
| Total Overheads               | 89,000                | 94,900                | 1,00,800     |
| Estimated direct labour hours | 1,20,000              | 1,40,000              | 1,60,000     |
| <b>Overhead rate</b>          | <b>0.74</b>           | <b>0.67</b>           | <b>0.63</b>  |

**Working Notes:**

- 1) **Power:** Power amount to Rs.20,000 at 60% capacity. Out of this 40% (i.e. Rs.8,000) is fixed and 60% (i.e., Rs.12,000) is variable. Rs.8,000 will remain the same at all the capacities while variable part will vary. Variable part at 70% capacity will be  $(12,000 \times 70/60)$  Rs.14,000 and at 80% capacity will be  $(12,000 \times 80/60)$  Rs.16,000. The total on power will be Rs.22,000 and Rs.24,000.
- 2) **Repairs and Maintenance:** Repairs and maintenance amount to Rs.6,000. Out of this 60% is fixed i.e., Rs.3,600 and 40% is variable i. e, Rs.2,400. At 70% capacity variable cost will be  $(70 / 60 \times 2,400)$  Rs.2,800 and at 80% capacity (i.e.,  $70/ 60 \times 2,400$ ) Rs.3,200.

The total expenditure at 70% is Rs.6,400 and at 80% = Rs.6,800

**Illu.2 : The following information relates to a flexible budget at 60% capacity:  
Find out the overhead costs at 50% and 70% capacity and also determine the overheads rates:**

|   | <b>Expenses at 60%<br/>Capacity Rs.</b> |
|---|---|
| <b>Variable overheads:</b>                        |   |
| Indirect Laour                                    | 10,500                                  |
| Indirect Material                                 | 8,400                                   |
| <b>Semi variable overheads:</b>                   |   |
| Repairs and Maintenance (70% fixed, 30% variable) | 7,000                                   |
| Electricity (50% fixed, 50% variable)             | 25,200                                  |
| <b>Fixed overheads:</b>                           |   |
| Office expenses including salaries                | 70,000                                  |
| Insurance   | 4,000                                   |
| Depreciation                                      | 20,000                                  |
| Estimated direct labour hours                     | 1,20,000                                |

### **Solution :**

#### **Flexible Budget and Overhead rates**

| Particulars                        | 50% capacity<br>(Rs.) | 60% Capacity<br>(Rs.) | 70% Capacity<br>(Rs.) |
|------------------------------------|-----------------------|-----------------------|-----------------------|
| <b>Variable overheads:</b>         |                       |                       |                       |
| Indirect labour                    | 8,750                 | 10,500                | 12,550                |
| Indirect materials                 | 7,000                 | 8,400                 | 9,800                 |
| <b>Semi variable overheads:</b>    |                       |                       |                       |
| Repairs and Maintenance            | 6,650                 | 7,000                 | 7,350                 |
| Electricity                        | 23,100                | 25,200                | 27,300                |
| <b>Fixed overheads:</b>            |                       |                       |                       |
| Office expenses inclusive Salaries | 70,000                | 70,000                | 70,000                |

|                               |                 |                 |                 |
|-------------------------------|-----------------|-----------------|-----------------|
| Insurance                     | 4,000           | 4,000           | 4,000           |
| Depreciation                  | 20,000          | 20,000          | 20,000          |
| Total overheads               | <b>1,39,500</b> | <b>1,45,100</b> | <b>1,50,700</b> |
| Estimated Direct labour hours | 1,00,000        | 1,20,000        | 1,40,000        |
| <b>Overhead rate</b>          | <b>1.395</b>    | <b>1.21</b>     | <b>1.077</b>    |

**Working Notes:**

- Repairs and maintenance amount to Rs.7,000 at 60% capacity. Out of this 70% (i.e., Rs.4,900) is fixed and 30% (i.e., Rs.2,100) is variable. Rs.4,900 will remain the same at all the capacities while variable part will vary. Variable cost at 50% capacity will be  $(2,100 / 60 \times 50)$  Rs.1,750 and 70% capacity  $(2,100 / 60 \times 70)$  Rs.2,450. So, total expenditure at 50% capacity is  $4,900 + 1,750 =$  Rs.6,650 and at 70%  $4,900 + 2,450 =$  Rs.7,350.
- Electricity at 50% capacity is Rs.25,200 of which 50% is fixed (i.e. 12,600). Rs.12,600 will remain the same at all the capacities. But variable will be at 50% capacity  $(12,600 / 60 \times 50)$  i.e., Rs.10,500 and at 70% capacity  $(12,600 / 60 \times 70)$  Rs.14,700. Total electricity cost will be at 50% capacity  $12,600 + 10,500 =$  Rs.23,100. At 70% capacity  $12,600 + 14,700 =$  Rs.27,300.

**Illu.3 : The expenses for the production of 5000 units in a factory are given as follows:**

|  | Per unit Rs. |
|--|--------------|
| <b>Material</b>                              | <b>50</b>    |
| <b>Labour</b>                                | <b>20</b>    |
| <b>Variable overhead</b>                     | <b>15</b>    |
| <b>Fixed overhead (Rs.50,000)</b>            | <b>10</b>    |
| <b>Administrative expenses (5% variable)</b> | <b>10</b>    |
| <b>Selling expenses (20% fixed)</b>          | <b>6</b>     |
| <b>Distribution expenses</b>                 | <b>5</b>     |
| <b>Total cost of sales per unit</b>          | <b>116</b>   |

**You are required to prepare a budget for the production of 7000 units.**

**Solution :****Working Notes:**

(a) Administrated expenses = (5,000 units x 20) = Rs.50,000

5% variable = 50,000 x 5% = **Rs.2,500**

Variable administrative expenses per unit = Rs.2,500 / 5,000 = 0.5

95% Fixed = 50,000 x 95% = **Rs.47,500**

(b) Selling expenses = 5,000 units x Rs.6 = Rs.30,000

20% Fixed = Rs.30,000 x 20% = **Rs.6,000**

80% Variable = Rs.30,000 x 80% = **Rs.24,000**

Variable selling expenses per unit = Rs.24,000/ 5,000 units = Rs.4.80

(c) Distribution expenses = 5,000 units x Rs.5 = Rs.25,000

10% Fixed = 25,000 x 10% = Rs.2,500

90% variable = 25,000 x 90% = Rs.22,500

variable distribution expenses per unit = 22,500/5,000 = Rs.4.50

**Flexible Budget**

| Particulars               | 5,000 units     |              | 7,000 units     |              |
|---------------------------|-----------------|--------------|-----------------|--------------|
|                           | Amount          | Per unit     | Amount          | Per unit     |
| <b>Variable expenses:</b> | <b>Rs.</b>      | <b>Rs.</b>   | <b>Rs.</b>      | <b>Rs.</b>   |
| Material                  | 2,50,000        | 50.000       | 3,50,000        | 50.00        |
| Labour                    | 1,00,000        | 20.00        | 1,40,000        | 20.00        |
| Variable Overhead         | 75,000          | 15.00        | 1,05,000        | 15.00        |
| Administrative expenses   | 2,500           | 0.50         | 3,500           | 0.50         |
| Selling expenses          | 24,000          | 4.80         | 33,600          | 4.80         |
| Distribution expenses     | 22,500          | 4.50         | 31,500          | 4.50         |
| Total Variable cost (A)   | <b>4,72,000</b> | <b>94.80</b> | <b>6,63,600</b> | <b>94.80</b> |
| <b>Fixed Expenses:</b>    |                 |              |                 |              |
| Fixed overhead            | 50,000          | 10.00        | 50,000          | 7.14         |
| Administrative Expenses   | 47,500          | 7.50         | 47,500          | 6.79         |

|                       |                 |               |                 |               |
|-----------------------|-----------------|---------------|-----------------|---------------|
| Selling expenses      | 6,000           | 1.20          | 6,000           | 0.86          |
| Distribution expenses | 2,500           | 0.50          | 2,500           | 0.34          |
| Total Fixed Cost (B)  | <b>1,06,000</b> | <b>21.20</b>  | <b>1,06,000</b> | <b>15.13</b>  |
| Total cost (A) – (B)  | <b>5,88,000</b> | <b>116.00</b> | <b>7,69,600</b> | <b>109.93</b> |

**Illu.4 : A department of Company X attains sales of Rs.6,00,000 at 80% of production capacity. Draw up a flexible budget at 90%, 100% and 110% of production capacity from the following particulars:**

***Administration Cost:***

|                  | Rs.                    |
|------------------|------------------------|
| Office Salaries  | <b>90,000</b>          |
| General Expenses | <b>2% of the sales</b> |
| Depreciation     | <b>7,500</b>           |
| Rates and Taxes  | <b>8,750</b>           |

***Selling Cost:***

|                     |                        |
|---------------------|------------------------|
| Salaries            | <b>8% of the sales</b> |
| Travelling expenses | <b>2% of the sales</b> |
| Sales Expenses      | <b>1% of the sales</b> |
| General expenses    | <b>1% of the sales</b> |

***Distribution cost:***

|                |                        |
|----------------|------------------------|
| Wages          | <b>15,000</b>          |
| Rent           | <b>1% of the sales</b> |
| Other expenses | <b>4% of the sales</b> |

**Solution :****Company – X****Flexible Budget**

| Items   | Basis      | 80% (Rs.)       | 90% (Rs.)       | 100% (Rs.)      | 110% (Rs.)      |
|---|------------|-----------------|-----------------|-----------------|-----------------|
| Sales   |            | 6,00,000        | 6,75,000        | 7,50,000        | 8,25,000        |
| <b>Administration cost:</b>                         |            |                 |                 |                 |                 |
| Office salary                                       | Fixed      | 90,000          | 90,000          | 90,000          | 90,000          |
| General Expenses                                    | 2% of sale | 12,000          | 13,500          | 15,000          | 16,500          |
| Depreciation  | Fixed      | 7,500           | 7,500           | 7,500           | 7,500           |
| Rates and taxes                                     | Fixed      | 8,750           | 8,750           | 8,750           | 8,750           |
| Total Administration costs                          |            | <b>1,18,250</b> | <b>1,19,750</b> | <b>1,21,250</b> | <b>1,22,750</b> |
| <b>Selling Cost</b>                                 |            |                 |                 |                 |                 |
| Salary  | 8% of sale | 48,000          | 54,000          | 60,000          | 66,000          |
| Travelling expenses                                 | 2% of sale | 12,000          | 13,500          | 15,000          | 16,500          |
| Sales office expenses                               | 1% of sale | 6,000           | 6,750           | 7,500           | 8,250           |
| General expenses                                    | 1% of sale | 6,000           | 6,750           | 7,500           | 8,250           |
| Total selling cost                                  |            | <b>72,000</b>   | <b>81,000</b>   | <b>90,000</b>   | <b>99,000</b>   |
| <b>Distribution cost</b>                            |            |                 |                 |                 |                 |
| Wages   | Fixed      | 15,000          | 15,000          | 15,000          | 15,000          |
| Rent  | 1% of sale | 6,000           | 6,750           | 7,500           | 8,250           |
| Other expenses                                      | 4% of sale | 24,000          | 27,000          | 30,000          | 33,000          |
| Total distribution costs                            |            | <b>45,000</b>   | <b>48,750</b>   | <b>52,500</b>   | <b>56,250</b>   |
| Total Administration selling and distribution costs |            | <b>2,35,250</b> | <b>2,49,500</b> | <b>2,63,750</b> | <b>2,78,000</b> |

**Note:** In the absence of information it has been assumed that office salaries, depreciation, rates and taxes and wages remain the same at 110% level of activity also. However, in practice some of these costs may change if present capacity is exceeded.

**Illu.5 : Prepare a flexible budget for the products of 80% and 100% activity on the basis of the following information:**

**Production at 50% capacity – 5000 units**

**Raw materials – Rs.80 per unit**

**Direct labour – Rs.50 per unit**

**Direct expenses – Rs.15 per unit**

**Factory expenses – Rs.50,000 (50% fixed)**

**Administration expenses – Rs.60,000 (60% variable)**

**Solution :**

**Flexible Budget**

|                         |             | <b>80% Capacity<br/>8000 units<br/>Rs.</b> | <b>100% capacity<br/>10,000 units<br/>Rs.</b> |
|-------------------------|-------------|--|---|
| Raw Materials           | 8,000 x 80  | 6,40,000                                   |   |
|                         | 10,000 x 80 |  | 8,00,000                                      |
| Direct Labour           | 8,000 x 50  | 4,00,000                                   |   |
|                         | 10,000 x 50 |  | 5,00,000                                      |
| Direct Expenses         | 8,000 x 15  | 1,20,000                                   |   |
|                         | 10,000 x 15 |  | 1,50,000                                      |
| Factory expenses        |             | 65,000                                     | 75,000  |
| Administration expenses |             | 81,600                                     | 96,000  |
|                         |             | <b>13,06,000</b>                           | <b>16,21,000</b>                              |
| Cost per unit           |             | 16.33                                      | 16.21   |

**Working Notes:**

**(1) Factory Expenses:**

$$\text{Fixed} = 50,000 \times \frac{50}{100} = \text{Rs.}25,000$$



At 80% capacity =  $8,000 \times 5 + 25,000 = 40,000 + 25,000 = \text{Rs.65,000}$

Variable =  $50,000 \times \frac{50}{100} = \text{Rs.25,000} / 5,000 \text{ units} = \text{Rs.5 per unit}$

At 100% capacity =  $10,000 \times 5 + 25,000 = 50,000 + 25,000 = \text{Rs.75,000}$

**(2) Administration Expenses:**

Variable =  $60,000 \times \frac{60}{100} = \text{Rs.36,000} / 5,000 = \text{Rs.7.20}$

Fixed =  $60,000 - 36,000 = \text{Rs.24,000}$

At 80% Capacity =  $8,000 \times 7.20 + 24,000 = \text{Rs.81,600}$

At 100% capacity =  $10,000 \times 7.20 + 24,000 = \text{Rs.96,000}$

**Illu.7 : An umbrella manufacturer makes an average net profit of Rs.2.50 per piece on a selling price of Rs.14.30 by producing and selling 6,000 pieces or 60% of the potential capacity. His cost of sales is:**

|                  | Rs.                |
|------------------|--------------------|
| Direct materials | 3.50               |
| Direct wages     | 1.25               |
| Works overhead   | 6.25 (50% fixed)   |
| Sales overheads  | 0.80 (25% varying) |

During the current year, he anticipates that his fixed charges will go up by 10% while rate or direct labour and direct materials will increase by 8% and 6% respectively. But he has no option of increasing the selling price. Under this situation, he obtains an offer for usage of a further 20% capacity. What maximum price will you recommend for acceptance of offer to ensure the manufacturer an overall profit of Rs.16,730?

**Solution :**

|  |             |
|--|-------------|
| Existing production @ 60% of capacity =                  | 6,000 units |
| New order for 20% of capacity = $6,000 / 60 \times 20 =$ | 2,000 units |
|  | -----       |
| Required production                                      | 8,000 units |
|  | -----       |

Sales proceeds on 6,000 units @ Rs.14.30 each = Rs.85,800

|  | Rs.   | Rs.   | Total Cost<br>Rs. |
|--|-------|-------|-------------------|
| Direct Materials   | 3.50  |       |                   |
| Add: Increase @ 6%   | 0.21  | 3.71  | 29,680            |
| Direct wages   | 1.25  |       |                   |
| Add: increase @ 8%   | 0.10  | 1.35  | 10,800            |
| Works overheads  |       |       |                   |
| Fixed (50% of Rs.6.25)                                     | 3.125 |       |                   |
| Add: Increase @ 10%  | 0.312 | 3.44  | 27,520            |
| Variable   |       | 3.125 | 25,000            |
| Sales overheads  |       |       |                   |
| Fixed (75% of Rs.0.80)                                     | 0.60  |       |                   |
| Add: Increase @ 10%  | 0.06  | 0.66  | 5,280             |
| Variable   |       | 0.20  | 1,600             |
| Total cost of production                                   |       |       | <b>99,880</b>     |
| Add: Desired profit would be                               |       |       | 16,730            |
| Total sales price will be for<br>8,000 units               |       |       | 1,66,610          |
| Less: Sales price of existing<br>production of 6,000 units |       |       | 85,800            |
| increase in the sales for 20,000<br>units                  |       |       | <b>30,810</b>     |

Sale price per unit of fresh order =  $30,810 / 20,000 = \text{Rs. } 15.40$

**Illu.8 : The account of a manufacturing company for a year are as follows:**

|                  | Rs.      |                      | Rs.      |
|------------------|----------|----------------------|----------|
| Direct materials | 8,75,000 | Other variable costs | 4,00,000 |

|                                   |                 |                          |                  |
|-----------------------------------|-----------------|--------------------------|------------------|
| <b>Direct wages</b>               | <b>5,00,000</b> | <b>Other fixed costs</b> | <b>4,00,000</b>  |
| <b>Variable factory overheads</b> | <b>5,00,000</b> | <b>Profit</b>            | <b>5,75,000</b>  |
| <b>Fixed factory overheads</b>    | <b>5,00,000</b> | <b>Sales</b>             | <b>37,50,000</b> |

The products X and Y are manufactured during the year and costs were as follows:

|                                  | <b>X Rs.</b>    | <b>Y Rs.</b>  |
|----------------------------------|-----------------|---------------|
| <b>Out put (units)</b>           | <b>1,00,000</b> | <b>50,000</b> |
| <b>Selling price per unit</b>    | <b>20</b>       | <b>35</b>     |
| <b>Direct materials per unit</b> | <b>5</b>        | <b>7.50</b>   |
| <b>Direct wages per unit</b>     | <b>2.50</b>     | <b>5</b>      |

Factory overheads are absorbed as a percentage on direct wages, other overheads half fixed, half variable have been computed to amount to Rs.2.50 per unit of product X and Rs.3.00 per unit for Y. During the coming year, it is expected that demand for product X will fall by 25% and for product Y by 50%; it is decided to manufacture a further product Z; the costs etc; for which are estimated as follows:

|                                  |                 |
|----------------------------------|-----------------|
| <b>Output (unit)</b>             | <b>1,00,000</b> |
|                                  | <b>Rs.</b>      |
| <b>Selling price per unit</b>    | <b>17.50</b>    |
| <b>Direct materials per unit</b> | <b>5.00</b>     |
| <b>Direct wages per unit</b>     | <b>2.50</b>     |

It is anticipated that the other variable costs per unit will be the same as that of Product X. Compute a budget to present to management, showing the current position and the anticipated result for the coming year.

**Solution :****Estimated Sales (in no. of units):**

|                     | X        | Y        | Z          | Total    |
|---------------------|----------|----------|------------|----------|
| Current Year        | 1,00,000 | 50,000   |            | 1,50,000 |
| Increase Decrease   | - 25,000 | + 25,000 | + 1,00,000 |          |
| Sales for next year | 75,000   | 75,000   | 1,00,000   | 2,50,000 |

**Estimated Budget**

|                             | Product |                 | Rs.      | For Next year | For Current Year Rs. |
|-----------------------------|---------|-----------------|----------|---------------|----------------------|
| Direct Materials:           | X       | 75,000 x 5.00   | 3,75,000 |               | 8,75,000             |
|                             | Y       | 75,000 x 7.50   | 5,62,500 |               |                      |
|                             | Z       | 1,00,000 x 5.00 | 5,00,000 | 14,37,500     |                      |
| Direct wages:               | X       | 75,000 x 2.50   | 1,75,000 |               |                      |
|                             | Y       | 75,000 x 5.00   | 3,75,000 |               | 5,00,000             |
|                             | Z       | 1,00,000 x 2.50 | 2,50,000 | 8,00,000      |                      |
| Variable factory overheads: | X       |                 | 1,75,000 |               | 5,00,000             |
|                             | Y       |                 | 3,75,000 |               |                      |
|                             | Z       |                 | 2,50,000 | 8,00,000      |                      |
| Fixed factory overheads     |         |                 |          | 5,00,000      | 5,00,000             |
| (5) Other variable costs    | X       | 75,000 x 2.50   | 1,75,000 |               | 4,00,000             |
|                             | Y       | 75,000 x 3.00   | 2,25,000 |               |                      |
|                             | Z       | 1,00,000 x 2.50 | 2,50,000 | 6,50,000      |                      |

|                                |   |                  |           |           |           |
|--------------------------------|---|------------------|-----------|-----------|-----------|
|                                |   |                  |           | 4,00,000  | 4,00,000  |
| (6) Other fixed costs          |   |                  |           | 45,87,500 | 31,75,000 |
| Profit for the year (Bal. Fig) |   |                  |           | 12,87,500 | 5,75,000  |
| Sales                          | X | 75,000 x 20      | 15,00,000 |           |           |
|                                | Y | 75,000 x 35      | 26,25,000 |           |           |
|                                | Z | 1,00,000 x 17.50 | 17,50,000 | 58,75,000 | 37,50,000 |

**Illu.9 : The cost of an article at the capacity of 5000 units is given below. For variation of 25% in capacity above or below this level, the individual expenses vary as per details given against each cost.**

|                                 | Rs.           |                      |
|---------------------------------|---------------|----------------------|
| <b>Material Cost</b>            | <b>25,000</b> | <b>100% variable</b> |
| <b>Labour Cost</b>              | <b>15,000</b> | <b>100% Variable</b> |
| <b>Power</b>                    | <b>1,250</b>  | <b>80% variable</b>  |
| <b>Repairs</b>                  | <b>2,000</b>  | <b>75% variable</b>  |
| <b>Stores</b>                   | <b>1,000</b>  | <b>100% variable</b> |
| <b>Inspection</b>               | <b>500</b>    | <b>20% variable</b>  |
| <b>Depreciation</b>             | <b>10,000</b> | <b>100% Fixed</b>    |
| <b>Administrative Overheads</b> | <b>5,000</b>  | <b>25% variable</b>  |
| <b>Selling overheads</b>        | <b>3,000</b>  | <b>50% Variable</b>  |
| <b>Total</b>                    | <b>62,750</b> |                      |

**Cost per unit Rs.12.55**

**Prepare the flexible budget at 4,000 and 6,000 units and find out unit cost.**

**Solution :**

**Flexible Budget**

| Particulars               | Out put: 4,000 units |               | Out put: 6,000 units |                 |
|---------------------------|----------------------|---------------|----------------------|-----------------|
|                           | Per unit<br>(Rs.)    | Amount (Rs.)  | Per unit<br>(Rs.)    | Amount<br>(Rs.) |
| Materials                 | 5.00                 | 20,000        | 5.00                 | 30,000          |
| Labour cost               | 3.00                 | 12,000        | 3.00                 | 18,000          |
| Stores                    | 0.20                 | 800           | 0.20                 | 1,200           |
| <b>Prime cost</b>         | <b>8.20</b>          | <b>32,800</b> | <b>8.20</b>          | <b>49,200</b>   |
| Works overheads:          |                      |               |                      |                 |
| Power (Fixed)             | 0.06                 | 250           | 0.04                 | 250             |
| Power (Variable)          | 0.20                 | 800           | 0.20                 | 1,200           |
| Repairs (Fixed)           | 0.13                 | 500           | 0.08                 | 500             |
| Repairs (Variable)        | 0.40                 | 1,600         | 0.40                 | 2,400           |
| Inspection (Fixed)        | 0.10                 | 400           | 0.07                 | 400             |
| Inspection (Variable)     | 0.02                 | 80            | 0.02                 | 120             |
| Depreciation (Fixed)      | 2.50                 | 10,000        | 1.67                 | 10,000          |
| <b>Works Cost</b>         | <b>11.61</b>         | <b>46,430</b> | <b>10.68</b>         | <b>64,070</b>   |
| Administrative overheads: |                      |               |                      |                 |
| Fixed                     | 0.94                 | 3,750         | 0.63                 | 3,750           |
| Variable                  | 0.25                 | 1,000         | 0.25                 | 1,500           |
| <b>Cost of Production</b> | <b>12.80</b>         | <b>51,180</b> | <b>11.56</b>         | <b>69,320</b>   |
| Selling overheads:        |                      |               |                      |                 |
| Fixed                     | 0.38                 | 1,500         | 0.25                 | 1,500           |
| Variable                  | 0.30                 | 1,200         | 0.30                 | 1,800           |
| <b>Cost of sales</b>      | <b>13.48</b>         | <b>53,880</b> | <b>12.11</b>         | <b>72,620</b>   |

∴ Cost per unit at 4,000 and 6,000 units are Rs.13.48 and Rs.12.11 respectively.

**Illu.10 : From the following information prepare a Cash Budget from 1<sup>st</sup> September 2002 to 31<sup>st</sup> December 2002:**

| Months    | Credit purchases<br>Rs. | Credit Sales<br>Rs. | Wages Rs. | Selling expenses<br>Rs. | Overheads<br>Rs. |
|-----------|-------------------------|---------------------|-----------|-------------------------|------------------|
| July      | 85,000                  | 1,60,000            | 32,000    | 8,000                   | 10,000           |
| August    | 92,000                  | 1,85,000            | 37,000    | 9,500                   | 11,500           |
| September | 1,00,000                | 2,10,000            | 42,000    | 10,500                  | 13,000           |
| October   | 1,20,000                | 2,45,000            | 49,000    | 12,500                  | 14,500           |
| November  | 90,000                  | 1,78,000            | 35,500    | 8,900                   | 10,500           |
| December  | 98,000                  | 1,82,000            | 36,000    | 9,000                   | 11,000           |

**Additional information:**

- Expected cash balance on 1<sup>st</sup> September 2002 Rs.10,500
- Period of credit allowed to debtors – 2 months
- Period of credit allowed by creditors – 1 month
- Lag in payment for wages, selling expenses and overheads 1 month.
- Selling commission @ 2% on sales is payable one month after sales.
- Expenditure on machinery worth Rs.50,000 is payable in October 2002.
- Expected cash sales per month Rs.15,000. No commission is payable on cash sales.

**Solution :**

**Cash Budget for September to December 2002**

| Particulars     | September<br>(Rs.) | October<br>(Rs.) | November<br>(Rs.) | December<br>(Rs.) |
|-----------------|--------------------|------------------|-------------------|-------------------|
| <b>Receipts</b> |                    |                  |                   |                   |
| Balance b/d     | 10,500             | 31,800           | 62,100            | 86,200            |

|                             |                 |                 |                 |                 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| Cash realised from debtors  | 1,60,000        | 1,85,000        | 2,10,000        | 2,45,000        |
| Cash sales (Expected)       | 15,000          | 15,000          | 15,000          | 15,000          |
|                             | <b>1,85,500</b> | <b>2,31,800</b> | <b>2,87,100</b> | <b>3,46,200</b> |
| <b>Payments:</b>            |                 |                 |                 |                 |
| Cash paid to creditors      | 92,000          | 1,00,000        | 1,20,000        | 90,000          |
| Payment of wages            | 37,000          | 42,000          | 49,000          | 35,500          |
| Payment of selling expenses | 9,500           | 10,500          | 12,500          | 8,900           |
| Payment of overheads        | 11,500          | 13,000          | 14,500          | 10,500          |
| Selling commission          | 3,700           | 4,200           | 4,900           | 3,560           |
|                             | <b>1,53,700</b> | <b>1,69,700</b> | <b>2,00,900</b> | <b>1,48,460</b> |
| <b>Closing balance</b>      | <b>31,800</b>   | <b>62,100</b>   | <b>86,200</b>   | <b>1,97,740</b> |

**Illu.12 : From the following figures prepare raw material purchase budget for January 2002.**

|                            | A        | B       | C        | D       | E       | F        |
|----------------------------|----------|---------|----------|---------|---------|----------|
| Estimated stock on Jan 1:  | 16,000   | 6,000   | 24,000   | 2,000   | 14,000  | 28,000   |
| Estimated stock on Jan 31: | 20,000   | 8,000   | 28,000   | 4,000   | 16,000  | 32,000   |
| Estimated consumption:     | 1,20,000 | 44,000  | 1,32,000 | 36,000  | 88,000  | 1,72,000 |
| Standard price per unit:   | Rs.2.50  | Rs.0.50 | Rs.1.50  | Rs.1.00 | Rs.2.00 | Rs.3.00  |

**Solution :**

**Raw Material Purchase Budget, January 2002**

|                       | A        | B      | C        | D      | E      | F        |
|-----------------------|----------|--------|----------|--------|--------|----------|
|                       | Rs.      | Rs.    | Rs.      | Rs.    | Rs.    | Rs.      |
| Estimated consumption | 1,20,000 | 44,000 | 1,32,000 | 36,000 | 88,000 | 1,72,000 |



|                                      |                 |               |                 |               |                 |                 |
|--------------------------------------|-----------------|---------------|-----------------|---------------|-----------------|-----------------|
| Add: Estimated stock<br>Jan 31       | 20,000          | 8,000         | 28,000          | 4,000         | 16,000          | 32,000          |
|                                      | <b>1,40,000</b> | <b>52,000</b> | <b>1,60,000</b> | <b>40,000</b> | <b>1,04,000</b> | <b>2,04,000</b> |
| Less: Estimated<br>stock on Jan 1    | 16,000          | 6,000         | 24,000          | 2,000         | 14,000          | 28,000          |
| Rate per unit 1                      | X 2.50          | X 0.50        | X 1.50          | X 1.00        | X 2.00          | X 3.00          |
| <b>Estimated<br/>purchases (Rs.)</b> | <b>3,10,000</b> | <b>23,000</b> | <b>2,04,000</b> | <b>38,000</b> | <b>1,80,000</b> | <b>5,28,000</b> |

**Illu.13 : A company manufacturers two products A and B. A forecast of the number of units to be sold in the first six months of the year is given below.**

|                 | <b>Product A</b> | <b>Product B</b> |
|-----------------|------------------|------------------|
| <b>January</b>  | <b>1,500</b>     | <b>3,000</b>     |
| <b>February</b> | <b>1,700</b>     | <b>3,000</b>     |
| <b>March</b>    | <b>2,100</b>     | <b>2,600</b>     |
| <b>April</b>    | <b>2,500</b>     | <b>2,200</b>     |
| <b>May</b>      | <b>2,900</b>     | <b>1,800</b>     |
| <b>June</b>     | <b>2,900</b>     | <b>2,000</b>     |

It is anticipated that (a) there will be no work – in progress at the end of any month, (b) Finished units equal to half the sales for next month will be in stock at the end of each month (including previous December)

**Budgeted production and production costs for the whole year are as follows:**

|   | <b>Product A</b> | <b>Product B</b> |
|---|------------------|------------------|
| <b>Production units</b>                         | <b>25,000</b>    | <b>26,000</b>    |
| <b>Per unit: Direct material</b>                | <b>Rs.13.00</b>  | <b>Rs.18.50</b>  |
| <b>Direct Labour</b>                            | <b>Rs.5.50</b>   | <b>Rs.8.00</b>   |
| <b>Total factory over head for the<br/>year</b> | <b>75,000</b>    | <b>1,04,000</b>  |

Prepare for five months ending May 31, a production budget for each month and a summarised cost budget.

**Solution :**

**Production Budget (for five months ending May, 31)**

|  | Jan<br>Units | Feb<br>Units | March<br>Units | April<br>Units | May<br>units |
|--|--------------|--------------|----------------|----------------|--------------|
| <b>Production A</b>                                    |              |              |                |                |              |
| Sales  | 1,500        | 1,700        | 2,100          | 2,500          | 2,900        |
| Add: Opening stock (half the sale for next month)      | 850          | 1,050        | 1,250          | 1,450          | 1,450        |
|  | <b>2,350</b> | <b>2,750</b> | <b>3,350</b>   | <b>3,950</b>   | <b>4,350</b> |
| Less: Opening Stock (half the sales current month)     | 750          | 850          | 1,050          | 1,250          | 1,450        |
| Budgeted production                                    | <b>1,600</b> | <b>1,900</b> | <b>2,300</b>   | <b>2,700</b>   | <b>2,900</b> |
| <b>Production B</b>                                    |              |              |                |                |              |
| Sales  | 3,000        | 3,000        | 2,600          | 2,200          | 1,800        |
| Add: closing stock (half the sales for current month)  | 1,500        | 1,300        | 1,100          | 900            | 1,000        |
|  | <b>4,500</b> | <b>4,300</b> | <b>3,700</b>   | <b>3,100</b>   | <b>2,800</b> |
| Less: Opening stock (half the sales for current month) | 1,500        | 1,500        | 1,300          | 1,100          | 900          |
| Budgeted Production                                    | <b>3,000</b> | <b>2,800</b> | <b>2,400</b>   | <b>2,000</b>   | <b>1,900</b> |

Total Budgeted production of Product A

$$= 1,600 + 1,900 + 2,300 + 2,700 + 2,900 = 11,400$$

Total Budgeted production of Product B

$$= 3,000 + 2,800 + 2,400 + 2,000 + 1,900 = 12,100$$

**Summarised Production Cost Budget****(for five months ending 31 May)**

|                           | Product A (11,400 Units) |                 | Product B (12,100 Units) |                 |
|---------------------------|--------------------------|-----------------|--------------------------|-----------------|
|                           | Per unit Rs.             | Amount Rs.      | Per unit Rs.             | Amount Rs.      |
| Direct Materials          | 13.00                    | 1,48,200        | 18.50                    | 2,23,850        |
| Direct Labour             | 5.50                     | 62,700          | 8.00                     | 96,800          |
| <b>Prime cost</b>         | <b>18.50</b>             | <b>2,10,900</b> | <b>26.50</b>             | <b>3,20,650</b> |
| Factory overheads         | 3.00                     | 34,200          | 4.00                     | 48,400          |
| <b>Cost of production</b> | <b>21.50</b>             | <b>2,45,100</b> | <b>30.50</b>             | <b>3,69,050</b> |

**Working Notes:**

$$\text{Factory Overheads per unit} = \frac{\text{Annual Overhead}}{\text{Annual output}}$$

$$\text{Product A} = \frac{\text{Rs.75,000}}{25,000} = \text{Rs.3}$$

$$\text{Product B} = \frac{\text{Rs.1,04,000}}{26,000} = \text{Rs.4}$$

**Illu.14 : You are required to prepare a sales overhead Budget from the estimates given below:**

|  |              |
|--|--------------|
|  | <b>Rs.</b>   |
| <b>Advertisement</b>                                       | <b>2,500</b> |
| <b>Salaries of the sales department</b>                    | <b>5,000</b> |
| <b>Expenses of sales department</b>                        | <b>1,500</b> |
| <b>Counter Salesman 's salaries and dearness allowance</b> | <b>6,000</b> |

**Commission to counter salesmen at 1% on their sales and expenses at 5% on their sales.**

**Sales during the period were estimated as follows:**

| <b>Counter Sales</b> | <b>Travelling Salesman 's</b> |
|----------------------|-------------------------------|
| <b>Rs.</b>           | <b>Rs.</b>                    |
| <b>80,000</b>        | <b>10,000</b>                 |
| <b>1,20,000</b>      | <b>15,000</b>                 |
| <b>1,40,000</b>      | <b>20,000</b>                 |

**Solution :**

**Sales overhead Budget**

|  | <b>Estimates Sales</b> |               |               |
|--|------------------------|---------------|---------------|
|  | <b>Rs.</b>             | <b>Rs.</b>    | <b>Rs.</b>    |
| <b>Fixed Overheads:</b>                      | 90,000                 | 1,35,000      | 1,60,000      |
| Advertisement                                | 2,500                  | 2,500         | 2,500         |
| Salaries of sales department                 | 5,000                  | 5,000         | 5,000         |
| Expenses of sales department                 | 1,500                  | 1,500         | 1,500         |
| Counter salesmen's salaries & D. A.          | 6,000                  | 6,000         | 6,000         |
|  | <b>15,000</b>          | <b>15,000</b> | <b>15,000</b> |
| <b>Variable overheads:</b>                   |                        |               |               |
| Counter salesman 's commission @ 1% on sales | 800                    | 1,200         | 1,400         |
| Travelling salesmen 's commission @ 10%      | 1,000                  | 1,500         | 2,000         |
| Expenses @ 5%                                | 500                    | 750           | 1,000         |
|  | <b>2,300</b>           | <b>3,450</b>  | <b>4,400</b>  |
| <b>Total Sales overheads</b>                 | <b>17,300</b>          | <b>18,450</b> | <b>19,400</b> |

## 13.11 QUESTIONS

### A. Short Answer Questions.

1. Limitations of Budgets
2. Zero base budgeting
3. Master Budget
4. Flexible Budget
5. Revision of Budget
6. Functional Budget
7. Write short note on Budget period
8. What is a production budget?

### B. Essay type Questions

1. Define Budget and budgetary control. Give a description of two important budgets.
2. What do you understand by budgetary control? Explain the mechanism that would lead to effective control.
3. Discuss briefly the objectives and limitations of budgetary control.
4. Define budget and budgetary control. Give description of two important budgets.
5. What are functional budgets? Which functional budgets are most commonly used by management.
6. Define flexible budget and explain its importance as a budgeting technique and tool of control.
7. Differentiate between Fixed Budget and Flexible Budgeting.
8. Enumerate the steps involved in budgetary control.

## 13.12 EXERCISES

1. The income and expenditure forecasts for months of March to August 2003 are given below.

| Month | Sales<br>(Credit) | Purchases<br>(Credit) | Wages  | Manufacturing<br>expenses | Office<br>expenses | Selling<br>expenses |
|-------|-------------------|-----------------------|--------|---------------------------|--------------------|---------------------|
| March | 60,000            | 36,000                | 9,000  | 3,500                     | 2,000              | 4,000               |
| April | 62,000            | 38,000                | 8,000  | 3,750                     | 1,500              | 5,000               |
| May   | 64,000            | 33,000                | 10,000 | 4,000                     | 2,500              | 4,500               |

|        |        |        |       |       |       |       |
|--------|--------|--------|-------|-------|-------|-------|
| June   | 58,000 | 35,000 | 8,500 | 3,750 | 2,000 | 3,500 |
| July   | 56,000 | 39,000 | 9,500 | 5,000 | 1,000 | 3,500 |
| August | 60,000 | 34,000 | 8,000 | 5,200 | 1,500 | 4,500 |

You are given the following further information.

- Plant costing Rs.16,000 is due for delivery in July payable 10% on delivery and the balance after 3 months.
- Advance tax of Rs.8,000 is payable in March and June each.
- Creditors allow 2 months credit and debtors are paying one month late.
- Opening balance of cash Rs.8,000 on May 1<sup>st</sup>.
- Lag in payment of expenses one month.

Prepare cash budget for the month May to July.

**[Ans.: Cash Budget : May Rs.15,750; June Rs.12,750; July Rs.18,400]**

- Prepare production cost budget from the following:

No. of units to be produced 1,500

Raw materials required 5 kgs per unit at a cost of Rs.20 per kg

Labour required 10 hours per unit at a wage rate of Rs.15 per hour

Other overhead expenses are 50 percent of labour.

**[Ans.: Production Cost Budget Per unit Rs.325; Amount Rs.4,87,500]**

- A company is presently operating at 60% of its capacity, producing 6000 units per annum. The expenses are as follows:

Materials Rs.100 per unit

Labour Rs.60 per unit

Expenses Rs.20 per unit

Factory overheads Rs.40,000 (40% fixed)

Administrative overheads Rs.30,000 (60% fixed)

Selling overheads Rs.20,000 (50% fixed)

You are required to prepare flexible budget for 80% and 100% capacity.

**[Ans.: Flexible Budget : 80% Capacity : per unit Rs.193.17 Total Cost]**

**Rs.15,45,360; 100% Capacity : Per unit Rs.192.07; Total Cost Rs.19,20,700]**

4. The budget expenses for the production of 10,000 units in a factory are furnished below :

|                                     | Per Unit (Rs.) |
|-------------------------------------|----------------|
| Materials                           | 70             |
| Labour                              | 25             |
| Variable overheads                  | 20             |
| Fixed overheads (Rs.1,00,000)       | 10             |
| Direct variable overheads           | 5              |
| Selling expenses (15% fixed)        | 13             |
| Distribution expenses (20% fixed)   | 7              |
| Administrative expenses (Rs.50,000) | 5              |
| Total                               | 155            |

Prepare a budget for the production 8,000 units

**[Ans.: Production budget : 8,000 units Rs.12,76,700]**

### 13.13 SUGGESTED READINGS

1. Bhattacharyya, S.K., John Dearden, Costing for Management, Vikas Publishing House Pvt. Ltd., 2002
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3. Lall Nigam, B.M., Cost Accounting Principles and practices, Prentice Hall of India Private Limited, New Delhi.
4. Pandey, I.M., Management Accounting, Vikas Publishing House Pvt. Ltd., 2001
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## Chapter - 14

# FINANCIAL MANAGEMENT NATURE & SIGNIFICANCE

### Objectives :

**After studying this lesson we may be able to**

- Understand the nature and significance of financial management
- Know the role and functions of a financial manager
- Evaluate the various techniques of financial management

### Structure :

- 14.1 Introduction**
- 14.2 Importance of Financial Management**
- 14.3 Scope of Financial Management**
- 14.4 Role of Finance Manager**
- 14.5 Techniques of Financial Management**
- 14.6 Questions**
- 14.7 Suggested Readings**

## 14.1 INTRODUCTION :

The dimensions of business finance have undergone phenomenal transformation during the last few decades. Until the recent past, business finance was considered as an economic activity, concerned with procurement of funds for business purposes and the finance manager was considered as keeper of books of accounts and provider of capital needed by the enterprise. However, manager has now become an integral part of the enterprise and is involved in the problems and decisions pertaining to the management of the assets of the enterprise. Role of finance managers has increased further in recent years following tectonic



policy reforms in economic system the world over leading to liberalization and globalization of business and enhanced competition. Hence comprehensive understanding of various concepts, principles, tools and techniques of finance have become inescapable.

Finance Management is a goal-oriented activity. It has been described as the blend of art and science through which the important decisions of what to invest in, how to finance it, and how to combine the two in order to maximize some appropriate objective, are taken. The broad and dynamic field of finance affects the financial lives of virtually every business – financial and non-financial, private and public, large and small, profit-seeking and nonprofit. The performance of the firm is measured in financial terms; the success of the firm depends on how it is perceived by, and reacts to, external economic markets. The field of finance is much more complicated and faster faced today. New technologies and relaxed regulation are changing the institutional setting. Financial markets are volatile, interest rates can move sharply up or down in a very short-term period. Important and swift development in the field of finance and application of new theories in decision-making environment yield new challenges and opportunities for financial managers. Knowledge of all these developments and their impact is necessary for the effective management and financial viability of the modern business firms. Financial managers need to know how effective decisions can be made, and ineffective ones be avoided. This chapter provides an introduction to the financial management by showing how it relates to the overall management and achievement of appropriate objectives of the business enterprises.

Financial Management is very important even in case of non-profit making organizations. A non-profit making organization may not be keen in earning the profit, but it needs to cut down its cost and use the funds in the most beneficial manner. A sound sense of financial management has to be cultivated among the engineers, administrators, educationists, bureaucrats and public at large in order to stop the wastage of capital resources.

**Business Finance** : According to J.H. Bonneville and Lloyd Ellis Dewey, “Business must be understood to embrace every human activity, usually activated by the hope of profits, whereby man’s wants are supplied. Lumbering, mining, fishing, farming, manufacturing, trading, transporting, shipping, building, merchandising and many other activities are businesses that help to supply material wants. The practices of law, medicine, dentistry, teaching, accounting, nursing, entertaining represent a few of the types of the business activities that supply desired

services.” Thus, business can be categorized into three groups: Commerce, Industry and Service.

The dictionary meaning of finance is the money affairs or revenue, especially of a ruler or states i.e., the art of managing or administering the public money (Government funds). But in practice, finance refers to both public finance and private finance such as sole trader, partnership and corporate organizations and recently developed joint ventures. Business finance may be defined as the process of raising, providing and managing of all the money to be used in connection with business activities. Other definitions are given below :

“Business Finance can be broadly defined as the activity concerned with planning, raising, controlling and administering of funds used in the business.” **Guthmann & Dongall.**

“Business Finance deals primarily with raising, administering and disbursing funds by privately owned business with operating in non-financial fields of industry.” **Prather & Wert.**

“The finance function is the process of acquiring and utilizing funds of a business.” **R.C. Osborn.**

## **14.2 IMPORTANCE OF FINANCIAL MANAGEMENT :**

Financial Management is one of the most private functional areas of management, as the effectiveness of a business enterprise largely depends on the efficient utilization of its financial resources. In fact, sound financial management is a key to successful business operations, and thereby to the growth and success of business undertakings. The importance of financial management has enormously enhanced during the last decade due to a number of factors including persistent inflation, labour agitation for increase in wages and bonus, governmental regulation of business, technological change requiring high capital intensity in business operations, increasing competition and growing concern for social responsibility. The importance of financial management may be discussed under the following heads :

- 1. Importance to Business Executives :** Financial Management is one of the most significant functional areas of management. The subject is of prime importance to the business executives for the efficient functioning of their enterprises. Financial management helps the business executives in making all the strategic managerial decisions. It assists the managers in determining the financial needs of the enterprise and allocation of funds to

specific capital projects. Financial management also plays an important role in the determination of dividend policy, merger and acquisition decisions, credit policy, etc. The modern tools and techniques of financial management enable business managers to effectively manage the working capital of the firm. Budgets serve as chief instruments of financial planning and control in the hands of business executives. Managers are the trustees of shareholders' funds. They provide capital to a company with the expectation of earning a competitive rate of return from their investment. In order to attract and retain the share capital, it is necessary for the managers to fulfil the expectation of shareholders by distributing reasonable dividends to them. This is only possible when business executives have full knowledge of the principles of financial management. The dominant objective of every business enterprise is to maximize the profits by maximizing the production at the least cost. Financial management leads the managers in achieving this objective, and helps them in discharging their obligations to different parties. Financial management is, therefore, of pivotal significance to the business executives not only in co-ordinating various functional activities and smooth functioning of an enterprise but also in effective decision making for the successful and efficient functioning of the undertaking.

- 2. Importance to Potential Investors :** Investors of different classes are also benefited by the subject of financial management. Investors generally arrange to invest their savings through security dealers and financial brokers. But it is not expected that they would always take rational decisions regarding the selection of company as well as securities. Thus, the investors having knowledge of the principles of financial management can themselves take a satisfactory decision on this subject, and can safely earn regular income on their accumulated capital. Speculator investors can also avail the advantage of the knowledge of financial management. Besides this, corporations are also able to earn maximum profits with the help of efficient financial management. Consequently, the investors get maximum rate of return on their investment.
- 3. Importance to Shareholders :** The knowledge of financial management is equally useful to shareholders. Although shareholders are the owners of a company, but the management of corporations is left on the elected board of directors. It is, therefore, necessary for the shareholders to appraise that to what extent the managers / directors are discharging their duties in the interest of shareholders. If shareholders are well acquainted with the principles

of financial management, they can safeguard their interest in the company by suitably appraising its financial position. If the managers / directors of the corporation do anything against their interest, the shareholders can make them to follow a suitable financial policy. Thus, the knowledge of financial management is inevitable for the shareholders in order to preserve and protect their inherent interest in the company. The shareholders can lead the company to earn more profits by persuading and forcing the managers / directors of the company to follow a suitable financial policy, and consequently they can receive higher dividends on their investments.

- 4. Importance to Financial Institutions :** The existence of financial institutions absolutely depends on effective financial management. Thus, it is indispensable for them to be well versed with every aspect of financial management for the profitable employment of their funds. Investment banks, under writers, trustee companies, commercial banks and other financial institutions must have full knowledge of financial management. Otherwise, they would remain unsuccessful in achieving their goals and in providing guidance to their customers willing to invest their savings.
- 5. Importance to Employees :** The main objective of employees is to maximize their financial and non-financial benefits. On the basis of sound financial management, the managers of an enterprise can protect their interests by raising the productivity and efficiency of the employees. Thus, employees are also benefited by sound financial management.
- 6. Importance to Government :** It is also essential for the government to have full knowledge of every aspect of financial management. Government attempts to effectively utilize the funds collected from the public in the form of taxes. In the absence of full knowledge of financial management, it becomes impossible for the government to attain maximum social welfare out of the public expenditure. Thus, the economic and social revolution of any country largely hinges upon sound financial management by its government.
- 7. Importance to Other Parties:** All such parties as economists, students of commerce and management, politicians, sociologists etc., having interest in the economic problems of the country, are also benefited by the knowledge of financial management. In the absence of full knowledge of the principles of financial management, it is difficult to undertake reliable studies on economic problems of a country.

It is clear from the above discussion that the importance of financial management has enormously increased during recent years due to a number of factors including persistent inflation, dear money policy of the government, rapid technological changes, severe competition, governmental regulation of business and growing concern for social responsibility. It is not only useful to managers, shareholders, potential investors, financial institutions, employees and the Government, but also equally important for economists, sociologists, politicians etc., having interest in the economic problems of the country.

### **14.3 SCOPE OF FINANCIAL MANAGEMENT :**

In order to understand more clearly the meaning of business finance it is worth while to highlight the scope of business finance. At the outset, it may be pointed out that business finance is concerned with finances of profit-seeking organizations only and is an important segment of private finance.

Finance as such is but one facet of broader economic activity of mobilizing savings and directing them in investments. Finance includes both public and private finance. Public finance is the study of principles and practices pertaining to the acquisition of funds, meeting the requirements of government bodies and administration of funds, meeting the requirements of government bodies and administration of these funds by the government. Contrary to this, private finance concerns with procuring money for private organizations and management of the money by individuals, voluntary associations and corporations. Private finance, therefore, comprises personal finance, business finance and finance of non-profit organizations. Personal finance seeks to analyze the principles and practices of managing one's own daily affairs. Study of practices, procedures and problems concerning financial management of profit-making organization in the field of industry, trade and service and mining is undertaken in business finance. The finance of non-profit organization deals with the practices, procedures and problems involved in financial management of educational, charitable and religious and the like organizations.

## 14.4 ROLE OF FINANCE MANAGER :

The traditional role of the finance manager is to confine to the raising of funds in order to meet operating requirements of the business. This traditional approach has been criticized by modern scholars on the following grounds. It was prevalent till the mid-1950's.

- (1) The traditional approach of raising funds alone is too narrow and thus it is outsider-looking-in approach.
- (2) It viewed finance as a staff specialty.
- (3) It has little concern how the funds are utilized.
- (4) It over-emphasized episodic events and non-recurring problems like the securities and its markets, incorporation, merger, consolidation, reorganization, re-capitalization and liquidation etc.
- (5) It ignored the importance of working capital management.
- (6) It concentrated on corporate finance only and ignore the financial problems of sole trader and partnership firms.
- (7) Traditional approach concentrated on the problems of long-term financing and ignored the problems of short-term financing.

There was a change from traditional approach to the modern concept of finance function since the mid-1950's. The industrialization, technological innovations and inventions and a change in economic and environment factors since the mid-1950's necessitated the efficient and effective utilization of financial resources. Since then, finance has been viewed as an integral part of the management. The finance manager is therefore concerned with all financial activities of planning, raising, allocating and controlling the funds in an efficient manner. In addition, profit planning is another important function of the finance manager. This can be done by decision-making in respect of the following areas :

- (1) Investment Decisions for obtaining-maximum profitability after taking the time value of the money into account.
- (2) Financing decisions through a balanced capital structure of Debt Equity ratio, sources of finance, EBIT / EPS computations and interest coverage ratio etc.
- (3) Dividend decisions, issue of Bonus Shares and retention of profits with objective of maximization of market value of the equity share.

- (4) Best utilization of fixed assets.
- (5) Efficient working capital management (inventory, debtors, cash marketable securities and current liabilities).
- (6) Talking the cost of capital, risk, return and control aspects into account.
- (7) Tax administration and tax planning.
- (8) Pricing, volume of output, product mix and cost-volume-profit analysis (CVP Analysis)
- (9) Cost Control.

#### 14.4.1 Functions of Financial Controller :

The important functions of a financial controller in a large business firm consist of the following :

- |                          |   |
|--------------------------|---|
| Provision of capital -   | To establish and execute programmes for the provision of capital required by the business.  |
| Investor relations -     | To establish and maintain an adequate market for the company's securities and to maintain adequate liaison with investment bankers, financial analysts and shareholders.                                    |
| Short-term financing -   | To maintain adequate sources for company's current borrowing from commercial banks and other lending institutions.  |
| Banking and custody -    | To maintain banking arrangement, to receive, have custody of and disburse the company's monies and securities.  |
| Credit and collections - | To direct the granting of credit and the collection of accounts due to the company, including the supervision of required special arrangements for financing sales, such as time payment and leasing plans. |
| Investments -            | To achieve the company's funds required, and to establish policies for investment in pension and other similar trusts.  |

- Insurance - To provide insurance coverage as required.
- Planning for control - To establish, co-ordinate and administer an adequate plan for the control of operations.
- Reporting & interpreting - To compare performance with operating plans and standards, and to report and interpret the results of operations to all levels of management and to the owners of the business.
- Evaluation & consulting - To consult with all segments of management responsible for policy or action concerning any phase of the operation of the business as it relates to the attainment of objectives and the effectiveness of policies, organization structure and procedures.
- Tax administration - To establish and administer tax policies and procedures.
- Government reporting - To supervise or co-ordinate the preparation of reports to government agencies.
- Protection of assets - To ensure protection of assets for the business through internal control, internal auditing and proper insurance coverage.
- Economic appraisal - To appraise continuously economic, social forces and government influences, and to interpret their effect upon the business.
- Managing fund - To maintain sufficient funds to meet the financial obligations.
- Measuring of return - To determine required rate of return for investment proposals.
- Cost control - To facilitate cost control and cost reduction by establishment of budgets and standards.
- Price setting - To supply necessary information for setting of prices of products and services of the concern.
- Forecasting profits - To collect relevant data to make forecast of future profit levels.



Forecast cash flow - To forecast the sources of cash and its probable payments and to maintain necessary liquidity of concern.

## 14.5 Techniques of Financial Management :

The important techniques of Financial Management are summarized as follows :

- (a) **Common size statements** : The common size financial statements are those in which figures reported are converted into percentage to some common base. Common size balance sheet and income statement are prepared for vertical analysis and interpretation is done for identification of causes for changes taken place over a period of time. The items in the financial statements are presented as percentages or ratios to total of items and a common base for comparison is provided. Each percentage shows the relation of the individual item to its respective total.
- (b) **Trend Ratios** : Trend ratios are the index numbers of the movements of financial figures reported in the financial statements for more than one accounting period. It is a statistical technique adopted to reveal the trend of financial items which are used in analysis of behaviour of financial items and for preparation of projected financial statements. In preparation of trend ratios, the base accounting period should be selected and the financial figures of that base period should be given the index number of 100. The trend ratios are calculated for the subsequent accounting periods taking the base period trend ratio as 100. The trend percentages are calculated for select major financial items in the financial statements to arrive at the conclusions for important changes.
- (c) **Cash flow Analysis** : The preparation of cash flow statements has been made mandatory. A statement of cash flow reports the cash receipts and cash payments and net changes in cash resulting from operations, investing and financing activities of an enterprise during the period. The cash flow statement reconciles the opening and closing balances of cash and cash equivalents for the reported accounting period. It reports a net cash inflow or outflow for each activity and for the overall business.
- (d) **Funds Flow Analysis** : The funds flow analysis gives the details of changes in financial position of a concern between two balance sheet dates. It is based on net working capital concept, which is termed as 'Fund'. The funds flow statement contains the details of

financial resources, which have become available during the accounting period and the ways in which those resources have been used up. The flow of funds refers to movement of funds, which cause a change in working capital of the organization. The net increase or decrease in working capital will be further analyzed through preparation of statement of changes in working capital position. Funds flow statement is a parameter for testing of the effective use of working capital. The analysis is particularly useful for long range planning where projections of liquid resources are vital.

**(e) Ratio Analysis :** Ratio analysis is used as an important tool in analysis of financial statements. Ratios are used as an index or yardstick for evaluating the financial position and performance of a firm. Ratio is the expression of one figure in terms of another. It is the expression of the relationship between mutually independent figures. Ratio analysis used financial report and data and summarizes the key relationship in order to appraise financial performance. It helps the analysts to make quantitative judgement about the financial position and performance of the firm. There are various ratios, which are used by different parties for different purposes and can be calculated from the information given in financial statements. The comparison of past ratios with future ratios shows the firm's relative strength and weaknesses.

**(f) Capital Budgeting Techniques :** Investment in long-term assets for increasing the revenue of firm is called as 'capital budgeting'. It is a decision to invest funds in long-term activities for future benefits that increase the wealth of the firm thereby increase the wealth of owners. Capital budgeting refers to long-term planning for proposed capital outlays and their financing. The future growth of a firm depends on capital expenditure decisions. Capital budgeting involves large amount of funds, risk and uncertainty and they are of an irreversible nature. Estimation of cash flow is very important for evaluating the investment proposals. Capital budgeting results the exchange of current fund for future benefits which will occur over a series of years to come. The important techniques used in capital investment appraisal are as follows :

- Payback period method
- Accounting rate of return method
- Net present value method
- Internal rate of return method

- Profitability index method
- Discounted payback period method etc.

**(g) Working Capital Management :** In the efficient working capital management some of the techniques like economic order quantity, ABC analysis, fixation of inventory levels, cash management models are adopted.

**(h) Capital Structure :** The finance manager has to decide an optimum capital structure to maximize the wealth of shareholders. In capital structure decisions – analysis of operating and financial leverages, cost of different components of capital, EPS – EBIT analysis ascertainment of EPS of different financing alternatives, determination of financial break-even point, indifference point analysis and other mathematical models are used.

## 14.6 QUESTIONS

### A. Short Answer questions

1. Business finance
2. Scope of financial management
3. Definition of finance

### B. Essay Questions

1. "Finance is the study of money management." Comment.
2. Discuss the nature and scope of finance
3. Define the scope of financial management, and explain the role of financial management
4. Discuss the importance of financial management
5. Explain the role of finance manager in an organisation
6. What are the functions of a financial controller.
7. Briefly explain the techniques of financial management

## 14.7 SUGGESTED READINGS

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## Chapter - 15

# FINANCE FUNCTION

### Objectives :

This lesson helps you in

- Understanding the meaning of finance function
- Know various approaches to the study of finance function
- Find out the components of finance function
- Preparing a model for the organisation of finance function.

### Structure :

- 15.1 Meaning of Finance Function**
- 15.2 Approaches to Finance Function**
- 15.3 Finance Function**
- 15.4 Organization of Finance Function**
- 15.5 Questions**
- 15.6 Suggested Readings**

### 15.1 Meaning of Finance Function :

Financial Management is concerned with the determination of financial needs of the firm, procurement of funds, allocation of financial resources, control of financial activities and performance as well as with the development of financial data for decision-making. It has traversed a long course before becoming a co-ordination and decision-making function.

Originally, the finance function was concerned with the procurement of funds and legalistic matters relating thereto. The discipline of financial management at this stage concentrated heavily on the description of financial markets, types of securities, and techniques of raising funds. The financial manager was not involved in the process of decision-making pertaining to

critical financial matters. During the depression of 1930's, the focus of financial management shifted to mergers, reorganizations, financial liquidity etc., but financial management as a discipline continued as descriptive subject until early 1950's. major focus was on 'outsider's view' rather than 'insider's view' of finance function. The approach was to look at finance from the point of view of an outsider such as creditors and shareholders, rather than focus on financial decision making.

Significant developments took place in the field of financial management during the second half of 1950's. the focus shifted from the 'outsider's view' of the finance function to the to the 'insider's view', and financial decision-making occupied the prime place in the studies of corporate finance. Greater attention was paid to the administrative aspects of financial management such as – cash budgeting and forecasting, management of accounts receivables, management of inventories, management of assets, control of expenses etc. Capital budgeting decisions involving allocation of funds to individual investment projects on the basis of rational appropriate acceptance criteria, became one of the major responsibilities of the financial executive. Mathematical models were developed and applied to the management of cash and inventory management. Concepts and techniques of capital budgeting and cost of capital were developed to help the financial executive in decision-making. Theory of capital structure and dividend along with these developments led to the emergence of an integrated theory of financial management. It has now developed from descriptive discipline to an analytical and prescriptive one. It now deals with rigorous analysis of the totality of the finance function, and provides practical guidance to decision-makers. Along with the procurement of funds, finance function is now also concerned with capital budgeting, management of fixed and current assets, valuation of firm and dividend policy. It focuses on financial decision-making within the firm.

It is going through a process of further change and development. Electronic data processing systems and further application of the tools of operations research will lead to its greater refinement and sophistication. Thus, it is right to say that the concept of finance function has substantially changed, and still it is going through a process of further change and development along with the evolution of the content of finance as a management activity.

## 15.2 Approaches to Finance Function :

Business firms are generally profit-seeking organizations. Accordingly, their objectives are usually expressed in financial terms. From this standpoint, two well-known and widely discussed objectives of the firm are :

- Profit maximization
- Value maximization

### 15.2.1 Profit maximization :

Microeconomic theory on how the firm should and does behave is based on profit maximization as a decision criterion. Actions that increase the firm's profit are undertaken and those that decrease profit are avoided. To maximize profit, the firm must maximize output for a given set of scarce inputs, or, equivalently, minimize the cost of producing a given output. In other words, the firm must be efficient in its use of scarce resources.

It is argued that under conditions of perfect competition (where prices reflect true values and all the consumers are well informed), the profit maximization objective leads to an efficient allocation of resources and maximum social welfare in that goods and services desired by society are produced in the greatest quantity possible, given the available stock of productive resources. But it suffers from a number of shortcomings.

The first objection (ethical but not economic) is that it leads to a serious inequality of income and wealth among different groups. But the counter argument is that society as a whole is benefited because of the economic efficiency of the firm.

The second objection is that it does not take care of uncertainty. So when future profits are uncertain, the profit maximization objective loses its significance, for it is no longer clear what is to be maximized. Should actions be taken to maximize the likelihood of favourable outcomes, or to minimize the likelihood of unfavourable outcomes?

Another shortcoming of the profit maximization criterion is that it does not take into consideration the timing of future benefits (profits) from investment. In practice, most investment

decisions involve complex patterns of cash flows over time. The fact that money has a time value has to be recognized in the decision-making process. But the profit maximization criterion does not take into account the differences in timing of cash flows and thus the time value of money.

Ambiguity is often said to be another shortcoming of the profit maximization criterion. Profit figures may vary widely depending upon the accounting conventions used. This may render the measurement of profits ambiguous.

It is because of the above shortcomings that profit maximization has been replaced by value or wealth maximization as the operational criterion for financial management decisions.

### **15.2.2. Value (or wealth) maximization :**

The value maximization objective refers to maximizing value for its shareholders. Value is represented by the market price of the firm's equity / ordinary shares. This, in turn, is a function of the firm's investment, financing and dividend decisions. In other words, the firm acquires assets and invests in new products and services where the expected returns exceed their cost, finances with those instruments where there is tax or other advantage, and undertakes a meaningful dividend policy for its shareholders. All these functions are expected to create value for its shareholders. The market price of a company's share represents the value that market participants place on the company. The share price involves risk and expected return. The market price serves

$$\text{Market value per share} = \frac{\text{Average annual future maintainable profits after tax}}{\text{Expected shareholder's return}}$$

as a performance index or report card of the firm's progress; it indicates how well the management is performing on behalf of the shareholders. Value maximization objective is also called the wealth maximization objective of the firm. How can one estimate the market value of shares based on firm-oriented variables? The current value of the equity shares of a firm is expressed as a function of future earnings and required return.

Thus, the market value per share tends to increase when profitability increases, other factors remaining constant. Value maximization is based on the general principle of profit maximization, i.e., optimization with respect to owner interests.



### 15.2.3 Maximization of wealth :

Wealth maximization objective is a widely recognized criterion with which the performance of a business enterprise is evaluated. The word wealth refers to the net present worth of the firm. Therefore, wealth maximization is also stated as net present worth. Net present worth is the difference between gross present worth and the amount of capital investment required to achieve the benefits. gross present worth represents the present value of expected cash benefits discounted at a rate which reflects their certainty or uncertainty. Thus, wealth maximization objective as decisional criterion suggests that any financial action which creates wealth or which has a net present value above zero is desirable one and should be accepted and that which does not satisfy this test should be rejected.

Algebraically, net present value or worth can be expressed as follows, using Ezra Solomon's symbols and models.

$$W = \frac{A_1}{(1+K)} + \frac{A_2}{(1+K)} + \dots + \frac{A_n}{(1+K)^n} - C$$

$$= \sum_{t=1}^n \frac{A_t}{(1+K)^t} - C$$

Where W = net present worth

$A_1, A_2 \dots A_n$  = the stream of benefits expected to occur from a course of action over a period of time.

K = appropriate discount rate to measure risk and timing.

C = initial outlay required to acquire the asset.

The wealth maximization objective when used as decisional criterion serves as a very useful guideline in taking investment decisions. This is because the concept of wealth is very clear. It represents present value of the benefits minus the cost of the investment. The concept of cash flow is more precise in connotation than that of accounting profit. Thus, cash benefits of a project with higher risk exposure is discounted at a higher discount rate (cost of capital), while lower discount rate is applied to discount expected cash benefits of a less risky project. In this way, discount rate used to determine present value of future streams of cash earnings reflects both the time and risk.

In view of the above reasons, wealth maximization objective is considered superior to profit maximization objective. It may be noted here that value maximization objective is imply the

extension of profit maximization to real life situations. Where the time period is short and magnitude of uncertainty is not great, value maximization and profit maximization amount to almost the same thing.

### 15.3 Finance Function :

The functions of financial management have undergone significant changes over the years. Until about the middle of this century, it was generally defined to include only matters pertaining to the left side of the balance sheet – it was restricted to procurement of funds. Needless to mention, this function of procurement of funds was necessary during major events, such as promotion, expansion, merger, reorganization, etc., in the life of a firm. This was known as the traditional function of financial management. The traditional approach looked at the matter from the investors' (i.e., outsiders') point of view – the finance manager had no concern with decisions concerning allocation of funds; he was required to procure the funds from the right sources at the right time.

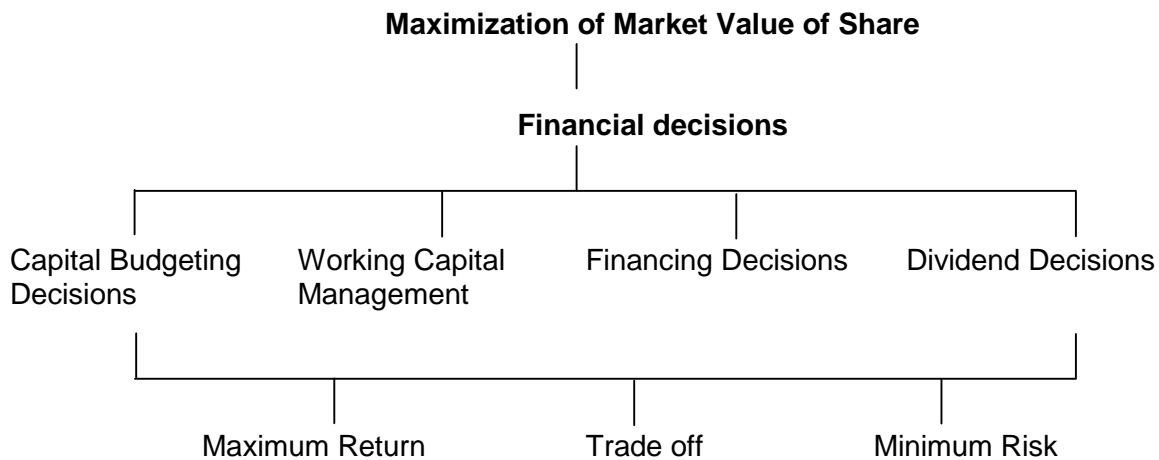
But beginning in the 1950s, a broader definition of financial management began to emerge. It came to be considered an integral part of general management rather than a staff specially concerned only with administering sources of funds. It was now also concerned with decisions pertaining to uses of funds and those to the payment of dividend. The former determines the nature of the firm's business and is known as investment decisions. This is nothing but employment of fund in profitable opportunities in the form of long-term and short-term assets to generate surplus. To what extent this 'surplus' can distributed to the shareholders as dividend depends on the consideration of a host of factors and alternatives. So, dividend decision also becomes an important part and parcel of the proper financial management of the firm. Accordingly, the modern approach is to consider the following as the important functions of financial management :

- (a) Investment decisions,
- (b) Financing decisions, and
- (c) Dividend decisions.

The major financial decisions of the Financial Manager can be seen vividly from the following chart.

#### Financial Management

|



Let us now discuss the financial decisions of a Finance Manager.

### 15. 3.1 Investment Decision :

The investment decision relates to the selection of assets in which funds will be invested by a firm. The assets which can be acquired fall into two broad groups : (I) long-term assets which will yield a return over a period of time in future. (ii) Short-term current assets defined as those assets which in the normal course of business are convertible into cash, usually within a year. Accordingly, the asset selection decision of a firm is of two types. The first of these involving the first category of assets is popularly known in the financial literature as capital budgeting. The aspect of financial decision-making with reference to current assets or short-term assets is popularly designated as working capital management.

- (i) Capital Budgeting :** Capital budgeting means the long-term investment decision of a firm. It is probably the most crucial financial decision of a firm. It relates to the selection of an investment proposal whose benefits are likely to be available in future over the life-time of the project. The long-term assets can be either new or old / existing ones. The main elements of the capital budgeting decision are :
- (i) the total assets and their composition;
  - (ii) the business risk complexion of the firm, and;
  - (iii) concept and measurement of cost of capital.

- (a) Evaluation Methods** : The first aspect of the capital budgeting decision relates to the choice of the new asset out of the alternatives available. Whether an asset will be accepted or not will depend upon the relative benefits and returns associated with it. The measurement of the worth of the investment proposals is, therefore, a major element in the capital budgeting exercise. This implies a discussion of the methods of appraising investment proposals viz., Payback period method, Accounting Rate of Return method and Discounted Cash Flow Methods.
- (b) Risk and Uncertainty** : The second element of the capital budgeting decision is the analysis of risk and uncertainty. Since the benefits from the investment proposals extend into the future, their accrual is uncertain. They have to be estimated under various assumptions of the physical volume of sale and the level of prices. An element of risk in the sense of uncertainty of future benefits, is thus, involved in the exercise. The return from the capital budgeting decision should, therefore, be evaluated in relation to the risk associated with it.
- (c) Cost of Capital** : Finally, the evaluation of the worth of a long-term project implies a certain norm or standard against which the benefits are to be judged. The requisite norm is known by different names such as cut-off rate, hurdle rate, required rate, minimum rate of return and so on. This standard is broadly expressed in terms of cost of capital. The concept and measurement of cost of capital, is thus, another major aspect of the capital budgeting decision.
- (ii) Working Capital Management** : Working capital management is concerned with the management of the current assets viz., Cash, Receivables and Inventory. It is an important and integral part of financial management as short-term survival is a pre-requisite to long-term success. One aspect of the working capital management is the trade-off between profitability and risk (liquidity). There is a conflict between profitability and liquidity. If a firm does not have adequate working capital, i.e., it does not invest sufficient funds in current assets, it may become liquid. Consequently, the firm may not have the ability to meet its

current obligations and thus invite the risk of bankruptcy. If the current assets are too large, the profitability is adversely affected.

The key strategies and considerations in ensuring a trade-off between profitability and liquidity is one major dimension of working capital management. In addition, the individual current assets should be efficiently managed so that neither they are inadequate nor unnecessarily funds are locked up. To summarize, the management of working capital has two basic ingredients, namely (1) an overview of working capital management as a whole, and (2) efficient management of the individual current assets. Thus, the investment decision is broadly concerned with the asset-mix or the composition of the assets of a firm.

### **15. 3.2 Financing Decision :**

The second major decision involved in financial management is the financing decision. The concern of the financial decision is with the financing-mix or capital structure or leverage of a firm. The term capital structure refers to the proportion of equity and debt (fixed interest or bearing funds) in the total capital. The financing decision of a firm relates to the choice of the proportion of these sources to finance the investment requirements.

### **15.4 Organization Finance Function :**

With the development of the management science, the concept of finance function has also changed considerably, and keeps changing along with the evolution of the content of finance as a dynamic management activity. Generally, the finance functions are the same in every business enterprise, but the organization of these functions is not standardized and widely differs from one enterprise to another depending upon its size, nature of business, prevailing customs etc. Thus, in case of proprietary form of business, the owner himself performs the finance functions. In case of partnership, all partners or some of them perform the finance functions. Similarly, in a typical large company, the financial manager performs these functions with the help of other finance experts.

'Organization of finance function' refers to the division and classification of various functions to be performed by the finance department. Financial Management is the most pivotal functional areas of management, as the effectiveness of a business enterprise significantly depends on the efficient utilization of its financial resources. Financial decisions do not only affect wage policy, inventory policy, labour policy etc. but also the existence of the business concern. Thus, the finance function cannot be decentralized like other functional areas of management such as

marketing, personnel, production etc. the administration and control of finance should, therefore, rest with the top management. Such administrative and controlling powers must vest in the Board of Directors or in the Finance Committee.

As stated above, the organization structure of finance function generally depends on the size and nature of business, and so differs from one enterprise to another.

In large companies, management is separated from ownership because of widely-held shares with the result that the shareholders exercise very little control over the operations of the company. The ordinary shareholders of the company, therefore, control its operation by electing the Board of Directors to whom the management is responsible. With a view to help the Board of Directors in the execution of policies, a managing director is appointed. The managing director are appointed the production, personnel, marketing and financial managers. Each of them is an expert of his filed, and has many sub-departments working for him.

It is clear from the above discussion that the organization of finance function or a finance department is determined by the size and nature of the business. The external factors such as state intervention in the industrial finance, corporate taxation policies etc., also affect the organization of finance function. In small firm, the owner himself performs all financial functions. In medium scale enterprises, the financial manager with the help of a small staff performs these functions. In a typical large company, the finance function is performed by the financial manager with the help of the controller of finance and the treasurer who supervise the executives incharge for different financial functions. The above organization charge of the financial department of a large company may not necessarily be an ideal one. The organization of the financial department will be ideal only when it is capable of effective financial planning and control, and quick reporting for the strategic financial decisions.

## 15.5 QUESTIONS :

1. What is finance function?
2. Explain the scope and significance of investment and financing decisions
3. ``The concept of finance function has changed and keeps on changing along with the evolution of finance as a management activity''. Elaborate this statement. Also state in brief the dimensions of modern finance function.

4. Discuss the concepts of modern finance functions. In what respects are these functions wider than the traditional functions in their scope?
5. Examine the nature and content of finance function in a multi-plant enterprise.

### **15.6 SUGGESTED READINGS :**

1. Bhattacharyya, S.K., John Dearden, Costing for Management, Vikas Publishing House Pvt. Ltd., 2002
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## Chapter – 16

# Financial Analysis

### Objectives :

After going through this unit we should be able to :

- Understand the meaning of financial statements
- Know the objectives of analysis of financial statements
- Explain the types and formats of financial statements
- Know the methods of financial analysis

### Structure :

**16.1 Introduction**

**16.2 Meaning of Financial Statements**

**16.3 Objectives of Analysis of Financial Statements**

**16.4 Types of Financial Statements**

**16.5 Formats of Financial Statements**

**16.6 Limitations of Financial statement Analysis**

**16.7 Types of Financial Analysis**

**16.8 Methods of Financial Analysis**

**16.9 Questions**

**16.10 Exercises**

**16.11 Suggested Readings**

### 16.1 INTRODUCTION :

Accounting process involves recording, classifying and summarising various business transactions. The daily transactions of a business are recorded in different subsidiary books. These



transactions are posted into various ledger accounts and the balances are taken out at the end of a financial period. The aim of maintaining various records is to determine profitability of enterprise from operations of the business and also to find out its financial position. The term analysis of financial statements is applied to almost every kind of detail inquiry into financial data. A financial executive has to evaluate the past performance, present financial position, liquidity situation, enquire into profitability of the concern and to plan for future operations. The analysis of financial statements is an attempt to determine the significance and meaning of the financial statements data so that the forecast may be made of the future prospects for earnings, ability to pay interest and debt maturities and profitability.

## **16.2 MEANING OF FINANCIAL STATEMENTS :**

According to Himpton John, "A financial statement is an organised collection of data according to logical and consistent accounting procedures. Its purpose is to convey an understanding of some financial aspects of a business firm. It may show a position at a moment of time as in the case of a balance sheet, or may reveal a series of activities over a given period of time, as in the case of an income statement." On the basis of the information provided in the financial statements, management makes a review of the progress of the company and decides the future course of action. The annual reports constitute one of the major vehicles of corporate financial reporting to shareholders. It is, therefore, essential that these reports are elaborate, standardised in terms of accounting treatment and provides details for analysis and understanding of corporate performance by the shareholders. In India, the Institute of Chartered Accountants of India have for long been spearheading the process of standardisation in accounting treatment and enhancing disclosure requirements to shareholders. All companies are now required to state whether their accounts are prepared with applicable accounting standards and give particulars of any material departures from those standards and the reasons therefore. The trend in the area of corporate financial reporting in India, may be observed from the greater disclosure norms set at every stage and personal accountability of both directors and auditors. With the introduction of corporate governance concept.

## **16.3 OBJECTIVES OF ANALYSIS OF FINANCIAL STATEMENTS :**

The following are the main objectives of the analysis of financial statements.

1. To estimate the earning capacity of the firm
2. To judge the financial position and financial performance of the firm.
3. To determine the long term liquidity of the funds as well as solvency
4. To determine the debt capacity of the firm
5. To decide about the future prospects of the firm.

As a matter of fact, the objectives of analysis of these statements, depend to a large extent on the point of view of the analyst, the degree of interest in the company and the need for depth of enquiry and finally on the amount and quality of the data available.

## 16.4 TYPES OF FINANCIAL STATEMENTS :

1. **Income Statement** : The income statement or profit and loss account is considered as a very useful statement of all financial statements. It depicts the expenses incurred on production, sales and distribution and sales revenue and the net profit or loss for a particular period. It shows whether the operations of the firm resulted in profit or loss at the end of a particular period.
2. **Balance Sheet** : Balance Sheet is a statement which shows the financial position of a business as on a particular date. It represents the assets owned by the business and the claims of the owners and creditors against the assets in the form of liabilities as on the date of the statement.
3. **Statement of Retained Earnings** : The statement of retained earnings is also called the profit and loss appropriation account. It is a link between the income statement and the balance sheet. Retained earnings are the accumulated excess of earnings over losses and dividends. The balance shown by the income statement is transferred to the balance sheet through this statement after making the necessary appropriations.
4. **Funds Flow Statements** : According to Anthony, "The funds flow statement described the sources from which additional funds were derived and the use to which these funds were put." Funds Flow statement helps the financial analyst in having a more detailed analysis and understanding the changes in the distribution of resources between two balance sheet

periods. The statement reveals the sources of funds and their application for different purposes.

5. **Cash Flow Statement** : A cash flow statement depicts the changes in cash position from one period to another. It shows the inflow and outflow of cash and helps the management in making plans for immediate future. An estimated cash flow statement enables the management to ascertain the availability of cash to met business obligations. This statement is useful for short-term planning by the management.
6. **Schedules** : These are the statements which explain the items given in income statement and balance sheet. Schedules are part of financial statements which give detailed information about the financial position of a business organisation.

## 16.5 FORMATS OF FINANCIAL STATEMENTS :

The two main financial statements viz., the income statement and the balance sheet, can either to presented in the horizontal form or the vertical form. Where statutory provisions are applicable, the statement has to be prepared in accordance with such provisions.

### 16.5.1 Income Statement :

There is no legal format for the profit and loss account. Therefore, it can be presented in the traditional `T' form, or vertically in statement form. An example of the two formats given as under.

#### (i) Horizontal Forms

#### Manufacturing, Trading and Profit & Loss account

..... for the year ending.....

Dr.

Cr.

| Particulars        | Rs.   | Rs.  | Particulars                   | Rs.   | Rs.   |
|--------------------|-------|------|-------------------------------|-------|-------|
| To Opening Stock : |       |      | By Cost of finished goods c/d |       | X x x |
| Raw materials      | X x x |      | By Closing stock              |       |       |
| Work in progress   | X x x | Xx x | Raw materials                 | X x x |       |

|                                       |  |              |                                     |       |              |
|---------------------------------------|--|--------------|-------------------------------------|-------|--------------|
| To Purchases of raw materials         |  | X x x        | Work in progress                    | X x x | X x x        |
| To Manufacturing wages                |  | X x x        |                                     |       |              |
| To Carriage inwards                   |  | X x x        |                                     |       |              |
| To other factory expenses             |  | X x x        |                                     |       |              |
|                                       |  | <b>X x x</b> |                                     |       | <b>X x x</b> |
| To Opening stock of finished goods    |  | X x x        | By Sales                            |       | X x x        |
| To cost of finished goods b/d         |  | X x x        | By Closing stock of finished goods  |       | X x x        |
| To Gross profit c/d                   |  | X x x        | By Gross loss c/d                   |       | X x x        |
|                                       |  | <b>X x x</b> |                                     |       | <b>X x x</b> |
| To Gross loss b/d                     |  | X x x        | By gross profit b/d                 |       | X x x        |
| To Office and administration expenses |  | X x x        | By Miscellaneous receipts           |       | X x x        |
| To Selling and distribution expenses  |  | X x x        | By Net loss c/d                     |       | X x x        |
| To Interest and financial expenses    |  | X x x        |                                     |       |              |
| To Provision for income tax           |  | X x x        |                                     |       |              |
| To Net profit c/d                     |  | X x x        |                                     |       |              |
|                                       |  | <b>X x x</b> |                                     |       | <b>X x x</b> |
| To Net loss b/d                       |  | X x x        | By Balance b/d (from previous year) |       | X x x        |
| To General reserve                    |  | X x x        | By Net profit b/d                   |       | X x x        |
| To Dividend                           |  | X x x        |                                     |       |              |
| To Balance c/d                        |  | X x x        |                                     |       |              |
|                                       |  | <b>X x x</b> |                                     |       | <b>X x x</b> |

**(ii) Vertical Form :****Income statement of ..... for the year ending.....**

| <b>Particulars</b>                                 |                  | <b>Rs.</b> | <b>Rs.</b>   |
|--|------------------|------------|--------------|
| Sales  |                  |            | X x x        |
| Less : Sales returns                               |                  | X x x      |              |
| Sales tax/Excise Duty                              | (1)              | X x x      | X x x        |
| <b>Net Sales</b>                                   |                  |            | <b>X x x</b> |
| Cost of goods sold                                 |                  |            |              |
| Materials consumed                                 |                  |            | X x x        |
| Direct labour                                      |                  |            | X x x        |
| Manufacturing expenses                             |                  |            | X x x        |
| Add /Less : Adjustment for change in stock         |                  |            | X x x        |
|  | (2)              |            | X x x        |
| <b>Gross Profit</b>                                | <b>(1) - (2)</b> |            | <b>X x x</b> |
| Less : Operating expenses                          |                  | X x x      |              |
| Office and administration expenses                 |                  | X x x      |              |
| Selling and distribution expenses                  |                  | X x x      | X x x        |
| <b>Operating profit</b>                            |                  |            | <b>X x x</b> |
| Add : Non-Operating income                         |                  |            | X x x        |
|  |                  |            | X x x        |
| Less : Non-operating expenses (including interest) |                  |            | X x x        |
| Profit before interest and tax                     |                  |            | X x x        |
| Less : Interest                                    |                  |            | X x x        |
| Profit before tax                                  |                  |            | X x x        |
| Less : Tax   |                  |            | X x x        |
| <b>Profit after tax</b>                            |                  |            | <b>X x x</b> |

| <b>Appropriations</b>            |  |  |       |
|----------------------------------|--|--|-------|
| Transfer to reserves             |  |  | X x x |
| Dividends declared/paid          |  |  | X x x |
| Surplus carried to Balance Sheet |  |  | X x x |
|                                  |  |  | X x x |

### 16.5.2 Balance Sheet :

The companies act, 1956 stipulates that the balance sheet of a joint stock company should be prepared as per Part I of scheduled VI of the Act. However, the statement form has been emphasized upon by accountants for the purpose of analysis and interpretation.

#### (i) Horizontal Form :

**Balance Sheet of ..... as on .....**

| <b>Liabilities</b>   | <b>Rs.</b> | <b>Assets</b>                             | <b>Rs.</b> |
|--|------------|---|------------|
| <b>Share capital</b><br>(with all particulars of authorised, issued, subscribed capital) | X x x      | <b>Fixed Assets</b>                       |            |
| Called up capital  | X x x      | 1. Goodwill                               | X x x      |
| Less : Calls in arrears  | X x x      | 2. Land & Buildings                       | X x x      |
| Add : Forfeited shares   | X x x      | 3. Leasehold property                     | X x x      |
| <b>Reserves and Surplus</b>  |            | 4. Plant and machinery                    | X x x      |
| 1. Capital reserves  | X x x      | 5. Furniture & Fittings                   | X x x      |
| 2. Capital redemption reserve  | X x x      | 6. Patents and trade marks                | X x x      |
| 3. Share premium   | X x x      | 7. Vehicles                               | X x x      |
| 4. Other reserves  | X x x      | <b>Investments</b>                        |            |
| Less : Debit balances of profit & loss a/c (If any)                                      | X x x      | <b>Current Assets, Loans and Advances</b> |            |
| 5. Profit & loss appropriation a/c   | X x x      | <b>(a) Current assets</b>                 |            |

|   |              |   |              |
|---|--------------|---|--------------|
| 6. Sinking fund                             | X x x        | 1. Interest accrued on investments  | X x x        |
| <b>Secured Loans</b>                        |              | 2. Loose tools  | X x x        |
| Debentures                                  | X x x        | 3. Stock in trade   | X x x        |
| Add : outstanding interest                  | X x x        | 4. Sundry debtors   | X x x        |
| Loans from banks                            | X x x        | Less : Provision for doubtful debts   | X x x        |
| <b>Unsecured Loans</b>                      |              | 5. Cash in hand   | X x x        |
| Fixed deposits                              | X x x        | 6. Cash at bank   | X x x        |
| Short term loans and advances               | X x x        | <b>(b) Loans and Advances</b>   |              |
| <b>Current Liabilities &amp; Provisions</b> |              | 7. Advances to subsidiaries   | X x x        |
| <b>(a) Current Liabilities</b>              |              | 8. Bills receivable   | X x x        |
| 1. Bills payable                            | X x x        | 9. Prepaid expenses   | X x x        |
| 2. Sundry creditors                         | X x x        | <b>Miscellaneous expenditure</b><br>(to the extent not written off or adjusted) |              |
| 3. Income received in advance               | X x x        | 1. Preliminary expenses   | X x x        |
| 4. Unclaimed dividends                      | X x x        | 2. Discount on issue of shares and debentures                                   | X x x        |
| 5. Other liabilities                        | X x x        | 3. Underwriting commission  | X x x        |
| <b>(b) Provisions</b>                       |              | Profit and loss account (Loss), if any  | X x x        |
| 6. Provision for taxation                   | X x x        |   |              |
| 7. Proposed dividends                       | X x x        |   |              |
| 8. Provident fund & pension fund            |              |   |              |
| Contingent liabilities not provided for     | X x x        |   |              |
|   | <b>X x x</b> |   | <b>X x x</b> |

**(ii) Vertical Form :****Balance Sheet of .... As on ....**

|            | <b>Particulars</b>                        | <b>Schedule No.</b> | <b>Current Year</b> | <b>Previous Year</b> |
|------------|---|---------------------|---------------------|----------------------|
| <b>1.</b>  | <b>Sources of funds</b>                   |                     |                     |                      |
|            | 1. Shareholder's funds                    |                     |                     |                      |
|            | (a) Capital                               |                     | X x x               | X x x                |
|            | (b) Reserves and surplus                  |                     | X x x               | X x x                |
|            | 2. Loan Funds                             |                     |                     |                      |
|            | (a) Secured Loans                         |                     | X x x               | X x x                |
|            | (b) Unsecured loans                       |                     | X x x               | X x x                |
|            | <b>Total</b>                              |                     | <b>X x x</b>        | <b>X x x</b>         |
| <b>II.</b> | <b>Application of Funds</b>               |                     |                     |                      |
|            | 1. Fixed assets                           |                     |                     |                      |
|            | (a) Gross Block                           |                     | X x x               | X x x                |
|            | (b) Less : Depreciation                   |                     | X x x               | X x x                |
|            | © Net block                               |                     | X x x               | X x x                |
|            | (d) Capital work in progress              |                     | X x x               | X x x                |
|            | 2. Investments                            |                     |                     |                      |
|            | 3. Current Assets, Loans and advances     |                     |                     |                      |
|            | a. Inventories                            |                     | X x x               | X x x                |
|            | b. Sundry debtors                         |                     | X x x               | X x x                |
|            | c. Cash and bank balances                 |                     | X x x               | X x x                |
|            | d. Other current assets                   |                     | X x x               | X x x                |
|            | e. Loans and advances                     |                     | X x x               | X x x                |
|            |   |                     | X x x               | X x x                |
|            | Less : Current Liabilities and Provisions |                     |                     |                      |
|            | (a) Current Liabilities                   |                     | X x x               | X x x                |
|            | (b) Provisions                            |                     | X x x               | X x x                |
|            | <b>Net Current Assets</b>                 |                     | <b>X x x</b>        | <b>X x x</b>         |



|  |  |  |              |              |
|--|--|--|--------------|--------------|
|  | 4. (a) Miscellaneous expenditure to the extent not written off or adjusted |  | X x x        | X x x        |
|  | (b) Profit & Loss a/c (debit)  |  | X x x        | X x x        |
|  | <b>Total</b>   |  | <b>X x x</b> | <b>X x x</b> |

**(iii) Vertical Form for Analysis :****Balance Sheet of ..... as on .....**

|             | <b>Particulars</b>         |                    | <b>Rs.</b>   |
|-------------|----------------------------|--------------------|--------------|
|             | <b>Assets</b>              |                    |              |
| <b>1.</b>   | <b>Current Assets</b>      |                    |              |
|             | Cash and bank balances     |                    | X x x        |
|             | Debtors                    |                    | X x x        |
|             | Stock                      |                    | X x x        |
|             | Other current assets       |                    | X x x        |
| <b>2.</b>   | <b>Fixed Assets</b>        |                    | <b>X x x</b> |
|             | Less : Depreciation        |                    | X x x        |
| <b>3.</b>   | <b>Investments</b>         |                    | <b>X x x</b> |
|             |                            |                    | X x x        |
|             | <b>Total Assets</b>        | <b>(1 + 2 + 3)</b> | <b>X x x</b> |
|             | <b>Liabilities</b>         |                    |              |
| <b>(a).</b> | <b>Current Liabilities</b> |                    |              |
|             | Bills payable              |                    | X x x        |
|             | Creditors                  |                    | X x x        |
|             | Other Current liabilities  |                    | X x x        |
|             |                            |                    | X x x        |
| <b>(b)</b>  | <b>Long term debt</b>      |                    |              |
|             | Debentures                 |                    | X x x        |
|             | Other long term debts      |                    | X x x        |

|   |                             |                    |              |
|---|-----------------------------|--------------------|--------------|
|   |                             |                    | X x x        |
| © | <b>Capital and Reserves</b> |                    |              |
|   | Share capital               |                    | X x x        |
|   | Reserves and Surplus        |                    | X x x        |
|   | <b>Total Liabilities</b>    | <b>(a + b + c)</b> | <b>X x x</b> |

### 16.5.3. Statement of Retained Earnings

The preparation of Statement of Retained Earnings is a common feature in corporate accounting practice, to show how the balance in Profit and Loss account is appropriated for various purposes like provision for dividend, transfer to reserve a/c

#### Profit & Loss appropriation account

| Particulars                          | Rs.          | Particulars   | Rs.          |
|--------------------------------------|--------------|---|--------------|
| To Transfers to reserves             | X x x        | By Last year's balance  | X x x        |
| To Dividends paid (interim or final) | X x x        | By Current year's net profit (transferred from profit & loss a/c) | X x x        |
| To dividends proposed                | X x x        | By Excess provisions (which are no longer required)               | X x x        |
| To Surplus carried to balance sheet  | X x x        | By Reserves withdrawn (if any)                                    | X x x        |
|                                      | <b>X x x</b> |   | <b>X x x</b> |

### 16.6 LIMITATIONS OF FINANCIAL STATEMENT ANALYSIS :

The analysis of financial statements has certain limitations also. Hence any person using this technique must keep in mind those limitations. Main limitations are as follows.

1. The analysis of financial statements is only a means to reach conclusions and no conclusion in itself. So, it cannot work as a substitute for sound judgement. The judgement ultimately, will depend upon the intelligence and skill of the analyst.
2. The figures drawn from one year statements have limited use and value. So, it will be dangerous to depend upon them only.
3. The basic nature of financial statements is historic. Past can never be hundred per cent presentative of the future. Hence, future course of business events should be forecast and interpreted in the context.
4. The results of the analysis of financial statements should not taken as an indication of good or bad management. The ratios or other figures explain only probable state events.
5. Any change, in the method or procedure of accounting mass the utility of such analysis The figures of different financial statements lose the characteristic of comparability.
6. The figures of one firm are seldom fully comparable with those of the other because there is difference in the nature of products, procedure in accounting, cost of plant and machinery, nature and pattern of financing, etc. But analysis generally ignores these facts and make an objective comparison of two business firms. The results will be naturally misleading.
7. The repaid changes in the value of money also reduce the validity of such analysis and no useful conclusions can be drawn from a comparative study fo the financial statements of different years.
8. An analyst should also be cautions from window dressing in the accounts.

## 16.7 TYPES OF FINANCIAL ANALYSIS :

Two types of analysis are undertaken to interpret the position of an enterprise. They are :

(1) Vertical Analysis (2) Horizontal analysis. The Companies Act, 1956 permits the companies to present the financial statements in vertical as well as horizontal form.

- (i) **Vertical Analysis** : It is the analysis of relationship as between different individual components. It is also the analysis between these components and their totals for a given period of time. Such an analysis examines only the relationship as between different components for a given point of time. It does not focus light on changing behaviour of the above relationships. It is also regarded as static analysis. Comparison of current assets to

current liabilities or comparison of debt to equity for one point of time are the examples of vertical analysis. Thus, the vertical analysis can be made in the following ways.

1. By preparation of common size statements of the two similar units
2. By preparing common size statement of different years of the same business unit.

(ii) **Horizontal Analysis** : It is the analysis of changes in different components of the financial statements over different periods with the help of a series of statements. Such an analysis makes it possible to study periodic fluctuations in different components of the financial statements. Study of trends in debt or share capital or their relationship over the past ten year period or study of profitability trends for a period of five or ten years are examples of horizontal type of analysis. Horizontal analysis is also known as 'dynamic analysis' since this reflects changes in financial position of the company over a long period of time. It comprises :

1. Comparison of the Financial Statements of different years of the same business unit.
2. Comparison of Financial Statement of a particular year of different business units.

## 16.8 METHODS OF FINANCIAL ANALYSIS :

A number of methods or devices are used to study the relationship between different statements. An effort is made to use those devices which clearly analyse the position of the enterprise. The following methods of analysis are generally used.

1. Comparative statements
2. Trend analysis
3. Common size statements;
4. Funds Flow analysis;
5. Cash flow analysis
6. Ratio analysis
7. Cost-Volume-Profit analysis.

### 16.8.1 Comparative Statement Analysis :

Comparative financial statements are those statements, which are designed to provide time perspective to the consideration of various elements of financial position embodied in such statements. In these statements figures for two or more periods are shown side by side to facilitate

comparison. Both the income statement and balance sheet can be prepared in the form of comparative financial statements.

- (i) **Comparative Income Statement** : The income statement discloses net profit or net loss on account of operations. A comparative income statement will show the absolute figures for two or more periods, the absolute change from one period to another and if desired the change in terms of percentages. Since the figures for two or more periods are shown side by side, the reader can quickly ascertain whether sales have increased or decreased, whether cost of sales has increased or decreased etc. Thus, only a reading of data included in comparative income statement will be helpful in deriving meaningful conclusions.
- (ii) **Comparative Balance Sheet** : Comparative balance sheet as on two or more different dates can be used for comparing assets and liabilities and finding out any increase or decrease in those items. Thus, while in a single balance sheet the emphasis is on present position, it is on change in the comparative balance sheet. Such a balance sheet is very useful in studying the trends in an enterprise.
- (iii) Comparative financial statements can be prepared for more than two periods or on more than two dates. However, it becomes very cumbersome to study the trend with more than two periods data. Trend percentages are more useful in such cases.
- (iv) According to American Institute of Certified Public Accountants ``the presentation of comparative financial statements in annual and other reports enhances the usefulness of such reports and brings out more clearly the nature and trend of current changes affecting the enterprise. Such presentation emphasises the fact that statements for a series of periods are far more significant than those of a single period and that the accounts of one period are but an installment of what is essentially a continuous history. In any one year, it is ordinarily desired that the balance sheet, the income statement and the surplus statement be given for one more preceding year as well as for the current year.”

**Illu.1 : The income statements of a company are given for the years ending on 30<sup>th</sup> June, 2003 and 30<sup>th</sup> June 2004. Rearrange the figures in a comparative form and study the profitability position of the company:**

|  | 2003<br>(Rs.'000) | 2004<br>(Rs.'000) |
|--|-------------------|-------------------|
| <b>Net Sales</b>                           | <b>785</b>        | <b>900</b>        |
| <b>Cost of goods sold</b>                  | <b>450</b>        | <b>500</b>        |
| <b>Opening Expenses:</b>                   |                   |                   |
| <b>General and administrative expenses</b> | <b>70</b>         | <b>72</b>         |
| <b>Selling expenses</b>                    | <b>80</b>         | <b>90</b>         |
| <b>Non – Operating expenses:</b>           |                   |                   |
| <b>Interest paid</b>                       | <b>25</b>         | <b>30</b>         |
| <b>Income – Tax</b>                        | <b>70</b>         | <b>80</b>         |

**Solution :****Comparative Income Statement for the year 2003 & 2004**

| Particulars                                | <i>Rs.'000</i> |            | Change in<br>Rs. | Change in<br>% |
|--|----------------|------------|------------------|----------------|
|  | 2003           | 2004       |                  |                |
| Net Sales                                  | 785            | 900        | 115              | 14.65          |
| (-) Cost of goods sold                     | 450            | 500        | 50               | 11.11          |
| <b>Gross profit (1)</b>                    | <b>335</b>     | <b>400</b> | <b>65</b>        | <b>19.40</b>   |
| Less: Operating expenses:                  |                |            |                  |                |
| General and administrative expenses        | 70             | 72         | 2                | 2.86           |
| Selling Expenses                           | 80             | 90         | 10               | 12.50          |
| <b>Total operating expenses(2)</b>         | <b>150</b>     | <b>162</b> | <b>12</b>        | <b>8.00</b>    |
| <b>Operating profit (1-2) (3)</b>          | <b>185</b>     | <b>238</b> | <b>53</b>        | <b>8.65</b>    |
| (-) Non – operating expenses interest paid | 25             | 30         | 5                | 20.00          |
| <b>Total Non-Operating expenses (4)</b>    | <b>25</b>      | <b>30</b>  | <b>5</b>         | <b>20.00</b>   |

|                               |           |            |           |              |
|-------------------------------|-----------|------------|-----------|--------------|
| Profit before Taxes (3-4) (5) | 160       | 208        | 48        | 30.00        |
| (-) Income Tax Paid           | 70        | 80         | 10        | 14.28        |
| <b>Profit after Taxes (6)</b> | <b>90</b> | <b>128</b> | <b>38</b> | <b>42.22</b> |

**Profitability position of a company:** As there is raise in the sales revenue, but raise in the expenditure pattern is lesser than that of the raise in sales revenue, the overall profitability is said to be good.

**Illu.2 :** From the following income statement of Y Ltd., prepare a comparative income statement.

(Amount in Lakhs rupees)

|                                      | For the ear ended 31 March |     |            |     |
|--------------------------------------|----------------------------|-----|------------|-----|
|                                      | 2003                       |     | 2004       |     |
|                                      | Rs.                        |     | Rs.        |     |
| <b>Net Sales</b>                     | 1,370                      |     | 1,442      |     |
| <b>Cost of goods sold</b>            | 838                        |     | 926        |     |
| <b>Gross Profit</b>                  | <u>532</u>                 |     | <u>516</u> |     |
| <b>Operating expenses:</b>           |                            |     |            |     |
| <b>Administration expenses</b>       | 94                         |     | 92         |     |
| <b>Selling expenses</b>              | 188                        | 282 | 182        | 274 |
| <b>Operating profit</b>              | 250                        |     | 242        |     |
| <b>Add: Other incomes - dividend</b> | 44                         |     | 50         |     |
|                                      | <u>294</u>                 |     | <u>292</u> |     |
| <b>Less: Other deductions -</b>      |                            |     |            |     |
| <b>Interest paid</b>                 | 44                         |     | 44         |     |
| <b>Et profit before tax</b>          | <u>250</u>                 |     | <u>248</u> |     |
| <b>Income tax</b>                    | 124                        |     | 124        |     |
| <b>Net profit after tax</b>          | <u>126</u>                 |     | <u>124</u> |     |

**Solution :****Comparative Income Statement of Y Ltd.**

| <i>Particulars</i>                              | <i>2003</i> | <i>2004</i> | <i>Increase/<br/>Decrease<br/>Rs.</i> | <i>Increase/<br/>Decrease<br/>%</i> |
|---|-------------|-------------|---------------------------------------|-------------------------------------|
| Net Sales                                       | 1,370       | 1,442       | (+) 72                                | (+) 5.26%                           |
| Less: Cost of goods sold                        | 838         | 926         | (+) 88                                | (+)10.50%                           |
| <b>Gross Profit (A)</b>                         | <b>532</b>  | <b>516</b>  | <b>(-) 16</b>                         | <b>(-) 3.01%</b>                    |
| Less: Operating expenses:                       |             |             |                                       |                                     |
| Administration expenses                         | 94          | 92          | (-) 2                                 | (-) 2.13%                           |
| Selling Expenses                                | 188         | 182         | (-) 6                                 | (-) 3.18%                           |
| <b>Total operating expenses (B)</b>             | <b>282</b>  | <b>274</b>  | <b>(-) 8</b>                          | <b>(-) 2.84 %</b>                   |
|   | 250         | 242         | (-) 8                                 | (-) 3.2%                            |
| Add: Operating incomes                          | -           | -           | -                                     | -                                   |
| <b>Operating profit before interest and tax</b> | <b>250</b>  | <b>242</b>  | <b>(-) 8</b>                          | <b>(-) 3.2%</b>                     |
| Add: Non – operating income dividend            | 44          | 50          | (+) 6                                 | (+)13.64%                           |
| <b>Earnings before interest and taxes</b>       | <b>294</b>  | <b>292</b>  | <b>(-) 2</b>                          | <b>(-) 0.68%</b>                    |
| Less: Interest paid                             | 44          | 44          | NIL                                   | NIL                                 |
| <b>Earnings before tax</b>                      | <b>250</b>  | <b>248</b>  | <b>(-) 2</b>                          | <b>(-) 0.8%</b>                     |
| Less: Income Tax                                | 124         | 124         | NIL                                   | NIL                                 |
| <b>Earnings After Taxes</b>                     | <b>126</b>  | <b>124</b>  | <b>(-) 2</b>                          | <b>(-) 1.59%</b>                    |

**Illu.2 : From the following income statements extracted from the books of Aravind works for the year 2003 and 2004 prepare comparative income statement and interpret the results of the business.**

**Income Statement (Rs.000)**

|                  | <b>2003</b> | <b>2004</b> |          | <b>2003</b> | <b>2004</b> |
|------------------|-------------|-------------|----------|-------------|-------------|
| To Opening Stock | 40.0        | 92.3        | By Sales | 501.0       | 725.0       |



|                               |       |        |                             |       |       |
|-------------------------------|-------|--------|-----------------------------|-------|-------|
| To Purchases                  | 210.0 | 280.0  | By Closing Stock            | 98.5  | 105.0 |
| To Wages                      | 25.0  | 32.0   | By Discount                 | 5.0   | -     |
| To Salaries                   | 20.5  | 22.0   | By Interest on investments  | 5.5   | 8.0   |
| To Rent, rates and taxes      | 17.8  | 18.1   | By Interest on bank deposit | 5.0   | 7.2   |
| To Selling expenses           | 5.8   | 6.1    |                             |       |       |
| To Distribution expenses      | 3.2   | 3.9    |                             |       |       |
| To Loss on sale of investment | -     | 10.0   |                             |       |       |
| To Interest paid              | 7.0   | 7.5    |                             |       |       |
| To Depreciation               | 35.0  | 40.0   |                             |       |       |
| To Net Profit                 | 250.7 | 333.30 |                             |       |       |
|                               | 615.0 | 845.2  |                             | 615.0 | 845.2 |

**Solution :**

**Comparative income statement of Aravind works  
for the year ended 31<sup>st</sup>, December 2003 and 2004**

| Particulars                      | 2003<br>Rs. | 2004<br>Rs. | Change in<br>Rs. | Change in<br>% |
|----------------------------------|-------------|-------------|------------------|----------------|
| Sales                            | 501.0       | 725.0       | 224.0            | 44.7           |
| <b>Less:</b> Cost of goods sold  | 176.5       | 299.3       | 122.8            | 69.6           |
| <b>Gross Profit</b>              | 324.5       | 425.7       | 101.2            | 31.2           |
| <b>Less :</b> Operating Expenses | 82.3        | 90.1        | 7.8              | 9.5            |
|                                  | 242.2       | 335.6       | 93.4             | 38.6           |
| <b>Add :</b> Operating Income    |             |             |                  |                |
| Discount                         | 5.0         | -           | 5.0              | 100.0          |
| Operating profit                 | 247.2       | 335.6       | 88.4             | 35.8           |

|   |       |       |      |       |
|---|-------|-------|------|-------|
| <b>Less</b> : Non Operating expenses          |       |       |      |       |
| Interest paid and loss on sale of investments | 7.0   | 17.5  | 10.5 | 150.0 |
|   | 240.2 | 318.1 | 77.9 | 32.4  |
| <b>Add</b> : <b>Non-Operating Incomes</b>     |       |       |      |       |
| Interest on Investments                       | 5.5   | 8.0   | 2.5  | 45.5  |
| Interest on bank deposits                     | 5.0   | 7.2   | 2.2  | 44.0  |
| Profit before tax                             | 250.7 | 333.3 | 82.6 | 32.9  |
| Less : Taxes @ 50%                            | 125.3 | 166.6 | 41.3 | 32.9  |
| <b>Profit after Tax (PAT)</b>                 | 125.4 | 166.7 | 41.3 | 32.9  |

**Working Notes :**

| <b>1. Cost of goods sold</b>   | 2003         | 2004         |
|--------------------------------|--------------|--------------|
|                                | Rs.          | Rs.          |
| Opening stock                  | 40.0         | 92.3         |
| Add : Purchases                | 210.0        | 280.0        |
| Wages                          | 25.0         | 32.0         |
|                                | <b>275.0</b> | <b>404.3</b> |
| Less : Closing Stock           | 98.5         | 105.0        |
| <b>Cost of good sold</b>       | <b>76.5</b>  | <b>299.3</b> |
| <b>2. Operating expenses :</b> |              |              |
| Salaries                       | 20.5         | 22.0         |
| Rent, Rates & Taxes            | 17.8         | 18.1         |
| Selling expenses               | 5.8          | 6.1          |
| Distribution expenses          | 3.2          | 3.9          |
| Depreciation                   | 35.0         | 40.0         |
| <b>Operating expenses</b>      | <b>82.3</b>  | <b>90.1</b>  |

**Interpretation of results :**

The financial analysis of Aravind Works company for the years 2003 and 2004 reveals the following.

1. The sales of the company increased by 42% during 2004 over the year 2003. On other hand, the cost of the goods sold increased by 70% reducing the profit margin to 27% during the same period. There is substantial increase in the non profit expenses during the period.
2. The profit before taxes of the company increased by 30%.. The PAT also remained the same during the year.
3. On the whole, the financial position of the company from profitability point of view is satisfactory.

**Illu.3 : Prepare the comparative Income Statement from the following:****Income statement**

| Particulars             | 2000 Rs. | 2001 Rs. | Particulars | 2000 Rs. | 2001 Rs. |
|-------------------------|----------|----------|-------------|----------|----------|
| To Cost of goods sold   | 1,00,000 | 1,00,000 | By Sales    | 2,50,000 | 3,00,000 |
| To Operational expenses | 75,000   | 1,10,000 |             |          |          |
| To Interest             | 25,000   | 20,000   |             |          |          |
| To Tax                  | 25,000   | 30,000   |             |          |          |
| To Net profit           | 25,000   | 40,000   |             |          |          |
|                         | 2,50,000 | 3,00,000 |             | 2,50,000 | 3,00,000 |

**Solution :****Comparative income statement for the years ended 31<sup>st</sup>, December 2000 and 2001**

| Particulars              | 2000     | 2001     | Change in Rs. | Chang in % |
|--------------------------|----------|----------|---------------|------------|
| Sales                    | 2,50,000 | 3,00,000 | (+) 50,000    | (+) 20.00  |
| Less: Cost of goods sold | 1,00,000 | 1,00,000 | -             | -          |

|                                     |                 |                 |                   |                  |
|-------------------------------------|-----------------|-----------------|-------------------|------------------|
| Gross Profit (1)                    | <b>1,50,000</b> | <b>2,00,000</b> | <b>(+) 50,000</b> | <b>(+) 33.33</b> |
| <b>Less: Operating expenses :</b>   |                 |                 |                   |                  |
| Operational expenses                | 75,000          | 1,10,000        | (+) 35,000        | (+) 46.67        |
| Total operating expenses (2)        | <b>75,000</b>   | <b>1,10,000</b> | <b>(+) 35,000</b> | <b>(+) 46.67</b> |
| Operating profit (1 – 2) (3)        | <b>75,000</b>   | <b>90,000</b>   | <b>(+) 15,000</b> | <b>(+) 20.00</b> |
| <b>Less: Non-operating expenses</b> |                 |                 |                   |                  |
| Interest                            | 25,000          | 20,000          | (-) 5,000         | (-) 20.00        |
| Total Non-operating expenses (4)    | 25,000          | 20,000          | (-) 5,000         | (-) 20.00        |
| Profit before taxes (3 – 4) (5)     | <b>50,000</b>   | <b>70,000</b>   | <b>(+) 20,000</b> | <b>(+) 40.00</b> |
| <b>Less : Tax</b>                   | 25,000          | 30,000          | (-) 5,000         | (+) 20.00        |
| <b>Profit after tax</b>             | <b>25,000</b>   | <b>40,000</b>   | <b>(+) 15,000</b> | <b>(+) 60.00</b> |

**Illu.4 : The comparative income statement of Shankar Industries Limited are given for 2003 and 2004. Analyses and interpret the significance of changes in these statements:**

|                                 | 31-12-2003       | 31-12-2004       |
|---------------------------------|------------------|------------------|
|                                 | Rs.              | Rs.              |
| <b>Sales</b>                    | <b>14,73,600</b> | <b>10,91,475</b> |
| <b>Less: Discounts</b>          | <b>19,890</b>    | <b>17,625</b>    |
| <b>Net Sales</b>                | <b>14,53,710</b> | <b>10,73,850</b> |
| <b>Less: Cost of goods sold</b> | <b>9,23,190</b>  | <b>6,53,460</b>  |
| <b>Gross Profit</b>             | <b>5,30,520</b>  | <b>4,20,390</b>  |
| <b>Less: General charges</b>    | <b>1,06,050</b>  | <b>78,323</b>    |
| <b>Less: Selling expenses</b>   | <b>2,67,375</b>  | <b>2,43,660</b>  |
| <b>Net Operating Profit</b>     | <b>1,57,095</b>  | <b>98,407</b>    |
| <b>Less: Interest on loans</b>  | <b>28,823</b>    | <b>32,400</b>    |
| <b>Net profit before tax</b>    | <b>1,28,272</b>  | <b>66,007</b>    |
| <b>Less: Corporate tax</b>      | <b>48,150</b>    | <b>24,000</b>    |
| <b>Net profit</b>               | <b>80,122</b>    | <b>42,007</b>    |

**Solution :**

**The Comparative income statement of Shankar Industries Ltd.  
for the years 2003 and 2004**

| Particulars                         | 2003            | 2004            | Change in Rs.       | Change in %      |
|-------------------------------------|-----------------|-----------------|---------------------|------------------|
| <b>Net Sales</b>                    | 14,53,710       | 10,73,850       | (-) 3,79,860        | (-) 26.13        |
| <b>Less: Cost of goods sold</b>     | 9,23,190        | 6,53,460        | 2,69,730            | (-) 29.22        |
| Gross Profit (1)                    | <b>5,30,520</b> | <b>4,20,390</b> | <b>(-) 1,10,130</b> | <b>(-) 20.76</b> |
| <b>Less: Operating expenses :</b>   |                 |                 |                     |                  |
| General expenses                    | 1,06,050        | 78,323          | (-) 27,727          | (-) 26.15        |
| Selling expenses                    | 2,67,375        | 2,43,660        | (-) 23,715          | (-) 8.87         |
| Total operating expenses (2)        | <b>3,73,425</b> | <b>3,21,983</b> | <b>(-) 51,442</b>   | <b>(-) 3.78</b>  |
| Operating profit (1 – 2) (3)        | <b>1,57,095</b> | <b>98,407</b>   | <b>(-) 58,688</b>   | <b>(-) 37.36</b> |
| <b>Less: Non-operating expenses</b> |                 |                 |                     |                  |
| Interest on loans                   | 28,823          | 32,400          | (+) 3,577           | (+) 12.41        |
| Total Non-operating expenses (4)    | <b>28,823</b>   | <b>32,400</b>   | <b>(+) 3,577</b>    | <b>(+) 12.41</b> |
| Net Profit before taxes (3 – 4) (5) | <b>1,28,272</b> | <b>66,007</b>   | <b>(-) 62,265</b>   | <b>(-) 48.54</b> |
| <b>Less : Corporate Tax</b>         | 48,150          | 24,000          | (-) 24,150          | (-) 50.16        |
| <b>Net Profit after taxes</b>       | <b>80,122</b>   | <b>42,007</b>   | <b>(-) 38,115</b>   | <b>(-) 47.57</b> |

**Comment :**

The analysis reveals that the company's financial position is very much worst. The sales, the cost of goods sold as well as the gross margin decline during 2004 over the year 2003. It seems the company is sinking and there is an urgent need on the part of the management of the company to revive the company through different strategies.

**Illu.5 : The income statements of Star Co. are given for the years ending 30<sup>th</sup> September 2004 and 30<sup>th</sup> September 2005. Rearrange them in a comparative form and study the profitability of the company :**

|  | 2004<br>(Rs.'000) | 2005<br>(Rs.'000) |
|--|-------------------|-------------------|
| <b>Net sales</b>                           | <b>1,570</b>      | <b>1,800</b>      |
| <b>Cost of goods sold</b>                  | <b>900</b>        | <b>1,000</b>      |
| <b>Operating expenses :</b>                |                   |                   |
| <b>General and Administration expenses</b> | <b>140</b>        | <b>144</b>        |
| <b>Selling expenses</b>                    | <b>160</b>        | <b>180</b>        |
| <b>Non-operating expenses :</b>            |                   |                   |
| <b>Interest paid</b>                       | <b>50</b>         | <b>60</b>         |
| <b>Income – tax</b>                        | <b>140</b>        | <b>160</b>        |

**Solution :**

**Comparative income statement of Star Company  
for the year ended 30<sup>th</sup> September 2004 and 2005 (Rs.'000)**

| Particulars                         | 2004       | 2005       | Change in<br>Rs. | Chang in<br>%  |
|-------------------------------------|------------|------------|------------------|----------------|
| <b>Net Sales</b>                    | 1570       | 1800       | + 230            | + 14.65        |
| <b>Less: Cost of goods sold</b>     | 900        | 1000       | + 100            | + 11.11        |
| Gross Profit (1)                    | <b>670</b> | <b>800</b> | <b>+ 130</b>     | <b>+ 19.40</b> |
| <b>Less: Operating expenses :</b>   |            |            |                  |                |
| General and Administrative expenses | 140        | 144        | + 4              | + 2.86         |
| Selling expenses                    | 160        | 180        | + 20             | + 12.50        |
| Total operating expenses (2)        | <b>300</b> | <b>324</b> | <b>+ 24</b>      | <b>+ 8.00</b>  |
| Operating profit (1 – 2) (3)        | <b>370</b> | <b>476</b> | <b>+ 106</b>     | <b>+ 28.65</b> |
| <b>Less: Non-operating expenses</b> |            |            |                  |                |
| Interest paid                       | 50         | 60         | + 10             | + 20.00        |
| Total Non-operating expenses (4)    | <b>50</b>  | <b>60</b>  | <b>+ 10</b>      | <b>+ 20.00</b> |
| Profit before taxes (3 – 4) (5)     | <b>320</b> | <b>416</b> | <b>+ 96</b>      | <b>+ 30.00</b> |
| Income tax paid                     | 140        | 160        | + 20             | + 14.28        |
| <b>Profit after taxes (6)</b>       | <b>180</b> | <b>256</b> | <b>+ 76</b>      | <b>+ 42.22</b> |

**Profitability position of a company :**

The analysis reveals that the company's operational efficiency is satisfactory. The company is able to maintain growth rate of 19% in the gross margin and 42% in net margin.

**Illu.6 : From the following information, prepare a vertical income statement:**

**Sales Rs.60, 000; Cost of goods sold Rs.35, 000; Operating expenses Rs.12, 000; Non operating expenses Rs.4, 000; Rate of tax 50%.**

**Solution :****Vertical Income Statement**

| Particulars                         | Amount Rs.    | Percentage    |
|-------------------------------------|---------------|---------------|
| <b>Sales</b>                        | <b>60,000</b> | <b>100.00</b> |
| Less: <b>Cost of goods sold</b>     | <b>35,000</b> | <b>58.00</b>  |
| <b>Gross profit</b>                 | 25,000        | 42.00         |
| Less: <b>Operating expenses</b>     | <b>12,000</b> | <b>20.00</b>  |
| <b>Operating profit</b>             | 13,000        | 22.00         |
| Less: <b>Non-operating expenses</b> | <b>4,000</b>  | <b>7.00</b>   |
| <b>Net profit</b>                   | 9,000         | 15.00         |
| Less: <b>Taxes 50%</b>              | <b>4,500</b>  | <b>7.5.00</b> |
| Profit after taxes                  | 4,500         | 7.5.00        |

**Illu.7 : The following are the particulars of income of a business unit for the year ended 31.12.2004 and 31.12.2005. Prepare comparative income statement and comment on profitability.**

| Particulars                 | 2004 (Rs.'000) | 2005 (Rs.'000) |
|-----------------------------|----------------|----------------|
| <b>Net sales</b>            | <b>785</b>     | <b>900</b>     |
| <b>Cost of sales</b>        | <b>450</b>     | <b>500</b>     |
| <b>Operating expenses :</b> |                |                |
| <b>General Expenses</b>     | <b>70</b>      | <b>72</b>      |

|                                   |           |           |
|-----------------------------------|-----------|-----------|
| <b>Selling expenses</b>           | <b>80</b> | <b>90</b> |
| <b>Non – operating expenses :</b> |           |           |
| <b>Interest paid</b>              | <b>25</b> | <b>30</b> |
| <b>Income tax</b>                 | <b>70</b> | <b>80</b> |

**Solution :****Comparative Income Statement for the years ending December 31, 2004 and 2005**

| Particulars                       | 31 <sup>st</sup> December |            | Increase /<br>Decrease<br>Rs. | Increase/<br>Decrease<br>Rs. |
|-----------------------------------|---------------------------|------------|-------------------------------|------------------------------|
|                                   | 2004 Rs.                  | 2005 Rs.   |                               |                              |
| Net Sales                         | 785                       | 900        | + 115                         | + 14.65                      |
| <b>Less: Cost of sales</b>        | <b>450</b>                | <b>500</b> | <b>+ 50</b>                   | <b>+ 11.00</b>               |
| <b>Gross profit (1)</b>           | <b>335</b>                | <b>400</b> | <b>+ 65</b>                   | <b>+ 19.4</b>                |
| <b>Less: Operating expenses :</b> |                           |            |                               |                              |
| General expenses                  | 70                        | 72         | + 2                           | + 2.8                        |
| Selling expenses                  | 80                        | 90         | + 10                          | + 12.5                       |
| Total operating expenses          | <b>150</b>                | <b>162</b> | <b>+ 12</b>                   | <b>+ 8.0</b>                 |
| Operating profit (1 – 2)          | 185                       | 238        | + 53                          | + 28.6                       |
| <b>Less: Interest paid</b>        | <b>25</b>                 | <b>30</b>  | <b>+ 5</b>                    | <b>+ 20.0</b>                |
| <b>Tax paid before profit</b>     | <b>160</b>                | <b>208</b> | <b>+ 48</b>                   | <b>+ 30.0</b>                |
| Less: Income tax                  | 70                        | 80         | + 10                          | + 14.3                       |
| Net profit after tax              | <b>90</b>                 | <b>128</b> | <b>+ 38</b>                   | <b>+ 42.2</b>                |

Illu.8 : The following are the balance sheets of a company for the years 2003 and 2004.

Prepare a comparative balance sheet and study the financial position of the company:

Balance Sheet as on 30<sup>th</sup> June 2003 and 2004.

| <i>Liabilities</i>          | <i>2003</i>     | <i>2004</i>     |
|-----------------------------|-----------------|-----------------|
|                             | <i>Rs.</i>      | <i>Rs.</i>      |
| <b>Equity share capital</b> | <b>6,00,000</b> | <b>8,00,000</b> |
| <b>Reserves and Surplus</b> | <b>3,30,000</b> | <b>2,22,000</b> |
| <b>Debentures</b>           | <b>2,00,000</b> | <b>3,00,000</b> |



|                                   |                  |                  |
|-----------------------------------|------------------|------------------|
| <b>Long term loans</b>            | <b>1,50,000</b>  | <b>2,00,000</b>  |
| <b>Bills payable</b>              | <b>50,000</b>    | <b>45,000</b>    |
| <b>Sundry Creditors</b>           | <b>1,00,000</b>  | <b>1,20,000</b>  |
| <b>Other current liabilities</b>  | <b>5,000</b>     | <b>10,000</b>    |
|                                   | <b>14,35,000</b> | <b>16,97,000</b> |
| <b>Assets</b>                     | <b>2003</b>      | <b>2004</b>      |
|                                   | <b>Rs.</b>       | <b>Rs.</b>       |
| <b>Land &amp; Buildings</b>       | <b>3,70,000</b>  | <b>2,70,000</b>  |
| <b>Plant &amp; Machinery</b>      | <b>4,00,000</b>  | <b>6,00,000</b>  |
| <b>Fixtures &amp; Fittings</b>    | <b>45,000</b>    | <b>55,000</b>    |
| <b>Cash in hand &amp; at Bank</b> | <b>20,000</b>    | <b>80,000</b>    |
| <b>Bills receivables</b>          | <b>1,50,000</b>  | <b>90,000</b>    |
| <b>Sundry Debtors</b>             | <b>2,00,000</b>  | <b>2,50,000</b>  |
| <b>Stock</b>                      | <b>2,50,000</b>  | <b>3,50,000</b>  |
| <b>Prepaid expenses</b>           | <b>-</b>         | <b>2,000</b>     |
|                                   | <b>14,35,000</b> | <b>16,97,000</b> |

**Solution :**

**Comparative Balance Sheet of a company  
for the year 2003 & 2004**

|                        | Year ending 31 <sup>st</sup><br>December |          | Increase/<br>Decrease<br>(Amounts) | Increase/<br>Decrease<br>(Percentage) |
|------------------------|--|----------|------------------------------------|---------------------------------------|
|                        | 2003                                     | 2004     |                                    |                                       |
| <b>Assets</b>          | Rs.                                      | Rs.      | Rs.                                | Rs.                                   |
| <b>Current Assets:</b> |  |          |                                    |                                       |
| Cash in hand and Bank  | 20,000                                   | 80,000   | +60,000                            | + 300.00                              |
| Bills receivable       | 1,50,000                                 | 90,000   | -60,000                            | - 40.00                               |
| Sundry Debtors         | 2,00,000                                 | 2,50,000 | +50,000                            | + 25.00                               |
| Stock                  | 2,50,000                                 | 3,50,000 | +1,00,000                          | + 40.00                               |
| Prepaid expenses       | -  | 2,000    | +2,000                             | - 100.00                              |

|                                      |                  |                  |                  |                |
|--------------------------------------|------------------|------------------|------------------|----------------|
| <b>Total Current Assets (1)</b>      | <b>6,20,000</b>  | <b>7,72,000</b>  | <b>+1,52,000</b> | <b>+ 24.52</b> |
| <b>Fixed Assets:</b>                 |                  |                  |                  |                |
| Land & Buildings                     | 3,70,000         | 2,70,000         | -1,00,000        | - 27.03        |
| Plant & Machinery                    | 4,00,000         | 6,00,000         | +2,00,000        | + 50.00        |
| Fixture & Fittings                   | 45,000           | 55,000           | + 10,000         | + 22.22        |
| <b>Total Fixed Assets (2)</b>        | <b>8,15,000</b>  | <b>9,25,000</b>  | <b>+1,10,000</b> | <b>+ 13.49</b> |
| <b>Total Assets (1 + 2)</b>          | <b>14,35,000</b> | <b>16,97,000</b> | <b>+2,62,000</b> | <b>+ 18.26</b> |
| <b>Liabilities &amp; Capital</b>     | <b>Rs.</b>       | <b>Rs.</b>       | <b>Rs.</b>       | <b>Rs.</b>     |
| Current Liabilities:                 |                  |                  |                  |                |
| Bills Payable                        | 50,000           | 45,000           | -5,000           | - 10.00        |
| Sundry Creditors                     | 1,00,000         | 1,20,000         | +20,000          | + 20.00        |
| Other current liabilities            | 5,000            | 10,000           | +5,000           | + 100.00       |
| <b>Total Current Liabilities (1)</b> | <b>1,55,000</b>  | <b>1,75,000</b>  | <b>+20,000</b>   | <b>+ 12.90</b> |
| <b>Liabilities:</b>                  |                  |                  |                  |                |
| <b>Long term loans:</b>              |                  |                  |                  |                |
| Debentures                           | 2,00,000         | 3,00,000         | +1,00,000        | + 50.00        |
| Long-term loan on Mortgage           | 1,50,000         | 2,00,000         | +50,000          | + 33.33        |
| <b>Total Long Term loans (2)</b>     | <b>3,50,000</b>  | <b>5,00,000</b>  | <b>+1,50,000</b> | <b>+ 42.86</b> |
| Share holders funds:                 |                  |                  |                  |                |
| Equity Share Capital                 | 6,00,000         | 8,00,000         | +2,00,000        | + 33.33        |
| Reserve & Surplus                    | 3,30,000         | 2,22,000         | -1,08,000        | - 32.73        |
| <b>Total Share holders Funds (3)</b> | <b>9,30,000</b>  | <b>10,22,000</b> | <b>+92,000</b>   | <b>+ 9.90</b>  |
| <b>Total Liabilities (1+2+3)</b>     | <b>14,35,000</b> | <b>16,97,000</b> | <b>+2,62,000</b> | <b>+ 18.26</b> |

**Interpretation:**

1. The comparative balance sheet of the company reveals that during 2004 their has been an increase in fixed assets of 1,10,000 i.e., 13.49% while long-term liabilities to outsiders have relatively increased by Rs.1, 50,000 and equity share capital has increased by Rs.2 lakhs. This fact depicts that the policy of the company is to purchase fixed assets from the long-term sources of finance thereby not affecting the working capital.

2. The current assets have increased by Rs.1, 52,000 i.e., 24.52% and cash has increased by Rs.60, 000. On the other hand, there has been an increase in inventories amounting to Rs.1 lakh. The current liabilities have increased only by Rs.20, 000 i.e., 12.9%. This further confirms that the company has raised long-term finances even for the current assets resulting in to an improvement in the liquidity position of the company.
3. Reserved and surplus have decreased from Rs.3, 30,000 to Rs.2, 22,000 i.e., 32.73% which shows that the company has utilized reserves and surpluses for the payment of dividends to shareholders either in cash or by the issue of bonus shares.
4. The overall financial position of the company is satisfactory.

**Illu.9 : The following are the Balance Sheets of Vidhi Ltd., for the years ended 31.3.2001 and 31.3.2002:**

| <i>Liabilities</i>            | <i>31.3.01<br/>Rs.</i> | <i>31.3.02<br/>Rs.</i> | <i>Assets</i>                 | <i>31.3.01<br/>Rs.</i> | <i>31.3.02<br/>Rs.</i> |
|-------------------------------|------------------------|------------------------|-------------------------------|------------------------|------------------------|
| <b>Equity Capital</b>         | <b>1,00,000</b>        | <b>1,65,000</b>        | <b>Fixed Assets<br/>(Net)</b> | <b>1,20,000</b>        | <b>1,75,000</b>        |
| <b>Preference<br/>capital</b> | <b>50,000</b>          | <b>75,000</b>          | <b>Inventory</b>              | <b>20,000</b>          | <b>25,000</b>          |
| <b>Reserves</b>               | <b>27,500</b>          | <b>25,000</b>          | <b>Debtors</b>                | <b>50,000</b>          | <b>62,500</b>          |
| <b>Overdraft</b>              | <b>25,000</b>          | <b>25,000</b>          | <b>Bills receivable</b>       | <b>10,000</b>          | <b>30,000</b>          |
| <b>Creditors</b>              | <b>20,000</b>          | <b>25,000</b>          | <b>Prepaid<br/>expenses</b>   | <b>5,000</b>           | <b>6,000</b>           |
| <b>Provision for tax</b>      | <b>17,500</b>          | <b>25,000</b>          | <b>Cash in Bank</b>           | <b>20,000</b>          | <b>26,500</b>          |
|                               |                        |                        | <b>Cash in hand</b>           | <b>5,000</b>           | <b>15,000</b>          |
|                               | <b>2,30,000</b>        | <b>3,40,000</b>        |                               | <b>2,30,000</b>        | <b>3,40,000</b>        |

**Prepare a comparative Balance Sheet and comment.**

**Solution :****Comparative Balance Sheet of Vidhi Ltd. for the year ended 31-3-01**

| <i>Particulars</i>            | <i>31-3-01</i>  | <i>31-3-02</i>  | <i>Increase/<br/>decrease<br/>Rs.</i> | <i>Increase/<br/>decrease<br/>Rs.</i> |
|-------------------------------|-----------------|-----------------|---------------------------------------|---------------------------------------|
| <b>Current Assets:</b>        |                 |                 |                                       |                                       |
| Inventory                     | 20,000          | 25,000          | (+) 5,000                             | (+) 25%                               |
| Debtors                       | 50,000          | 62,500          | (+) 12,500                            | (+) 25%                               |
| Bills receivable              | 10,000          | 30,000          | (+) 20,000                            | (+) 200%                              |
| Prepaid expenses              | 5,000           | 6,000           | (+) 1,000                             | (+) 20%                               |
| Cash in bank                  | 20,000          | 26,500          | (+) 6,500                             | (+) 32.5%                             |
| Cash in hand                  | 5,000           | 15,000          | (+) 10,000                            | (+) 200%                              |
| Total Current Assets (A)      | 1,10,000        | 1,65,000        | (+) 55,000                            | (+) 50%                               |
| <b>Current Liabilities:</b>   |                 |                 |                                       |                                       |
| Overdraft                     | 25,000          | 25,000          | NIL                                   | NIL                                   |
| Creditors                     | 20,000          | 25,000          | (+) 5,000                             | (+) 25%                               |
| Provision for tax             | 17,500          | 25,000          | (+) 6,500                             | (+) 42.86%                            |
| Total Current Liabilities (B) | 62,500          | 75,000          | (+) 12,500                            | (+) 20%                               |
| Working Capital A – B         | 47,500          | 90,000          | (+) 42,500                            | (+) 89.47%                            |
| Add: Fixed assets (Net)       | 12,000          | 1,75,000        | (+) 55,000                            | (+) 45.83%                            |
| Capital employed              | 1,67,500        | 2,65,000        | (+) 97,500                            | (+) 58.21%                            |
| Less: Long term liabilities   | -               | -               | -                                     | -                                     |
| Shareholder funds             | 1,67,500        | 2,65,000        | (+) 97,500                            | (+) 58.21%                            |
| <b>Proof:</b>                 |                 |                 |                                       |                                       |
| Equity capital                | 1,00,000        | 1,65,000        | (+) 65,000                            | (+) 65%                               |
| Preference capital            | 50,000          | 75,000          | (+) 25,000                            | (+) 50%                               |
| Reserves                      | 17,500          | 25,000          | (+) 7,500                             | (+) 42.86%                            |
|                               | <b>1,67,500</b> | <b>2,65,000</b> | <b>(+) 97,500</b>                     | <b>(+) 58.21%</b>                     |

**Comment on financial position:** Compared with 2001 and 2002 total current assets increased by 50% and current liabilities increased by 20% working capital is increase by

58.21%. Share capital is increased by 65% of an amount available by issuing the shares in mostly used for working capital.

**Illu.10 : From the following data prepare comparative balance sheets in vertical form as at 31-3-2004 and 31-3-2005 of Rao Ltd.**

|                     | 2004<br>Rs. | 2005<br>Rs. |           | 2004<br>Rs. | 2005<br>Rs. |
|---------------------|-------------|-------------|-----------|-------------|-------------|
| Share capital       | 70,000      | 80,000      | Building  | 55,000      | 80,000      |
| P and L a/c         | 20,000      | 20,000      | Machinery | 43,000      | 50,000      |
| Debentures          | 20,000      | 30,000      | Stock     | 25,000      | 5,000       |
| Other secured loans | 10,000      | 20,000      | Debtors   | 15,000      | 10,000      |
| Creditors           | 10,000      | 3,000       | Cash      | 2,000       | 15,000      |
| Bank Overdraft      | 8,000       | 4,000       |           |             |             |
| O/s expenses        | 2,000       | 3,000       |           |             |             |
|                     | 1,40,000    | 1,60,000    |           | 1,40,000    | 1,60,000    |

Also offer your comments.

**Solution :**

**Comparative Balance Sheet of Rao Ltd. as at 31-3-04 & 31-3-05**

| Particulars                     | 2004          | 2005          | Change<br>in Rs. | Change<br>in % |
|---------------------------------|---------------|---------------|------------------|----------------|
| <b>I Assets :</b>               |               |               |                  |                |
| Current Assets :                |               |               |                  |                |
| Stock                           | 25,000        | 5,000         | - 20,000         | - 20.00        |
| Debtors                         | 15,000        | 10,000        | - 5,000          | - 33.33        |
| Cash                            | 2,000         | 15,000        | + 13,000         | + 650.00       |
| <b>Total Current assets (A)</b> | <b>42,000</b> | <b>30,000</b> | <b>- 12,000</b>  | <b>- 28.57</b> |
| Fixed Assets :                  |               |               |                  |                |

|                                      |                 |                 |                 |                |
|--------------------------------------|-----------------|-----------------|-----------------|----------------|
| Building                             | 55,000          | 80,000          | + 25,000        | + 45.45        |
| Machinery                            | 43,000          | 50,000          | + 7,000         | + 16.28        |
| <b>Total Fixed Assets (B)</b>        | <b>98,000</b>   | <b>1,30,000</b> | <b>+ 32,000</b> | <b>+ 32.65</b> |
| Investments :                        | -               | -               | -               | -              |
| <b>Total Investments ©</b>           | -               | -               | -               | -              |
| Total Assets (A + B + C)             | <b>1,40,000</b> | <b>1,60,000</b> | <b>+ 20,000</b> | <b>+ 14.29</b> |
| <b>II Liabilities :</b>              |                 |                 |                 |                |
| Current Liabilities :                |                 |                 |                 |                |
| Creditors                            | 10,000          | 3,000           | - 7,000         | - 70.00        |
| Bank Overdraft                       | 8,000           | 4,000           | - 4,000         | - 50.00        |
| Outstanding expenses                 | 2,000           | 3,000           | + 1,000         | + 50.00        |
| <b>Total current Liabilities (A)</b> | <b>20,000</b>   | <b>10,000</b>   | <b>- 10,000</b> | <b>- 50.00</b> |
| Long term loans :                    |                 |                 |                 |                |
| Debentures                           | 20,000          | 30,000          | + 10,000        | + 50.00        |
| Other secured loans                  | 10,000          | 20,000          | + 10,000        | + 100.00       |
| <b>Total for long term loans (B)</b> | <b>30,000</b>   | <b>50,000</b>   | <b>+ 20,000</b> | <b>+ 66.67</b> |
| Shareholders Funds :                 |                 |                 |                 |                |
| Share capital                        | 70,000          | 80,000          | + 10,000        | + 14.29        |
| Profit & Loss a/c                    | 20,000          | 20,000          | -               | -              |
| <b>Total Shareholders Funds ©</b>    | <b>90,000</b>   | <b>1,00,000</b> | <b>+ 10,000</b> | <b>+ 11.11</b> |
| Total Liabilities (A+B+C)            | <b>1,40,000</b> | <b>1,60,000</b> | <b>+ 20,000</b> | <b>+ 14.29</b> |

**Comment :**

The comparative analysis of the Balance Sheet of Rao Ltd. reveals that in current assets the stock and debtors declined by 20% and 33.3% respectively during 2005 over the previous year. On the other hand, there was a substantial increase by 6.5 times in case of cash balances.

In fixed assets the buildings increased by 45% while the machinery also increased by 16% during the year 2005 over 2004, finally resulting in the increase of total assets by over 14%.

While coming to liabilities, the creditors and overdraft of the company declined by 70% and 50% respectively during 2005 over the previous year 2004. The outstanding expenses and long

term loans, more particularly the other secured loans increased substantially. There was increase in the share capital of the company also. However, the profit and loss account remained same.

Even though the present financial position of the company is better of now there is a need to increase the turnover of current assets and profit of the company as early as possible.

**Illu.11 : The following are the balance sheets of Hindustan Ltd. for the years ending 31<sup>st</sup> March 2004 and 2005 :**

|                                | 2004 Rs. | 2005 Rs.  |
|--------------------------------|----------|-----------|
| Equity share capital           | 4,00,000 | 6,60,000  |
| Preference share capital       | 2,00,000 | 3,00,000  |
| Reserves                       | 40,000   | 60,000    |
| Profit & Loss a/c              | 30,000   | 40,000    |
| Bank overdraft                 | 1,00,000 | 1,00,000  |
| Creditors                      | 80,000   | 1,00,000  |
| Provision for taxation         | 40,000   | 50,000    |
| Proposed dividend              | 30,000   | 50,000    |
|                                | 9,20,000 | 13,60,000 |
| Fixed assets less depreciation | 4,80,000 | 7,00,000  |
| Stock                          | 80,000   | 1,00,000  |
| Debtors                        | 2,00,000 | 2,50,000  |
| Bills receivable               | 40,000   | 1,20,000  |
| Prepaid expenses               | 20,000   | 24,000    |
| Cash in hand                   | 80,000   | 1,06,000  |
| Cash at bank                   | 20,000   | 60,000    |
|                                | 9,20,000 | 13,60,000 |

**Prepare the comparative Balance Sheet and study its financial position.**

**Solution :****Comparative Balance Sheet of Hindustan Ltd. as at 31<sup>st</sup> March 2004 and 2005**

| <b>Particulars</b>             | <b>2004</b>     | <b>2005</b>     | <b>Change in<br/>Rs.</b> | <b>Change<br/>in %</b> |
|--------------------------------|-----------------|-----------------|--------------------------|------------------------|
| <b>Assets :</b>                |                 |                 |                          |                        |
| Current Assets :               |                 |                 |                          |                        |
| Stock                          | 80,000          | 1,00,000        | + 20,000                 | + 25.00                |
| Debtors                        | 2,00,000        | 2,50,000        | + 50,000                 | + 25.00                |
| Bills receivable               | 40,000          | 1,20,000        | + 80,000                 | + 200.00               |
| Prepaid expenses               | 20,000          | 24,000          | + 4,000                  | + 20.00                |
| Cash                           | 80,000          | 1,06,000        | + 26,000                 | + 32.50                |
| Bank                           | 20,000          | 60,000          | + 40,000                 | + 200.00               |
| Total current assets (1)       | <b>4,40,000</b> | <b>6,60,000</b> | <b>+ 2,20,000</b>        | <b>+ 50.00</b>         |
| <b>Fixed assets :</b>          |                 |                 |                          |                        |
| Fixed assets less depreciation | 4,80,000        | 7,00,000        | + 2,20,000               | + 48.83                |
| Total Fixed assets (2)         | <b>4,80,000</b> | <b>7,00,000</b> | <b>+ 2,20,000</b>        | <b>+ 48.83</b>         |



|                                      |                 |                  |                   |                |
|--------------------------------------|-----------------|------------------|-------------------|----------------|
| <b>Total Assets</b>                  | <b>9,20,000</b> | <b>13,60,000</b> | <b>+ 4,40,000</b> | <b>+ 47.83</b> |
| <b>II. Liabilities</b>               |                 |                  |                   |                |
| <i>Current liabilities :</i>         |                 |                  |                   |                |
| <i>Bank overdraft</i>                | 1,00,000        | 1,00,000         | -                 | -              |
| <i>Creditors</i>                     | 80,000          | 1,00,000         | + 20,000          | + 25.00        |
| <i>Provision for taxation</i>        | 40,000          | 50,000           | + 10,000          | + 25.00        |
| <i>Provides dividend</i>             | 30,000          | 50,000           | + 20,000          | + 66.67        |
| <b>Total current liabilities (3)</b> | <b>2,50,000</b> | <b>3,00,000</b>  | <b>+ 50,000</b>   | <b>+ 20.00</b> |
| <b>Shareholders Funds :</b>          |                 |                  |                   |                |
| <i>Equity capital</i>                | 4,00,000        | 6,60,000         | + 2,60,000        | + 65.00        |
| <i>Pre. Capital</i>                  | 2,00,000        | 3,00,000         | + 1,00,000        | + 50.00        |
| <i>Reserves</i>                      | 40,000          | 60,000           | + 20,000          | + 50.00        |
| <i>Profit and Loss a/c</i>           | 30,000          | 40,000           | + 10,000          | + 33.33        |
| <b>Total shareholders funds (4)</b>  | <b>6,70,000</b> | <b>10,60,000</b> | <b>+ 3,90,000</b> | <b>+ 58.21</b> |
| <b>Total Liabilities (3 + 4)</b>     | <b>9,20,000</b> | <b>13,60,000</b> | <b>+ 4,40,000</b> | <b>+ 47.83</b> |

### Interpretation of the analysis :

The interpretation of the comparative balance sheet of Hindustan Ltd. for the year 2004 and 2005 is given below.

1. The total current assets of the company increased by 50% during 2005 over the year 2004. In current assets there is substantial increase in bills receivable and bank balances.
2. There is also increase in the fixed assets of the company by around 49% during the same period.
3. The current liabilities of the company increased by 20%. However, the bank overdraft remain constant. While coming to the shareholders funds there was increase of shareholders funds by 58.2% during 2005 over the year 2004.
4. On the whole, the company is having good growth during 2005 over the year 2004. The financial position of the company is satisfactory in all respects.

**Illu.12 : The following are the balance sheet of a company for the year 1995 and 1996. Comment on the financial position of the business with the help of comparative balance sheet :**

**Balance Sheet of Dream Land Co. as on 31<sup>st</sup> March**

| Liabilities          | 1995             | 1996             | Assets           | 1995             | 1996             |
|----------------------|------------------|------------------|------------------|------------------|------------------|
| Share capital        | 5,00,000         | 7,00,000         | Buildings        | 5,00,000         | 6,00,000         |
| Reserve              | 50,000           | 50,000           | Machinery        | 2,00,000         | 3,50,000         |
| Profit and Loss a/c  | 1,60,000         | 1,70,000         | Stock            | 65,000           | 87,000           |
| 8% Debentures        | 1,00,000         | 1,00,000         | Bills receivable | 30,000           | 25,000           |
| Creditors            | 1,00,000         | 1,70,000         | Debtors          | 1,00,000         | 1,32,500         |
| Bills payable        | 70,000           | 22,000           | Bank             | 95,000           | 58,300           |
| Outstanding expenses | 20,000           | 48,000           | Prepaid expenses | 10,000           | 7,200            |
|                      | <b>10,00,000</b> | <b>12,60,000</b> |                  | <b>10,00,000</b> | <b>12,60,000</b> |

**Solution :**

**Comparative Balance Sheet of Dreamland Company  
as on 31<sup>st</sup> March 1995 and 1996**

| Particulars              | 1995<br>Rs.     | 1996<br>Rs.     | Change in<br>Rs. | Change in<br>% |
|--------------------------|-----------------|-----------------|------------------|----------------|
| <b>I. Assets :</b>       |                 |                 |                  |                |
| Current Assets :         |                 |                 |                  |                |
| Stock                    | 65,000          | 87,000          | +22,000          | + 33.85        |
| Debtors                  | 1,00,000        | 1,32,500        | + 32,500         | + 32.50        |
| Bills Receivable         | 30,000          | 25,000          | (-) 5,000        | (-) 16.67      |
| Bank                     | 95,000          | 58,300          | (-) 36,700       | (-) 38.63      |
| Prepaid expenses         | 10,000          | 7,200           | (-) 2,800        | (-) 28.00      |
| Total current assets (1) | <b>3,00,000</b> | <b>3,10,000</b> | <b>+ 10,000</b>  | <b>+ 33.33</b> |
| <b>Fixed Assets :</b>    |                 |                 |                  |                |

|                                   |                  |                  |                   |                |
|-----------------------------------|------------------|------------------|-------------------|----------------|
| Buildings                         | 5,00,000         | 6,00,000         | + 1,00,000        | + 20.00        |
| Machinery                         | 2,00,000         | 3,50,000         | + 1,50,000        | + 75.00        |
| Total fixed assets (2)            | <b>7,00,000</b>  | <b>9,50,000</b>  | <b>+ 2,50,000</b> | <b>+ 35.71</b> |
| Total Assets (1 + 2)              | <b>10,00,000</b> | <b>12,60,000</b> | <b>+ 2,60,000</b> | <b>+ 26.00</b> |
| <b>II. Liabilities :</b>          |                  |                  |                   |                |
| Current Liabilities :             |                  |                  |                   |                |
| Creditors                         | 1,00,000         | 1,70,000         | + 70,000          | + 70.00        |
| Bills payable                     | 70,000           | 22,000           | (-) 48,000        | (-) 68.57      |
| Outstanding expenses              | 20,000           | 48,000           | + 28,000          | + 140.00       |
| Total Current liabilities (3)     | <b>1,90,000</b>  | <b>2,40,000</b>  | <b>+ 50,000</b>   | <b>+ 26.32</b> |
| Provisions (4)                    | -                | -                | -                 | -              |
| Long-term loans : (5)             | -                | -                | -                 | -              |
| 18% Debentures                    | 1,00,000         | 1,00,000         | -                 | -              |
| Total Long-term debts             | <b>1,00,000</b>  | <b>1,00,000</b>  | -                 | -              |
| Shareholder's funds (6)           |                  |                  |                   |                |
| Share capital                     | 5,00,000         | 7,00,000         | + 2,00,000        | + 40.00        |
| General Reserve                   | 50,000           | 50,000           | -                 | -              |
| Profit & Loss Appropriation a/c   | 1,60,000         | 1,70,000         | + 10,000          | + 6.25         |
| Total current funds               | <b>7,10,000</b>  | <b>9,20,000</b>  | <b>+ 2,10,000</b> | <b>+ 29.58</b> |
| Total Liabilities (3 + 4 + 5 + 6) | <b>10,00,000</b> | <b>12,60,000</b> | <b>+ 2,60,000</b> | <b>+ 26.00</b> |

Working Notes :

**Calculation of percentages**

Similarly other percentages to be calculated.

$$= \frac{\text{Change in Rupees}}{\text{Amount of Base year (1994)}} \times 100$$

For Example : 
$$\frac{\text{Changing in current assets}}{\text{Total amount of current asses in 1994}} \times 100$$

$$= \frac{10,000}{3,00,000} \times 100 = 33.33\%$$

**Change in working capital :**

Current assets – current liabilities

1995 – Rs.3,00,000 – 1,90,000 = 1,10,000

1996 – Rs.3,10,000 – 2,40,000 = 70,000

-----  
**- 40,000**  
 -----

$$= \frac{40,000}{3,00,000} \times 100 = -13.33\%$$

**Interpretation of Results :**

The comparative balance sheet of Dhanalakshmi Company for the years 1995 and 1996 reveals the following.

1. The current assets of the company increased by 33% in 1996 compare to the year 1995. In current assets the stock and the debtors increased during the year while the bills receivable, bank balance and prepaid expenses declined during the year.
2. In fixed assets the buildings as well as machinery increase during 1996 over the year 1995. The increase was substantially incase of machinery.
3. While coming to the current liabilities the outstanding expenses and the creditors increased substantially while the bills payable declined by 68.6% during 1996.
4. The company did not maintain any provision during both the years.
5. The long term debt of the company remain constant, while that of share capital increased by 40% during 1996 over the year 1995.
6. Thus, it can be concluded that the company is trying to grow faster and depending more on equity capital. The company is maintaining more current assets and it may be lead to the fall of the earnings of the company. Hence, the company should concentrate more on the turnover of the current assets for increasing the return of the company.

**Illu.13 : The following are the balance sheets of Vindhya Ltd. for the years ended 31-3-2004 and 31-3-2005**

| <b>Liabilities</b>        | <b>31-3-04<br/>Rs.</b> | <b>31-3-05<br/>Rs.</b> | <b>Assets</b>                 | <b>31-3-04<br/>Rs.</b> | <b>31-3-05<br/>Rs.</b> |
|---------------------------|------------------------|------------------------|-------------------------------|------------------------|------------------------|
| <b>Equity capital</b>     | <b>1,00,000</b>        | <b>1,65,000</b>        | <b>Fixed assets<br/>(net)</b> | <b>1,20,000</b>        | <b>1,75,000</b>        |
| <b>Preference capital</b> | <b>50,000</b>          | <b>75,000</b>          | <b>Inventory</b>              | <b>20,000</b>          | <b>25,000</b>          |
| <b>Reserves</b>           | <b>17,500</b>          | <b>25,000</b>          | <b>Debtors</b>                | <b>50,000</b>          | <b>62,500</b>          |
| <b>Overdraft</b>          | <b>25,000</b>          | <b>25,000</b>          | <b>Bills receivables</b>      | <b>10,000</b>          | <b>30,000</b>          |
| <b>Creditors</b>          | <b>20,000</b>          | <b>25,000</b>          | <b>Prepaid expenses</b>       | <b>5,000</b>           | <b>6,000</b>           |
| <b>Provision for tax</b>  | <b>17,500</b>          | <b>25,000</b>          | <b>Cash at Bank</b>           | <b>20,000</b>          | <b>26,500</b>          |
|                           |                        |                        | <b>Cash in hand</b>           | <b>5,000</b>           | <b>15,000</b>          |
|                           | <b>2,30,000</b>        | <b>3,40,000</b>        |                               | <b>2,30,000</b>        | <b>3,40,000</b>        |

**Prepare a comparative balance sheet and comment.**

### **Solution :**

Comparative Balance Sheet of Vindya ltd. for the years ended 31-3-2004 and 31-3-2005

| <b>Particulars</b>              | <b>31-3-04<br/>Rs.</b> | <b>31-3-05<br/>Rs.</b> | <b>Change in<br/>Rs.</b> | <b>Change in<br/>%</b> |
|---------------------------------|------------------------|------------------------|--------------------------|------------------------|
| <b>Assets :</b>                 |                        |                        |                          |                        |
| Current Assets :                |                        |                        |                          |                        |
| Inventory                       | 20,000                 | 25,000                 | + 5,000                  | + 25.00                |
| Debtors                         | 50,000                 | 62,500                 | + 12,500                 | + 25.00                |
| Bills receivable                | 10,000                 | 30,000                 | + 20,000                 | + 200.00               |
| Prepaid expenses                | 5,000                  | 6,000                  | + 1,000                  | + 20.00                |
| Cash in Bank                    | 20,000                 | 26,500                 | + 6,500                  | + 200.00               |
| Cash in hand                    | 5,000                  | 15,000                 | + 10,000                 | + 200.00               |
| <b>Total Current Assets (1)</b> | <b>1,10,000</b>        | <b>1,65,000</b>        | <b>+ 55,000</b>          | <b>+ 50.00</b>         |
| Fixed Assets :                  |                        |                        |                          |                        |
| Net fixed Assets                | 1,20,000               | 1,75,000               | + 55,000                 | + 45.83                |

|                                      |                 |                 |                 |                |
|--------------------------------------|-----------------|-----------------|-----------------|----------------|
| <b>Total Fixed assets (2)</b>        | <b>1,20,000</b> | <b>1,75,000</b> | <b>+ 55,000</b> | <b>+ 45.83</b> |
| Total assets (1 + 2) (3)             | 2,30,000        | 3,40,000        | + 1,10,000      | + 47.83        |
| <b>Liabilities :</b>                 |                 |                 |                 |                |
| Current liabilities                  |                 |                 |                 |                |
| Overdraft                            | 25,000          | 25,000          | -               | -              |
| Creditors                            | 20,000          | 25,000          | + 5,000         | + 25.00        |
| Provision for tax                    | 17,500          | 25,000          | + 7,500         | + 42.86        |
| <b>Total Current liabilities (4)</b> | <b>62,500</b>   | <b>75,000</b>   | <b>+ 12,500</b> | <b>+ 20.00</b> |
| Share holder's funds                 |                 |                 |                 |                |
| Equity capital                       | 1,00,000        | 1,65,000        | 65,000          | + 65.00        |
| Preference capital                   | 50,000          | 75,000          | + 25,000        | + 50.00        |
| Reserves                             | 17,500          | 25,000          | + 7,500         | + 42.86        |
| <b>Total share holders funds (5)</b> | <b>1,67,500</b> | <b>2,65,000</b> | <b>+ 97,500</b> | <b>58.21</b>   |
| Total Liabilities (4 + 5)            | 2,30,000        | 3,40,000        | + 1,10,000      | + 47.83        |

**Comment :**

The analysis of common size balance sheet of Ramu Ltd. reveals the following.

1. The current assets of the company increase marginally from 47.8% during 2003 to 48.5% during 2004. Within current assets there is increase in bills receivables and cash. On the other hand, there was decline in stock, debtors and prepaid expenses.
2. The net fixed assets of the company decline slightly 52.2% to 51.5% during 2004 over the year 2003.
3. While coming to the liabilities the current liabilities of the company declined substantially 27.2% during 2004 to 22.1% during 2003. The shareholders funds on the other hand, increased from 43.5% to 48.5% during the same period.
4. The financial position of the company on the whole is satisfactory.

**Illu.14 : Following are the Balance sheets for year 2005 and 2006. Prepare comparative balance sheet statement and comment on financial position.**

| <b>Liabilities</b>   | <b>2005 Rs.</b> | <b>2006 Rs.</b> | <b>Assets</b> | <b>2005 Rs.</b> | <b>2006 Rs.</b> |
|----------------------|-----------------|-----------------|---------------|-----------------|-----------------|
| 6% Preference shares | 60,000          | 60,000          | Land          | 20,000          | 20,000          |
| Equity share capital | 80,000          | 80,000          | Building      | 60,000          | 54,000          |
| Reserves             | 40,000          | 49,000          | Plant         | 60,000          | 54,000          |
| Outstanding tax      | 20,000          | 30,000          | Furniture     | 20,000          | 28,000          |
| Sundry creditors     | 30,000          | 40,000          | Stock         | 40,000          | 60,000          |
| B/P                  | 10,000          | 15,000          | Debtors       | 40,000          | 60,000          |
| Debentures           | 20,000          | 30,000          | Cash          | 20,000          | 28,000          |
|                      | <b>2,60,000</b> | <b>3,04,000</b> |               | <b>2,60,000</b> | <b>3,04,000</b> |

### **Solution :**

#### **Comparative size Balance Sheet as on 31<sup>st</sup> Dec 2005 and 2006**

| <b>Particulars</b>              | <b>2005</b>     | <b>2006</b>     | <b>Change in Rs.</b> | <b>Change in Rs.</b> |
|---------------------------------|-----------------|-----------------|----------------------|----------------------|
| <b>I. Assets :</b>              |                 |                 |                      |                      |
| Current Assets :                |                 |                 |                      |                      |
| Stock                           | 40,000          | 60,000          | + 20,000             | + 50.00              |
| Debtors                         | 40,000          | 60,000          | + 20,000             | + 50.00              |
| Cash                            | 20,000          | 28,000          | + 8,000              | + 40.00              |
| <b>Total current Assets (A)</b> | <b>1,00,000</b> | <b>1,48,000</b> | <b>+ 48,000</b>      | <b>+ 48.00</b>       |
| Fixed Assets :                  |                 |                 |                      |                      |
| Land                            | 20,000          | 20,000          | -                    | -                    |
| Buildings                       | 60,000          | 54,000          | - 6,000              | - 10.00              |
| Plant                           | 60,000          | 54,000          | - 6,000              | - 10.00              |
| Furniture                       | 20,000          | 28,000          | + 8,000              | + 40.00              |

|                                      |                 |                 |                 |                |
|--------------------------------------|-----------------|-----------------|-----------------|----------------|
| Total Fixed Assets (B)               | <b>1,60,000</b> | <b>1,56,000</b> | <b>- 4,000</b>  | <b>- 2.5</b>   |
| <b>Total of assets (A + B)</b>       | <b>2,60,000</b> | <b>3,04,000</b> | <b>+ 44,000</b> | <b>+ 16.92</b> |
| <b>II. Liabilities :</b>             |                 |                 |                 |                |
| Current Liabilities                  |                 |                 |                 |                |
| Sundry creditors                     | 30,000          | 40,000          | + 10,000        | + 33.33        |
| B/P                                  | 10,000          | 15,000          | + 5,000         | + 50.00        |
| Outstanding tax                      | 20,000          | 30,000          | + 10,000        | + 50.00        |
| Total current liabilities ©          | <b>60,000</b>   | <b>85,000</b>   | <b>+ 25,000</b> | <b>+ 41.67</b> |
| Long term loans :                    |                 |                 |                 |                |
| Debtors                              | 20,000          | 30,000          | + 10,000        | + 50.00        |
| Total long- term loans (D)           | <b>20,000</b>   | <b>30,000</b>   | <b>+ 10,000</b> | <b>+ 50.00</b> |
| Shareholder's funds                  |                 |                 |                 |                |
| 6% Preference share capital          | 60,000          | 60,000          | -               | -              |
| Equity share capital                 | 80,000          | 80,000          | -               | -              |
| Reserves                             | 40,000          | 49,000          | + 9,000         | + 22.5         |
| Total shareholders' funds (E)        | <b>1,80,000</b> | <b>1,89,000</b> | <b>+ 9,000</b>  | <b>+ 22.5</b>  |
| <b>Total liabilities (C + D + E)</b> | <b>2,60,000</b> | <b>3,04,000</b> | <b>+ 44,000</b> | <b>+ 16.92</b> |

**Comments :**

1. The analysis reveals that the current assets of the company increase substantially by 48% during 2006 over the year 2005.
2. On the other hand, the fixed assets of company decline substantially, even though there was substantial increase in the investment in furniture during the same period.
3. The current liabilities and the long term loans of the company also increase during 2006 over the year 2005. However, the preference share capital and equity share capital almost remain constant. There was increase in only in reserves.
4. Thus, the financial position of the company even though satisfactory for the time being, requires the increase in the investment in fixed assets and this can be financed by increasing long term debt of the company.



**Illu.15 :** The following are the Balance Sheet of Rashmi Company for the years 2001 and 2002. Prepare a comparative Balance Sheet and study the financial position of the company.

**Balance Sheet as on 31-12-2001 and 31-12-2002**

| <b>Liabilities</b>               | <b>2001 Rs.</b>  | <b>2002 Rs.</b>  |
|----------------------------------|------------------|------------------|
| <b>Equity share capital</b>      | <b>12,00,000</b> | <b>16,00,000</b> |
| <b>Reserve and Surplus</b>       | <b>6,60,000</b>  | <b>4,44,000</b>  |
| <b>Debentures</b>                | <b>4,00,000</b>  | <b>6,00,000</b>  |
| <b>Long- term loans</b>          | <b>3,00,000</b>  | <b>4,00,000</b>  |
| <b>Bills payable</b>             | <b>1,00,000</b>  | <b>90,000</b>    |
| <b>Sundry creditors</b>          | <b>2,00,000</b>  | <b>2,40,000</b>  |
| <b>Other current liabilities</b> | <b>10,000</b>    | <b>20,000</b>    |
| <b>Total</b>                     | <b>28,70,000</b> | <b>33,94,000</b> |

| <b>Assets</b>                   | <b>2001 Rs.</b>  | <b>2002 Rs.</b>  |
|---------------------------------|------------------|------------------|
| <b>Land and Buildings</b>       | <b>7,40,000</b>  | <b>5,40,000</b>  |
| <b>Plant and Machinery</b>      | <b>8,00,000</b>  | <b>12,00,000</b> |
| <b>Fixtures and Fittings</b>    | <b>90,000</b>    | <b>1,10,000</b>  |
| <b>Cash in hand and at Bank</b> | <b>40,000</b>    | <b>1,60,000</b>  |
| <b>Bills receivable</b>         | <b>3,00,000</b>  | <b>1,80,000</b>  |
| <b>Sundry debtors</b>           | <b>4,00,000</b>  | <b>5,00,000</b>  |
| <b>Stock</b>                    | <b>5,00,000</b>  | <b>7,00,000</b>  |
| <b>Prepaid expenses</b>         | <b>Nil</b>       | <b>4,000</b>     |
| <b>Total</b>                    | <b>28,70,000</b> | <b>33,94,000</b> |

**Solution :****Comparative Balance Sheet of Rashmi Co. Ltd. for the year 2001 and 2002**

| Particulars                      | Year ending 31 <sup>st</sup><br>December |                  | Increase /<br>Decrease<br>(Amounts) | Increase /<br>decrease<br>(Percentage) |
|----------------------------------|--|------------------|-------------------------------------|--|
|                                  | 2001                                     | 2002             |                                     |  |
| <b>Assets :</b>                  |  |                  |                                     |  |
| Current Assets :                 |  |                  |                                     |  |
| Cash in hand and at bank         | 40,000                                   | 1,60,000         | + 1,20,000                          | + 300.00                               |
| Bills and receivable             | 3,00,000                                 | 1,80,000         | - 1,20,000                          | - 40.00                                |
| Sundry debtors                   | 4,00,000                                 | 5,00,000         | + 1,00,000                          | + 25.00                                |
| Stock                            | 5,00,000                                 | 7,00,000         | + 2,00,000                          | + 40.00                                |
| Prepaid expenses                 | -  | 4,000            | + 4,000                             | - 100.00                               |
| Total current assets (1)         | <b>12,40,000</b>                         | <b>15,44,000</b> | <b>+ 3,04,000</b>                   | <b>+ 24.52</b>                         |
| <b>Fixed Assets :</b>            |  |                  |                                     |  |
| Land & Buildings                 | 7,40,000                                 | 5,40,000         | - 2,00,000                          | - 27.03                                |
| Plant and Machinery              | 8,00,000                                 | 12,00,000        | + 4,00,000                          | + 50.00                                |
| Furniture & Fixtures             | 40,000                                   | 50,000           | + 10,000                            | + 25.00                                |
| Other fixed assets               | 50,000                                   | 60,000           | + 10,000                            | + 20.00                                |
| Total fixed assets (2)           | <b>16,30,000</b>                         | <b>18,50,000</b> | <b>+ 2,20,000</b>                   | <b>+ 13.49</b>                         |
| Total Assets (1 + 2)             | <b>28,70,000</b>                         | <b>33,94,000</b> | <b>+ 5,24,000</b>                   | <b>+ 18.26</b>                         |
| <b>Liabilities &amp; Capital</b> |  |                  |                                     |  |
| Current Liabilities :            |  |                  |                                     |  |
| Bills payable                    | 1,00,000                                 | 90,000           | - 10,000                            | - 10.00                                |
| Sundry Creditors                 | 2,00,000                                 | 2,40,000         | + 40,000                            | + 20.00                                |
| Other current liabilities        | 10,000                                   | 20,000           | + 10,000                            | + 100.00                               |
| Total Current liabilities (3)    | <b>3,10,000</b>                          | <b>3,50,000</b>  | <b>+ 40,000</b>                     | <b>+ 12.90</b>                         |
| Long-term loans :                |  |                  |                                     |  |
| Debentures                       | 4,00,000                                 | 6,00,000         | + 2,00,000                          | + 50.00                                |
| Long-term loan on Mortgage       | 3,00,000                                 | 4,00,000         | + 1,00,000                          | + 33.33                                |
| Total Long-term loans (4)        | <b>7,00,000</b>                          | <b>10,00,000</b> | <b>+ 3,00,000</b>                   | <b>+ 42.86</b>                         |
| Shareholder's funds:             |  |                  |                                     |  |

|                                |                  |                  |                   |                |
|--------------------------------|------------------|------------------|-------------------|----------------|
| Equity share capital           | 12,00,000        | 16,00,000        | + 4,00,000        | + 33.33        |
| Reserves & Surplus             | 6,60,000         | 4,44,000         | - 2,16,000        | - 32.73        |
| Total shareholder's funds: (5) | <b>18,60,000</b> | <b>20,44,000</b> | <b>+ 1,84,000</b> | <b>+ 9.90</b>  |
| Total Liabilities (3 + 4 + 5)  | <b>28,70,000</b> | <b>33,94,000</b> | <b>+ 5,24,000</b> | <b>+ 18.26</b> |

### Interpretation of results :

1. The financial analysis of the company during the year 2002 reveals that there is an increase of 18% in total assets, 24% in current assets and 13.5% in fixed assets. The long term loans of the company increased by 43%. On the other hand, the current liabilities increased by 12.9% only. The company's equity capital was increased by 33%. Since the company withdrew from reserves, the increase in shareholders' funds is 10% only.
2. On the whole, the company's financial position is under control. But from future point of view there is every need to increase the turnover of current assets in addition to bringing changes in the capital structure of the company.

**Illu.16 : The following are the Balance Sheets for the years 2003 and 2004. Prepare comparative Balance Sheet and comment on the financial position:**

|                      | 2003<br>(Rs.)   | 2004 (Rs.)      |           | 2003<br>(Rs.)   | 2004<br>(Rs.)   |
|----------------------|-----------------|-----------------|-----------|-----------------|-----------------|
| 6% Preference shares | 30,000          | 30,000          | Land      | 10,000          | 10,000          |
| Equity share capital | 40,000          | 40,000          | Building  | 30,000          | 27,000          |
| Reserve              | 20,000          | 24,500          | Plant     | 30,000          | 27,000          |
| Outstanding Tax      | 10,000          | 15,000          | Furniture | 10,000          | 14,000          |
| Creditors            | 15,000          | 20,000          | Stock     | 20,000          | 30,000          |
| Bills payable        | 5,000           | 7,500           | Debtors   | 20,000          | 30,000          |
| Debentures           | 10,000          | 15,000          | Cash      | 10,000          | 14,000          |
|                      | <b>1,30,000</b> | <b>1,52,000</b> |           | <b>1,30,000</b> | <b>1,52,000</b> |

**Solution :****Comparative Balance Sheet for the years 2003 and 2004**

| <b>Particulars</b>               | <b>2003</b>     | <b>2004</b>     | <b>Increase / decrease</b> | <b>% of increase/ decrease</b> |
|----------------------------------|-----------------|-----------------|----------------------------|--------------------------------|
| <b>(i) Assets :</b>              |                 |                 |                            |                                |
| <b>(A) Current Assets :</b>      |                 |                 |                            |                                |
| Stock                            | 20,000          | 30,000          | + 10,000                   | +50%                           |
| Debtors                          | 20,000          | 30,000          | + 10,000                   | + 50%                          |
| Cash                             | 10,000          | 14,000          | + 4,000                    | + 40%                          |
| Total of current assets (1)      | <b>50,000</b>   | <b>74,000</b>   | <b>24,000</b>              | <b>48%</b>                     |
| <b>(B) Fixed Assets :</b>        |                 |                 |                            |                                |
| Land                             | 10,000          | 10,000          | -                          | -                              |
| Buildings                        | 30,000          | 27,000          | - 3,000                    | - 10%                          |
| Plant                            | 30,000          | 27,000          | - 3,000                    | - 10%                          |
| Furniture                        | 10,000          | 14,000          | + 4,000                    | + 40%                          |
| Total Fixed Assets (2)           | <b>80,000</b>   | <b>78,000</b>   | <b>- 2,000</b>             | <b>- 2.5%</b>                  |
| Total assets (1 + 2) (3)         | <b>1,30,000</b> | <b>1,52,000</b> | <b>22,000</b>              | <b>16.92</b>                   |
| <b>(II) Liabilities :</b>        |                 |                 |                            |                                |
| <b>(C) Current liabilities :</b> |                 |                 |                            |                                |
| Outstanding tax                  | 10,000          | 15,000          | + 5,000                    | + 50%                          |
| Creditors                        | 15,000          | 20,000          | + 5,000                    | + 33.33%                       |
| Bills payable                    | 5,000           | 7,500           | + 2,500                    | + 50%                          |
| Total of Current Liabilities (4) | <b>30,000</b>   | <b>42,500</b>   | <b>+ 12,500</b>            | <b>+ 41.67%</b>                |
| <b>(D) Long term debts :</b>     |                 |                 |                            |                                |
| Debentures                       | 10,000          | 15,000          | + 5,000                    | + 50%                          |
| Total long term debts (5)        | <b>10,000</b>   | <b>15,000</b>   | <b>+ 5,000</b>             | <b>50</b>                      |
| <b>(E) Owners funds :</b>        |                 |                 |                            |                                |
| Preference share                 | 30,000          | 30,000          | -                          | -                              |
| Equity share capital             | 40,000          | 40,000          | -                          | -                              |
| Reserves                         | 20,000          | 24,500          | + 4,500                    | + 22.5%                        |

|                               |                 |                 |               |              |
|-------------------------------|-----------------|-----------------|---------------|--------------|
| Total of owners fund (6)      | 90,000          | 94,500          | +4,500        | + 5%         |
| Total liabilities (4 + 5 + 6) | <b>1,30,000</b> | <b>1,52,000</b> | <b>22,000</b> | <b>16.92</b> |

**Interpretation :**

The Comparative balance Sheet for the years 2003 and 2004 reveal the following :

1. The current assets of the firm have increased from Rs.50,000 in 2003 to Rs.74,000 in 2004 which shows an increase of Rs.48%. The current liabilities have increased from Rs.30,000 to Rs.42,500 registering an increase of 41.67%. Hence, it can be inferred that long term funds have been diverted, which indicates the satisfactory liquidity position of the firm.
2. The fixed assets for the year 2004 has been showing a decline of 2.5% whereas debentures increased by 50% and owners funds increased by 5%. It reveals the satisfactory long term financial position of the firm.
3. The reserves have increased from Rs.20,000 to Rs.24,500 at the end of December 2004, which registered an increase of 22.5%. It indicates the profitability position of the firm.

**16.8.2 Common size Statement Analysis :**

Common size statement is financial tool of studying key changes and trends in financial position of a company. In common size statement, each time is stated as a percentage of the total of which that item is a part, each percentage exhibits the relation of the individual item to its respective total. Therefore, the common size percentage method represents a type of ratio analysis. That is why this statement is also designated as ``component percentage'' or ``100 per cent statement''. Preparation of the common size statement involves two steps.

- (i) State the total of the statement as 100 per cent
- (ii) Compute the ratio of each item to the total in the statement.

Common-size statement can be used both for vertical and horizontal analysis. Comparison of the company's position with the related industry as a whole is possible with the help of vertical analysis. In contrast, horizontal analysis facilitates trend analysis of the financial position of the company over the past several years. There are two types of common size statements, viz., common size income statement and balance sheet.

**(a) Common Size Income Statement :**

The Common size income statement is designed to exhibit what proportion of the net sales has been absorbed by the various costs and expenses incurred by the enterprise, and the proportion that remains as net income. For preparing common size income statement all items in the income statement are expressed in percentage form in terms of total sales.

The common size income statements for a number of years are very helpful in pointing out efficiencies and inefficiencies. It must be remembered that the percentages may be influenced by variation in sale prices, higher or lower cost of goods acquired or both. Common size percentages must be supplemented for making detailed analysis of financial and operating data. It will, therefore, be more useful to use trend ratios as well as individual ratios showing relationships between balance sheet and income statement items.

**(b) Common Size Balance Sheet :**

Common size balance sheet is prepared by stating the total assets as 100 and reducing individual assets into percentages of the total. likewise, individual liability items are expressed as percentages of the total liabilities. Thus, the common size balance sheet percentage shows the relation of each asset item to total assets and of each liability percentage shows the relation of each asset item to total assets and of each liability and owner's equity item to total liabilities and owners' equity. A closer scrutiny of the common size balance Sheet discloses that this statement focuses on two important aspects.

1. Distribution pattern of liabilities as between current liabilities, long term liabilities and equity capital.
2. Distribution pattern of assets as between current assets, fixed assets and others

The common size balance sheet analysis can, of course, be carried further and extended to the study of what portion of a sub-group, rather than the total, an item is. Thus, in assessing the liquidity of current assets, it may be of interest to know not only what proportion of total assets is inventories, but also what proportion of current assets to represented by this asset. A study of common size statement of the company with that of a competitive company or the industry would show whether or not the company is managing assets efficiently. An analysis of the pattern of distribution of liabilities reveals the debt

equity position of the company too large a percentage of liabilities and a relatively low margin of safety for creditors.

While common size statements do not focus light on the relative sizes of individual companies which are compared, the problem of actual comparability between them is a matter to be resolved by the analyst judgement. Comparison of common size statement of a single enterprise over the years is valuable in that it reveals the changing proportions of components within group of assets and liabilities. However, care must be exercised in interpreting such changes and the trend which discloses.

**Illu.17 : Following are the income statements of X & Co. Ltd. and Y & Co. Ltd. For the year ended 31<sup>st</sup> December 2003.**

| <i>Expenses</i>           | <i>X &amp; Co.<br/>Ltd. Rs.</i> | <i>Y &amp; Co.<br/>Ltd. Rs.</i> | <i>Incomes</i>            | <i>X &amp; Co.<br/>Ltd. Rs.</i> | <i>Y &amp; Co.<br/>Ltd. Rs.</i> |
|---------------------------|---------------------------------|---------------------------------|---------------------------|---------------------------------|---------------------------------|
| To Opening Stock          | 20,000                          | 32,000                          | By Sales                  | 3,84,000                        | 4,31,000                        |
| To Purchases              | 1,40,000                        | 1,60,000                        | By Closing stock          | 40,000                          | 45,000                          |
| To Wages                  | 40,000                          | 30,000                          | By Profit on sale of land | 8,000                           | 14,000                          |
| To Manufacturing expenses | 20,000                          | 25,000                          | By Discount               | 2,000                           | 6,000                           |
| To Salaries               | 45,000                          | 48,000                          |                           |                                 |                                 |
| To Office expenses        | 15,000                          | 1,7000                          |                           |                                 |                                 |
| To Selling expenses       | 42,000                          | 50,000                          |                           |                                 |                                 |
| To Depreciation           | 20,000                          | 28,000                          |                           |                                 |                                 |
| To Loss by fire           | 10,000                          | 5,000                           |                           |                                 |                                 |
| To Interest paid          | 18,000                          | 23,000                          |                           |                                 |                                 |
| To Profit                 | 64,000                          | 78,000                          |                           |                                 |                                 |
|                           | 4,34,000                        | 4,96,000                        |                           | 4,34,000                        | 4,96,000                        |

You are required to prepare common size income statement.

**Solution :**

**Comparative Income Statement of X & co. ltd. and Y & Co. Ltd.  
For the year ended 31-12-2003**

| Particulars                         | X & Co.<br>Ltd.<br>Amount<br>Rs. | %            | Y & Co.<br>Ltd.<br>Amount<br>Rs. | %            |
|-------------------------------------|----------------------------------|--------------|----------------------------------|--------------|
| Sales (A)                           | 3,84,000                         | 100          | 4,31,000                         | 100          |
| Less: Cost of goods sold:           |                                  |              |                                  |              |
| Opening Stock                       | 20,000                           | 5.21         | 32,000                           | 7.42         |
| Add: Purchases                      | 1,40,000                         | 36.46        | 1,60,000                         | 37.12        |
| Wages                               | 40,000                           | 10.42        | 30,000                           | 6.96         |
| Manufacturing expenses              | 20,000                           | 5.20         | 25,000                           | 5.80         |
|                                     | <b>2,20,000</b>                  | <b>57.29</b> | <b>2,47,000</b>                  | <b>57.30</b> |
| Less: Closing Stock                 | 40,000                           | 10.42        | 45,000                           | 10.44        |
| Cost of goods sold (B)              | 1,80,000                         | 46.87        | 2,02,000                         | 46.86        |
| <b>Gross profit (A) – (B) = (c)</b> | <b>2,04,000</b>                  | <b>53.13</b> | <b>2,29,000</b>                  | <b>53.14</b> |
| Less: Operating Expenses:           |                                  |              |                                  |              |
| Salaries                            | 45,000                           | 11.72        | 48,000                           | 11.14        |
| Office Expenses                     | 15,000                           | 3.91         | 17,000                           | 3.94         |
| Selling expenses                    | 42,000                           | 10.94        | 50,000                           | 11.60        |
| Depreciation                        | 20,000                           | 5.21         | 28,000                           | 6.50         |
| <b>Total operating expenses (D)</b> | <b>1,22,000</b>                  | <b>31.78</b> | <b>1,43,000</b>                  | <b>33.18</b> |
| (c) – (D)                           | 82,000                           | 21.35        | 86,000                           | 19.95        |
| Add: Operating Income:              |                                  |              |                                  |              |
| Discount                            | 2,000                            | 0.52         | 6,000                            | 1.39         |



|  |                          |               |              |                 |              |
|--|--------------------------|---------------|--------------|-----------------|--------------|
| Operating Profit Before Interest and Tax (OPBIT) |                          | 84,000        | 21.87        | 92,000          | 21.34        |
| Less:  | Non – operating expenses |               |              |                 |              |
|  | Loss by fire             | 10,000        | 2.60         | 5,000           | 1.16         |
|  |                          | <b>74,000</b> | <b>19.27</b> | <b>87,000</b>   | <b>20.18</b> |
| Add:   | Non – operating Income:  |               |              |                 |              |
|  | Profit on sale of land   | 8,000         | 2.08         | 14,000          | 3.25         |
| <b>Earnings before interest and Tax</b>          |                          | <b>82,000</b> | <b>21.35</b> | <b>1,01,000</b> | <b>23.43</b> |
| Less:  | Interest paid            | 18,000        | 4.69         | 23,000          | 5.34         |
| <b>Earnings after taxation</b>                   |                          | <b>64,000</b> | <b>16.66</b> | <b>78,000</b>   | <b>18.09</b> |

**Illu.18 : Following are the income statements of a company for the year ending March 31, 2003, 2004 :**

|                             | 2003 (Rs. '000) | 2004 (Rs. '000) |
|-----------------------------|-----------------|-----------------|
| <b>Sales</b>                | <b>500</b>      | <b>700</b>      |
| <b>Miscellaneous income</b> | <b>20</b>       | <b>15</b>       |
|                             | <b>520</b>      | <b>715</b>      |
| <b>Expenses :</b>           |                 |                 |
| <b>Cost of sales</b>        | <b>325</b>      | <b>510</b>      |
| <b>Office expenses</b>      | <b>20</b>       | <b>25</b>       |
| <b>Selling expenses</b>     | <b>30</b>       | <b>45</b>       |
| <b>Interest</b>             | <b>25</b>       | <b>30</b>       |
|                             | <b>400</b>      | <b>610</b>      |
| <b>Net Profit</b>           | <b>120</b>      | <b>105</b>      |
|                             | <b>520</b>      | <b>715</b>      |

**Prepare common size income statement and analyse the results.**

**Solution :**

**Common size income statement  
for the year ended 31<sup>st</sup> December 2003 and 2004**

| Particulars                        | 2003            |              | 2004            |              |
|------------------------------------|-----------------|--------------|-----------------|--------------|
|                                    | Rs.             | %            | Rs.             | %            |
| <b>Sales</b>                       | 5,00,000        | 100.00       | 7,00,000        | 100.00       |
| <b>Less: Cost of Sales</b>         | 3,25,000        | 65.00        | 5,10,000        | 72.86        |
| Gross Profit (A)                   | <b>1,75,000</b> | <b>35.00</b> | <b>1,90,000</b> | <b>27.14</b> |
| <b>Operating expenses :</b>        |                 |              |                 |              |
| Office expenses                    | 20,000          | 4.00         | 25,000          | 3.57         |
| Selling expenses                   | 30,000          | 6.00         | 45,000          | 6.43         |
| Total operating expenses (B)       | <b>50,000</b>   | <b>10.00</b> | <b>70,000</b>   | <b>10.00</b> |
| <b>Operating income :</b>          |                 |              |                 |              |
| Miscellaneous income               | 20,000          | 4.00         | 15,000          | 2.14         |
| Total operating income ©           | <b>20,000</b>   | <b>4.00</b>  | <b>15,000</b>   | <b>2.14</b>  |
| Operating profit (A – B + C) (D)   | <b>1,45,000</b> | <b>29.00</b> | <b>1,35,000</b> | <b>19.29</b> |
| Non-operating expenses             | -               | -            | -               | -            |
| Interest                           | 25,000          | 5.00         | 30,000          | 4.29         |
| Total Non-operating expenses (E)   | <b>25,000</b>   | <b>5.00</b>  | <b>30,000</b>   | <b>4.29</b>  |
| Profit before taxes (D – E) (F)    | <b>1,20,000</b> | <b>24.00</b> | <b>1,05,000</b> | <b>15.00</b> |
| Taxation provision @ 50% (assumed) | 60,000          | 12.00        | 52,500          | 7.50         |
| <b>Profit after taxes</b>          | <b>60,000</b>   | <b>12.00</b> | <b>52,500</b>   | <b>7.50</b>  |

**Comments :**

The common size income statement reveals the following.

The gross total of the company decline substantially from 35% during 2003 to 27% to during 2004. Due to the increase in the cost of sales. The operating profit of the company also declined from 29% to 19% during the same period. The profit before tax also decline and the PAT was 7.5% during 2004 as against 12% during 2003. Therefore the overall profitability of the

company is declining. There is an urgent need on the part of the company to increase its operational efficiency.

**Illu.19 : Following are the Balance Sheets of Ramu Ltd. for the year ended 31<sup>st</sup> December 2003 and 2004 :**

| Liabilities            | 2003 Rs. | 2004 Rs. |
|------------------------|----------|----------|
| Equity capital         | 1,00,000 | 1,65,000 |
| Preferential capital   | 50,000   | 75,000   |
| Reserves               | 10,000   | 15,000   |
| Profit and loss a/c    | 7,500    | 10,000   |
| Bank overdraft         | 25,000   | 25,000   |
| Creditors              | 20,000   | 25,000   |
| Provision for taxation | 10,000   | 12,500   |
| Proposed dividend      | 7,500    | 12,500   |
|                        | 2,30,000 | 3,40,000 |

| Assets             | 2003 Rs. | 2004 Rs. |
|--------------------|----------|----------|
| Fixed Assets (net) | 1,20,000 | 1,75,000 |
| Stock              | 20,000   | 25,000   |
| Debtors            | 50,000   | 62,500   |
| Bills receivable   | 10,000   | 30,000   |
| Prepaid expenses   | 5,000    | 6,000    |
| Cash at bank       | 20,000   | 26,500   |
| Cash in hand       | 5,000    | 15,000   |
|                    | 2,30,000 | 3,40,000 |

**Prepare a common –size balance sheet and interpret the same.**

**Solution :****Common – size Balance Sheet of Ramu Ltd.****as on 31<sup>st</sup> December, 2003 and 2004**

| Particulars                        | 2003            |               | 2004            |              |
|------------------------------------|-----------------|---------------|-----------------|--------------|
|                                    | Rs.             | %             | Rs.             | %            |
| <b>Assets :</b>                    |                 |               |                 |              |
| <b>Current Assets :</b>            |                 |               |                 |              |
| Stock                              | 20,000          | 8.7           | 25,000          | 7.4          |
| Debtors                            | 50,000          | 21.7          | 62,500          | 18.4         |
| Bills Receivable                   | 10,000          | 4.4           | 30,000          | 8.8          |
| Prepaid expenses                   | 5,000           | 2.2           | 6,000           | 1.8          |
| Bank                               | 20,000          | 8.7           | 26,500          | 7.8          |
| Cash                               | 5,000           | 2.2           | 15,000          | 4.4          |
| <b>Total current assets (A)</b>    | <b>1,10,000</b> | <b>47.8</b>   | <b>1,65,000</b> | <b>48.5</b>  |
| <b>Fixed Assets :</b>              |                 |               |                 |              |
| Net fixed assets                   | 1,20,000        | 52.2          | 1,75,000        | 51.5         |
| <b>Total Fixed Assets (B)</b>      | <b>1,20,000</b> | <b>52.2</b>   | <b>1,75,000</b> | <b>51.5</b>  |
| <b>Total Assets (A + B)</b>        | <b>2,30,000</b> | <b>100.00</b> | <b>3,40,000</b> | <b>100.0</b> |
| <b>Liabilities :</b>               |                 |               |                 |              |
| <b>Current Liabilities</b>         |                 |               |                 |              |
| Bank overdraft                     | 25,000          | 10.9          | 25,000          | 7.4          |
| Creditors                          | 20,000          | 8.7           | 25,000          | 7.4          |
| Provision for taxation             | 10,000          | 4.4           | 12,500          | 3.7          |
| Proposed dividend                  | 7,500           | 3.3           | 12,500          | 3.7          |
| <b>Total current liabilities ©</b> | <b>62,500</b>   | <b>27.2</b>   | <b>75,000</b>   | <b>22.1</b>  |
| <b>Share holder's funds :</b>      |                 |               |                 |              |
| Equity capital                     | 1,00,000        | 43.5          | 1,65,000        | 48.5         |
| Preference Capital                 | 50,000          | 21.8          | 75,000          | 22.1         |

|                                  |                 |              |                 |              |
|----------------------------------|-----------------|--------------|-----------------|--------------|
| Reserves                         | 10,000          | 4.4          | 15,000          | 4.4          |
| Profit and Loss a/c              | 7,500           | 3.6          | 10,000          | 2.9          |
| Total shareholders funds (D)     | <b>1,67,500</b> | <b>72.8</b>  | <b>2,65,000</b> | <b>77.9</b>  |
| <b>Total liabilities (C + D)</b> | <b>2,30,000</b> | <b>100.0</b> | <b>3,40,000</b> | <b>100.0</b> |

**Comment :**

The analysis of common size balance sheet of Ramu Ltd. reveals the following.

1. The current assets of the company increase marginally from 47.8% during 2003 to 48.5% during 2004. Within current assets there is increase in bills receivables and cash. On the other hand, there was decline in stock, debtors and prepaid expenses.
2. The net fixed assets of the company decline slightly 52.2% to 51.5% during 2004 over the year 2003.
3. While coming to the liabilities the current liabilities of the company declined substantially 27.2% during 2004 to 22.1% during 2003. The shareholders funds on the other hand, increased from 43.5% to 48.5% during the same period.
4. The financial position of the company on the whole is satisfactory.

**Illu.20 : The following are the Balance Sheet of Gayatri & Co. for the year 2003 and 2004:**

| <i>Liabilities</i>                 | <i>2003</i>     | <i>2004</i>     | <i>Assets</i>    | <i>2003</i>     | <i>2004</i>     |
|------------------------------------|-----------------|-----------------|------------------|-----------------|-----------------|
|                                    | <i>Rs.</i>      | <i>Rs.</i>      |                  | <i>Rs.</i>      | <i>Rs.</i>      |
| <b>Bills payable</b>               | <b>25,000</b>   | <b>38,000</b>   | <b>Bank a/c</b>  | <b>50,000</b>   | <b>70,000</b>   |
| <b>Creditors</b>                   | <b>75,000</b>   | <b>1,00,000</b> | <b>Debtors</b>   | <b>1,00,000</b> | <b>1,50,000</b> |
| <b>Outstanding Taxes</b>           | <b>50,000</b>   | <b>75,000</b>   | <b>Stock</b>     | <b>1,00,000</b> | <b>1,50,000</b> |
| <b>6% Debentures</b>               | <b>50,000</b>   | <b>75,000</b>   | <b>Land</b>      | <b>50,000</b>   | <b>50,000</b>   |
| <b>6% Preference share capital</b> | <b>1,50,000</b> | <b>1,50,000</b> | <b>Buildings</b> | <b>1,50,000</b> | <b>1,35,000</b> |
| <b>Equity share capital</b>        | <b>2,00,000</b> | <b>2,00,000</b> | <b>Machinery</b> | <b>1,50,000</b> | <b>1,35,000</b> |

|                |                 |                 |                  |                 |                 |
|----------------|-----------------|-----------------|------------------|-----------------|-----------------|
| <b>Reserve</b> | <b>1,00,000</b> | <b>1,22,000</b> | <b>Furniture</b> | <b>50,000</b>   | <b>70,000</b>   |
|                | <b>6,50,000</b> | <b>7,60,000</b> |                  | <b>6,50,000</b> | <b>7,60,000</b> |

From the above information's, prepare common size Balance Sheet.

**Solution :**

**Common Size Balance Sheet of Gayathri Co.  
For the year 2003 & 2004**

| Particulars                          | 2003            |               | 2004            |               |
|--------------------------------------|-----------------|---------------|-----------------|---------------|
|                                      | Amount          | %             | Amount          | %             |
| <b>Assets:</b>                       |                 |               |                 |               |
| <b>Current Assets:</b>               |                 |               |                 |               |
| Bank                                 | 50,000          | 7.69          | 70,000          | 9.21          |
| Debtors                              | 1,00,000        | 15.38         | 1,50,000        | 19.74         |
| Stock                                | 1,00,000        | 15.39         | 1,50,000        | 19.74         |
| <b>Total Current Assets (1)</b>      | <b>2,50,000</b> | <b>38.46</b>  | <b>3,70,000</b> | <b>48.69</b>  |
| <b>Fixed Assets:</b>                 |                 |               |                 |               |
| Land                                 | 50,000          | 7.69          | 50,000          | 6.58          |
| Buildings                            | 1,50,000        | 23.08         | 1,35,000        | 17.76         |
| Machinery                            | 1,50,000        | 23.08         | 1,35,000        | 17.76         |
| Furniture's                          | 50,000          | 7.69          | 70,000          | 9.21          |
| <b>Total Fixed Assets (2)</b>        | <b>4,00,000</b> | <b>61.54</b>  | <b>3,90,000</b> | <b>51.31</b>  |
| <b>Total Assets (1 +2)</b>           | <b>6,50,000</b> | <b>100.00</b> | <b>7,60,000</b> | <b>100.00</b> |
| <b>Liabilities:</b>                  |                 |               |                 |               |
| <b>Current Liabilities:</b>          |                 |               |                 |               |
| Bills payable                        | 25,000          | 3.85          | 38,000          | 5.00          |
| Creditors:                           | 75,000          | 11.54         | 1,00,000        | 13.16         |
| Outstanding taxes                    | 50,000          | 7.69          | 75,000          | 9.87          |
| <b>Total Current Liabilities (1)</b> | <b>1,50,000</b> | <b>23.08</b>  | <b>2,13,000</b> | <b>28.03</b>  |
| <b>Long term debts:</b>              |                 |               |                 |               |

|                                     |                 |               |                 |               |
|-------------------------------------|-----------------|---------------|-----------------|---------------|
| 6% Debentures                       | 50,000          | 7.69          | 75,000          | 9.87          |
| <b>Total long term debts (2)</b>    | <b>50,000</b>   | <b>7.69</b>   | <b>75,000</b>   | <b>9.87</b>   |
| <b>Shareholder's funds:</b>         |                 |               |                 |               |
| 6% Preference share capital         | 1,50,000        | 23.08         | 1,50,000        | 19.74         |
| Equity Share Capital                | 2,00,000        | 30.77         | 2,00,000        | 26.31         |
| Reserve                             | 1,00,000        | 15.38         | 1,22,000        | 16.05         |
| <b>Total shareholder's fund (3)</b> | <b>4,50,000</b> | <b>69.23</b>  | <b>4,72,000</b> | <b>62.10</b>  |
| <b>Total Liabilities (1+2+3)</b>    | <b>6,50,000</b> | <b>100.00</b> | <b>7,60,000</b> | <b>100.00</b> |

**Comment:** Overall financial position of the company in 2004 is satisfactory as there is slight raise in current assets with slight fall in fixed assets and slight rise in current liabilities as well as shareholder funds.

**Illu.21 :** The Balance Sheets of M Company and N Company as on 31-3-2004 are given below. Prepare common size Balance Sheet and compare the financial position of the companies.

**Balance Sheet as on 31-3-04**

| <i>Liabilities</i>          | <i>M Com.</i>   | <i>N Com</i>    | <i>Assets</i>           | <i>M Com</i>    | <i>N Com</i>    |
|-----------------------------|-----------------|-----------------|-------------------------|-----------------|-----------------|
|                             | <i>Rs.</i>      | <i>Rs.</i>      |                         | <i>Rs.</i>      | <i>Rs.</i>      |
| <b>Pref. Share capital</b>  | <b>1,20,000</b> | <b>1,60,000</b> | <b>Buildings</b>        | <b>80,000</b>   | <b>1,23,000</b> |
| <b>Equity share capital</b> | <b>1,50,000</b> | <b>4,00,000</b> | <b>Machinery</b>        | <b>2,34,000</b> | <b>6,00,000</b> |
| <b>Reserve fund</b>         | <b>14,000</b>   | <b>18,000</b>   | <b>Short-term</b>       |                 |                 |
| <b>Debentures</b>           | <b>1,50,000</b> | <b>1,30,000</b> | <b>Investments</b>      | <b>1,000</b>    | <b>40,000</b>   |
| <b>Bills payable</b>        | <b>2,000</b>    | <b>NIL</b>      | <b>Stock</b>            | <b>10,000</b>   | <b>25,000</b>   |
| <b>Creditors</b>            | <b>12,000</b>   | <b>4,000</b>    | <b>Debtors</b>          | <b>4,000</b>    | <b>8,000</b>    |
| <b>Outstanding expenses</b> | <b>15,000</b>   | <b>6,000</b>    | <b>Prepaid expenses</b> | <b>1,000</b>    | <b>2,000</b>    |
| <b>Proposed</b>             | <b>10,000</b>   | <b>90,000</b>   | <b>Cash &amp; Bank</b>  | <b>8,000</b>    | <b>10,000</b>   |

|                  |                 |                 |  |                 |                 |
|------------------|-----------------|-----------------|--|-----------------|-----------------|
| <b>dividends</b> |                 |                 |  |                 |                 |
|                  | <b>4,38,000</b> | <b>8,08,000</b> |  | <b>4,38,000</b> | <b>8,08,000</b> |

**Solution :****Common size Balance Sheet as on 31-3-04**

| <i>Particulars</i>            | <i>M Company</i>      |                   | <i>N Company</i>      |                   |
|-------------------------------|-----------------------|-------------------|-----------------------|-------------------|
|                               | <i>Amount<br/>Rs.</i> | <i>Percentage</i> | <i>Amount<br/>Rs.</i> | <i>Percentage</i> |
| <b>Assets side:</b>           |                       |                   |                       |                   |
| <b>Current Assets:</b>        |                       |                   |                       |                   |
| Short term investments        | 1,000                 | 0.23%             | 40,000                | 4.95%             |
| Stock                         | 10,000                | 2.28%             | 25,000                | 3.09%             |
| Debtors                       | 4,000                 | 0.91%             | 8,000                 | 0.99%             |
| Prepaid expenses              | 1,000                 | 0.23%             | 2,000                 | 0.25%             |
| Cash & Bank                   | 8,000                 | 1.83%             | 10,000                | 1.24%             |
| Total Current Assets (A)      | 24,000                | 5.48%             | 85,000                | 10.52%            |
| <b>Fixed Assets:</b>          |                       |                   |                       |                   |
| Buildings                     | 80,000                | 18.26%            | 1,23,000              | 15.22%            |
| Machinery                     | 3,34,000              | 76.26%            | 6,00,000              | 74.26%            |
| Total Fixed Assets (B)        | 4,14,000              | 94.52%            | 7,23,000              | 89.48%            |
| Total Assets (A) + (B)        | 4,38,000              | 100%              | 8,08,000              | 100%              |
| <b>Liabilities side:</b>      |                       |                   |                       |                   |
| <b>Current Liabilities:</b>   |                       |                   |                       |                   |
| Bills payable                 | 2,000                 | 0.46%             | NIL                   | NIL               |
| Creditors                     | 12,000                | 2.74%             | 4,000                 | 0.50%             |
| Outstanding expenses          | 15,000                | 3.42%             | 6,000                 | 0.74%             |
| Proposed dividends            | 10,000                | 2.26%             | 90,000                | 11.14%            |
| Total Current liabilities (c) | 39,000                | 8.90%             | 1,00,000              | 12.38%            |



|                                  |          |        |          |        |
|----------------------------------|----------|--------|----------|--------|
| <b>Long term liabilities:</b>    |          |        |          |        |
| Debentures                       | 1,15,000 | 26.26% | 1,30,000 | 16.09% |
| Total long term liabilities (D): | 1,15,000 | 26.26% | 1,30,000 | 16.09% |
| <b>Capital &amp; Reserves:</b>   |          |        |          |        |
| Preference share capital         | 1,20,000 | 27.40% | 1,60,000 | 19.80% |
| Equity share capital             | 1,50,000 | 34.24% | 4,00,000 | 48.50% |
| Reserve fund                     | 14,000   | 3.20%  | 18,000   | 2.23%  |
| Total Capital & Reserves (E)     | 2,84,000 | 64.84% | 5,78,000 | 71.53% |
| Total liabilities (C)+(D)+(E)    | 4,38,000 | 100%   | 8,08,000 | 100%   |

**Illu.21 :** The following are the Balance Sheet of Gayathri & Co. for the year 2003 and 2004.

| Liabilities                 | 2003 Rs. | 2004 Rs. | Assets    | 2003 Rs. | 2004 Rs. |
|-----------------------------|----------|----------|-----------|----------|----------|
| Bills payable               | 25,000   | 38,000   | Bank      | 50,000   | 70,000   |
| Creditors                   | 75,000   | 1,00,000 | Debtors   | 1,00,000 | 1,50,000 |
| Outstanding taxes           | 50,000   | 75,000   | Stock     | 1,00,000 | 1,50,000 |
| 6% Debentures               | 50,000   | 75,000   | Land      | 50,000   | 50,000   |
| 6% preference share capital | 1,50,000 | 1,50,000 | Buildings | 1,50,000 | 1,35,000 |
| Equity share capital        | 2,00,000 | 2,00,000 | Machinery | 1,50,000 | 1,35,000 |
| Reserves                    | 1,00,000 | 1,22,000 | Furniture | 50,000   | 70,000   |
|                             | 6,50,000 | 7,60,000 |           | 6,50,000 | 7,60,000 |

From the above information, Prepare common size Balance Sheet.

**Solution :**

Common size Balance Sheet of Garyatri & Co. as at 31<sup>st</sup> December 2003 and 2004

| Particulars                   | 2003            |               | 2004            |               |
|-------------------------------|-----------------|---------------|-----------------|---------------|
|                               | Amount<br>Rs.   | %             | Amount<br>Rs.   | %             |
| <b>Assets :</b>               |                 |               |                 |               |
| Current Assets :              |                 |               |                 |               |
| Bank                          | 50,000          | 7.69          | 70,000          | 9.21          |
| Debtors                       | 1,00,000        | 15.38         | 1,50,000        | 19.74         |
| Stock                         | 1,00,000        | 15.39         | 1,50,000        | 19.74         |
| Total current assets (1)      | <b>2,50,000</b> | <b>38.46</b>  | <b>3,70,000</b> | <b>48.69</b>  |
| <b>Fixed Assets :</b>         |                 |               |                 |               |
| Land                          | 50,000          | 7.69          | 50,000          | 6.58          |
| Buildings                     | 1,50,000        | 23.08         | 1,35,000        | 17.76         |
| Machinery                     | 1,50,000        | 23.08         | 1,35,000        | 17.76         |
| Furniture                     | 50,000          | 7.69          | 70,000          | 9.21          |
| Total fixed assets (2)        | <b>4,00,000</b> | <b>61.54</b>  | <b>3,90,000</b> | <b>51.31</b>  |
| Total Assets (1 + 2)          | <b>6,50,000</b> | <b>100.00</b> | <b>7,60,000</b> | <b>100.00</b> |
| <b>Liabilities :</b>          |                 |               |                 |               |
| Current Liabilities :         |                 |               |                 |               |
| Bills payable                 | 25,000          | 3.85          | 38,000          | 5.00          |
| Creditors                     | 75,000          | 11.54         | 1,00,000        | 13.16         |
| Outstanding taxes             | 50,000          | 7.69          | 75,000          | 9.87          |
| Total Current liabilities (3) | <b>1,50,000</b> | <b>23.08</b>  | <b>2,13,000</b> | <b>28.03</b>  |
| Long-term debts :             |                 |               |                 |               |
| 6% Debentures                 | 50,000          | 7.69          | 75,000          | 9.87          |
| Total Long-term debts (4)     | <b>50,000</b>   | <b>7.69</b>   | <b>75,000</b>   | <b>9.87</b>   |
| Shareholder's funds           |                 |               |                 |               |
| 6% Preference share capital   | 1,50,000        | 23.08         | 1,50,000        | 19.74         |
| Equity share capital          | 2,00,000        | 30.77         | 2,00,000        | 26.31         |
| Reserve                       | 1,00,000        | 15.38         | 1,22,000        | 16.05         |
| Total shareholder's funds (5) | <b>4,50,000</b> | <b>69.23</b>  | <b>4,72,000</b> | <b>62.10</b>  |
| Total Liabilities (3 + 4 + 5) | <b>6,50,000</b> | <b>100.00</b> | <b>7,60,000</b> | <b>100.00</b> |

**Interpretation of results :**

The common size balance sheet of Gayatri & co. reveals that the current assets of the company increased substantially from 38.5% during 2003 to 48.7% during 2004. In current assets the debtors and stock increased substantially, while bank balances though increase, the increase was marginal.

The fixed assets of the company declined from 61.5% to 51.3% during the same period. In fixed the fall was substantial in buildings and machinery followed by land. However, there was a slight increase in furniture during the same period.

The current liabilities of the company increased during 2004 over the year 2003. In the same way there was increase in the long term debts also. On the other hand, the shareholders funds of the company declined during the same period.

The company therefore, should be cautious in the management of its financial resources. Even though the present position is satisfactory.

**Illu.22 : The following are the balance sheets of Surya Ltd. And Aditya Ltd. As on 31-12-2005:**

| Liabilities                 | Surya<br>Ltd. Rs. | Aditya<br>Ltd. Rs. | Assets                   | Surya<br>Ltd. Rs. | Aditya<br>Ltd. Rs. |
|-----------------------------|-------------------|--------------------|--------------------------|-------------------|--------------------|
| Equity share capital        | 3,75,000          | 2,55,000           | Land & Buildings         | 5,25,000          | 4,12,500           |
| Preference share<br>Capital | 1,80,000          | 1,20,000           | Plant and<br>Machinery   | 4,05,000          | 4,50,000           |
| Reserves and<br>surplus     | 75,000            | 1,05,000           | Temporary<br>Investment  | 1,08,000          | 18,000             |
| Loans                       | 5,25,000          | 4,18,500           | Book debt                | 71,250            | 37,500             |
| Bills payable               | 37,500            | 21,000             | Prepaid expenses         | 53,100            | -                  |
| Sundry creditors            | 27,000            | 12,000             | Cash and Bank<br>balance | 73,035            | 31,500             |
| Outstanding<br>Expense      | 12,885            | 6,750              |                          |                   |                    |
| Unclaimed dividend          | 3,000             | 11,250             |                          |                   |                    |
|                             | 12,35,385         | 9,49,500           |                          | 12,35,385         | 9,49,500           |

Present the data in common –size form and make comments.

**Solution :**

**The Comparative Common-size Balance Sheet of Surya Ltd. and Aditya Ltd.  
as on 31-12-2005**

| Particulars                          | Surya Ltd.       |               | Aditya Ltd.     |               |
|--------------------------------------|------------------|---------------|-----------------|---------------|
|                                      | Amount<br>Rs.    | %             | Amount<br>Rs.   | %             |
| <b>Assets :</b>                      |                  |               |                 |               |
| Current Assets :                     |                  |               |                 |               |
| Temporary investments                | 1,08,000         | 8.74          | 18,000          | 1.90          |
| Book debts                           | 71,250           | 5.77          | 37,500          | 3.95          |
| Prepaid expenses                     | 53,100           | 4.30          | -               | -             |
| Cash & Bank                          | 73,035           | 5.91          | 31,500          | 3.32          |
| <b>Total current assets (1)</b>      | <b>3,05,385</b>  | <b>24.72</b>  | <b>87,000</b>   | <b>9.17</b>   |
| <b>Fixed Assets :</b>                |                  |               |                 |               |
| Land & Buildings                     | 5,25,000         | 42.50         | 4,12,500        | 43.44         |
| Plant and Machinery                  | 4,05,000         | 32.78         | 4,50,000        | 47.39         |
| <b>Total fixed assets (2)</b>        | <b>9,30,000</b>  | <b>75.28</b>  | <b>8,62,500</b> | <b>90.83</b>  |
| <b>Total Assets (1 + 2)</b>          | <b>12,35,385</b> | <b>100.00</b> | <b>9,49,500</b> | <b>100.00</b> |
| <b>Liabilities :</b>                 |                  |               |                 |               |
| Current Liabilities :                |                  |               |                 |               |
| Bills payable                        | 37,500           | 3.04          | 21,000          | 2.22          |
| Sundry Creditors                     | 27,000           | 2.19          | 12,000          | 1.26          |
| Outstanding expenses                 | 12,885           | 1.04          | 6,750           | 1.18          |
| Unclaimed dividend                   | 3,000            | 0.24          | 11,250          | 1.18          |
| <b>Total Current liabilities (3)</b> | <b>80,385</b>    | <b>6.51</b>   | <b>51,000</b>   | <b>5.37</b>   |
| Long-term loans :                    |                  |               |                 |               |
| Loans                                | 5,25,000         | 42.50         | 4,18,500        | 44.08         |
| <b>Total Long-term loans (4)</b>     | <b>5,25,000</b>  | <b>42.50</b>  | <b>4,18,500</b> | <b>44.08</b>  |
| Shareholder's funds:                 |                  |               |                 |               |
| Equity capital                       | 3,75,000         | 30.35         | 2,55,000        | 26.86         |

|                                |                  |               |                 |               |
|--------------------------------|------------------|---------------|-----------------|---------------|
| Preference capital             | 1,80,000         | 14.57         | 1,20,000        | 12.64         |
| Reserves & Surplus             | 75,000           | 6.07          | 1,05,000        | 11.05         |
| (3) Total shareholder's funds: | <b>6,30,000</b>  | <b>50.99</b>  | <b>4,80,000</b> | <b>50.55</b>  |
| Total Liabilities (1 + 2 + 3)  | <b>12,35,385</b> | <b>100.00</b> | <b>9,49,500</b> | <b>100.00</b> |

**Comment :**

The comparative common size balance sheet of Surya Ltd. and Aditya Ltd. reveal the following.

1. The Surya Ltd. maintained 24.7% in current assets. On the other hand, the Aditya Ltd. 9.2% of its total resources in current assets.
2. The Surya Ltd. invested less in fixed assets and more in current assets and the opposite is the direction in case of Aditya Ltd.

Both the companies are maintaining almost the same level of current liabilities and long term loans. However, the Surya Ltd. is depending more on equity capital while the Aditya Ltd. depends is more on reserves.

**16.8.3 Trend Analysis :**

Trend analysis depicts behaviour of the ratios over a period of time and the trends in the operation of the enterprise. The trend figures are index figures giving a bird's eye view of the comparative data by presenting it over a period of time. This is horizontal analysis of financial statement, often called as Pyramid Method of ratio analysis 0- a guide to yearly changes. Under this form of analysis, generally financial ratios are studied for a specified number of years. It is a dynamic analysis depicting the changes over a stated period. Their method of analysis is one of 'direction'. The working of trend analysis involves the following three steps.

1. selection of a base year
2. Assignment of an index number of 100 to each item of the base year
3. Calculation of percentage relationship that each item bears to the same item in the base year.

**Objectives of Trend Analysis :**

It is of great significance in making comparative study of financial statements for several years. It shows the direction of movement over a period of time. The following are the objectives of Trend analysis.

- (i) To draw a comparative chart and make a comprehensive study of Financial statements.
- (ii) Trend analysis indicates the direction of movement or changes in item over a long period of time.
- (iii) To have a better view of things unaffected by short term fluctuations, by studying a long term trend percentage analysis.

**Limitations of Trend Analysis :**

This tool has its own limitations. It is necessary that the base year must be a normal year. Further, it places all items at par in the base year with the result that a variation in the least significant item may receive an emphasis out of all proportion to its importance.

**Illu.23 : From the following particulars, compute trend percentages:**

|                                 | Year      |           |           |           |
|---------------------------------|-----------|-----------|-----------|-----------|
|                                 | 2000      | 2001      | 2002      | 2003      |
| <b>Equity share capital</b>     | <b>10</b> | <b>12</b> | <b>14</b> | <b>16</b> |
| <b>Preference share capital</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> |
| <b>Reserves</b>                 | <b>05</b> | <b>08</b> | <b>05</b> | <b>10</b> |
| <b>Creditors</b>                | <b>03</b> | <b>05</b> | <b>13</b> | <b>12</b> |

**Solution :**

| Liabilities          | Trend percentage |      |      |      | Rs. In lakhs (Base Year 2000) |      |      |      |
|----------------------|------------------|------|------|------|-------------------------------|------|------|------|
|                      | 2000             | 2001 | 2002 | 2003 | 2000                          | 2001 | 2002 | 2003 |
|                      | Rs.              | Rs.  | Rs.  | Rs.  | %                             | %    | %    | %    |
| Equity share capital | 10               | 12   | 14   | 16   | 100                           | 100  | 140  | 160  |
| Pref. Share capital  | 10               | 10   | 10   | 10   | 100                           | 100  | 100  | 100  |

|              |           |           |           |           |            |            |            |            |
|--------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|
| Reserves     | 05        | 08        | 05        | 10        | 100        | 160        | 100        | 200        |
| Creditors    | 03        | 05        | 13        | 12        | 100        | 167        | 433        | 400        |
| <b>Total</b> | <b>28</b> | <b>35</b> | <b>42</b> | <b>48</b> | <b>100</b> | <b>125</b> | <b>150</b> | <b>171</b> |

**Illu.24 :** From the following data, prepare a statement showing trend percentages.

|                           | 2000          | 2001         | 2002          | 2003          |
|---------------------------|---------------|--------------|---------------|---------------|
|                           | Rs.           | Rs.          | Rs.           | Rs.           |
| <b>Sales</b>              | <b>10,000</b> | <b>9,500</b> | <b>12,000</b> | <b>13,000</b> |
| <b>Cost of goods sold</b> | <b>6,000</b>  | <b>5,890</b> | <b>6,960</b>  | <b>7,280</b>  |
| <b>Gross Profit</b>       | <b>4,000</b>  | <b>3,610</b> | <b>5,040</b>  | <b>5,720</b>  |

**Solution :**

#### Trend Ratios

|                        | 2000         | 2001         | 2002         | 2003         | 2000       | 2001         | 2002         | 2003         |
|------------------------|--------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|
|                        | Rs.          | Rs.          | Rs.          | Rs.          | %          | %            | %            | %            |
| Sales                  | 10,000       | 9,500        | 12,000       | 13,000       | 100        | 95.0         | 120.0        | 130.0        |
| (-) Cost of goods sold | 6,000        | 5,890        | 6,960        | 7,280        | 100        | 98.16        | 116.0        | 121.33       |
| <b>Gross profit</b>    | <b>4,000</b> | <b>3,610</b> | <b>5,040</b> | <b>5,720</b> | <b>100</b> | <b>90.25</b> | <b>126.0</b> | <b>143.0</b> |

### 16.9 QUESTIONS :

1. Define Financial Statement.
2. What are the objectives of financial statements?
3. What are the different methods used in financial statements?
4. State the objectives and limitations of Financial statement analysis.
5. What are financial statements? Explain various methods of financial statement analysis.
6. Write short notes on Comparative Financial Statements.

7. What do you understand by `Common size Statements
8. What are trend ratios? How are they computed?

### 16.10 EXERCISES :

1. Prepare the comparative Income statement from the following:

#### Income Statement

| <i>Particulars</i>      | <i>1998<br/>Rs.</i> | <i>1999<br/>Rs.</i> | <i>Particulars</i> | <i>1998<br/>Rs.</i> | <i>1999 Rs.</i> |
|-------------------------|---------------------|---------------------|--------------------|---------------------|-----------------|
| To Cost of goods sold   | 1,00,000            | 1,00,000            | By Sales           | 2,50,000            | 3,00,000        |
| To Operational expenses | 75,000              | 1,10,000            |                    |                     |                 |
| To Interest             | 25,000              | 20,000              |                    |                     |                 |
| To Tax                  | 25,000              | 30,000              |                    |                     |                 |
| To Net Profit           | 25,000              | 40,000              |                    |                     |                 |
|                         | <b>2,50,000</b>     | <b>3,00,000</b>     |                    | <b>2,50,000</b>     | <b>3,00,000</b> |

2. From the 31-3- 1998 and 31-3-1999 following information of 'A' Ltd., Prepare Comparative Balance Sheet and write the interpretation:

|                    | <i>(Rs. '000)</i> |             |
|--------------------|-------------------|-------------|
|                    | <i>1998</i>       | <i>1999</i> |
| <b>Liabilities</b> |                   |             |
| Share Capital      | 2,400             | 3,600       |
| Reserves           | 1,872             | 2,124       |
| Debentures         | 300               | 600         |
| Long-term debt     | 900               | 1,530       |
| Bills payable      | 1,530             | 702         |
| Other liabilities  | 42                | 60          |



|                        | 7,044             | 8,616       |
|------------------------|-------------------|-------------|
|                        | <i>(Rs. '000)</i> |             |
| <b>Assets</b>          | <b>1998</b>       | <b>1999</b> |
| Land and Buildings     | 1,620             | 1,040       |
| Plant                  | 1,860             | 4,716       |
| Furniture              | 54                | 108         |
| Other fixed Assets     | 120               | 180         |
| Long –term Investments | 276               | 354         |
| Bank                   | 708               | 60          |
| Bills receivable       | 1254              | 1120        |
| Stock                  | 960               | 780         |
| Prepaid expenses       | 18                | 18          |
| Other current assets   | 174               | 2240        |
|                        | 7,044             | 8,616       |

- A firm has a profit before interest and taxes of Rs.5, 00,000, interest charges Rs.1,00,000 and taxes Rs.50, 000. Calculate earnings after taxes.
- The Balance Sheet of Hero Co. and Villan Co. compare the financial position of the companies by means of common size Balance Sheet.

| <b>Liabilities</b>         | <b>Hero Co. Rs.</b> | <b>Villain Co. Rs.</b> |
|----------------------------|---------------------|------------------------|
| Preferential share Capital | 1,00,000            | 1,50,000               |
| Equity share Capital       | 1,70,000            | 5,10,000               |
| Reserve fund               | 10,000              | 8,000                  |
| P & L a/c                  | 4,000               | 10,000                 |
| Debentures                 | 1,00,000            | 1,00,000               |
| Bills payable              | 17,000              | 30,000                 |
| Creditors                  | 27,000              | 10,000                 |

|                     |                 |                 |
|---------------------|-----------------|-----------------|
| Provision for taxes | 20,000          | 1,10,000        |
|                     | <b>4,48,000</b> | <b>9,28,000</b> |

| <b>Assets</b> | <b>Hero Co. Rs.</b> | <b>Villain Co. Rs.</b> |
|---------------|---------------------|------------------------|
| Buildings     | 75,000              | 1,00,000               |
| Machinery     | 2,25,000            | 4,00,000               |
| Furniture     | 5,000               | 23,000                 |
| Motor car     | 1,00,000            | 2,00,000               |
| Inventory     | 11,000              | 65,000                 |
| Debtors       | 5,000               | 10,000                 |
| Cash at Bank  | 26,150              | 1,28,800               |
| Cash in hand  | 850                 | 1,200                  |
|               | <b>4,48,000</b>     | <b>9,28,000</b>        |

5. Prepare a common size statement from the following balance sheet.

| <b>Liabilities</b> | <b>1999</b>  | <b>2000</b>  | <b>Assets</b> | <b>1999</b>  | <b>2000</b>  |
|--------------------|--------------|--------------|---------------|--------------|--------------|
| Capital            | 1,000        | 1,200        | Debtors       | 450          | 390          |
| Capital reserve    | 90           | 185          | Cash          | 200          | 15           |
| General reserve    | 500          | 450          | Stock         | 320          | 250          |
| Sinking fund       | 90           | 100          | Investments   | 300          | 250          |
| Debentures         | 450          | 650          | Buildings     | 800          | 1,400        |
| Creditors          | 200          | 150          | Land          | 198          | 345          |
| Other liabilities  | 15           | 20           | Furniture     | 77           | 105          |
|                    | <b>2,345</b> | <b>2,755</b> |               | <b>2,345</b> | <b>2,755</b> |

6. From the following prepare a comparative statement:

|                       | <b>31-3-01</b>  | <b>31-3-02</b>  |          | <b>31-3-01</b>  | <b>31-3-02</b>  |
|-----------------------|-----------------|-----------------|----------|-----------------|-----------------|
|                       | <b>Rs.</b>      | <b>Rs.</b>      |          | <b>Rs.</b>      | <b>Rs.</b>      |
| To cost of goods sold | 1,00,000        | 1,20,000        | By Sales | 2,00,000        | 2,50,000        |
| To Office expenses    | 20,000          | 20,000          |          |                 |                 |
| To Selling expenses   | 10,000          | 20,000          |          |                 |                 |
| To Other expenses     | 30,000          | -               |          |                 |                 |
| To Net Profit         | 40,000          | 90,000          |          |                 |                 |
|                       | <b>2,00,000</b> | <b>2,50,000</b> |          | <b>2,00,000</b> | <b>2,50,000</b> |

7. From the following particulars compute trend percentages:

|                      | <b>2000</b> | <b>2001</b> | <b>2002</b> | <b>2003</b> |
|----------------------|-------------|-------------|-------------|-------------|
| Cash                 | 20          | 24          | 16          | 28          |
| Debtors              | 40          | 50          | 65          | 80          |
| Stock                | 60          | 80          | 70          | 100         |
| Other Current Assets | 10          | 15          | 25          | 30          |

## 16.11 SUGGESTED READINGS

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## Chapter – 17

# Funds Flow Analysis

### Objectives :

**After reading this unit we should be able to :**

- Understand the meaning of funds flow statement
- Know how to prepare the funds flow statement
- Prepare the statement of changes in working capital

### Structure :

**17.1 Introduction**

**17.2 Meaning of Funds Flow Statement**

**17.3 Preparation of Funds Flow Statement**

**17.4 Statement of Changes in Working capital**

**17.5 Questions**

**17.6 Exercises**

**17.7 Suggested Readings**

### 17.1 INTRODUCTION :

A funds flow statement is a valuable aid to financial manager or a creditor in evaluating the uses of funds by a firm and in determining how these funds are financed. Such a statement provides an efficient method for the financial Manager to assess the growth of the firm and its resulting financial needs and to determine the best way to finance those needs. In nut-shell, funds statements are very useful in planning, intermediate and long-term financing. It is an important tool of working capital analysis also.

## 17.2 MEANING OF FUNDS FLOW STATEMENT :

The funds flow statement is an attempt to report the flow of funds between various assets and liabilities and owner's capital during an accounting period. In the words of Smith and Brown, "Funds flow statement is prepared to indicate in summary form, changes (and trends if prepared regularly) occurring in items of financial position between two different balance sheet dates. Such a statement is prepared to indicate the increases and utilisation of resources of a business during an accounting period. A funds flow statement is also known by various other names such as 'Statement of Sources and Application of Funds,' 'Where Gone statement,' 'Statement of Funds Generated and Expended' etc.

The funds statement is a method by which we study the net funds flow between two points in time. These points conform to beginning and ending financial statements, dates for whatever period of examination is relevant – quarter or a year. Here, the term funds denotes the 'working capital'. Working capital is often regarded as the differences of current assets and current liabilities. Hence, the term 'funds' and working capital, both are synonymous.

### 17.2.1 Meaning of Funds :

The term funds has been defined in a number of ways. Some interpret funds as cash only and fund flow statement prepared on this basis is called a cash flow statement. IN this type of statement only inflow and outflow of cash is taken into account. For its preparation the net income is adjusted for the amount of the increase or decrease in accounts receivable, accounts payable, inventories, accrued revenue and expenses, etc., This type of statement is prepared specially for the use of management in predicting future cash requirements.

On the other hand, in a funds flow statement, a broader approach is adopted interpreting the term, 'funds'. It is conceived as all financial resources and it extends the concept to include all the current assets of financial resources. The narrower definition of fund, such as cash flow often leads to the omission of such items which do not directly affect cash or working capital. But in a broader sense, the assets of a firm represent the net uses of funds and its liabilities and net worth represents net resources. Thus, the term funds flow refers to changes in working capital. Changes in working capital position of a business units are significant considerations in the analysis of operating results and financial condition. The sources of working capital, the disposition of working

capital and the composition of the working capital at the end of the period, are all important factors in evaluating past activities and in judging a company's ability to prosper in the future. A funds flow statement helps a lot in such appraisal.

In view of this definition of 'funds' it becomes necessary to understand the terms of 'current assets', 'current liabilities,' non current assets' non current liabilities.

**Current Assets :** For accounting purposes, the term current assets means cash and such other assets which are reasonably expected to be realised in cash or sold or consumed during the normal operating cycle of the business. Thus, the term current assets includes the following.

1. Cash and bank balances
2. Accounts receivable i.e., debtors and bills receivable
3. Stocks of raw material, work in progress and finished goods
4. Temporary investments or short term investments
5. Prepayment, e.g., prepaid rent, unexpired insurance etc.
6. Accrued incomes

**Current Liabilities :** The term current liabilities includes all such obligations which are likely to mature within one year in the normal course of business operations and which are paid out of current assets or by creating current liabilities. The broad categories of current liabilities are :

1. Accounts payable, i.e., creditors and bills payables
2. Outstanding expenses, e.g., wages, rent, commission etc.
3. Bank overdrafts
4. Income received in advance
5. Dividend payable
6. Provision for doubtful debts
7. Provision for taxation – may be current or non current
8. Proposed dividends – may be current or non current

Provision against current against current assets, such as, provision for bad and doubtful debts, etc., are also treated as current liabilities because such provisions reduce the amount of current assets.

**Non Current assets :** All those assets which are not current asset are termed as non current assets. Examples are :

1. Goodwill
2. Land and buildings
3. Plant and machinery
4. Furniture
5. Long term investments
6. Profit and loss account (debit balance)
7. Preliminary expenses
8. Patent rights and trade marks
9. Discount on the issue of shares and debentures

**Non-Current Liabilities :** This category includes all those liabilities which are not current liabilities. Examples are :

1. Share capital – equity and preference
2. Debentures and long term loans
3. Profit and loss account (credit balance)
4. Provision and reserves e.g., capital reserves, general reserves, sinking fund etc.
5. Proposed dividends
6. Share premium account
7. Share forfeiture accounts.

### **17.3. PREPARATION OF FUNDS FLOW STATEMENT**

Broadly speaking the funds flow statement consists of two parts – (1) Schedule of changes in working capital and (2) statement of sources and uses of funds.

#### **17.3.1. Form of Funds Flow statement :**

Generally, this statement is prepared in two formats – in Report Form or in an account form.



**Report form Funds Flow Statement**

| <b>Sources of Funds</b>                                       | <b>Rs.</b>   |
|---|--------------|
| 1. From operation   | X x x        |
| 2. Issue of Share capital                                     | X x x        |
| 3. Issue of Debentures  | X x x        |
| 4. Long term loans  | X x x        |
| 5. Sales of fixed assets                                      | X x x        |
| 6. Non Trading Receipts, e.g., dividends or donation received | X x x        |
| 7. Decrease in working capital (as per schedule               | X x x        |
| <b>Total</b>  | <b>X x x</b> |
| <b>Application of Funds</b>                                   |              |
| 1. Trading losses   | X x x        |
| 2. Redemption of Pref. Share capital/Debentures               | X x x        |
| 3. Repayment of long term debts                               | X x x        |
| 4. Purchase of any fixed assets                               | X x x        |
| 5. Non trading payments                                       | X x x        |
| 6. Increase in working capital (as per schedule)              | X x x        |
| <b>Total</b>  | <b>X x x</b> |

**Account Form of Funds Flow statement**

| <b>Sources of Funds</b>   | <b>Rs.</b> | <b>Applications of Funds</b>   | <b>Rs.</b> |
|---------------------------|------------|--------------------------------|------------|
| 1. Funds from operations  | X x x      | 1. Trading loss (if any)       | X x x      |
| 2. Issue of share capital | X x x      | 2. Redemption of Pref. Shares  | X x x      |
| 3. Issue of Debentures    | X x x      | 3. Repayment of Loans          | X x x      |
| 4. Long term loans        | X x x      | 4. Purchase of any fixed asset | X x x      |
| 5. Sale of fixed assets   | X x x      | 5. Non-trading payments        | X x x      |
| 6. Non trading receipts   | X x x      | 6. Increase in working capital | X x x      |

|                                |              |  |              |
|--------------------------------|--------------|--|--------------|
| 7. Decrease in working capital | X x x        |  |              |
|                                | <b>X x x</b> |  | <b>X x x</b> |

### 17.3.2. Sources of Funds :

The transactions that increase working capital are sources of funds. Some of them are :

**(1) Funds from Operations :** Sales are the main source of funds inflow and at the same time fund flow out for expenses and costs of goods sold. Thus, funds are increased if inflow from sales exceeds the outflow for expenses and goods sold. It can be calculated as under :

#### Calculations of Funds from Operations :

|        |   | Rs.   | Rs.          |
|--------|---|-------|--------------|
|        | <b>Net profit shown as Profit &amp; Loss a/c</b>                        |       | <b>X x x</b> |
| Add :  | 1. Depreciation and Depletion   | X x x |              |
|        | 2. Amortization of Fictitious and Intangible assets                     | X x x |              |
|        | 3. Provision for taxation   | X x x |              |
|        | 4. Appropriation of Retained Earnings                                   | X x x |              |
|        | 5. Dividend (if any paid out of current year's profit)                  | X x x |              |
|        | 6. Loss on sale of any asset (if debited) to Profit & Loss a/c          | X x x |              |
|        | 7. Any other non cash expenditure                                       | X x x | X x x        |
|        |   |       | X x x        |
| Less : | 1. Dividend received from outside                                       | X x x |              |
|        | 2. Retransfer of excess provisions`                                     | X x x |              |
|        | 3. Profit on sale of fixed assets (if already credited to P & L a/c)    | X x x |              |
|        | 4. Appreciation in the value of fixed assets (if credited in P & L a/c) | X x x | X x x        |
|        | Funds From Operations   |       | X x x        |

**a) Depreciation and Depletion :** The treatment of depreciation and depletion of non current assets like building and machinery is a difficult problem. These items are non fund items because they are nothing to do with current assets and current liabilities. So to delete their

effect, their amount should be credited to current year's profit in order to find out the amount of funds.

- b) Amortization of non fund items :** This also does not affect the flow of funds. The amortization of some items belonging to the category of deferred revenue expenditure or intangible assets is simply a write off entry. This affects the profits as per financial accounts but does not affect the funds from profit. Profit, therefore should be corrected by adding all such writing-off in order to calculate correct amount of funds from profit.
- c) Provision for taxation :** Provision for taxes made from current year's profit also does not affect the flow of funds. So it must be added back to the profits.
- d) Appropriation of Retained Earnings** It is simply a transfer entry. It must also be added back to the profit in order to compute funds from incomes.

The following items are deducted from profits –

- (i) Dividends Received from outside :** Generally, it is credited in P & L a/c. As it is a non-business income, it is shown separately as a source of funds so, here, it must be deducted from profits.
  - (ii) Retransfer of Excess Provisions :** It does not create any inflow of funds, while profits are increased. Hence, it must be deducted.
  - (iii) Profit or Gain on Sale of Assets :** Any profit or gain on the sale of non current assets (which has been credited to P & L a/c) must be eliminated from the amount of profit.
  - (iv) Appreciation in the Value of Fixed Assets :** If any fixed asset has been appreciated during the year and credited to Profit and Loss a/c, it must also be deducted from the profit.
- (2) Issue of Share capital :** Increase in Share capital increases funds but shares issued and allotted for other than cash consideration do not generate fund.
  - (3) Issue of Debentures or Long term loans :** Issue of debentures accepted public deposits and long term loans, all results in the increase of funds. If debentures like shares have been allotted to somebody for other than cash consideration, they will not be taken into account.
  - (4) Sale of Fixed Assets :** When any fixed assets (like land, building, machinery, furniture or long term investments) is sold cash or account receivable is increased without increasing current liability, it results in the generation of funds.
  - (5) Non Trading Receipts :** Any non trading receipt like dividends, rent, interest etc., received in cash also increased funds.

### 17.3.3 Application of Funds :

The following are the examples for the application of fund

1. **Purchase of Any fixed Asset** : If any fixed asset is purchased for cash, it is an application of funds.
2. **Payment of Loans etc.** : Any repayment of loan or redemption of preference shares is also an application of funds.
3. **Payment of Dividend** : Payment of dividend reduces the working capital and is an application of funds. But mere declaration of dividend (proposed dividends) is not an application of fund.
4. **Increase in working capital** : Increase in working capital is also an application of funds because it increase the investment in current sales.

### 17.4 STATEMENT OF CHANGES IN WORKING CAPITAL

The Statement of changes in working capital denotes the movement of working capital. The variation or change in working capital is shown by a schedule of working capital. As working capital represents the excess of current assets over current liabilities, the schedule of working capital shows the aggregate of current assets, current liabilities at the end of two years and then the increase or decrease in working capital is measured by comparing the net working capital. Its performance is as follows :

#### Schedule of Changes in Working Capital

| Particulars             | Previous Year | Current Year | On Working capital |          |
|-------------------------|---------------|--------------|--------------------|----------|
|                         | Rs.           | Rs.          | Increase           | Decrease |
| <b>Current assets :</b> |               |              |                    |          |
| 1.                      |               |              |                    |          |
| 2.                      |               |              |                    |          |
| 3.                      |               |              |                    |          |
| 4.                      |               |              |                    |          |

|   |  |  |  |  |
|---|--|--|--|--|
| <b>Total current Assets</b>                 |  |  |  |  |
| <b>Current Liabilities</b>                  |  |  |  |  |
| 1.  |  |  |  |  |
| 2.  |  |  |  |  |
| 3.  |  |  |  |  |
| 4.  |  |  |  |  |
| <b>Total Current Liabilities</b>            |  |  |  |  |
| Net Working capital                         |  |  |  |  |
| <b>Increase/Decrease in working capital</b> |  |  |  |  |

**Illu.1 : Prepare a statement of changes in working capital from the following Balance Sheets of Manjit and Company Limited.**

| <b>Liabilities</b>      | <b>2002<br/>Rs.</b> | <b>2003<br/>Rs.</b> | <b>Assets</b>                      | <b>2002<br/>Rs.</b> | <b>2003<br/>Rs.</b> |
|-------------------------|---------------------|---------------------|------------------------------------|---------------------|---------------------|
| <b>Equity capital</b>   | <b>2,50,000</b>     | <b>2,50,000</b>     | <b>Fixed assets</b>                | <b>3,00,000</b>     | <b>3,50,000</b>     |
| <b>Debentures</b>       | <b>1,85,000</b>     | <b>2,25,000</b>     | <b>Long – term<br/>Investments</b> | <b>1,00,000</b>     | <b>50,000</b>       |
| <b>Tax payable</b>      | <b>38,500</b>       | <b>21,500</b>       | <b>Work in progress</b>            | <b>40,000</b>       | <b>45,000</b>       |
| <b>Accounts payable</b> | <b>48,000</b>       | <b>96,000</b>       | <b>Stock – in – trade</b>          | <b>75,000</b>       | <b>1,12,500</b>     |
| <b>Interest payable</b> | <b>18,500</b>       | <b>22,500</b>       | <b>Accounts<br/>receivable</b>     | <b>35,000</b>       | <b>70,000</b>       |
| <b>Dividend payable</b> | <b>25,000</b>       | <b>17,500</b>       | <b>Cash</b>                        | <b>15,000</b>       | <b>5,000</b>        |
|                         | <b>5,65,000</b>     | <b>6,32,500</b>     |                                    | <b>5,65,000</b>     | <b>6,32,500</b>     |

**Solution :****Schedule showing changes in working capital**

| Particulars                          | 2002<br>Rs.     | 2003<br>Rs.     | Increase/<br>Decrease<br>Rs. | Increase/<br>Decrease<br>Rs. |
|--------------------------------------|-----------------|-----------------|------------------------------|------------------------------|
| <b>Current assets:</b>               |                 |                 |                              |                              |
| Work – in – progress                 | 40,000          | 45,000          | 5,000                        | -                            |
| Stock in trade                       | 75,000          | 1,12,500        | 37,500                       | -                            |
| Accounts receivable                  | 35,000          | 70,000          | 35,000                       | -                            |
| Cash                                 | 15,000          | 5,000           | -                            | 10,000                       |
| <b>Total current Assets (A)</b>      | <b>1,65,000</b> | <b>2,32,500</b> |                              |                              |
| <b>Current Liabilities:</b>          |                 |                 |                              |                              |
| Tax payable                          | 38,500          | 21,500          | 17,000                       | -                            |
| Accounts payable                     | 48,000          | 96,000          | -                            | 48,000                       |
| Interest payable                     | 18,500          | 22,500          | -                            | 4,000                        |
| Dividend payable                     | 25,000          | 17,500          | 7,500                        | -                            |
| <b>Total Current liabilities (B)</b> | <b>1,30,000</b> | <b>1,57,500</b> |                              |                              |
| <b>Working capital (A) – (B)</b>     | <b>35,000</b>   | <b>75,000</b>   |                              |                              |

Net increase in working capital = Rs.75,000 – 35,000 = Rs.40,000

**Illu.2 : Prepare a statement of changes in working capital:**

| Assets  | 2000<br>Rs. | 2001<br>Rs. | Liabilities | 2000<br>Rs. | 2001<br>Rs. |
|---------|-------------|-------------|-------------|-------------|-------------|
| Cash    | 60,000      | 94,000      | Capital     | 4,00,000    | 5,00,000    |
| Debtors | 2,40,000    | 2,30,000    | Creditors   | 1,40,000    | 90,000      |
| Stock   | 1,60,000    | 1,80,000    | P & L a/c   | 20,000      | 46,000      |
| Land    | 1,00,000    | 1,32,000    |             |             |             |
|         | 5,60,000    | 6,36,000    |             | 5,60,000    | 6,36,000    |

**Solution :****Statement of changes in working capital**

| Particulars                          | 2000<br>(Rs.)   | 2001<br>(Rs.)   | Changes in Working Capital |                 |
|--------------------------------------|-----------------|-----------------|----------------------------|-----------------|
|                                      |                 |                 | Increase<br>Rs.            | Decrease<br>Rs. |
| <b>Current Assets:</b>               |                 |                 |                            |                 |
| Cash                                 | 60,000          | 94,000          | 34,000                     | -               |
| Debtors                              | 2,40,000        | 2,30,000        | -                          | 10,000          |
| Stock                                | 1,60,000        | 1,80,000        | 20,000                     | -               |
| <b>Total Current Assets (A)</b>      | <b>4,60,000</b> | <b>5,04,000</b> |                            |                 |
| <b>Current Liabilities:</b>          |                 |                 |                            |                 |
| Creditors                            | 1,40,000        | 90,000          | 50,000                     | -               |
| <b>Total Current Liabilities (B)</b> | <b>1,40,000</b> | <b>90,000</b>   |                            |                 |
| Working Capital (A) - (B)            | <b>3,20,000</b> | <b>4,14,000</b> | -                          | -               |
| Net increase in working capital      | 94,000          | -               | -                          | 94,000          |
| <b>Total</b>                         | <b>4,14,000</b> | <b>4,14,000</b> | <b>1,04,000</b>            | <b>1,04,000</b> |

**Illu.3 : The following were comparative balance sheets of XYZ co. as on 31<sup>st</sup> March 2002 and 2003:**

| Liabilities       | 31-3-2002<br>Rs. | 31-3-2003<br>Rs. | Assets              | 31-3-2002<br>Rs. | 31-3-2003<br>Rs. |
|-------------------|------------------|------------------|---------------------|------------------|------------------|
| Share capital     | 50,000           | 53,000           | Fixed Assets        | 50,000           | 60,000           |
| Profit & Loss a/c | 28,000           | 37,000           | Investments         | 6,000            | 9,000            |
| General Reserve   | 10,000           | 12,000           | Stock               | 31,000           | 36,000           |
| 12% Debentures    | 16,000           | 23,000           | Accounts Receivable | 24,000           | 27,000           |
| Creditors         | 20,000           | 21,000           | Cash                | 20,000           | 25,000           |

|                          |                 |                 |                             |                 |                 |
|--------------------------|-----------------|-----------------|-----------------------------|-----------------|-----------------|
| <b>Provision for tax</b> | <b>12,000</b>   | <b>15,000</b>   | <b>Preliminary expenses</b> | <b>5,000</b>    | <b>4,000</b>    |
|                          | <b>1,36,000</b> | <b>1,61,000</b> |                             | <b>1,36,000</b> | <b>1,61,000</b> |

**Additional Information:**

(a) Depreciation provided on fixed assets Rs.15,000

(b) Tax paid during the year Rs.13,000

(c) Interim dividend paid Rs.5,000

Prepare Funds Flow Statement.

**Solution :****Schedule of changes in working capital**

|                                 | <b>31-3-2002</b> | <b>31-3-2003</b> | <b>Increase (+)</b> | <b>Decrease (-)</b> |
|---------------------------------|------------------|------------------|---------------------|---------------------|
|                                 | <b>Rs.</b>       | <b>Rs.</b>       | <b>Rs.</b>          | <b>Rs.</b>          |
| Current Assets:                 |                  |                  |                     |                     |
| Cash                            | 20,000           | 25,000           | 5,000               |                     |
| Accounts Receivable             | 24,000           | 27,000           | 3,000               |                     |
| Stock                           | 31,000           | 36,000           | 5,000               |                     |
|                                 | <b>75,000</b>    | <b>88,000</b>    |                     |                     |
| Current Liabilities:            |                  |                  |                     |                     |
| Creditors                       | 20,000           | 21,000           |                     | 1,000               |
| Working capital                 | 55,000           | 67,000           |                     |                     |
| Net increase in working capital | 12,000           |                  |                     | 12,000              |
|                                 | <b>67,000</b>    | <b>67,000</b>    | <b>13,000</b>       | <b>13,000</b>       |

| <b>Dr.</b>     | <b>Share Capital Account</b> |                | <b>Cr.</b>    |
|----------------|------------------------------|----------------|---------------|
|                | <b>Rs.</b>                   |                | <b>Rs.</b>    |
| To Balance c/d | 53,000                       | By Balance b/d | 50,000        |
|                |                              | By Bank        | 3,000         |
|                | <b>53,000</b>                |                | <b>53,000</b> |



| Dr.            |               | General Reserve Account |               | Cr. |     |
|----------------|---------------|-------------------------|---------------|-----|-----|
|                | Rs.           |                         | Rs.           |     | Rs. |
| To Balance c/d | 12,000        | By Balance b/d          | 10,000        |     |     |
|                |               | By Profit & Loss a/c    | 2,000         |     |     |
|                | <b>12,000</b> |                         | <b>12,000</b> |     |     |

| Dr.            |               | 12% Debentures Account |               | Cr. |     |
|----------------|---------------|------------------------|---------------|-----|-----|
|                | Rs.           |                        | Rs.           |     | Rs. |
| To Balance c/d | 23,000        | By Balance b/d         | 16,000        |     |     |
|                |               | By Bank                | 7,000         |     |     |
|                | <b>23,000</b> |                        | <b>23,000</b> |     |     |

| Dr.            |               | Provision for taxation Account |               | Cr. |     |
|----------------|---------------|--------------------------------|---------------|-----|-----|
|                | Rs.           |                                | Rs.           |     | Rs. |
| To Bank (Tax)  | 13,000        | By Balance b/d                 | 12,000        |     |     |
| To Balance c/d | 15,000        | By Profit & Loss a/c           | 16,000        |     |     |
|                | <b>28,000</b> |                                | <b>28,000</b> |     |     |

| Dr.            |               | Fixed Assets Account        |               | Cr. |     |
|----------------|---------------|-----------------------------|---------------|-----|-----|
|                | Rs.           |                             | Rs.           |     | Rs. |
| To Balance b/d | 50,000        | By Depreciation ( P& L a/c) | 15,000        |     |     |
| To Bank a/c    | 25,000        | By Balance c/d              | 60,000        |     |     |
|                | <b>75,000</b> |                             | <b>75,000</b> |     |     |

| Dr.            |              | Investment Account |              | Cr. |     |
|----------------|--------------|--------------------|--------------|-----|-----|
|                | Rs.          |                    | Rs.          |     | Rs. |
| To Balance b/d | 6,000        | By Balance c/d     | 9,000        |     |     |
| To Bank a/c    | 3,000        |                    |              |     |     |
|                | <b>9,000</b> |                    | <b>9,000</b> |     |     |

| Dr.            |              | Preliminary Expenses Account |  | Cr. |              |
|----------------|--------------|------------------------------|--|-----|--------------|
|                | Rs.          |                              |  |     | Rs.          |
| To Balance b/d | 5,000        | By P & L a/c                 |  |     | 1,000        |
|                |              | By Balance c/d               |  |     | 4,000        |
|                | <b>5,000</b> |                              |  |     | <b>5,000</b> |

**Calculation of funds from operations:**

|   |            |               |
|---|------------|---------------|
|   | <b>Rs.</b> | <b>Rs.</b>    |
| Balance of P & L a/c (31-3-2003)                  |            | 37,000        |
| <b>Add: Non – cash and non – operating items:</b> |            |               |
| i. Transfer to general reserve                    | 2,000      |               |
| ii. Provision for tax                             | 16,000     |               |
| iii. Depreciation fixed assets                    | 15,000     |               |
| iv. Interim dividend paid                         | 5,000      |               |
| v. Preliminary expenses written off               | 1,000      | 39,000        |
|   |            | <b>76,000</b> |
| <b>Less: P &amp; L a/c balance on 31-3-2002</b>   |            | 28,000        |
| <b>Funds from operations</b>                      |            | <b>48,000</b> |

**Funds Flow Statement for the year ending 31-3-2003**

| Sources               | Rs.           | Application                     | Rs.           |
|-----------------------|---------------|---------------------------------|---------------|
| Issue of shares       | 3,000         | Purchase of Fixed Assets        | 25,000        |
| Issue of Debentures   | 7,000         | Purchase of Investments         | 3,000         |
| Funds from operations | 48,000        | Tax paid                        | 13,000        |
|                       |               | Interim Dividend paid           | 5,000         |
|                       |               | Net increase in working capital | 12,000        |
|                       | <b>58,000</b> |                                 | <b>58,000</b> |

**Illu.4 : Extracts from Balance Sheets:**

| Particulars                 | As on<br>31-3-1999 Rs. | As on<br>31-3-2000Rs. |
|-----------------------------|------------------------|-----------------------|
| Equity shares capital       | 4,00,000               | 5,00,000              |
| 8% preference share capital | 2,00,000               | 1,50,000              |

**Additional information:**

- (i) Equity shares were issued during the year against the purchase of machinery Rs.50,000
  - (ii) 8% preference shares worth Rs.1,00,000 were redeemed during the year.
- Prepare necessary accounts to find out sources / applications of funds.

**Solution :**

| Dr.            |                 | Equity Share Capital Account |          | Cr. |                 |
|----------------|-----------------|------------------------------|----------|-----|-----------------|
| Particulars    | Rs.             | Particulars                  | Rs.      |     |                 |
| To Balance c/d | 5,00,000        | By Balance b/d               | 4,00,000 |     |                 |
|                |                 | By Machinery a/c             | 50,000   |     |                 |
|                |                 | By Cash                      | 50,000   |     |                 |
|                | <b>5,00,000</b> |                              |          |     | <b>5,00,000</b> |

| Dr.            |                 | 8% Preference Share Capital Account |          | Cr. |                 |
|----------------|-----------------|-------------------------------------|----------|-----|-----------------|
| Particulars    | Rs.             | Particulars                         | Rs.      |     |                 |
| To Cash        | 1,00,000        | By Balance b/d                      | 2,00,000 |     |                 |
| To Balance c/d | 1,50,000        | By Cash                             | 50,000   |     |                 |
|                | <b>2,50,000</b> |                                     |          |     | <b>2,50,000</b> |

**Working Notes:**

1. Issue of shares against the purchase of Machinery is neither a source nor application of funds.
2. Issue of shares worth Rs.50,000 for cash a source of funds.
3. Redemption of preference shares of Rs.50,000 is a source of funds.

**Illu.5 : The following is the Balance Sheet of X Ltd. on 31<sup>st</sup> December 1992 and 1991: -**

| Liabilities            | 1991     | 1992     | Assets                   | 1991     | 1992     |
|------------------------|----------|----------|--------------------------|----------|----------|
| Equity share capital   | 3,00,000 | 4,00,000 | Goodwill                 | 1,15,000 | 90,000   |
| Preference shares      | 1,50,000 | 1,00,000 | Land and Buildings       | 2,00,000 | 1,70,000 |
| General Reserve        | 40,000   | 70,000   | Machinery                | 80,000   | 2,00,000 |
| Profit & Loss a/c      | 30,000   | 48,000   | Sundry debtors           | 1,60,000 | 2,00,000 |
| Proposed Dividend      | 42,000   | 50,000   | Stock                    | 77,000   | 1,09,000 |
| Sundry Creditors       | 55,000   | 83,000   | Bills receivable         | 20,000   | 30,000   |
| Bills payable          | 20,000   | 16,000   | Cash in hand and at Bank | 25,000   | 18,000   |
| Provision for taxation | 40,000   | 50,000   |                          |          |          |
|                        | 6,77,000 | 8,17,000 |                          | 6,77,000 | 8,17,000 |

**Additional Information:**

- (a) Depreciation written off on Machinery and Buildings in 1992 were Rs.10,000 and Rs.20,000 respectively.
- (b) During the year 1992 Dividends Rs.20,000 were paid
- (c) The income tax paid during the year was Rs.35,000.

**Prepare Funds Flow Statement.**

**Solution :**

**Working Notes:**

| Dr.            | Equity Share Capital Account |                    | Cr.      |
|----------------|------------------------------|--------------------|----------|
| Particulars    | Rs.                          | Particulars        | Rs.      |
| 31-12-1992     |                              | 1-1-1992           |          |
| To Balance b/d | 4,00,000                     | By Balance b/d     | 3,00,000 |
|                |                              | 31-12-1992         |          |
|                |                              | By Cash (Bal. Fig) | 1,00,000 |

|  |                 |  |                 |
|--|-----------------|--|-----------------|
|  | <b>4,00,000</b> |  | <b>4,00,000</b> |
|--|-----------------|--|-----------------|

**Dr. 8% Redeemable Preference share Capital Cr.**

| Particulars         | Rs.             | Particulars    | Rs.             |
|---------------------|-----------------|----------------|-----------------|
| 31-12-1992          |                 | 1-1-1992       |                 |
| To Cash ( Bal. Fig) | 50,000          | By Balance b/d | 1,50,000        |
| To Balance c/d      | 1,00,000        |                |                 |
|                     | <b>1,50,000</b> |                | <b>1,50,000</b> |

**Dr. General Reserve Account Cr.**

| Particulars    | Rs.           | Particulars             | Rs.           |
|----------------|---------------|-------------------------|---------------|
| 31-12-1992     |               | 1-1-1992                |               |
| To Balance c/d | 70,000        | By Balance b/d          | 40,000        |
|                |               | 31-12-1992              |               |
|                |               | By P & L a/c (Bal. Fig) | 30,000        |
|                | <b>70,000</b> |                         | <b>70,000</b> |

**Dr. Provision for taxation Account Cr.**

| Particulars         | Rs.           | Particulars             | Rs.           |
|---------------------|---------------|-------------------------|---------------|
| 31-12-1992          |               | 1-1-1992                |               |
| To Cash Balance c/d | 35,000        | By Balance b/d          | 40,000        |
| To Balance c/d      | 50,000        | 31-12-1992              |               |
|                     |               | By P & L a/c (Bal. Fig) | 45,000        |
|                     | <b>85,000</b> |                         | <b>85,000</b> |

**Dr. Goodwill Account Cr.**

| Particulars    | Rs.      | Particulars             | Rs.    |
|----------------|----------|-------------------------|--------|
| 1-1-1992       |          | 31-12-1992              |        |
| To Balance b/d | 1,15,000 | By P & L a/c (Bal. Fig) | 25,000 |

|  |                 |                |                 |
|--|-----------------|----------------|-----------------|
|  |                 | By Balance c/d | 90,000          |
|  | <b>1,15,000</b> |                | <b>1,15,000</b> |

**Dr. L & B Account Cr.**

| Particulars    | Rs.             | Particulars               | Rs.             |
|----------------|-----------------|---------------------------|-----------------|
| 1-1-1992       |                 | 31-12-1992                |                 |
| To Balance b/d | 2,00,000        | By P & L a/c (Dep.)       | 20,000          |
|                |                 | By Cash (sale) (bal. Fig) | 10,000          |
|                |                 | By Balance c/d            | 1,70,000        |
|                | <b>2,00,000</b> |                           | <b>2,00,000</b> |

**Dr. Machinery Account Cr.**

| Particulars        | Rs.             | Particulars         | Rs.             |
|--------------------|-----------------|---------------------|-----------------|
| 1-1-1992           |                 | 31-12-1992          |                 |
| To Balance b/d     | 80,000          | By P & L a/c (Dep.) | 10,000          |
| 31-12-1992         |                 | By Balance c/d      | 2,00,000        |
| To Cash (Bal. Fig) | 1,30,000        |                     |                 |
|                    | <b>2,10,000</b> |                     | <b>2,10,000</b> |

**Funds from Operations:**

| Particulars   | Rs.    | Rs.           |
|---|--------|---------------|
| <b>Balance of profit as per P &amp; L a/c for the year ended 31-12-1992</b> |        | <b>48,000</b> |
| Add: Non- Cash and Non – operating expenses:                                |        |               |
| General Reserve   | 30,000 |               |
| Proposed dividend   | 50,000 |               |
| Interim dividend  | 20,000 |               |
| Provision for taxation  | 45,000 |               |
| Depreciation on Machinery & Buildings                                       | 30,000 |               |
| Goodwill written off  | 25,000 | 2,00,000      |

|   |   |                 |
|---|---|-----------------|
|   |   | <b>2,48,000</b> |
| <b>Less:</b> Non – Cash and Non – operating incomes                           |   |                 |
| NIL   | - | -               |
|   |   | 2,48,000        |
| <b>Less:</b> Balance of Profit as per P & L a/c for the year ended 31-12-1991 |   | 30,000          |
| <b>Cash from operations</b>   |   | <b>2,18,000</b> |

**Statement of Sources and Uses for the year ended 31<sup>st</sup> December 1992**

| Particulars                              | Rs.      | Rs.           |
|--|----------|---------------|
| Cash & Bank Balance as on 31-12-1991     |          | <b>25,000</b> |
| <b>Sources:</b>                          |          |               |
| Issue of equity shares                   | 1,00,000 |               |
| Sale of building                         | 10,000   |               |
| Increase in Creditors                    | 28,000   |               |
| Cash from operations                     | 2,18,000 | 3,56,000      |
|  |          | 3,81,000      |
| <b>Uses:</b>                             |          |               |
| Redemption of 8% Preference shares       | 50,000   |               |
| Proposed dividend of 1991 paid (assumed) | 42,000   |               |
| Income – Tax paid                        | 35,000   |               |
| Plant purchased                          | 1,30,000 |               |
| Increase in Debtors                      | 40,000   |               |
| Increase in Stock                        | 32,000   |               |
| Increase in Bills receivable             | 10,000   |               |
| Decrease in Bills payable                | 4,000    |               |
| Interim dividend paid                    | 20,000   | 3,63,000      |
| Cash and Bank balance on 31-12-2000      |          | <b>18,000</b> |

**Illu.6 : Prepare a funds statement from the following particulars:**

| Assets                   | 2000 Rs. | 1999 Rs.   | Liabilities       | 2000 Rs. | 1999 Rs. |
|--------------------------|----------|------------|-------------------|----------|----------|
| Cash                     | 36,000   | 60,000     | Trade creditors   | 1,70,000 | 1,94,000 |
| Debtors                  | 1,08,000 | 1,00,000   | Accrued Expenses  | 38,000   | 26,000   |
| Stock                    | 1,60,000 | 1,40,000   | Mortgages         | 60,000   | 40,000   |
| Investment (Marketable)  | -        | 20,000     | Capital           | 2,60,000 | 2,00,000 |
| Fixed assets             | 3,40,000 | 2,80,000   | Retained earnings | 68,000   | 59,000   |
| Accumulated depreciation | (48,000) | (1,01,000) |                   |          |          |
| Fixed assets (Net)       | 2,92,000 | 1,79,000   |                   |          |          |
| Goodwill                 | -        | 20,000     |                   |          |          |
|                          | 5,96,000 | 5,19,000   |                   | 5,96,000 | 5,19,000 |

**Additional information:**

(a) Depreciation provided during 2000 amounted to Rs.27,000

(b) Dividends paid in 2000 amounted to Rs.14,000.

**Solution :****Schedule of Changes in working capital**

|                             | 1999 Rs.        | 2000 Rs.        | Increase in W. C. | Decrease in W. C. |
|-----------------------------|-----------------|-----------------|-------------------|-------------------|
| <b>Current Assets:</b>      |                 |                 |                   |                   |
| Cash                        | 60,000          | 36,000          | -                 | 24,000            |
| Debtors                     | 1,00,000        | 1,08,000        | 8,000             | -                 |
| Stock                       | 1,40,000        | 1,60,000        | 20,000            | -                 |
| Investments                 | 20,000          | -               | -                 | 20,000            |
|                             | <b>3,20,000</b> | <b>3,04,000</b> |                   |                   |
| <b>Current Liabilities:</b> |                 |                 |                   |                   |
| Trade Creditors             | 1,94,000        | 1,70,000        | 24,000            | -                 |
| Accrued Expenses            | 26,000          | 38,000          | -                 | 12,000            |



|                                |                 |                 |               |               |
|--------------------------------|-----------------|-----------------|---------------|---------------|
|                                | <b>2,20,000</b> | <b>2,08,000</b> |               |               |
| Working capital (C. A. – C. L) | 1,00,000        | 96,000          |               |               |
| Net Decrease in W. C.          | -               | 4,000           | 4,000         |               |
|                                | <b>1,00,000</b> | <b>1,00,000</b> | <b>56,000</b> | <b>56,000</b> |

| Dr.                                | Funds Flow Statement |                                       | Cr.             |
|------------------------------------|----------------------|---------------------------------------|-----------------|
| Sources                            | Rs.                  | Applications                          | Rs.             |
| Issue of shares <sup>2</sup>       | 60,000               | Purchase of fixed Assets <sup>1</sup> | 1,40,000        |
| Raising of Mortgages <sup>3</sup>  | 20,000               | Payment of Dividend                   | 14,000          |
| Funds from operations <sup>4</sup> | 70,000               |                                       |                 |
| Net Decrease in W. C.              | 4,000                |                                       |                 |
|                                    | <b>1,54,000</b>      |                                       | <b>1,54,000</b> |

**Working Notes:**

(1)

| Dr.                                       | Net Fixed Assets Account |                 | Cr.             |
|---|--------------------------|-----------------|-----------------|
| Particulars                               | Rs.                      | Particulars     | Rs.             |
| To Balance b/d                            | 1,79,000                 | By Depreciation | 27,000          |
| To Cash – Purchases<br>(Balancing figure) | 1,40,000                 | By Balance c/d  | 2,92,000        |
|   | <b>3,19,000</b>          |                 | <b>3,19,000</b> |

(2)

| Dr.            | Share Capital Account |                                       | Cr.             |
|----------------|-----------------------|---------------------------------------|-----------------|
| Particulars    | Rs.                   | Particulars                           | Rs.             |
| To Balance c/d | 2,60,000              | By Balance b/d                        | 2,00,000        |
|                |                       | By Cash – Issue<br>(balancing figure) | 60,000          |
|                | <b>2,60,000</b>       |                                       | <b>2,60,000</b> |

(3)

| Dr.            |               | Mortgages Accounts                     |               | Cr. |  |
|----------------|---------------|--|---------------|-----|--|
| Particulars    | Rs.           | Particulars                            | Rs.           |     |  |
| To Balance c/d | 60,000        | By Balance b/d                         | 40,000        |     |  |
|                |               | By Cash – raised<br>(Balancing figure) | 20,000        |     |  |
|                | <b>60,000</b> |  | <b>60,000</b> |     |  |

| Dr.                     |                 | Adjusted Profit and loss Account               |                 | Cr. |  |
|-------------------------|-----------------|--|-----------------|-----|--|
| Particulars             | Rs.             | Particulars                                    | Rs.             |     |  |
| To Depreciation         | 27,000          | By Balance b/d                                 | 59,000          |     |  |
| To Goodwill written off | 20,000          | BY Funds from operations<br>(balancing figure) | 70,000          |     |  |
| To Dividend paid        | 14,000          |  |                 |     |  |
| To Balance c/d          | 68,000          |  |                 |     |  |
|                         | <b>1,29,000</b> |  | <b>1,29,000</b> |     |  |

**Illu.7 : From the following balances extracted from Messrs. Surya Tiles Ltd. as on 31<sup>st</sup> March 2001 and 2002, you are required to prepare (a) Schedule of changes in working capital and (b) Funds Flow Statement.**

| Liabilities                     | 31 <sup>st</sup> March<br>2001 Rs. | 31 <sup>st</sup> March<br>2002 Rs. | Assets            | 31 <sup>st</sup> March<br>2001 Rs. | 31 <sup>st</sup> March<br>2002 Rs. |
|---------------------------------|------------------------------------|------------------------------------|-------------------|------------------------------------|------------------------------------|
| Share capital                   | 1,00,000                           | 1,10,000                           | Buildings         | 40,000                             | 38,000                             |
| General Reserve                 | 14,000                             | 18,000                             | Plant & Machinery | 37,000                             | 36,000                             |
| P & L a/c                       | 16,000                             | 13,000                             | Investment        | 10,000                             | 21,000                             |
| Creditors                       | 8,000                              | 5,400                              | Stock             | 30,000                             | 23,400                             |
| Bills payable                   | 1,200                              | 800                                | Bills receivable  | 2,000                              | 3,200                              |
| Provision for tax               | 16,000                             | 18,000                             | Debtors           | 18,000                             | 19,000                             |
| Provision for<br>doubtful debts | 400                                | 600                                | Cash at Bank      | 6,600                              | 15,200                             |

|  |                 |                 |                             |                 |                 |
|--|-----------------|-----------------|-----------------------------|-----------------|-----------------|
|  |                 |                 | <b>Preliminary expenses</b> | <b>12,000</b>   | <b>10,000</b>   |
|  | <b>1,55,600</b> | <b>1,65,800</b> |                             | <b>1,55,600</b> | <b>1,65,800</b> |

**Additional Information:**

- (i) Depreciation charged on Plant was Rs.4,000
- (ii) Provisions for taxation Rs.19,000 was made during the year 2002.
- (iii) Interim dividend of Rs.8,000 was paid during the year.
- (iv) A piece of machinery was sold for Rs.8,000 during the year 2002. It has costed Rs.12,000. Depreciation of Rs.7,000 has been provided for it.

**Solution :****Schedule of changes in working capital**

| <b>Particulars</b>                   | <b>2001 Rs.</b> | <b>2002 Rs.</b> | <b>Increase (+) Rs.</b> | <b>Decrease (-) Rs.</b> |
|--------------------------------------|-----------------|-----------------|-------------------------|-------------------------|
| <b>Current assets:</b>               |                 |                 |                         |                         |
| Cash at Bank                         | 6,600           | 15,200          | 8,600                   | -                       |
| Debtors                              | 18,000          | 19,000          | 1,000                   |                         |
| Bills receivable                     | 2,000           | 3,200           | 1,200                   |                         |
| Stock                                | 30,000          | 23,400          |                         | 6,600                   |
| <b>Total Current Assets (A)</b>      | <b>56,600</b>   | <b>60,800</b>   |                         |                         |
| <b>Current liabilities:</b>          |                 |                 |                         |                         |
| Provision for doubtful debts         | 400             | 600             |                         | 200                     |
| Bills payable                        | 1,200           | 800             | 400                     |                         |
| Sundry creditors                     | 8,000           | 5,400           | 2,600                   |                         |
| <b>Total Current Liabilities (B)</b> | <b>9,600</b>    | <b>6,800</b>    |                         |                         |
| <b>Working Capital</b>               |                 |                 | <b>13,800</b>           | <b>6,800</b>            |

Net increase in working capital = Rs.13,800 – 6,800 = 7,000

**Funds Flow Statement for the year ended**

|                        |               |
|------------------------|---------------|
| <b>Sources:</b>        |               |
| Net in working capital | 7,000         |
| Funds from operations  | 29,000        |
| Sales of machinery     | 8,000         |
|                        | <b>44,000</b> |
| <b>Applications:</b>   |               |
| Purchase of plant      | 8,000         |
| Taxes paid             | 17,000        |
| Investments purchases  | 11,000        |
| Interim dividend paid  | 8,000         |
|                        | <b>44,000</b> |

|   |               |
|---|---------------|
| <b>Working Notes:</b> Funds from operations –           | <b>Rs.</b>    |
| Profit & Loss account balance on 31-12-02               | 13,000        |
| Add: items which do not decrease funds from Operations: |               |
| Preliminary expenses written off                        | 2,000         |
| Provision for taxation                                  | 19,000        |
| Depreciation: Plant                                     | 4,000         |
| Buildings   | 2,000         |
| Interim dividend  | 8,000         |
|   | -----         |
|   | 48,000        |
| Less: Profit on sale of machinery                       | 3,000         |
|   | -----         |
|   | 45,000        |
| Less: Profit & Loss a/c balance on                      |               |
| 31-12-2001  | 16,000        |
|   | -----         |
| Funds from operations                                   | <b>29,000</b> |
|   | -----         |

**Purchase of Plant:**

|                          |        |
|--------------------------|--------|
| Balance as on 31-12-2001 | 37,000 |
|--------------------------|--------|

|   |              |
|---|--------------|
| Less: Depreciation                                      | 4,000        |
|   | -----        |
|   | 33,000       |
| Less: Books value of machinery sold<br>(12,000 – 7,000) | 5,000        |
|   | -----        |
|   | 28,000       |
| Less: Balance as on 31-12-2002                          | 36,000       |
|   | -----        |
| Purchase of Plant                                       | <b>8,000</b> |
|   | -----        |

**Taxes Paid:**

|   |               |
|---|---------------|
| Provision for tax as on 31-12-01        | 16,000        |
| Add: Provision created for 2002         | 19,000        |
|   | -----         |
|   | 35,000        |
| Less: Provision for taxes on 31-12-2002 | 18,000        |
|   | -----         |
| Taxes Paid                              | <b>17,000</b> |
|   | -----         |

Note: investments have not been treated as current asset.

**Illu.8 : Prepare funds flow statement from the following information:**

| Liabilities             | 2002 Rs. | 2003 Rs. | Assets           | 2002 Rs. | 2003 Rs. |
|-------------------------|----------|----------|------------------|----------|----------|
| Capital                 | 77,000   | 81,200   | Buildings        | 52,000   | 60,100   |
| Creditors               | 10,500   | 14,800   | Machinery        | 25,000   | 20,000   |
| Creditors for machinery | 25,000   | 25,000   | Motorcar         | 21,000   | 16,800   |
| Bank Loan               | 5,000    | 26,000   | Furniture        | 1,500    | 2,300    |
| Bills payable           | 14,000   | 16,000   | Stock            | 12,000   | 37,400   |
| Provision for bad debts | 1,000    | 800      | Debtors          | 4,000    | 12,600   |
|                         |          |          | Bills receivable | 14,800   | 11,020   |

|  |                 |                 |                     |                 |                 |
|--|-----------------|-----------------|---------------------|-----------------|-----------------|
|  |                 |                 | <b>Cash in hand</b> | <b>2,100</b>    | <b>3,500</b>    |
|  |                 |                 | <b>Petty Cash</b>   | <b>100</b>      | <b>80</b>       |
|  | <b>1,32,500</b> | <b>1,63,800</b> |                     | <b>1,32,500</b> | <b>1,63,800</b> |

- (i) Rs.5,000; on motorcar Rs.4,200 and on furniture Rs.300.
- (ii) Drawings of Mr. X were Rs.15,000
- (iii) Additional capital introduced during the year was Rs.10,000

### Solution :

#### Schedule of changes in working capital of Mr. X as on 31<sup>st</sup> December 2003

| Particulars                          | 2002<br>(Rs.) | 2003<br>(Rs.) | Changes in Working<br>Capital |               |
|--------------------------------------|---------------|---------------|-------------------------------|---------------|
|                                      |               |               | Increase                      | Decrease      |
| <b>Current Assets:</b>               |               |               |                               |               |
| Stock                                | 12,000        | 37,400        | 25,400                        | -             |
| Debtors                              | 4,000         | 12,600        | 8,600                         | -             |
| Bills receivable                     | 14,800        | 11,020        | -                             | 3,780         |
| Cash in Hand                         | 2,100         | 3,500         | 1,400                         | -             |
| Petty Cash                           | 100           | 80            | -                             | 20            |
| <b>Total Current Assets (A)</b>      | <b>33,000</b> | <b>64,600</b> |                               |               |
| <b>Current Liabilities:</b>          |               |               |                               |               |
| Creditors                            | 10,500        | 14,800        | -                             | 4,300         |
| Bills payable                        | 14,000        | 16,000        | -                             | 2,000         |
| Provision for bad debts              | 1,000         | 800           | 200                           | -             |
| <b>Total Current Liabilities (B)</b> | <b>25,500</b> | <b>31,600</b> |                               |               |
| <b>Working Capital (A) – (B)</b>     | <b>7,500</b>  | <b>33,000</b> |                               |               |
| Increase in working capital          | 25,500        | -             | -                             | 25,500        |
| <b>Total</b>                         | <b>33,000</b> | <b>33,000</b> | <b>35,600</b>                 | <b>35,600</b> |

**Calculation of Funds from operations:**

|  | <b>Rs.</b>    |
|--|---------------|
| Profit during the year 2003                                | 9,200         |
| <b>Add: Non –operating funds debited to P &amp; L a/c:</b> |               |
| Depreciation on Building                                   | 5,200         |
| Depreciation on Machinery                                  | 5,000         |
| Depreciation on Motorcar                                   | 4,200         |
| Depreciation on Furniture                                  | 300           |
| <b>Funds from operations</b>                               | <b>14,700</b> |
|  | <b>23,900</b> |

**Funds Flow Statement of 'X' as on 31-12-2003**

| <b>Sources</b>                | <b>Amount<br/>(Rs.)</b> | <b>Uses</b>                 | <b>Amount<br/>(Rs.)</b> |
|-------------------------------|-------------------------|-----------------------------|-------------------------|
| Funds from operations         | 23,900                  | Drawings                    | 15,000                  |
| Additional Capital Introduced | 10,000                  | Purchase of Buildings       | 13,300                  |
| Additional Bank Loan raised   | 21,000                  | Purchase of Furniture       | 1,100                   |
|                               |                         | Increase in working capital | 25,500                  |
|                               | <b>54,900</b>           |                             | <b>54,900</b>           |

**Working Notes:**

| <b>Dr.</b>                    |               | <b>Buildings a/c</b> |            | <b>Cr.</b>         |               |
|-------------------------------|---------------|----------------------|------------|--------------------|---------------|
| <b>Particulars</b>            | <b>Rs.</b>    | <b>Particulars</b>   | <b>Rs.</b> | <b>Particulars</b> | <b>Rs.</b>    |
| To Opening Balance            | 52,000        | By Depreciation      | 5,200      |                    |               |
| To Cash (Buildings purchased) | 13,300        | By Closing balance   | 60,100     |                    |               |
|                               | <b>65,300</b> |                      |            |                    | <b>65,300</b> |

| <b>Dr.</b>                    |              | <b>Furniture A/c</b> |            | <b>Cr.</b>         |              |
|-------------------------------|--------------|----------------------|------------|--------------------|--------------|
| <b>Particulars</b>            | <b>Rs.</b>   | <b>Particulars</b>   | <b>Rs.</b> | <b>Particulars</b> | <b>Rs.</b>   |
| To Opening Balance            | 1,500        | By Depreciation      | 300        |                    |              |
| To Cash (Furniture purchased) | 1,100        | By Closing Balance   | 2,300      |                    |              |
|                               | <b>2,600</b> |                      |            |                    | <b>2,600</b> |

| Dr.                |               | Capital A/c                             |               | Cr. |  |
|--------------------|---------------|---|---------------|-----|--|
| Particulars        | Rs.           | Particulars                             | Rs.           |     |  |
| To Drawings (Cash) | 15,000        | By Opening Balance                      | 77,000        |     |  |
| To Closing Balance | 81,200        | By Additional Capital introduced (Cash) | 10,000        |     |  |
|                    |               | By P & L a/c (2003 ear profit) (B / F)  | 9,200         |     |  |
|                    | <b>96,200</b> |   | <b>96,200</b> |     |  |

Illu.9 : From the following Balance – Sheet of Mr. Kumar you are requested to prepare a schedule of changes in working capital and statement of Funds Flow.

| Liabilities       | 1999 Rs.        | 2000 Rs.        | Assets           | 1999 Rs.        | 2000 Rs.        |
|-------------------|-----------------|-----------------|------------------|-----------------|-----------------|
| Capital           | 80,000          | 85,000          | Land & Buildings | 50,000          | 50,000          |
| Profit & Loss a/c | 14,500          | 24,500          | Plant            | 24,000          | 34,000          |
| Creditors         | 9,000           | 5,000           | Stock            | 9,000           | 7,000           |
| Mortgage          | -               | 5,000           | Debtors          | 16,500          | 19,500          |
|                   |                 |                 | Cash             | 4,000           | 9,000           |
|                   | <b>1,03,500</b> | <b>1,19,500</b> |                  | <b>1,03,500</b> | <b>1,19,500</b> |

**Solution :**

**Statement showing changes in Working Capital**

|                      | 1999   | 2000   | Increase      | Decrease     |
|----------------------|--------|--------|---------------|--------------|
| Current Assets:      | 9,000  | 7,000  |               | 2,000        |
| Debtors              | 16,500 | 19,500 | 3,000         |              |
| Cash                 | 4,000  | 9,000  | 5,000         |              |
| Current Liabilities: |        |        |               |              |
| Creditors            | 9,000  | 5,000  | 4,000         |              |
|                      |        |        | <b>12,000</b> | <b>2,000</b> |

Net increase in Working capital = Rs.12,000 – 2,000 = Rs.10,000.



**Funds from operations**

|                                 | <b>Rs.</b>    |
|---------------------------------|---------------|
| Balance of profit in 2000       | 24,500        |
| Less: Balance of profit in 1999 | 14,500        |
| <b>Funds from operations</b>    | <b>10,000</b> |

**Funds Flow Statement**

|  |        | <b>Rs.</b>    |
|--|--------|---------------|
| Sources of funds                       |        |               |
| Funds from operations                  | 10,000 |               |
| Issue of Capital                       | 5,000  |               |
| New Mortgage                           | 5,000  | 20,000        |
| Application of Funds                   |        |               |
| Purchase of Plant                      |        | 10,000        |
| <b>Net Increase in working Capital</b> |        | <b>10,000</b> |

**Illu.10 : The Balance Sheet of Shri. Constructions Ltd. were as follows:**

| <b>Liabilities</b>             | <b>31-12-98</b> | <b>31-12-99</b> | <b>Assets</b>   | <b>31-12-98</b> | <b>31-12-99</b> |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Share Capital</b>           | <b>70,000</b>   | <b>74,000</b>   | <b>Cash</b>     | <b>9,000</b>    | <b>7,800</b>    |
| <b>Debentures</b>              | <b>12,000</b>   | <b>6,000</b>    | <b>Debtors</b>  | <b>14,900</b>   | <b>17,700</b>   |
| <b>Provision for bad debts</b> | <b>700</b>      | <b>800</b>      | <b>Stock</b>    | <b>49,200</b>   | <b>42,700</b>   |
| <b>Creditors</b>               | <b>10,360</b>   | <b>11,840</b>   | <b>Land</b>     | <b>20,000</b>   | <b>30,000</b>   |
| <b>P &amp; L a/c</b>           | <b>10,040</b>   | <b>10,560</b>   | <b>Goodwill</b> | <b>10,000</b>   | <b>5,000</b>    |
|                                | <b>1,03,100</b> | <b>1,03,200</b> |                 | <b>1,03,100</b> | <b>1,03,200</b> |

**Additional Information:**

- (a) Dividend paid Rs.3,500
- (b) Land Purchased Rs.10,000
- (c) Goodwill written off Rs.5,000

**(d) Debentures redeemed Rs.6,000**

Prepare funds flow statement.

**Solution :****Schedule of Changes in Working Capital**

|                                 | 1998<br>Rs.   | 1999<br>Rs.   | Increase in<br>W. C.<br>Rs. | Decrease in<br>W. C.<br>Rs. |
|---------------------------------|---------------|---------------|-----------------------------|-----------------------------|
| <b>Current Assets:</b>          |               |               |                             |                             |
| Cash                            | 9,000         | 7,800         | -                           | 1,200                       |
| Debtors                         | 14,900        | 17,700        | 2,800                       | -                           |
| Stock                           | 49,200        | 42,700        | -                           | 6,500                       |
|                                 | <b>73,100</b> | <b>68,200</b> | -                           | -                           |
| <b>Current Liabilities:</b>     |               |               |                             |                             |
| Trade Creditors                 | 10,360        | 11,840        | -                           | 1,480                       |
| Reserve for Doubtful debts      | 700           | 800           | -                           | 100                         |
|                                 | <b>11,060</b> | <b>12,640</b> |                             |                             |
| Working Capital (C. A. – C. L.) | 62,040        | 55,560        |                             |                             |
| Net Decrease in W. C.           | -             | 6,480         | 6,480                       |                             |
| <b>Working Capital</b>          | <b>62,040</b> | <b>62,040</b> | <b>9,280</b>                | <b>9,280</b>                |

**Fund Flow Statement (for the year ended 31-12-1999)**

| Sources                                     | Rs.           | Use of Funds                                     | Rs.           |
|---|---------------|--|---------------|
| Issue of Share Capital<br>(74,000 – 70,000) | 4,000         | Redemption of Debentures<br>Rs. (12,000 – 6,000) | 6,000         |
| Funds from operations                       | 9,020         | Purchase of land<br>Rs. (30,000 – 20,000)        | 10,000        |
| Net Decrease in working<br>capital          | 6,480         | Payment of Dividend                              | 3,500         |
|   | <b>19,500</b> |  | <b>19,500</b> |

**Funds from operations**

|   | <b>Rs.</b>   |
|---|--------------|
| <b>Closing Balance of P/ L a/c (1999)</b>   | 10,560       |
| <b>Add:</b> Non – fund and non – operating items which have already been debited to P/ L A/c: |              |
| Goodwill Written off  | 5,000        |
| Dividend paid   | 3,500        |
|   | 19,060       |
| <b>Less:</b> Opening balance of P & L a/c (1998)  | 10,040       |
| <b>Funds from operations</b>  | <b>9,020</b> |

**Illu.11 :The following is the summarised balance sheet of Mr. Ramesh & co.**

| <b>Liabilities</b>                  | <b>1997 Rs.</b> | <b>1998 Rs.</b>  | <b>Assets</b>                 | <b>1997 Rs.</b> | <b>1998 Rs.</b>  |
|-------------------------------------|-----------------|------------------|-------------------------------|-----------------|------------------|
| <b>Equity share capital</b>         | <b>3,00,000</b> | <b>3,50,000</b>  | <b>Fixed Assets (net)</b>     | <b>5,10,000</b> | <b>6,20,000</b>  |
| <b>Preference capital</b>           | <b>2,00,000</b> | <b>1,00,000</b>  | <b>Investments</b>            | <b>30,000</b>   | <b>80,000</b>    |
| <b>Debentures</b>                   | <b>1,00,000</b> | <b>2,00,000</b>  | <b>Current Assets</b>         | <b>2,40,000</b> | <b>3,75,000</b>  |
| <b>Reserve</b>                      | <b>1,00,000</b> | <b>2,70,000</b>  | <b>Discount on debentures</b> | <b>10,000</b>   | <b>5,000</b>     |
| <b>Provision for doubtful debts</b> | <b>10,000</b>   | <b>15,000</b>    |                               |                 |                  |
| <b>Current liabilities</b>          | <b>80,000</b>   | <b>1,45,000</b>  |                               |                 |                  |
|                                     | <b>7,90,000</b> | <b>10,80,000</b> |                               | <b>7,90,000</b> | <b>10,80,000</b> |

**Additional Information:**

- (a) A machine costing Rs.70,000 whose book value was Rs.30,000 was disposed off Rs.25,000.
- (b) Preference share redemption was carried out at a premium of 5%.
- (c) The provision for depreciation stock at Rs.1,50,000 on 31-12-87 and at Rs.1,90,000 on 31-12-88.

**Prepare Funds Flow Statement.****Solution :****Schedule of Changes in Working Capital**

|                                 | 1997 Rs.        | 1998 Rs. | Increase | Decrease        |
|---------------------------------|-----------------|----------|----------|-----------------|
| Current Assets                  | 2,40,000        | 3,75,000 | 1,35,000 | 65,000          |
| Less: Current liabilities       | 80,000          | 1,45,000 |          | 65,000          |
| Working capital                 | 1,60,000        | 2,30,000 | 1,35,000 | 65,000          |
| Net Increase in Working capital | 70,000          |          |          | 70,000          |
|                                 | <b>2,30,000</b> |          |          | <b>1,35,000</b> |

**Calculation of Funds from operations.**

|   |                 |
|---|-----------------|
|   | <b>Rs.</b>      |
| Depreciation provided on Fixed Assets             | 80,000          |
| Loss on sale of machinery                         | 5,000           |
| Discount Issue of Debenture 's written off        | 5,000           |
| Premium on redemption of preference share capital | 5,000           |
| Transfers to Reserves                             | 1,70,000        |
| Provision for doubtful debts provided             | 5,000           |
| <b>Funds from operations</b>                      | <b>2,70,000</b> |

**Dr.****Funds flow Statements****Cr.**

| <b>Sources</b>                | <b>Rs.</b>      | <b>Applications</b>              | <b>Rs.</b>      |
|-------------------------------|-----------------|----------------------------------|-----------------|
| Issue of equity share capital | 50,000          | Redemption of preference capital | 1,00,000        |
| Issue of Debentures           | 1,00,000        | Premium on Redemption            | 5,000           |
| Sale of machinery             | 25,000          | Purchase of machinery            | 2,20,000        |
| Funds from operations         | 2,70,000        | Investment purchase              | 50,000          |
|                               |                 | Investments in working capital   | 70,000          |
|                               | <b>4,45,000</b> |                                  | <b>4,45,000</b> |

**Working Notes:**

(1)

| Dr.                         |                 | Fixed Assets Account             |        | Cr. |                 |
|-----------------------------|-----------------|----------------------------------|--------|-----|-----------------|
| To Balance b/d              | 5,10,000        | By Bank                          | 25,000 |     |                 |
| To Bank (Bal. Fig) Purchase | 2,20,000        | By Loss on sales                 | 5,000  |     | 30,000          |
|                             |                 | By Depreciation Provision<br>a/c |        |     | 80,000          |
|                             |                 | By Balance c/d                   |        |     | 6,20,000        |
|                             | <b>7,30,000</b> |                                  |        |     | <b>7,30,000</b> |

| Dr.   |                 | Provision for Depreciation Account          |  | Cr. |                 |
|---|-----------------|---|--|-----|-----------------|
| To Fixed Assets a/c (accumulated depreciation on machinery sold)<br>(70,000 – 30,000) | 40,000          | By Balance b/d                              |  |     | 1,50,000        |
| To Balance c/d  | 1,90,000        | By Loss on sales<br>Depreciation (Bal. Fig) |  |     | 80,000          |
|   | <b>2,30,000</b> |   |  |     | <b>2,30,000</b> |

(2) Investments purchased = Rs.80,000 – 30,000 = Rs.50,000

(3) Discount on Debentures written off = Rs.10,000 – 5,000 = Rs.5,000

(4) Issue of Equity share capital = Rs.3,50,000 – 3,00,000 = Rs.50,000.

(5) Redemption of Preference Share capital = Rs.2,00,000 – Rs.1,00,00 = 1,00,000

(6) Premium on redemption of preference share capital

= 5% on Rs.1,00,000 = Rs.5,000

(7) Issue of Debentures = Rs.2,00,000 – 1,00,000 = Rs.1,00,000

(8) Transfer to Reserve = Rs.2,70,000 – 1,00,000 = Rs.1,70,000

(9) Provision for doubtful debts provided = Rs.15,000 – 10,000 = Rs.5,000.

**Illu.12 : From the following Balance Sheet and additional information prepare**

**(a) A schedule of changes in working capital**

**(b) Funds Flow Statement**

| Liabilities            | 2004 Rs. | 2005 Rs. | Assets             | 2004 Rs. | 2005 Rs  |
|------------------------|----------|----------|--------------------|----------|----------|
| Share capital          | 2,00,000 | 2,50,000 | Land and Buildings | 2,00,000 | 1,90,000 |
| General Reserve        | 50,000   | 60,000   | Plant              | 1,50,000 | 1,74,000 |
| Profit and Loss a/c    | 30,500   | 30,600   | Stock              | 1,00,000 | 74,000   |
| Bank overdraft         | 70,000   | -        | Debtors            | 80,000   | 64,200   |
| Creditors              | 1,50,000 | 1,35,200 | Cash               | 500      | 600      |
| Provision for taxation | 30,000   | 35,000   | Bank               | -        | 8,000    |
|                        | 5,30,500 | 5,10,800 |                    | 5,30,500 | 5,10,800 |

**Additional Information:**

- (a) Depreciation was written off plant Rs.14, 000 in 2005
- (b) Dividend of Rs.20, 000 was paid during 2005
- (c) Income tax provision made during the year was Rs.25, 000
- (d) A piece of land has been sold during the year at cost.

**Solution :****(a) Schedule of changes in working capital**

| Particulars                     | Working capital |                 |              |              |
|---------------------------------|-----------------|-----------------|--------------|--------------|
|                                 | 2004 Rs.        | 2005 Rs.        | Increase Rs. | Decrease Rs. |
| <b>Current Assets :</b>         |                 |                 |              |              |
| Stock                           | 1,00,000        | 74,000          | -            | 26,000       |
| Debtors                         | 80,000          | 64,200          | -            | 15,800       |
| Cash                            | 500             | 600             | 100          | -            |
| Bank                            | -               | 8,000           | 8,000        | -            |
| <b>Total Current Assets (A)</b> | <b>1,80,500</b> | <b>1,46,800</b> |              |              |
| <b>Current Liabilities :</b>    |                 |                 |              |              |

|                                      |                 |                 |               |               |
|--------------------------------------|-----------------|-----------------|---------------|---------------|
| Bank overdraft                       | 70,000          | -               | 70,000        | -             |
| Creditors                            | 1,50,000        | 1,35,200        | 14,800        | -             |
| <b>Total current liabilities (B)</b> | <b>2,20,000</b> | <b>1,35,200</b> |               |               |
| Working capital (A – B)              | - 39,500        | 11,600          |               |               |
| Net increase in Working capital      | 51,100          | -               | -             | 51,100        |
|                                      | <b>11,600</b>   | <b>11,600</b>   | <b>92,900</b> | <b>92,900</b> |

**Plant a/c**

Dr.

Cr.

| Particulars                  | Amount<br>Rs.   | Particulars         | Amount<br>Rs.   |
|------------------------------|-----------------|---------------------|-----------------|
| To Balance b/d               | 1,50,000        | By Depreciation a/c | 14,000          |
| To Bank a/c (Purchases)(B/f) | 38,000          | By Balance c/d      | 1,74,000        |
|                              | <b>1,88,000</b> |                     | <b>1,88,000</b> |

**Provision for tax a/c**

Dr.

Cr.

| Particulars            | Amount<br>Rs. | Particulars                        | Amount<br>Rs. |
|------------------------|---------------|------------------------------------|---------------|
| To Bank a/c (Tax paid) | 20,000        | By Balance b/d                     | 30,000        |
| To Balance c/d         | 35,000        | By P & L a/c (non – fund)<br>(B/f) | 25,000        |
|                        | <b>55,000</b> |                                    | <b>55,000</b> |

**Funds from operations**

| Particulars                           | Amount<br>Rs. | Amount<br>Rs. |
|---------------------------------------|---------------|---------------|
| Profit & Loss account closing balance |               | <b>30,600</b> |

|             |                                       |        |               |
|-------------|---------------------------------------|--------|---------------|
| Add:        | Non-fund items :                      |        |               |
|             | Depreciation on plant                 | 14,000 |               |
|             | Income tax provision                  | 25,000 | 39,000        |
|             |                                       |        | 69,600        |
| <b>Add:</b> | <b>Appropriations :</b>               |        |               |
|             | Transfer to general reserve           | 10,000 |               |
|             | Dividends paid                        | 20,000 | 30,000        |
|             |                                       |        | <b>99,600</b> |
| Less:       | Profit & Loss account opening balance |        | 30,500        |
|             | <b>Funds from operations</b>          |        | <b>69,100</b> |

**Funds flow statement for the year ending 31-12-2005**

| Sources  | Amount<br>Rs.   | Uses                            | Amount<br>Rs.   |
|--|-----------------|---------------------------------|-----------------|
| Issue of capital<br>(Rs.2,50,000 – 2,00,000)         | 50,000          | Purchase of plant               | 38,000          |
| Sale of Land & Buildings<br>(Rs.2,00,000 – 1,90,000) | 10,000          | Dividend paid                   | 20,000          |
| Funds from operations                                | 69,100          | Income tax paid                 | 20,000          |
|  |                 | Net increase in working capital | 51,100          |
|  | <b>1,29,100</b> |                                 | <b>1,29,100</b> |

**Illu.13 : Calculate funds from operations from the information given below as on 31<sup>st</sup> March 2006 :**

- (a) Net profit for the year ended 31<sup>st</sup> March 2006 Rs.6,50,000
- (b) Gain on the sale of building Rs.35,500
- (c) Goodwill appears in the books of Rs.1,80,000 out of that 10% has been written off during the year.
- (d) Old machinery worth Rs.8,000 has been sold for Rs.6,500 during the year.
- (e) Rs.1,25,000 has been transferred to the general reserve fund.



- (f) Depreciation has been provided during the year on machinery and furniture at 20% whose total cost is Rs.6,50,000.

**Solution :**

**Statement of funds from operations**

| Particulars  | Amount<br>Rs. | Amount<br>Rs.   |
|--|---------------|-----------------|
| <b>Net profit for the year</b>                                 |               | <b>6,50,000</b> |
| <b>Add: Non-fund items :</b>                                   |               |                 |
| Goodwill written off [1,80,000 x 10/100]                       | 18,000        |                 |
| Loss on sale of machinery (8,000 – 6,500)                      | 1,500         |                 |
| Depreciation on machinery and furniture<br>(6,50,000 x 20/100) | 1,30,000      | 1,49,500        |
|  |               | <b>7,99,500</b> |
| <b>Add: Appropriations :</b>                                   |               |                 |
| Transfer to general reserve                                    |               | 1,25,000        |
|  |               | <b>9,24,500</b> |
| <b>Less: Non-operating income :</b>                            |               |                 |
| Gain on sale of buildings                                      |               | 35,500          |
| <b>Funds from operations</b>                                   |               | <b>8,89,000</b> |

**Illu.14 : From the following Balance Sheets of Sujatha Ltd., prepare funds flow statement :**

| Liabilities         | 2004 Rs. | 2005 Rs. | Assets               | 2004 Rs. | 2005 Rs. |
|---------------------|----------|----------|----------------------|----------|----------|
| Share capital       | 5,00,000 | 5,00,000 | Land & Buildings     | 6,50,000 | 5,85,000 |
| Reserves            | 25,000   | 70,000   | Plant & Machinery    | 3,50,000 | 6,00,000 |
| Profit and Loss a/c | 95,000   | 1,10,000 | Furniture & Fixtures | -        | 1,15,000 |
| Loans               | 4,00,000 | 5,50,000 | Stock                | 1,00,000 | 1,10,000 |
| Sundry creditors    | 1,30,000 | 1,50,000 | Debtors              | 40,000   | 50,000   |

|                          |                  |                  |                         |                  |                  |
|--------------------------|------------------|------------------|-------------------------|------------------|------------------|
| <b>Bills payable</b>     | <b>10,000</b>    | <b>25,000</b>    | <b>Bills receivable</b> | <b>-</b>         | <b>10,000</b>    |
| <b>Outstanding exp.</b>  | <b>5,000</b>     | <b>4,000</b>     | <b>Cash at bank</b>     | <b>20,000</b>    | <b>15,000</b>    |
| <b>Provision for tax</b> | <b>35,000</b>    | <b>60,000</b>    | <b>Cash in hand</b>     | <b>5,000</b>     | <b>6,000</b>     |
| <b>Proposed dividend</b> | <b>-</b>         | <b>50,000</b>    | <b>Goodwill</b>         | <b>35,000</b>    | <b>28,000</b>    |
|                          | <b>12,00,000</b> | <b>15,19,000</b> |                         | <b>12,00,000</b> | <b>15,19,000</b> |

**Additional information :**

- (a) During the year no land and buildings was purchased.
- (b) Depreciation on plant and machinery charged Rs.60,000
- (c) Tax paid Rs.35,000.

**Solution :****Schedule of changes in working capital**

| Particulars                          | 2004<br>Rs.     | 2005<br>Rs.     | Working capital |                 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|
|                                      |                 |                 | Increase<br>Rs. | Decrease<br>Rs. |
| <b>Current assets :</b>              |                 |                 |                 |                 |
| Stock                                | 1,00,000        | 1,10,000        | 10,000          | -               |
| Debtors                              | 40,000          | 50,000          | 10,000          | -               |
| Bills receivable                     | -               | 10,000          | 10,000          | -               |
| Cash at bank                         | 20,000          | 15,000          | -               | 5,000           |
| Cash in hand                         | 5,000           | 6,000           | 1,000           | -               |
| <b>Total current assets (A)</b>      | <b>1,65,000</b> | <b>1,91,000</b> |                 |                 |
| <b>Current Liabilities :</b>         |                 |                 |                 |                 |
| Sundry creditors                     | 1,30,000        | 1,50,000        | -               | 20,000          |
| Bills payable                        | 10,000          | 25,000          | -               | 15,000          |
| Outstanding expenses                 | 5,000           | 4,000           | 1,000           | -               |
| <b>Total current liabilities (B)</b> | <b>1,45,000</b> | <b>1,79,000</b> |                 |                 |
| Working capital (A – B)              | 20,000          | 12,000          |                 |                 |
| Net decrease in working capital      | -               | 8,000           | 8,000           | -               |

|  |               |               |               |               |
|--|---------------|---------------|---------------|---------------|
|  | <b>20,000</b> | <b>20,000</b> | <b>40,000</b> | <b>40,000</b> |
|--|---------------|---------------|---------------|---------------|

**Working Notes :****Provision for tax a/c****Dr.****Cr.**

| Particulars    | Rs.           | Particulars                      | Rs.           |
|----------------|---------------|----------------------------------|---------------|
| To Bank a/c    | 35,000        | By Balance b/d                   | 35,000        |
| To Balance c/d | 60,000        | By P & L a/c (non-fund)<br>(B/f) | 60,000        |
|                | <b>95,000</b> |                                  | <b>95,000</b> |

**Plant & Machinery a/c****Dr.****Cr.**

| Particulars    | Rs.             | Particulars     | Rs.             |
|----------------|-----------------|-----------------|-----------------|
| To Balance b/d | 3,50,000        | By Depreciation | 60,000          |
| To Bank (B/f)  | 3,10,000        | By Balance c/d  | 6,00,000        |
|                | <b>6,60,000</b> |                 | <b>6,60,000</b> |

**Funds from operations**

| Particulars                                  |   | Amount Rs. | Amount Rs.      |
|--|---|------------|-----------------|
| <b>Profit &amp; Loss a/c closing balance</b> |   |            | <b>1,10,000</b> |
| <b>Add:</b>                                  | <b>Non – fund items :</b>                                 |            |                 |
|  | Goodwill written off                                      | 7,000      |                 |
|  | Depreciation on Plant & Machinery                         | 60,000     |                 |
|  | Income tax provision                                      | 60,000     |                 |
|  | Depreciation Land & Buildings<br>(Rs.6,50,000 – 5,85,000) | 65,000     | 1,92,000        |
|  |   |            | <b>3,02,000</b> |
| <b>Add:</b>                                  | <b>Appropriations :</b>                                   |            |                 |
|  | Proposed dividend (2005)                                  | 50,000     |                 |

|       |  |        |                 |
|-------|--|--------|-----------------|
|       | Transfer to reserves<br>(Rs.70,000 – 25,000) | 45,000 | 95,000          |
|       |  |        | <b>3,97,000</b> |
| Less: | Profit & Loss a/c opening balance            |        | 95,000          |
|       | <b>Funds from operations</b>                 |        | <b>3,02,000</b> |

**Funds Flow Statement for the year ended 31-12-2005**

| Sources                                      | Amount<br>Rs.   | Uses                                | Amount<br>Rs.   |
|--|-----------------|-------------------------------------|-----------------|
| Funds from operations                        | 3,02,000        | Tax paid                            | 35,000          |
| Decrease in working capital                  | 8,000           | Purchase of plant                   | 3,10,000        |
| Raising of loans<br>(Rs.5,50,000 – 4,00,000) | 1,50,000        | Purchase of Furniture &<br>Fixtures | 1,15,000        |
|  | <b>4,60,000</b> |                                     | <b>4,60,000</b> |

**Illu.15 : The Balance sheets of Ravi as on 31.12.2001 and 31.12.2002 where as follows**

:

| Liabilities            | 31.12.01        | 31.12.02        | Assets           | 31.12.01        | 31.12.02        |
|------------------------|-----------------|-----------------|------------------|-----------------|-----------------|
| <b>Creditors</b>       | <b>40,000</b>   | <b>44,000</b>   | <b>Cash</b>      | <b>10,000</b>   | <b>7,000</b>    |
| <b>Mr. Ravi's loan</b> | <b>25,000</b>   | <b>-</b>        | <b>Debtors</b>   | <b>30,000</b>   | <b>50,000</b>   |
| <b>Loan from Bank</b>  | <b>40,000</b>   | <b>50,000</b>   | <b>Stock</b>     | <b>35,000</b>   | <b>25,000</b>   |
| <b>Capital</b>         | <b>1,25,000</b> | <b>1,53,000</b> | <b>Machinery</b> | <b>80,000</b>   | <b>55,000</b>   |
|                        |                 |                 | <b>Land</b>      | <b>40,000</b>   | <b>50,000</b>   |
|                        |                 |                 | <b>Building</b>  | <b>35,000</b>   | <b>60,000</b>   |
|                        | <b>2,30,000</b> | <b>2,47,000</b> |                  | <b>2,30,000</b> | <b>2,47,000</b> |

During the year machine costing Rs.10,000 (accumulated depreciation on Rs.3,000) was sold for Rs.5,000. The provision for depreciation against machinery as on 31.12.2001 was Rs.25,000 and on 31.12.2002 Rs.40,000. Net profit for the year 2002 amounted to Rs.45,000.

You are required to prepare :

(a) a schedule of change in working capital

(b) a funds flow statement.

**Solution :**

**Schedule of changes in working capital**

| Particulars                            | 2001<br>Rs.   | 2002<br>Rs.   | Increase<br>Rs. | Decrease<br>Rs. |
|--|---------------|---------------|-----------------|-----------------|
| <b>Current assets :</b>                |               |               |                 |                 |
| Cash                                   | 10,000        | 7,000         |                 | 3,000           |
| Debtors                                | 30,000        | 50,000        | 20,000          |                 |
| Stock                                  | 35,000        | 25,000        |                 | 10,000          |
| <b>Total Current assets (A)</b>        | <b>75,000</b> | <b>82,000</b> |                 |                 |
| <b>Current Liabilities :</b>           |               |               |                 |                 |
| Creditors                              | 40,000        | 44,000        |                 | 4,000           |
| <b>Total Current Liabilities (B)</b>   | <b>40,000</b> | <b>44,000</b> |                 |                 |
| <b>Working capital (A-B)</b>           | <b>35,000</b> | <b>58,000</b> |                 |                 |
| <b>Net increase in working capital</b> |               |               |                 | 3,000           |
|  |               |               | <b>20,000</b>   | <b>20,000</b>   |

**Funds from operations**

|                                       | Rs.    | Rs.           |
|---------------------------------------|--------|---------------|
| Profit for 2002                       |        | 45,000        |
| <b>Add:</b> Depreciation on Machinery | 18,000 |               |
| Loss on sale of machinery             | 2,000  | 20,000        |
| <b>Funds from operations</b>          |        | <b>65,000</b> |

**Funds Flow Statement**

| Dr.               |        | Cr.               |        |
|-------------------|--------|-------------------|--------|
| Sources           | Rs.    | Applications      | Rs.    |
| Loan from bank    | 10,000 | Mr. Ravi's Loan   | 25,000 |
| Sale of Machinery | 5,000  | Purchased of Land | 10,000 |

|                       |               |   |               |
|-----------------------|---------------|---|---------------|
| Funds from operations | 65,000        | Purchase of Buildings                         | 25,000        |
|                       |               | Drawings (Rs.1,25,000 +<br>45,000 – 1,53,000) | 17,000        |
|                       |               | Increase in working capital                   | 3,000         |
|                       | <b>80,000</b> |   | <b>80,000</b> |

**Working Notes :****Provision for Depreciation Account**

| Dr.              | Rs.           |                                 | Cr.           |
|------------------|---------------|---------------------------------|---------------|
|                  |               |                                 | Rs.           |
| 31-12-2002       |               | 1-1-2002                        |               |
| To Machinery a/c | 3,000         | By Balance b/d                  | 25,000        |
| To Balance c/d   | 40,000        | By Profit & Loss a/c (Bal. fig) | 18,000        |
|                  | <b>43,000</b> |                                 | <b>43,000</b> |

**Machinery Account**

| Dr.            | Rs.           |  | Cr.           |
|----------------|---------------|--|---------------|
|                |               |  | Rs.           |
| 1-1-2002       |               | 31-12-2002                             |               |
| To Balance b/d | 80,000        | By Bank                                | 5,000         |
|                |               | By Profit & Loss a/c –<br>Loss on sale | 2,000         |
|                |               | By Profit & Loss a/c –<br>Depreciation | 18,000        |
|                |               | By Balance c/d                         | 55,000        |
|                | <b>80,000</b> |  | <b>80,000</b> |

**Illu.16 : Find out the changes in working capital of ABC Ltd. from the particulars given below :**

| Liabilities | 2004 Rs. | 2003 Rs. | Assets   | 2004 Rs. | 2003 Rs. |
|-------------|----------|----------|----------|----------|----------|
| Capital     | 1,50,000 | 1,25,000 | Goodwill | 5,000    | 10,000   |

|                                |                 |                 |                                 |                 |                 |
|--------------------------------|-----------------|-----------------|---------------------------------|-----------------|-----------------|
| <b>Creditors</b>               | <b>45,000</b>   | <b>50,000</b>   | <b>Cash</b>                     | <b>70,000</b>   | <b>25,000</b>   |
| <b>Bills payable</b>           | <b>35,000</b>   | <b>20,000</b>   | <b>Debtors</b>                  | <b>90,000</b>   | <b>98,000</b>   |
| <b>Loans</b>                   | <b>20,000</b>   | <b>-</b>        | <b>Stock</b>                    | <b>1,20,000</b> | <b>87,000</b>   |
| <b>Profit and loss<br/>a/c</b> | <b>75,000</b>   | <b>60,000</b>   | <b>Investment</b>               | <b>10,000</b>   | <b>15,000</b>   |
|                                |                 |                 | <b>Land</b>                     | <b>27,000</b>   | <b>15,000</b>   |
|                                |                 |                 | <b>Preliminary<br/>expenses</b> | <b>3,000</b>    | <b>5,000</b>    |
|                                | <b>3,25,000</b> | <b>2,55,000</b> |                                 | <b>3,25,000</b> | <b>2,55,000</b> |

**Solution :****Statement showing change in working capital**

| <b>Particulars</b>           | <b>2004<br/>Rs.</b> | <b>2003<br/>Rs.</b> | <b>Increase<br/>Rs.</b> | <b>Decrease<br/>Rs.</b> |
|------------------------------|---------------------|---------------------|-------------------------|-------------------------|
| <b>Current assets :</b>      |                     |                     |                         |                         |
| Cash                         | 25,000              | 70,000              | 45,000                  | -                       |
| Debtors                      | 98,000              | 90,000              | -                       | 8,000                   |
| Stock                        | 87,000              | 1,20,000            | 33,000                  | -                       |
| <b>Current Liabilities :</b> |                     |                     |                         |                         |
| Creditors                    | 50,000              | 45,000              | 5,000                   | -                       |
| Bills payable                | 20,000              | 35,000              | -                       | 15,000                  |
| Loans (Due 1997)             | -                   | 20,000              | -                       | 20,000                  |
|                              |                     |                     | <b>83,000</b>           | <b>43,000</b>           |

Net increase in working capital = Rs.83,000 – 43,000 = Rs.40,000

**Note :** Loans raised in 2005 will be payable in 2004 is considered to be short term loan and as current liability.

**Illu.17 :** From the following Balance Sheet of a firm, prepare funds flow statement :

| Liabilities           | 2001 Rs. | 2002 Rs. | Assets    | 2001 Rs. | 2002 Rs. |
|-----------------------|----------|----------|-----------|----------|----------|
| Equity shares capital | 2,40,000 | 3,60,000 | Buildings | 1,66,200 | 3,39,600 |
| Share premium         | 24,000   | 36,000   | Machinery | 1,06,800 | 1,53,900 |
| General reserve       | 18,000   | 27,000   | Furniture | 7,200    | 4,500    |
| Profit and loss a/c   | 58,500   | 62,000   | Stock     | 66,300   | 78,000   |
| 8% debentures         | -        | 78,000   | Debtors   | 1,09,500 | 1,17,300 |
| Provision for taxes   | 29,400   | 32,700   | Bank      | 14,400   | 12,000   |
| Creditors             | 1,00,500 | 1,09,600 |           |          |          |
|                       | 4,70,400 | 7,05,300 |           | 4,70,400 | 7,05,300 |

Provide depreciation on machinery Rs.38,400, on furniture Rs.1,200.

### Solution :

#### Schedule of changes in working capital

| Particulars                  | 2001 Rs.        | 2002 Rs.        | Increase in working capital Rs. | Decrease in working capital Rs. |
|------------------------------|-----------------|-----------------|---------------------------------|---------------------------------|
| <b>Current assets :</b>      |                 |                 |                                 |                                 |
| Stock                        | 66,300          | 78,000          | 11,700                          | -                               |
| Debtors                      | 1,09,500        | 1,17,300        | 7,800                           | -                               |
| Bank                         | 14,400          | 12,000          | -                               | 2,400                           |
|                              | <b>1,90,200</b> | <b>2,07,300</b> |                                 |                                 |
| <b>Current Liabilities :</b> |                 |                 |                                 |                                 |
| Sundry Creditors             | 1,00,500        | 1,09,600        |                                 | 9,100                           |
| Provision for taxation       | 29,400          | 32,700          | -                               | 3,300                           |
|                              | <b>1,29,900</b> | <b>1,42,300</b> | -                               |                                 |



|                                 |               |               |               |               |
|---------------------------------|---------------|---------------|---------------|---------------|
| Working capital                 | 60,300        | 65,000        |               |               |
| Net increase in working capital | 4,700         |               |               | 4,700         |
|                                 | <b>65,400</b> | <b>65,400</b> | <b>19,500</b> | <b>19,500</b> |

#### Funds flow Statement

| Sources                 | Rs.             | Applications                    | Rs.             |
|-------------------------|-----------------|---------------------------------|-----------------|
| Issues of Share Capital | 1,20,000        | Purchase of land & Building     | 1,73,400        |
| Share Premium           | 12,000          | Purchase of Machinery           | 85,500          |
| Issue of Debentures     | 78,000          | Net increase in working capital | 5,100           |
| Sale of furniture       | 1,500           |                                 |                 |
| Funds from operations   | 52,500          |                                 |                 |
|                         | <b>2,64,000</b> |                                 | <b>2,64,000</b> |

#### Working Notes :

#### Machinery Account

| Dr.   | Rs.             | Cr.             | Rs.             |
|---|-----------------|-----------------|-----------------|
| To Balance b/d                                  | 1,06,800        | By Depreciation | 38,400          |
| To Purchases during the year (Balancing figure) | 85,500          | By Balance c/d  | 1,53,900        |
|   | <b>1,92,300</b> |                 | <b>1,92,300</b> |

#### Land & Building A/c

| Dr.                             | Rs.             | Cr.            | Rs.             |
|---------------------------------|-----------------|----------------|-----------------|
| To balance b/d                  | 1,66,200        | By Balance c/d | 3,39,600        |
| To Purchases (balancing figure) | 1,73,400        |                |                 |
|                                 | <b>3,39,600</b> |                | <b>3,39,600</b> |

**Furniture Account**

| Dr.            | Rs.          | Cr.                       | Rs.          |
|----------------|--------------|---------------------------|--------------|
| To balance b/d | 7,200        | By Depreciation           | 1,200        |
|                |              | By Cash – sale (Bal. Fig) | 1,500        |
|                |              | By Balance c/d            | 4,500        |
|                | <b>7,200</b> |                           | <b>7,200</b> |

**Adjusted Profit and Loss Account**

| Dr.                          | Rs.             | Cr.                      | Rs.             |
|------------------------------|-----------------|--------------------------|-----------------|
| To Transfer to Reserves      | 9,000           | By Balance b/d           | 58,500          |
| To Depreciation on machinery | 38,400          | By Funds from operations | 52,500          |
| To Depreciation on furniture | 1,200           |                          |                 |
| To Balance c/d               | 62,400          |                          |                 |
|                              | <b>1,11,000</b> |                          | <b>1,11,000</b> |

**Illu.18 : Prepare funds flow statement from the following information of Jeevan Ltd.**

(Rs. Thousands)

|                            | 2003 | 2004 |                    | 2003 | 2004 |
|----------------------------|------|------|--------------------|------|------|
| Share capital              | 500  | 750  | Cash               | 150  | 225  |
| Reserves                   | 250  | 300  | Stock              | 300  | 325  |
| Profit & Loss a/c          | 50   | 85   | Debtors            | 150  | 350  |
| Share premium              | -    | 25   | Investments        | 300  | 400  |
| Debentures                 | 350  | 250  | Furniture          | 35   | 45   |
| Provision for tax          | 100  | 150  | Plant              | 520  | 500  |
| Accumulated depreciation : |      |      | Land and Buildings | 500  | 500  |
| Plant                      | 250  | 280  |                    |      |      |
| Furniture                  | 25   | 30   |                    |      |      |

|                  |              |              |  |              |              |
|------------------|--------------|--------------|--|--------------|--------------|
| <b>Creditors</b> | <b>430</b>   | <b>475</b>   |  |              |              |
|                  | <b>1,955</b> | <b>2,345</b> |  | <b>1,955</b> | <b>2,345</b> |

**Additional Information :**

- (i) A plant worth Rs.20,000 (depreciation accumulated Rs.10,000) was sold for cash Rs.4,000
- (ii) Furniture worth of Rs.10,000 was purchased
- (iii) Dividend paid during 2004 was Rs.20,000.
- (iv) Tax paid during 2004 was Rs.40,000.
- (v) Depreciation provided on buildings during 2004 was Rs.25,000

**Solution :****Schedule of changes in working capital**

| <b>Particulars</b>                     | <b>2003<br/>Rs.</b> | <b>2004<br/>Rs.</b> | <b>Increase<br/>Rs.</b> | <b>Decrease<br/>Rs.</b> |
|--|---------------------|---------------------|-------------------------|-------------------------|
| <b>Current Assets :</b>                |                     |                     |                         |                         |
| Cash                                   | 1,50,000            | 2,25,000            | 75,000                  | -                       |
| Stock                                  | 3,00,000            | 3,25,000            | 25,000                  | -                       |
| Debtors                                | 1,50,000            | 3,50,000            | 2,00,000                | -                       |
| <b>Total Current Assets (A)</b>        | <b>6,00,000</b>     | <b>9,00,000</b>     |                         |                         |
| <b>Current Liabilities :</b>           |                     |                     |                         |                         |
| Creditors                              | 4,30,000            | 4,75,000            | -                       | 45,000                  |
| <b>Total Current Liabilities (B)</b>   | <b>4,30,000</b>     | <b>4,75,000</b>     |                         |                         |
| <b>Working capital (A-B)</b>           | <b>1,70,000</b>     | <b>4,25,000</b>     |                         |                         |
| <b>Net increase in working capital</b> |                     |                     |                         | 2,55,000                |
|  |                     |                     | <b>3,00,000</b>         | <b>3,00,000</b>         |

**Working Notes :****Investment Account**

|                    | <b>Rs.</b>      |                | <b>Rs.</b>      |
|--------------------|-----------------|----------------|-----------------|
| To Balance b/d     | 3,00,000        | By Balance c/d | 4,00,000        |
| To Bank (Bal. Fig) | 1,00,000        |                |                 |
|                    | <b>4,00,000</b> |                | <b>4,00,000</b> |

**Furniture Account**

|                | <b>Rs.</b>    |                | <b>Rs.</b>    |
|----------------|---------------|----------------|---------------|
| To Balance b/d | 35,000        | By Balance c/d | 45,000        |
| To Bank        | 10,000        |                |               |
|                | <b>45,000</b> |                | <b>45,000</b> |

**Provision for depreciation on Furniture**

|                | <b>Rs.</b>    |                         | <b>Rs.</b>    |
|----------------|---------------|-------------------------|---------------|
| To Balance c/d | 30,000        | By Balance b/d          | 25,000        |
|                |               | By P & L a/c (Bal. Fig) | 5,000         |
|                | <b>30,000</b> |                         | <b>30,000</b> |

**Plant Account**

|                | <b>Rs.</b>      |                                   | <b>Rs.</b>      |
|----------------|-----------------|-----------------------------------|-----------------|
| To Balance b/d | 5,20,000        | By Provision for depreciation a/c | 10,000          |
|                |                 | By Bank                           | 4,000           |
|                |                 | By P & L a/c (Loss on sale)       | 6,000           |
|                |                 | By Balance c/d                    | 5,00,000        |
|                | <b>5,20,000</b> |                                   | <b>5,20,000</b> |

**Provision for depreciation on Plant**

|                | <b>Rs.</b> |                         | <b>Rs.</b> |
|----------------|------------|-------------------------|------------|
| To Plant a/c   | 10,000     | By Balance b/d          | 2,50,000   |
| To Balance c/d | 2,80,000   | By P & L a/c (Bal. Fig) | 40,000     |

|  |                 |  |                 |
|--|-----------------|--|-----------------|
|  |                 |  |                 |
|  | <b>2,90,000</b> |  | <b>2,90,000</b> |

**Land & Buildings A/c**

|                       | Rs.             |                 | Rs.             |
|-----------------------|-----------------|-----------------|-----------------|
| To Balance b/d        | 5,00,000        | By Depreciation | 25,000          |
| To Balance (Bal. Fig) | 25,000          | By Balance c/d  | 5,00,000        |
|                       | <b>5,25,000</b> |                 | <b>5,25,000</b> |

**Depreciation on Land & Buildings**

|                     | Rs.           |              | Rs.           |
|---------------------|---------------|--------------|---------------|
| To Land & Buildings | 25,000        | By P & L a/c | 25,000        |
|                     | <b>25,000</b> |              | <b>25,000</b> |

**Provision for tax**

|                | Rs.             |                         | Rs.             |
|----------------|-----------------|-------------------------|-----------------|
| To Bank        | 40,000          | By Balance b/d          | 1,00,000        |
| To Balance c/d | 1,50,000        | By P & L a/c (Bal. Fig) | 90,000          |
|                | <b>1,90,000</b> |                         | <b>1,90,000</b> |

**Funds from operations**

|   | Rs.    | Rs.             |
|---|--------|-----------------|
| Net profit as per P & L a/c                         |        | 85,000          |
| <b>Add:</b> Non – fund and non – operating expenses |        |                 |
| Depreciation on furniture                           | 5,000  |                 |
| Loss on sale of Plant                               | 6,000  |                 |
| Depreciation on Plant                               | 40,000 |                 |
| Depreciation on Buildings                           | 25,000 |                 |
| Provision for taxation                              | 90,000 |                 |
| Transfer to Reserve                                 | 50,000 |                 |
| Dividends   | 20,000 | 2,36,000        |
|   |        | <b>3,21,000</b> |

|   |   |                 |
|---|---|-----------------|
| <b>Less:</b> Non – fund and non – operating incomes :     |   |                 |
| NIL   | - | -               |
|   |   | <b>3,21,000</b> |
| <b>Less:</b> Balance of Profit as per P & L a/c on 1-1-96 |   | 50,000          |
| <b>Funds from operations</b>                              |   | <b>2,71,000</b> |

### Funds Flow Statement

|                                 | Rs.             |
|---------------------------------|-----------------|
| <b>Sources of funds :</b>       |                 |
| Sale of Plant                   | 4,000           |
| Issue of shares                 | 2,50,000        |
| Premium on issue of shares      | 25,000          |
| Funds from operations           | 2,71,000        |
|                                 | <b>5,50,000</b> |
| <b>Application of funds :</b>   |                 |
| Purchase investments            | 1,00,000        |
| Purchase of furniture           | 10,000          |
| Payment of tax                  | 40,000          |
| Redemption of debentures        | 1,00,000        |
| Dividends paid                  | 20,000          |
| Purchase of Land & Buildings    | 25,000          |
| Net increase in working capital | 2,55,000        |
|                                 | <b>5.50,000</b> |

**Illu.19 : The Balance Sheets of A, B Ltd. as on December 31, 1998 and December 31, 1999 are as follows.**

| Liabilities              | Dec 31<br>1998 Rs. | Dec 31<br>1999 Rs. | Assets                           | Dec 31<br>1998 Rs. | Dec 31<br>1999 Rs. |
|--------------------------|--------------------|--------------------|----------------------------------|--------------------|--------------------|
| <b>Share capital</b>     | <b>2,00,000</b>    | <b>2,50,000</b>    | <b>Fixed assets</b>              | <b>3,50,000</b>    | <b>4,75,000</b>    |
| <b>Retained earnings</b> | <b>1,60,000</b>    | <b>3,00,000</b>    | <b>Merchandise<br/>inventory</b> | <b>1,00,000</b>    | <b>95,000</b>      |

|                          |          |          |                      |          |          |
|--------------------------|----------|----------|----------------------|----------|----------|
| Premium on shares        | -        | 5,000    | Accounts Receivables | 43,000   | 50,000   |
| Accumulated depreciation | 80,000   | 60,000   | Prepaid expenses     | 4,000    | 5,000    |
| Debentures               | 60,000   | -        | Cash                 | 15,800   | 10,200   |
| Accounts Payable         | 37,800   | 40,200   | Commission on shares | 25,000   | 20,000   |
|                          | 5,37,800 | 6,55,200 |                      | 5,37,800 | 6,55,200 |

**Additional Information :**

- (i) An addition to the fixed assets was made during the year at a cost of Rs.1,65,000 and fully depreciated machinery costing Rs.40,000 was discarded no salvage being realised.
- (ii) Depreciation for the year Rs.20,000.
- (iii) Income tax paid was Rs.40,000
- (iv) Interim dividend paid during the year Rs.20,000.

You are required to prepare :

- (1) A statement of schedule of changes in working capital.
- (2) A statement of sources and applications of funds.

Solution :

**Schedule of Changes in Working Capital**

| Assets              | 1998<br>Rs. | 1999<br>Rs. | Increase<br>Rs. | Decrease<br>Rs. |
|---------------------|-------------|-------------|-----------------|-----------------|
| Stocks              | 1,00,000    | 95,000      |                 | 5,000           |
| Accounts receivable | 43,000      | 50,000      | 7,000           |                 |
| Prepaid expenses    | 4,000       | 5,000       | 1,000           |                 |
| Cash                | 15,800      | 10,200      |                 | 5,600           |

|                                 |                 |                 |               |               |
|---------------------------------|-----------------|-----------------|---------------|---------------|
| <b>Total Assets (A)</b>         | <b>1,62,800</b> | <b>1,60,200</b> |               |               |
| <b>Liabilities</b>              |                 |                 |               |               |
| Accounts payable                | 37,800          | 40,200          |               | 2,400         |
| <b>Total Liabilities (B)</b>    | <b>37,800</b>   | <b>40,200</b>   |               |               |
| <b>Working capital (A-B)</b>    | <b>1,25,000</b> | <b>1,20,000</b> |               |               |
| Net decrease in working capital |                 |                 | 5,000         |               |
|                                 |                 |                 | <b>13,000</b> | <b>13,000</b> |

### Funds from Operations

|  | Rs.    | Rs.             |
|--|--------|-----------------|
| Retained earnings as on 31-12-1999                     |        | 3,00,000        |
| <b>Add : Non – fund and Non – operating expenses</b>   |        |                 |
| Accumulated depreciation Rs.60,000 – [80,000 – 40,000] | 20,000 |                 |
| Income tax paid  | 40,000 |                 |
| Interim dividend paid                                  | 20,000 |                 |
| Commission on shares written off (Rs.25,000 – 20,000)  | 5,000  | 85,000          |
|  |        | <b>3,85,000</b> |
| <b>Less: Retained earnings as on 31-12-1998</b>        |        | 1,60,000        |
| <b>Funds from operations</b>                           |        | <b>2,25,000</b> |

### Funds Flow Statement as on 31-3-1999

| Dr. | Sources                     | Rs.             | Applications           | Rs.             | Cr. |
|-----|-----------------------------|-----------------|------------------------|-----------------|-----|
|     | Funds from operations       | 2,25,000        | Fixed assets purchased | 1,65,000        |     |
|     | Issue of share capital      | 50,000          | Income tax paid        | 40,000          |     |
|     | Premium on issue of shares  | 5,000           | Interim dividend paid  | 20,000          |     |
|     | Decrease in working capital | 5,000           | Debentures redeemed    | 60,000          |     |
|     |                             | <b>2,85,000</b> |                        | <b>2,85,000</b> |     |



**Illu.20 : From the following Balance Sheets of Ramu Ltd. you are requested to Prepare (a) a statement of changes in working capital and (b) a statement of sources and uses of funds :**

| <b>Liabilities</b>              | <b>2004 Rs.</b> | <b>2005 Rs.</b> |
|---------------------------------|-----------------|-----------------|
| <b>Share capital</b>            | <b>1,05,000</b> | <b>1,30,500</b> |
| <b>Retained Earnings</b>        | <b>45,000</b>   | <b>58,500</b>   |
| <b>8% Debentures</b>            | <b>66,000</b>   | <b>66,000</b>   |
| <b>Current liabilities</b>      | <b>90,000</b>   | <b>96,000</b>   |
| <b>Accumulated depreciation</b> | <b>15,000</b>   | <b>8,400</b>    |
|                                 | <b>3,21,000</b> | <b>3,59,400</b> |

| <b>Assets</b>                 | <b>2004 Rs.</b> | <b>2005 Rs.</b> |
|-------------------------------|-----------------|-----------------|
| <b>Land &amp; Buildings</b>   | <b>72,000</b>   | <b>60,000</b>   |
| <b>Equipment</b>              | <b>45,000</b>   | <b>51,000</b>   |
| <b>Patents</b>                | <b>3,000</b>    | <b>2,700</b>    |
| <b>Stock</b>                  | <b>45,000</b>   | <b>45,000</b>   |
| <b>Accounts receivable</b>    | <b>30,000</b>   | <b>62,100</b>   |
| <b>Cash &amp; Bank</b>        | <b>1,20,000</b> | <b>1,33,200</b> |
| <b>Discount on Debentures</b> | <b>6,000</b>    | <b>5,400</b>    |
|                               | <b>3,21,000</b> | <b>3,59,400</b> |

**Additional Information :**

- (a) Income for the period Rs.30,000**
- (b) Dividends paid during the year Rs.6,000**
- (c) Bonus shares issued during the year Rs.10,500. Shares worth Rs.15,000 were issued to public in the year.**
- (d) A building that costs Rs.12,000 and had a book value of Rs.3,000 was sold for Rs.4,200**
- (e) The depreciation charge for the period was Rs.2,400.**

**Solution :****Schedule of changes in working capital**

| Particulars                            | 2004<br>Rs.     | 2005<br>Rs.     | Increase<br>Rs. | Decrease<br>Rs. |
|--|-----------------|-----------------|-----------------|-----------------|
| <b>Current Assets :</b>                |                 |                 |                 |                 |
| Stock                                  | 45,000          | 45,000          |                 |                 |
| Accounts receivable                    | 30,000          | 62,100          | 32,100          |                 |
| Cash bank                              | 1,20,000        | 1,33,200        | 13,200          |                 |
| <b>Total Current Assets (A)</b>        | <b>1,95,000</b> | <b>2,40,300</b> |                 |                 |
| Current liabilities                    | 90,000          | 96,000          |                 | 6,000           |
| <b>Total Current Liabilities</b>       | <b>90,000</b>   | <b>96,000</b>   |                 |                 |
| <b>Working capital</b>                 | <b>1,05,000</b> | <b>1,44,300</b> |                 |                 |
| <b>Net increase in working capital</b> |                 |                 |                 | 39,300          |
|  |                 |                 | <b>45,300</b>   | <b>45,300</b>   |

Dr.

**Funds Flow Statement**

Cr.

| Sources               | Rs.           | Application                 | Rs.           |
|-----------------------|---------------|-----------------------------|---------------|
| Issue of shares       | 15,000        | Purchase equipment          | 6,000         |
| Sale of buildings     | 4,200         | Dividends paid              | 6,000         |
| Funds from operations | 32,100        | Increase in working capital | 39,300        |
|                       | <b>51,300</b> |                             | <b>51,300</b> |

**Working Notes :**

Dr.

**Accumulated Depreciation Account**

Cr.

|                     | Rs.           |                      | Rs.           |
|---------------------|---------------|----------------------|---------------|
| To Land & Buildings | 9,000         | By Balance b/d       | 15,000        |
| To Balance c/d      | 8,400         | By Profit & Loss a/c | 2,400         |
|                     | <b>17,400</b> |                      | <b>17,400</b> |

| Dr.                  | <b>Land and Buildings Account</b> |                             | Cr.           |
|----------------------|-----------------------------------|-----------------------------|---------------|
|                      | Rs.                               |                             | Rs.           |
| To Balance b/d       | 72,000                            | By Accumulated Depreciation | 9,000         |
| To Profit & Loss a/c | 1,200                             | By Banks                    | 4,200         |
|                      |                                   | By Balance c/d              | 60,000        |
|                      | <b>73,200</b>                     |                             | <b>73,200</b> |

| Dr.             | <b>Retained Earnings Account</b> |                          | Cr.           |
|-----------------|----------------------------------|--------------------------|---------------|
|                 | Rs.                              |                          | Rs.           |
| To Dividends    | 6,000                            | By Balance b/d           | 45,000        |
| To Bonus shares | 10,500                           | By Income for the period | 30,000        |
| To Balance c/d  | 58,500                           |                          |               |
|                 | <b>75,000</b>                    |                          | <b>75,000</b> |

#### Funds from operations

|  | Rs.           |
|--|---------------|
| Income for the period                    | 30,000        |
| <b>Add:</b> Depreciation written off     | 2,400         |
| Patents written off                      | 300           |
| Discount on debentures                   | 600           |
|  | <b>33,300</b> |
| <b>Less:</b> Profit on sale of buildings | 1,200         |
| <b>Funds from operations</b>             | <b>32,100</b> |

**Illu.21 : The following are the summarised Balance Sheet of RIL Ltd. as on 31-12-2003 and 31-12-2004:**

| Liabilities           | 31-12-03      | 31-12-04      | Assets              | 31-12-03      | 31-12-04      |
|-----------------------|---------------|---------------|---------------------|---------------|---------------|
|                       | Rs.           | Rs.           |                     | Rs.           | Rs.           |
| <b>Equity Capital</b> | <b>80,000</b> | <b>80,000</b> | <b>Fixed Assets</b> | <b>82,000</b> | <b>80,000</b> |

|                                 |          |          |                  |          |          |
|---------------------------------|----------|----------|------------------|----------|----------|
| 7% Redeemable preference shares | -        | 20,000   | - Depreciation   | 22,000   | 30,000   |
| General Reserve                 | 4,000    | 4,000    |                  | 60,000   | 50,000   |
| P & L a/c                       | 2,000    | 2,400    | Current Assets:  |          |          |
| Debtors                         | 12,000   | 14,000   | Debtors          | 40,000   | 48,000   |
| Creditors                       | 24,000   | 22,000   | Stock            | 60,000   | 70,000   |
| Provision for Tax               | 6,000    | 8,400    | Prepaid expenses | 600      | 1,000    |
| Proposed Dividend               | 10,000   | 11,600   | Cash             | 2,400    | 7,000    |
| Bank overdraft                  | 25,000   | 13,600   |                  |          |          |
|                                 | 1,63,000 | 1,76,000 |                  | 1,63,000 | 1,76,000 |

You are required to prepare:

- (a) Statement of changes in working capital
- (b) Statement of sources and application of funds.

**Solution :**

- (i) Schedule of changes in working capital :

| Particulars                     | 2003<br>(Rs.)   | 2004<br>(Rs.)   | Effect on working capital |                   |
|---------------------------------|-----------------|-----------------|---------------------------|-------------------|
|                                 |                 |                 | Increase<br>(Rs.)         | Decrease<br>(Rs.) |
| <b>I. Current Assets :</b>      |                 |                 |                           |                   |
| Debtors                         | 40,000          | 48,000          | 8,000                     |                   |
| Stock                           | 60,000          | 70,000          | 10,000                    |                   |
| Prepaid expenses                | 600             | 1,000           | 400                       |                   |
| Cash                            | 2,400           | 7,000           | 4,600                     |                   |
| <b>Total Current Assets (A)</b> | <b>1,03,000</b> | <b>1,26,000</b> |                           |                   |

| <b>II. Current liabilities :</b> |               |               |               |               |
|----------------------------------|---------------|---------------|---------------|---------------|
| Creditors                        | 24,000        | 22,000        | 2,000         |               |
| Provision for tax                | 6,000         | 8,400         |               | 2,400         |
| Proposed dividend                | 10,000        | 11,600        |               | 1,600         |
| Bank overdraft                   | 25,000        | 13,600        | 11,400        |               |
| Total Current liabilities (B)    | <b>65,000</b> | <b>55,600</b> |               |               |
| Working capital (A – B)          | 38,000        | 70,400        |               |               |
| Increase in working capital      | 32,400        | -             | -             | 32,400        |
|                                  | <b>70,400</b> | <b>70,400</b> | <b>36,400</b> | <b>36,400</b> |

**(ii) Funds from Operations**

| <b>Particulars</b>                                | <b>Amount<br/>Rs.</b> | <b>Particulars</b>                    | <b>Amount<br/>Rs.</b> |
|---|-----------------------|---------------------------------------|-----------------------|
| Depreciation on fixed assets<br>(30,000 – 22,000) | 8,000                 | Opening balance                       | 2,000                 |
| Closing balance                                   | 2,400                 | Funds from operators<br>(Balance c/d) | 8,400                 |
|   | <b>10,400</b>         |                                       | <b>10,400</b>         |

**(iii) Funds Flow Statement**

| <b>Sources</b>                           | <b>Amount<br/>Rs.</b> | <b>Application</b>          | <b>Amount<br/>Rs.</b> |
|--|-----------------------|-----------------------------|-----------------------|
| Issue of Redeemable<br>preference shares | 20,000                | Increase in working capital | 32,400                |
| Issue of debentures                      | 2,000                 |                             |                       |
| Sale of Fixed Assets                     | 2,000                 |                             |                       |
| Funds from operators                     | 8,400                 |                             |                       |
|  | <b>32,400</b>         |                             | <b>32,400</b>         |

**Illu.22 :** From the following balance sheets of A Ltd., make out the statement of sources and uses of funds .

| Liabilities                     | 2000 Rs. | 2001 Rs. | Assets             | 2000 Rs. | 2001 Rs. |
|---------------------------------|----------|----------|--------------------|----------|----------|
| Equity share capital            | 3,00,000 | 4,00,000 | Goodwill           | 1,15,000 | 90,000   |
| 8% Redeemable Preference shares | 1,50,000 | 1,00,000 | Land and Buildings | 2,00,000 | 1,70,000 |
| General Reserve                 | 40,000   | 70,000   | Plant              | 80,000   | 20,000   |
| Profit and Loss a/c             | 30,000   | 48,000   | Debtors            | 1,60,000 | 2,00,000 |
| Proposed dividend               | 42,000   | 50,000   | Stock              | 77,000   | 2,09,000 |
| Creditors                       | 55,000   | 83,000   | Bills receivable   | 20,000   | 30,000   |
| Bills payable                   | 20,000   | 16,000   | Cash in hand       | 15,000   | 90,000   |
| Provision for taxes             | 40,000   | 50,000   | Cash at Bank       | 10,000   | 8,000    |
|                                 | 6,77,000 | 8,17,000 |                    | 6,77,000 | 8,17,000 |

**Additional information :**

- (i) Depreciation of Rs.10,000 and Rs.20,000 have been charged on plant account and land and buildings account respectively in 2001.
- (ii) An interim dividend of Rs.20,000 has been paid in 2001.
- (iii) Income tax Rs.35,000 was paid during the year 2001.

**Solution :**

- (I) Schedule changes in working capital :

| Particulars      | 2000 (Rs.) | 2001 (Rs.) | Working capital |                |
|------------------|------------|------------|-----------------|----------------|
|                  |            |            | Increase (Rs.)  | Decrease (Rs.) |
| Current Assets : |            |            |                 |                |

|                                      |                 |                 |                 |                 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Debtors                              | 1,60,000        | 2,00,000        | 40,000          | -               |
| Stock                                | 77,000          | 2,09,000        | 1,32,000        | -               |
| Bills receivable                     | 20,000          | 30,000          | 10,000          | -               |
| Cash in hand                         | 15,000          | 90,000          | 75,000          |                 |
| Cash at bank                         | 10,000          | 8,000           | -               | 2,000           |
| <b>Total Current Assets (A)</b>      | <b>2,82,000</b> | <b>5,37,000</b> |                 |                 |
| <b>Current liabilities :</b>         |                 |                 |                 |                 |
| Creditors                            | 55,000          | 83,000          | -               | 28,000          |
| Bills payable                        | 20,000          | 16,000          | 4,000           | -               |
| <b>Total Current Liabilities (B)</b> | <b>75,000</b>   | <b>99,000</b>   |                 |                 |
| Working capital (A – B)              | 2,07,000        | 4,38,000        |                 |                 |
| Increase in working capital          | 2,31,000        | -               |                 | 2,31,000        |
|                                      | <b>4,38,000</b> | <b>4,38,000</b> | <b>2,61,000</b> | <b>2,61,000</b> |

## (II) Funds from operations

| Dr.                            | Amount<br>Rs.   | Cr.   | Amount Rs.      |
|--------------------------------|-----------------|---|-----------------|
| To Goodwill written off        | 25,000          | By Opening balance                          | 30,000          |
| To Depreciation on plant       | 10,000          | By Funds from operations<br>(Balancing Fig) | 1,76,000        |
| To Depreciation on buildings   | 20,000          |   |                 |
| To Increase in general reserve | 30,000          |   |                 |
| To Income tax                  | 45,000          |   |                 |
| To Proposed dividend           | 28,000          |   |                 |
| To Closing Balance             | 48,000          |   |                 |
|                                | <b>2,06,000</b> |   | <b>2,06,000</b> |

**Funds Flow Statement**

| <b>Sources</b>                   | <b>Amount<br/>Rs.</b> | <b>Application</b>                     | <b>Amount Rs.</b> |
|----------------------------------|-----------------------|--|-------------------|
| Increase in Equity share capital | 1,00,000              | Redemption of preference share capital | 50,000            |
| Sale of buildings                | 10,000                | Income tax paid                        | 35,000            |
| Sale of plant                    | 50,000                | Dividend paid                          | 20,000            |
| Funds from operations            | 1,76,000              | Increase in working capital            | 2,31,000          |
|                                  | <b>3,36,000</b>       |  | <b>3,36,000</b>   |

**Working Notes :****Building's a/c**

Dr.

Cr.

| <b>Particulars</b> | <b>Amount<br/>Rs.</b> | <b>Particulars</b>              | <b>Amount<br/>Rs.</b> |
|--------------------|-----------------------|---------------------------------|-----------------------|
| To Opening balance | 2,00,000              | By Depreciation                 | 20,000                |
|                    |                       | By Sale of Buildings (Bal. fig) | 10,000                |
|                    |                       | By Closing balance              | 1,70,000              |
|                    | <b>2,00,000</b>       |                                 | <b>2,00,000</b>       |

**Plant a/c**

Dr.

Cr.

| <b>Particulars</b> | <b>Amount<br/>Rs.</b> | <b>Particulars</b>          | <b>Amount<br/>Rs.</b> |
|--------------------|-----------------------|-----------------------------|-----------------------|
| To Opening balance | 80,000                | By Depreciation             | 10,000                |
|                    |                       | By Sale of Plant (Bal. Fig) | 50,000                |
|                    |                       | By Closing balance          | 20,000                |
|                    | <b>80,000</b>         |                             | <b>80,000</b>         |



**Provision for Tax a/c**

| Dr.                |               | Cr.                |               |
|--------------------|---------------|--------------------|---------------|
| Particulars        | Amount<br>Rs. | Particulars        | Amount<br>Rs. |
| To Income tax paid | 35,000        | By Opening balance | 40,000        |
| To Closing balance | 50,000        | By Balance c/d     | 45,000        |
|                    | <b>85,000</b> |                    | <b>85,000</b> |

**Proposed Dividend a/c**

| Dr.                      |               | Cr.                |               |
|--------------------------|---------------|--------------------|---------------|
| Particulars              | Amount<br>Rs. | Particulars        | Amount<br>Rs. |
| To Interim dividend paid | 20,000        | By Opening balance | 42,000        |
| To Closing balance       | 50,000        | By Balance c/d     | 28,000        |
|                          | <b>70,000</b> |                    | <b>70,000</b> |

**17.5 QUESTIONS:**

1. What is Funds Flow Analysis?
2. What are the sources and Applications of Funds
3. Draw a Proforma Funds Flow Statement
4. How do you the Statement of Changes in Working Capital position help in Funds flow Analysis?
5. What are the uses of Funds Flow Statement? What are its disadvantages?
6. Income statement concentrates on operating part while Funds Flow statement throws light on the activities and the direction of operations. Comment.

**17.6 EXERCISES :**

1. Calculate funds from operations from the following:

Net profit for the year Rs.80,000  
 Administrative expenses Rs.20,000  
 Depreciation Rs.42,000  
 Loss on sale of Machinery Rs.10,000  
 Interest on investments Rs.5,000  
 Selling and distribution expenses Rs.15,000

**[Ans.: Funds from Operations Rs.1,27,000]**

2. The following were the Balance Sheet of XYZ Co. Ltd. as on 31<sup>st</sup> March 2002 and 2003.

| Liabilities       | 31-3-02<br>Rs.  | 31-3-03<br>Rs.  | Assets               | 31-3-02<br>Rs.  | 31-3-03<br>Rs.  |
|-------------------|-----------------|-----------------|----------------------|-----------------|-----------------|
| Share capital     | 2,64,000        | 3,96,000        | Land & Buildings     | 1,66,200        | 3,39,600        |
| General Reserve   | 18,000          | 27,000          | Machinery            | 1,06,800        | 1,53,900        |
| P & L a/c         | 58,500          | 62,400          | Furniture            | 7,200           | 4,500           |
| 12% Debentures    | 10,000          | 78,000          | Stock                | 66,300          | 78,000          |
| Provision for Tax | 29,400          | 37,700          | Debtors              | 1,09,500        | 1,17,300        |
| Creditors         | 1,00,500        | 1,09,200        | Cash at Bank         | 14,400          | 12,000          |
|                   |                 |                 | Preliminary expenses | 10,000          | 5,000           |
|                   | <b>4,80,400</b> | <b>7,10,300</b> |                      | <b>4,80,400</b> | <b>7,10,300</b> |

You are required to prepare funds flow statement after taking into account the following:

- Depreciation written off during year
  - On Buildings Rs.20,400
  - On Machinery Rs.38,400
  - On Furniture Rs.1,200
- Interim dividend paid during the year Rs.26,000
- Income tax paid Rs.30,000.

**[Ans.: Net increase in working capital Rs.8,400; Funds from operations Rs.1,42,200]**

3. The following are the summarised balance sheets of M/s Vivek Ltd. on 31<sup>st</sup> December, 2003 and 31<sup>st</sup> December, 2004.

| Liabilities                        | 2003 (Rs.) | 2004 (Rs.) |
|------------------------------------|------------|------------|
| Share capital                      | 12,00,000  | 16,00,000  |
| Debentures                         | 4,00,000   | 6,00,000   |
| Profit & Loss Account              | 2,50,000   | 5,00,000   |
| Creditors                          | 2,30,000   | 1,80,000   |
| Provision for :                    |            |            |
| Bad and doubtful debts             | 12,000     | 6,000      |
| Depreciation on land and buildings | 40,000     | 48,000     |
| Depreciation on plant & Machinery  | 60,000     | 70,000     |
|                                    | 21,92,000  | 30,04,000  |
| Assets :                           |            |            |
| Plant and Machinery (at cost)      | 8,00,000   | 12,90,000  |
| Land and buildings (at cost)       | 6,00,000   | 8,00,000   |
| Stock                              | 6,00,000   | 7,00,000   |
| Bank                               | 40,000     | 80,000     |
| Preliminary expenses               | 14,000     | 12,000     |
| Debtors                            | 1,38,000   | 1,22,000   |
|                                    | 21,92,000  | 30,04,000  |

Additional Information :

- (a) During the year a part of the machinery costing Rs.1,40,000 (accumulated depreciation thereon Rs.4,000) was sold for Rs.12,000.
- (b) Dividend for Rs.1,00,000 was paid during the year.

Ascertain :

- (i) Change in working capital for 2004
- (ii) Funds Flow statement for 2004.

**[Ans.: Net increase in working capital Rs.1,74,000; Funds from operations Rs.4,92,000]**

4. From the following Balance Sheets of B Ltd., prepare a source and uses of funds statement for 2004.

| Assets                | 31 <sup>st</sup> December,<br>2004 (Rs.) | 31 <sup>st</sup> December,<br>2003 (Rs.) |
|-----------------------|--|--|
| Cash                  | 75,000                                   | 35,000                                   |
| Accounts receivable   | 90,000                                   | 98,000                                   |
| Merchandise inventory | 1,20,000                                 | 87,000                                   |

|                                     |          |          |
|-------------------------------------|----------|----------|
| Long term investments               | 10,000   | 15,000   |
| Land                                | 30,000   | 20,000   |
|                                     | 3,25,000 | 2,55,000 |
| <b>Liabilities and Stockholders</b> |          |          |
| Equity accounts payable             | 45,000   | 50,000   |
| Notes payable (short term)          | 35,000   | 20,000   |
| Notes payable (due December, 2005)  | 20,000   | -        |
| Capital stock                       | 1,50,000 | 1,25,000 |
| Retailed earnings                   | 75,000   | 60,000   |
|                                     | 3,25,000 | 2,55,000 |

**[Ans.: Increase in working capital Rs.35,000; Funds from operations Rs.15,000]**

5. Seeta Mahalakshmi Ltd., presents the following financial statements for 2000 and 2001. Prepare a source and Application of funds statement:

|                      | 2000 Rs.         | 2001 Rs.         |
|----------------------|------------------|------------------|
| <b>Assets</b>        |                  |                  |
| Cash                 | 1,06,000         | 62,000           |
| Investments          | 1,74,000         | -                |
| Sundry Debtors       | 6,92,000         | 10,56,000        |
| Stock in trade       | 8,64,000         | 13,66,000        |
| Net fixed assets     | 22,26,000        | 27,96,000        |
|                      | <b>40,62,000</b> | <b>52,80,000</b> |
| <b>Liabilities</b>   |                  |                  |
| Sundry Creditors     | 8,26,000         | 12,54,000        |
| Bills payable        | 4,52,000         | 6,28,000         |
| Loan from bank       | 2,00,000         | 4,70,000         |
| Reserves and surplus | 13,84,000        | 17,28,000        |
| Share capital        | 12,00,000        | 12,00,000        |
|                      | <b>40,62,000</b> | <b>52,80,000</b> |

Depreciation of Rs.3,78,000 was written off for 2001 on fixed assets.

**[Ans.: Increase in working capital Rs.44,000; Funds from operations Rs.7,22,000]**

6. From the following Balance Sheet as on 31<sup>st</sup> December 2003 and 31<sup>st</sup> December 2004 you are required to prepare a schedule of changes in the working capital and a funds flow statement taking the provision for tax and proposed dividends as non – current liabilities.

| Liabilities          | As on<br>2003 Rs. | 31 <sup>st</sup> Dec.<br>2003 Rs. | Assets       | As on<br>2003 Rs. | 31 <sup>st</sup> Dec.<br>2003 Rs. |
|----------------------|-------------------|-----------------------------------|--------------|-------------------|-----------------------------------|
| Share capital        | 10,000            | 15,000                            | Fixed Assets | 10,000            | 20,000                            |
| Profit and loss a/c  | 4,000             | 6,000                             | Current      | 13,000            | 14,500                            |
| Provision for tax    | 2,000             | 3,000                             |              |                   |                                   |
| Proposed Dividends   | 1,000             | 1,500                             |              |                   |                                   |
| Sundry Creditors     | 4,000             | 6,000                             |              |                   |                                   |
| Outstanding expenses | 2,000             | 3,000                             |              |                   |                                   |
|                      | <b>23,000</b>     | <b>34,500</b>                     |              | <b>23,000</b>     | <b>34,500</b>                     |

Additional Information:

- (a) Tax paid during 2004 Rs.2,500
- (b) Dividends paid during 2004 Rs.1,000

**[Ans.: Net decrease in working capital Rs.1,500; Funds from operations Rs.7,000]**

## 17.7 SUGGESTED READINGS :

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## Chapter - 18

# Cash Flow Analysis

### Objectives :

After reading this lesson you should be able to :

- Know the meaning of cash flow analysis
- Classify cash flow on the basis of operations investment and financing
- Discuss the treatment of some items in the preparation of cash flow statement.
- Prepare a Cash flow statement using the direct and indirect methods

### Structure :

18.1 Introduction

18.2 Meaning of Cash Flow

18.3 Classification of Cash flow

18.4 Treatment of other items

18.5 Preparation of Cash Flow Statement

18.6 Calculation of Cash Flows from operations or  
Operating Activities

18.7 Questions

18.8 Exercises

18.9 Suggested Readings

### 18.1 INTRODUCTION :

A cash flow statement presents a summary of investment, dividend and financing decisions with a focus on movements in cash and cash equivalents during the reporting period. A fund flow statement explains changes in working capital, while a cash flow statement explains changes in the cash balance (including cash equivalents). Balance is in the cash credit account and bank

overdraft account should be treated as a part of the cash balance. Cash flow statement is considered superior to fund flow statement in terms of 'decision usefulness'. A cash flow statement helps to assess the ability of the firm to generate and use cash to the benefit of shareholders. It helps to estimate the amount, timing and uncertainty of future cash flows.

A cash flow statement is not very much different from a funds flow statement. In fact, the main difference between funds flow statement and cash flow statement relates to meaning and concept of the term 'fund'. The term 'fund' as used in funds flow statement means not working capital i.e., the difference between current assets and current liabilities. But in a cash flow statement the term 'fund' means cash.

### **18.1.1. Concept of Cash Flow :**

As per Accounting Standard (AS – 3) issued by the Institute of Chartered Accountants of India, the term cash includes :

1. Cash in hand,
2. Demand deposits with banks.
3. Cash equivalents. These are short term highly liquid investments that are readily convertible into known amounts of cash and which are subject to an insignificant risk of changes in value.

## **18.2 MEANING OF CASH FLOW :**

Cash flow means inflow and outflow of cash. An inflow i.e., source of cash increases the total cash available at the disposal of the firm while an outflow i.e., use of cash decreases it. The difference between cash inflows and cash outflow is known as net cash flow which can be either net cash inflow or net cash outflow.

It should be noted that cash flow statement deals with flow of cash fund but does not consider movement among cash, bank balance and cash equivalents. This is in line with funds flow statement which exclude movements between items that constitute working capital i.e., current assets and current liabilities.

## **18.3 CLASSIFICATION OF CASH FLOWS :**

Accounting Standard (As – 3) requires that cash flow statement should report cash flow during the period classified by operating, investing and financing activities.



- 1. Operating Activities** : Operating activities are the principal revenue activities of the enterprise. Cash flows from these activities result from transactions and other events that enter into the determination of net profit or loss. Examples of cash flow from operations are :

  - (i) Cash receipts from the sale of goods and the rendering of services usually forms a major share of cash inflow.
  - (ii) Cash receipts from royalties, fees, commission and other revenue.
  - (iii) Cash payment to suppliers for goods and services, such as payment of expenses like lighting and power, rent, insurance etc.
  - (iv) Cash payment of wages and salaries to employees.
  - (v) Cash payments or refunds of income taxes unless they can be specifically identified with financing and investing activities, etc.
- 2. Investing Activities** : These are the acquisitions and disposal of long term assets (such as plant, machinery, furniture, land and building etc.) and other investments not included in cash equivalents. Examples of cash flow arising from investing activities are :

  - (i) Cash receipts from disposal of fixed assets.
  - (ii) Cash payments to acquire fixed assets.
  - (iii) Cash payment to acquire shares / debentures of other enterprises.
  - (iv) Cash receipts from disposal of shares, debentures of other enterprises.
  - (v) Cash advances and loans made to third parties.
  - (vi) Cash receipts from repayment of advances and loans made to third parties.
- 3. Financing Activities** : These are the activities that result in changes in the size and composition of the owner's capital and borrowings of the enterprise. Examples of cash flows arising from financing activities are :

  - (i) Cash receipts from issue of shares and debentures
  - (ii) Cash receipts from loans raised.
  - (iii) Cash payments for redemption of preference shares and debentures.

## 18.4 TREATMENT OF OTHER ITEMS :

### 1. Interest and Dividends :

- (i) In case of a financing enterprise, cash flows from interest paid and interest and dividend received should be treated as cash flows from operating activities. Dividends paid should be classified as cash flows from financing activities.
- (ii) In the case of other enterprises, cash flows arising from interest and dividend paid should be classified as cash flows from financing activities while interest and dividend received should be classified as cash flows from investing activities.

Net profit is adjusted for non-operating expenses and incomes for calculating operating profits as shown below :

|                                      |       |
|--------------------------------------|-------|
| Net profit                           | ..... |
| <b>Add:</b> Non – operating expenses | ....  |
| <b>Less:</b> Non – operating incomes | ..... |
|                                      | ----- |
| Net operating profit                 | ..... |
|                                      | ----- |

2. **Income Tax** : Cash flows arising from income tax should be classified as flows from operating activities unless they can be specifically identified with financing and investing activities. For example, capital gain tax on sale of land can be identified with investing activity and therefore in the cash flow statement, it should be shown as outflow from investing activities.
3. **Extra ordinary items** : The cash flows associated with extra ordinary items should be classified as arising from operating, investing or financing activities as appropriate and separately disclosed. For example, legal claim, cost of winning a law suit or lottery, receipt of claim from an insurance company etc. are extra ordinary items.
4. **Non Cash Transactions** : There are certain transactions which do not involve cash inflow or cash outflow. Although they do effect the capital and assets of an enterprise, they are excluded from cash flow statement for obvious reasons. Examples non – cash transactions are :
  - (i) Acquisition of assets by issue of shares / debentures.
  - (ii) Conversion of convertible debentures into shares.

- (iii) Acquisition of a fixed asset, say machinery, on credit etc.

## 18.5 PREPARATION OF CASH FLOW STATEMENT :

The procedure used for the preparation of a cash flow statement is as follows :

- Calculation of net increase or decrease in cash and cash equivalents accounts – The difference between cash and cash equivalents for the period may be computed by comparing these accounts given in the comparative balance sheets. The results will be cash receipts and payments during the period responsible for the increase or decrease in cash and cash equivalent items.
- Calculation of the net cash provided or used by operating activities – It is by the analysis of profit and loss account, comparative balance sheet and selected additional information.
- Calculation of the net cash provided or used by investing and financing activities. All other changes in the Balance sheet items must be analysed taking into account the additional information and effect on cash may be grouped under the investing and financing activities.
- Preparation of a cash flow statement. It may be prepared by classifying all cash inflows and outflows in terms of operating, investing and financing activities. The net cash flow provided or used in each of these three activities may be highlighted.
- Ensure that the aggregate of net cash flows from operating, investing and financing activities is equal to net increase or decrease in cash and cash equivalents.
- Report any significant investing, financing transactions that did not involve cash or cash equivalents in a separate schedule to the cash flow statement.

As – 3 has not prescribed any specific format of cash flow statement but SEBI requires the cash flow statement to be prepared in the following form.

### Proforma of Cash Flow Statement

|   | Rs. | Rs. |
|---|-----|-----|
| <b>Cash Flows from Operating Activities :</b>                     |     |     |
| Net profit before tax and extra ordinary items adjustment for :   |     |     |
| Depreciation  | -   |     |
| Interest income   | -   |     |
| Dividend income   | -   |     |
| Interest expense  | -   |     |
| Foreign exchange loss   | -   |     |
| Operating profit before working capital changes                   | -   |     |
| Adjustments for changes in current assets and current liabilities | -   |     |
| Cash generated from or used in operations before tax              | -   |     |
| Income tax paid   | -   |     |
| Cash flow before extra ordinary items                             | -   |     |
| Extra ordinary items  | -   |     |
| Net cash from (or used in) operating activities                   | -   |     |
| <b>Cash Flows from Investing activities</b>                       | -   | -   |
| Purchase of fixed assets  | -   |     |
| Proceeds from sale of fixed assets                                | -   |     |
| Interest and dividend received                                    | -   |     |
| Net cash from (or used in) investing activities                   | -   |     |
| <b>Cash Flows from Financing Activities</b>                       | -   |     |
| Proceeds from issue of shares / debentures                        | -   |     |
| Proceeds from long term borrowings                                | -   |     |
| Repayment of long term borrowings                                 | -   |     |
| Interest paid   | -   |     |
| Dividends paid  | -   |     |
| Net cash from (or used in) financing activities                   | -   |     |
| <b>Net increase (or Decrease) in Cash and cash equivalents</b>    |     | -   |
| Cash and cash equivalents at the beginning of the period          |     | -   |

|  |  |   |
|--|--|---|
| Cash and cash equivalents at the end of the period |  | - |
|--|--|---|

## 18.6 CALCULATION OF CASH FLOWS FROM OPERATIONS OR OPERATING ACTIVITIES :

There are two methods of calculating cash flows from operating activities :

(a) Direct method, and (b) Indirect method.

**(a) Direct method** : Under this method, cash receipts from operating revenues and cash payments for operating expenses are calculated and shown in the cash flow statement. The difference between the total cash receipts and total cash payments as shown as the net cash flow from operating activities. Examples of usual cash receipts and payments resulting from operating activities are :

- (i) Cash sales of goods and services.
- (ii) Cash received from debtors.
- (iii) Cash payment for purchase of inventories.
- (iv) Cash payment to creditors.
- (v) Cash payment for wages, salaries and other operating expenses.
- (vi) Cash payment of income tax, etc.

There are many items which appear in the Profit and Loss Account on accrual basis. Necessary adjustments are made to these items to convert them into cash based items.

**(b) Indirect Method** : Under the indirect method, the net cash from operating activities is determined by making necessary adjustments in the net profit (or loss) as disclosed by Profit and Loss Account. Adjustments in net profit or loss are for the effects of :

- (a) Non – cash items like depreciation;
- (b) Changes during the period in inventories and operating receivables and payable;
- (c) All other items for which cash effects are investing and financing cash flows.

The indirect method is also known as 'Reconciliation Method' as it involves a reconciliation of the net profit with net cash flows operating activities.

The method of calculating cash from operating activities is as follows :

|  | <b>Rs.</b> |
|--|------------|
| <b>Net Profit for the year</b>   |            |
| <b>Add:</b> Non cash and non – operating expenses  |            |
| - Depreciation   |            |
| - Goodwill written off   |            |
| - Preliminary expenses written off   |            |
| - share discount written off   |            |
| - loss on sale of fixed assets, investments, etc.  |            |
| - Provision for taxation   |            |
| <b>Less :</b> Non cash and non – operating incomes   |            |
| Profit on sale of fixed assets, investments, etc.  |            |
| <b>Net profit after adjustment for non – cash items</b>  | -          |
| Adjustments for changes in current operating assets (except cash and cash equivalents) and current operating liabilities (except bank overdraft) |            |
| <b>Add:</b> 1. Increase in current liabilities   |            |
| 2. Decrease in current assets  |            |
| <b>Less:</b> 1. Increase in current assets   |            |
| 2. Decrease in current liabilities   |            |
| <b>Less:</b> Income tax paid   |            |
| <b>Cash from operating activities</b>  | -          |

**Illu.1 : From the following balance sheets prepare Cash Flow Statement:**

| Liabilities       | 31-3-2005 | 31-3-2006 | Assets      | 31-3-2005 | 31-3-    |
|-------------------|-----------|-----------|-------------|-----------|----------|
|                   | Rs.       | Rs.       |             | Rs.       | 2006 Rs. |
| Share capital     | 20,000    | 28,000    | Goodwill    | 16,000    | 13,000   |
| Profit & Loss a/c | 10,000    | 13,000    | Land        | 10,000    | 20,000   |
| General Reserve   | 8,000     | 10,000    | Machinery   | 25,000    | 50,000   |
| 12% Debentures    | 25,000    | 35,000    | Investments | 10,000    | 12,000   |
| Creditors         | 26,000    | 30,000    | Stock       | 20,000    | 15,000   |

|                          |               |                 |                |               |                 |
|--------------------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Provision for tax</b> | <b>10,000</b> | <b>14,000</b>   | <b>Debtors</b> | <b>10,000</b> | <b>13,000</b>   |
|                          |               |                 | <b>Cash</b>    | <b>8,000</b>  | <b>7,000</b>    |
|                          | <b>99,000</b> | <b>1,30,000</b> |                | <b>99,000</b> | <b>1,30,000</b> |

**Additional Information:**

- (a) Investments costing Rs.5,000 sold for Rs.6,000 during the year.  
 (b) Depreciation charged on Machinery was Rs.5,000

**Solution :**

**Cash Flow Statement**  
**(for the year ended 31<sup>st</sup> March 2006)**

|   | Rs.           | Rs.           |
|---|---------------|---------------|
| <b>Cash flows from operating activities:</b>                                    |               |               |
| Increase in balance of P & L a/c  | 3,000         |               |
| Adjustments for non- cash and non – operating items:                            |               |               |
| Transfer to general reserve   | 2,000         |               |
| Depreciation Machinery  | 5,000         |               |
| Profit on sale of investments   | (-) 1,000     |               |
| Goodwill written off  | 3,000         |               |
| <b>Operating profit before working capital changes (A)</b>                      | <b>12,000</b> |               |
| Adjustments for changes in current assets and current liabilities:              |               |               |
| Increase in creditors   | 4,000         |               |
| Increase in provision for tax   | 4,000         |               |
| Increase in debtors   | (3,000)       |               |
| Decrease in stock   | 5,000         |               |
| <b>Total Decrease in Current assets and increase in current liabilities (B)</b> | <b>10,000</b> |               |
| <b>Cash generating from operations (A – B)</b>                                  | <b>22,000</b> |               |
| Income tax paid   | -             |               |
| <b>Net cash from operating activities</b>                                       |               | <b>22,000</b> |
| Cash flows from investing activities:   |               |               |

|  |          |                   |
|--|----------|-------------------|
| Purchase of Land                             | (10,000) |                   |
| Purchase of Machinery                        | (30,000) |                   |
| Purchase of Investments                      | (7,000)  |                   |
| Sale of investments                          | 6,000    |                   |
| <b>Net cash used in investing activities</b> |          | 41,000            |
|  |          | <b>(-) 19,000</b> |
| <b>Cash flows from financing activities:</b> |          |                   |
| Proceeds from issue of shares                | 8,000    |                   |
| Proceeds from 12% Debentures                 | 10,000   |                   |
| Net cash used in financing activities        |          | 18,000            |
| Net decrease in cash and cash equivalents    |          | (-) 1,000         |
| Cash and cash equivalent at the beginning    |          | 8,000             |
| Cash and Cash equivalent at the end          |          | <b>7,000</b>      |

**Illu.2 : Balance Sheets of M/s. A and B as on 1<sup>st</sup> January and 31<sup>st</sup> December 2006 were as follows:**

| <b>Liabilities</b>                   | <b>1-1-06</b>   | <b>31-12-06</b> | <b>Assets</b>    | <b>1-1-06</b>   | <b>31-12-06</b> |
|--------------------------------------|-----------------|-----------------|------------------|-----------------|-----------------|
| <b>Capital</b>                       | <b>2,25,000</b> | <b>2,85,000</b> | <b>Cash</b>      | <b>30,000</b>   | <b>39,000</b>   |
| <b>Mrs. B 's Loan</b>                | <b>45,000</b>   | <b>-</b>        | <b>Debtors</b>   | <b>81,000</b>   | <b>1,14,000</b> |
| <b>Loan from state Bank of India</b> | <b>90,000</b>   | <b>1,20,000</b> | <b>Stock</b>     | <b>72,000</b>   | <b>63,000</b>   |
| <b>Sundry creditors</b>              | <b>75,000</b>   | <b>84,000</b>   | <b>Furniture</b> | <b>3,000</b>    | <b>3,000</b>    |
|                                      |                 |                 | <b>Machinery</b> | <b>1,35,000</b> | <b>97,500</b>   |
|                                      |                 |                 | <b>Land</b>      | <b>54,000</b>   | <b>67,500</b>   |
|                                      |                 |                 | <b>Building</b>  | <b>60,000</b>   | <b>1,05,000</b> |
|                                      | <b>4,35,000</b> | <b>4,89,000</b> |                  | <b>4,35,000</b> | <b>4,89,000</b> |

**During the year a machine costing Rs.18,000 (accumulated depreciation on Rs.6,000) was sold for Rs.7,500. The provision for depreciation against machinery as on 1<sup>st</sup> January**



2006 was Rs.36,000 and on 1<sup>st</sup> December 2006 Rs.55,500. Net profit for the year 2006 amounted to Rs.90,000. You are required to prepare cash flow statement.

**Solution :**

| Particulars                          |  | Rs.      | Rs.           |
|--------------------------------------|--|----------|---------------|
| Cash flow from operating activities: |  |          |               |
| 1.                                   | <b>Net Profit as gives (for the year 2006) adjustment of non cash and non operating activities</b> | 90,000   |               |
|                                      | Depreciation   | 25,500   |               |
|                                      | Loss on sale of machinery  | 4,500    |               |
|                                      | Operating profit before work in price changes  | 1,20,000 |               |
|                                      | Decrease in stock (72,000 – 63,000)  | 9,000    |               |
|                                      | Increase in creditors (84,000 – 75,000)  | 9,000    |               |
|                                      | Increase in debtors (1,14,000 – 81,000)  | (33,000) |               |
|                                      | Net cash flow from operating activities  |          | 1,05,000      |
| ii)                                  | <b>Cash flow from investing activities:</b>  |          |               |
|                                      | Sale of machinery  | 7,500    |               |
|                                      | Purchase of land (67,500 – 54,000)   | (13,500) |               |
|                                      | Purchase of Buildings (1,05,000 – 60,000)  | (45,000) |               |
|                                      | Net cash flow from investing activities  |          | (-) 51,000    |
| iii)                                 | <b>Cash flow from financing activities</b>   |          |               |
|                                      | Loan from State Bank of India  | 30,000   |               |
|                                      | Mrs. B 's loan repaid  | (45,000) |               |
|                                      | Drawings   | (30,000) |               |
|                                      | Net Cash flow from financing activities  |          | (-) 45,000    |
|                                      | Net increase (decrease) in cash and cash equivalent  |          | 9,000         |
|                                      | Cash and cash equivalents as the beginning of the period   |          | 30,000        |
|                                      | Cash and cash equivalents at the end of the period   |          | <b>39,000</b> |

**Working Notes:**

| <b>Calculation of drawings:</b> | <b>Rs.</b>    |
|---------------------------------|---------------|
| Capital as on 1-1-06            | 2,25,000      |
| Add: Net profit                 | 90,000        |
|                                 | -----         |
|                                 | 3,15,000      |
| Less: Capital as on 31-12-06    | 2,25,000      |
|                                 | -----         |
| <b>Drawings</b>                 | <b>30,000</b> |
|                                 | -----         |

| <b>Calculation of depreciation charged</b>       | <b>Rs.</b> |
|--|------------|
| Depreciation on 1-1-06                           | 36,000     |
| Less: Depreciation transferred<br>on assets sole | 6,000      |
|  | -----      |
|  | 30,000     |
| Less: Depreciation as on<br>31-12-06             | 55,500     |
|  | -----      |
| Depreciation charged                             | 25,500     |
| Doubtful   | -----      |

**Illu.3 : Following are the Comparative Balance Sheet of XYZ Ltd. as on 31<sup>st</sup> December 2005 and 2006:**

| <b>Liabilities</b>           | <b>2005 Rs.</b> | <b>2006 Rs.</b> | <b>Assets</b>             | <b>2005 Rs.</b> | <b>2006 Rs.</b> |
|------------------------------|-----------------|-----------------|---------------------------|-----------------|-----------------|
| <b>Share capital</b>         | <b>3,50,000</b> | <b>3,70,000</b> | <b>Assets</b>             | <b>1,00,000</b> | <b>1,50,000</b> |
| <b>Profit &amp; Loss a/c</b> | <b>50,400</b>   | <b>52,800</b>   | <b>Stocks</b>             | <b>2,46,000</b> | <b>2,13,500</b> |
| <b>9% debentures</b>         | <b>60,000</b>   | <b>30,000</b>   | <b>Goodwill</b>           | <b>50,000</b>   | <b>25,000</b>   |
| <b>Creditors</b>             | <b>51,600</b>   | <b>59,200</b>   | <b>Cash and Bank Bal.</b> | <b>45,000</b>   | <b>39,000</b>   |
|                              |                 |                 | <b>Debtors</b>            | <b>71,000</b>   | <b>84,500</b>   |

|  |          |          |  |          |          |
|--|----------|----------|--|----------|----------|
|  | 5,12,000 | 5,12,000 |  | 5,12,000 | 5,12,000 |
|--|----------|----------|--|----------|----------|

Other particulars provided to you are:

(a) Dividends declared and paid during the year Rs.17,500

(b) Land was revalued during the year at Rs.1,50,000 and the profit on revaluation transferred to profit and Loss account.

You are required to prepare a cash flow statement for the year ended 31-12-2005.

**Solution :**

#### Cash from operations

| Particulars   | Rs.    | Rs.              |
|---|--------|------------------|
| Balance of profit as per P & L a/c on 31-12-2006              |        | 52,800           |
| <b>Add:</b> Non – cash and Non – operating expenses           |        |                  |
| Dividends declared  | 17,500 |                  |
| Goodwill written off  | 25,000 | 42,500           |
|   |        | <b>95,300</b>    |
| <b>Less:</b> Non – Cash and non – operating incomes           |        |                  |
| Profit on revaluation of land                                 | 50,000 | 50,000           |
|   |        | <b>45,300</b>    |
| <b>Less:</b> Balance of profit as per P & L a/c on 31-12-2005 |        | 50,400           |
| <b>Cash lost in operations</b>                                |        | <b>(-) 5,100</b> |

#### Cash Flow Statement

| Particulars                          | Rs.    | Rs.      |
|--------------------------------------|--------|----------|
| Balance of cash and bank on 1-1-2006 |        | 45,000   |
| <b>Sources:</b>                      |        |          |
| Issue of shares                      | 20,000 |          |
| Increase in Creditors                | 7,600  |          |
| Decrease in Stocks                   | 32,500 | 60,100   |
|                                      |        | 1,05,100 |

|  |        |        |
|--|--------|--------|
| <b>Applications:</b>                   |        |        |
| Redemption of debentures               | 30,000 |        |
| Increase in debtors                    | 13,500 |        |
| Dividends paid                         | 17,500 |        |
| Cash lost from operations              | 5,100  | 66,100 |
| Balance of cash and bank on 31-12-2006 |        | 39,000 |

**Illu.4 : From the following condensed comparative Balance sheet of Mysore Mills Ltd., and additional information, prepare a cash flow statement for the year 2004.**

| <b>Liabilities</b>                | <b>2005<br/>Rs.</b> | <b>2006<br/>Rs.</b> | <b>Assets</b>  | <b>2005<br/>Rs.</b> | <b>2006<br/>Rs.</b> |
|-----------------------------------|---------------------|---------------------|--|---------------------|---------------------|
| <b>Share Capital</b>              | <b>70,000</b>       | <b>80,000</b>       | <b>Plant &amp; machinery</b>                                       | <b>62,000</b>       | <b>66,000</b>       |
| <b>Share premium</b>              | <b>9,000</b>        | <b>11,000</b>       | <b>Accumulated<br/>Depreciation on<br/>Plant and<br/>Machinery</b> | <b>(37,000)</b>     | <b>(26,200)</b>     |
| <b>Retained<br/>Earnings</b>      | <b>23,820</b>       | <b>30,820</b>       | <b>Building</b>  | <b>95,000</b>       | <b>1,16,000</b>     |
| <b>7% Mortgage<br/>loan</b>       | <b>-</b>            | <b>20,000</b>       | <b>Accumulation<br/>depreciation on<br/>buildings</b>              | <b>(42,000)</b>     | <b>(45,000)</b>     |
| <b>Creditors</b>                  | <b>6,900</b>        | <b>6,000</b>        | <b>Land</b>  | <b>10,000</b>       | <b>12,000</b>       |
| <b>Outstanding<br/>salaries</b>   | <b>2,000</b>        | <b>1,400</b>        | <b>Stock</b>   | <b>10,220</b>       | <b>9,620</b>        |
| <b>Provision for<br/>taxation</b> | <b>1,000</b>        | <b>1,400</b>        | <b>Debtors</b>   | <b>8,600</b>        | <b>7,600</b>        |
|                                   |                     |                     | <b>Prepaid expenses</b>  | <b>720</b>          | <b>800</b>          |
|                                   |                     |                     | <b>Cash</b>  | <b>6,180</b>        | <b>9,800</b>        |
|                                   | <b>1,12,720</b>     | <b>1,50,620</b>     |  | <b>1,12,720</b>     | <b>1,50,620</b>     |

**Additional Information :**

1. Plant costing Rs.16,000 (accumulated depreciation Rs.14,800) was sold during the year for Rs.1,200.
2. Building was acquired during the year at a cost of Rs.21,000. In addition to cash payment of Rs.1,000, a 7% mortgage loan was raised for the balance.
3. Dividend of Rs.8,000 was paid during the year.
4. A sum of Rs.13,900 was transferred to provision for taxation account in 2006.

**Solution :****Cash flow statement for the year 2006**

|              |   |        | Rs.        | Rs.               |
|--------------|---|--------|------------|-------------------|
| <b>(i)</b>   | <b>Cash Flow from operating activities</b>        |        |            |                   |
|              | Net profit during the year                        |        |            | 28,900            |
|              | Add : Depreciation – Building                     | 2,000  |            |                   |
|              | Plant   | 4,000  |            |                   |
|              | Decrease in stock                                 | 600    |            |                   |
|              | Decrease in debtors                               | 1,000  | 7,600      |                   |
|              | Less : Decrease in Creditors                      | 900    |            |                   |
|              | Decrease in outstanding salaries                  | 600    |            |                   |
|              | Increase in prepaid expenses                      | 80     |            |                   |
|              | Income tax paid                                   | 13,500 | (-) 15,080 | (-) 7,480         |
|              | <b>Net Cash inflow from operating activities</b>  |        |            | <b>21,420</b>     |
| <b>(ii)</b>  | <b>Cash flow from investing activities</b>        |        |            |                   |
|              | Purchase of Building                              | 1,000  |            |                   |
|              | Purchase of plant and machinery                   | 20,000 |            |                   |
|              | Purchase of land                                  | 2,000  | 23,000     |                   |
|              | Sale of plant                                     |        | 1,200      |                   |
|              | <b>Net cash outflow from investing activities</b> |        |            | <b>(-) 21,800</b> |
| <b>(iii)</b> | <b>Cash flow from financing activities</b>        |        |            |                   |
|              | Issue of shares                                   |        | 10,000     |                   |
|              | Share premium                                     |        | 2,000      |                   |

|  |                                |  |           |              |
|--|--------------------------------|--|-----------|--------------|
|  | Dividend paid                  |  | (-) 8,000 | 4,000        |
|  | Net increase in cash           |  |           | 3,620        |
|  | Cash in the beginning          |  |           | 6,180        |
|  | <b>Cash at the end of 2006</b> |  |           | <b>9,800</b> |

**Working Notes :****Retained Earnings a/c**

|                  | Rs.           |   | Rs.           |
|------------------|---------------|---|---------------|
| To Dividend paid | 8,000         | By Balance b/d                                  | 23,820        |
| To Balance c/d   | 30,820        | By Profit during the year<br>(Balancing figure) | 15,000        |
|                  | <b>38,820</b> |   | <b>38,820</b> |

**Plant and Machinery a/c**

|  | Rs.           |                                  | Rs.           |
|--|---------------|----------------------------------|---------------|
| To Balance b/d                         | 62,000        | By Sale of plant                 | 1,200         |
| To Bank purchase<br>(Balancing figure) | 20,000        | By Depreciation on plant<br>sold | 14,800        |
|  |               | By Balance c/d                   | 66,000        |
|  | <b>82,000</b> |                                  | <b>82,000</b> |

**Accumulated Depreciation on Plant and Machinery a/c**

|                         | Rs.           |  | Rs.           |
|-------------------------|---------------|--|---------------|
| To Plant (Depreciation) | 14,800        | By Balance b/d                         | 37,000        |
| To Balance c/d          | 26,200        | By Profit & Loss a/c<br>(Depreciation) | 4,000         |
|                         | <b>41,000</b> |  | <b>41,000</b> |

**Buildings a/c**

|                             | Rs.             |                | Rs.             |
|-----------------------------|-----------------|----------------|-----------------|
| To Balance b/d              | 95,000          | By Balance c/d | 1,16,000        |
| To Bank (Purchase)          | 1,000           |                |                 |
| To Mortgage Loan (Purchase) | 20,000          |                |                 |
|                             | <b>1,16,000</b> |                | <b>1,16,000</b> |

**Accumulated Depreciation on Buildings a/c**

|                | Rs.    |                             | Rs.    |
|----------------|--------|-----------------------------|--------|
| To Balance c/d | 45,000 | By Balance b/d              | 43,000 |
|                |        | By P & L a/c (Depreciation) | 2,000  |
|                | 45,000 |                             | 45,000 |

**Provision for Taxation a/c**

|  | Rs.           |   | Rs.           |
|--|---------------|---|---------------|
| To Income tax paid<br>(Balancing figure) | 13,500        | By Balance b/d                                      | 1,000         |
| To Balance c/d                           | 1,400         | By Profit & Loss a/c<br>(provision during the year) | 13,900        |
|  | <b>14,900</b> |   | <b>14,900</b> |

**Illu.5 : From the following Balance Sheet of PK Ltd. for the year ending 31-12-2005 and 31-12-2006, prepare cash flow statement.**

| Liabilities                  | 2005<br>Rs.     | 2006<br>Rs.     | Assets                         | 2005<br>Rs.     | 2006<br>Rs.     |
|------------------------------|-----------------|-----------------|--------------------------------|-----------------|-----------------|
| <b>Share capital</b>         | <b>2,15,000</b> | <b>2,75,000</b> | <b>Goodwill</b>                | -               | <b>20,000</b>   |
| <b>Reserves</b>              | <b>40,000</b>   | <b>40,000</b>   | <b>Plant and<br/>Machinery</b> | <b>1,12,950</b> | <b>1,16,200</b> |
| <b>Profit &amp; Loss a/c</b> | <b>39,690</b>   | <b>41,220</b>   | <b>Land and Buildings</b>      | <b>1,48,500</b> | <b>1,44,250</b> |

|                            |                 |                 |                       |                 |                 |
|----------------------------|-----------------|-----------------|-----------------------|-----------------|-----------------|
| <b>Provision for tax</b>   | <b>40,000</b>   | <b>50,000</b>   | <b>Current assets</b> | <b>1,98,530</b> | <b>1,70,730</b> |
| <b>Bank loan</b>           | <b>59,510</b>   | <b>-</b>        | <b>Cash</b>           | <b>7,500</b>    | <b>7,700</b>    |
| <b>Current liabilities</b> | <b>73,280</b>   | <b>52,660</b>   |                       |                 |                 |
|                            | <b>4,67,480</b> | <b>4,58,880</b> |                       | <b>4,67,480</b> | <b>4,58,880</b> |

The following information is also provided.

1. A dividend of Rs.26,000 was paid during the year 2006
2. Profit before tax for the year was Rs.62,530
3. During the year 2006, the company paid tax of Rs.25,000
4. During the year, the company purchased another company and paid Rs.60,000 in share capital. It acquired stock Rs.21,640 and plant Rs.18,360.
5. It purchases machinery costing Rs.5,650 during the year.

**Solution :**

**Cash flow statement for the year 31-12-2006**

|              |  | Rs.           |
|--------------|--|---------------|
| <b>(i)</b>   | <b>Cash Flow from operating activities</b>   |               |
|              | Profit during the year                       | 62,530        |
|              | Add : Depreciation on :                      |               |
|              | Land and buildings (Rs.1,48,500 – 1,44,250)  | 4,250         |
|              | Plant and machinery                          | 20,760        |
|              | Decrease in current assets                   | 27,800        |
|              | Stock acquired on purchase of business       | 21,640        |
|              |  | 1,36,980      |
|              | Less : Tax paid                              | (-) 25,000    |
|              | Decrease in current liabilities              | (-) 20,620    |
|              | <b>Cash inflow from operating activities</b> | <b>91,360</b> |
| <b>(ii)</b>  | <b>Cash flow from investing activities</b>   |               |
|              | Purchase of plant and machinery              | (-) 5,650     |
| <b>(iii)</b> | <b>Cash flows from financing activities</b>  |               |



|  |  |              |
|--|--|--------------|
|  | Payment of dividend                        | (-) 26,000   |
|  | Repayment of bank loan                     | (-) 59,510   |
|  | Net increase in cash                       | 200          |
|  | Add : Cash balance in the beginning        | 7,500        |
|  | <b>Cash balance at the end of the year</b> | <b>7,700</b> |

**Working Notes :**

1. Issue of share capital for Rs.6,000 for purchasing another company is a non-cash transaction and thus has not entered in cash flow statement.
2. Plant and machinery account :

**Plant and Machinery a/c**

|                        | Rs.      |                                       | Rs.      |
|------------------------|----------|---------------------------------------|----------|
| To Balance b/d         | 1,12,950 | By Depreciation<br>(Balancing figure) | 20,760   |
| To Cash                | 5,650    | By Balance c/d                        | 1,16,200 |
| To Purchase (non-cash) | 18,360   |                                       |          |
|                        | 1,36,960 |                                       | 1,36,960 |

**Illu.6 : From the following balances you are required to calculate cash from operations.**

|                             | 31-12-2004<br>Rs. | 31-12-2005<br>Rs. |
|-----------------------------|-------------------|-------------------|
| <b>Debtors</b>              | <b>50,000</b>     | <b>47,000</b>     |
| <b>Bills receivable</b>     | <b>10,000</b>     | <b>12,500</b>     |
| <b>Creditors</b>            | <b>20,000</b>     | <b>25,000</b>     |
| <b>Bills payable</b>        | <b>8,000</b>      | <b>6,000</b>      |
| <b>Outstanding expenses</b> | <b>1,000</b>      | <b>1,200</b>      |
| <b>Prepaid expenses</b>     | <b>800</b>        | <b>700</b>        |
| <b>Outstanding incomes</b>  | <b>600</b>        | <b>750</b>        |

|                                    |            |                 |
|------------------------------------|------------|-----------------|
| <b>Income received in advance</b>  | <b>300</b> | <b>250</b>      |
| <b>Profit made during the year</b> | <b>-</b>   | <b>1,30,000</b> |

**Solution :****Cash from operations**

| <b>Particulars</b>                        | <b>Amount<br/>Rs.</b> | <b>Amount<br/>Rs.</b> |
|---|-----------------------|-----------------------|
| Profit made during the year               |                       | 1,30,000              |
| <b>Add: Decrease in Current Assets :</b>  |                       |                       |
| Debtors                                   | 3,000                 |                       |
| Prepaid expenses                          | 100                   |                       |
| <b>Increase in Current Liabilities :</b>  |                       |                       |
| Creditors                                 | 5,000                 |                       |
| Outstanding expenses                      | 200                   | 8,300                 |
|   |                       | <b>1,38,300</b>       |
| <b>Less: Increase in Current Assets :</b> |                       |                       |
| Bills receivable                          | 2,500                 |                       |
| Accrued income                            | 150                   |                       |
| <b>Decrease in Current Liabilities:</b>   |                       |                       |
| Bills payable                             | 2,000                 |                       |
| Incomes received in advance               | 50                    | 4,700                 |
| <b>Cash from operations</b>               |                       | <b>1,33,600</b>       |

**Illu.7 : From the following particulars prepare cash flow statement of Mr. Mahadev :**

|                | <b>1<sup>st</sup> Jan 2005<br/>Rs.</b> | <b>31<sup>st</sup> Dec 2005<br/>Rs.</b> |
|----------------|--|---|
| <b>Cash</b>    | <b>5,000</b>                           | <b>4,000</b>                            |
| <b>Debtors</b> | <b>40,000</b>                          | <b>45,000</b>                           |
| <b>Stock</b>   | <b>30,000</b>                          | <b>25,000</b>                           |
| <b>Land</b>    | <b>30,000</b>                          | <b>40,000</b>                           |

|                               |                 |                 |
|-------------------------------|-----------------|-----------------|
| <b>Buildings</b>              | <b>50,000</b>   | <b>55,000</b>   |
| <b>Machinery</b>              | <b>70,000</b>   | <b>80,000</b>   |
|                               | <b>2,25,000</b> | <b>2,49,000</b> |
| <b>Current liabilities</b>    | <b>35,000</b>   | <b>40,000</b>   |
| <b>Loan from Mrs. Lalitha</b> | <b>-</b>        | <b>25,000</b>   |
| <b>Bank loan</b>              | <b>40,000</b>   | <b>30,000</b>   |
| <b>Capital</b>                | <b>1,50,000</b> | <b>1,54,000</b> |
|                               | <b>2,25,000</b> | <b>2,49,000</b> |

During the year, Mr. Mahadev brought an additional capital of Rs.10,000 and his drawings during the year were Rs.31,000. Provision for depreciation on machinery – opening balance Rs.30,000, closing balance Rs.40,000.

No depreciation need to be provided for other assets.

### Solution :

#### Working Notes :

#### Capital a/c

Dr.

Cr.

| Particulars    | Amount<br>Rs.   | Particulars                        | Amount Rs.      |
|----------------|-----------------|------------------------------------|-----------------|
| To Drawings    | 31,000          | By Balance b/d                     | 1,50,000        |
| To Balance c/d | 1,54,000        | By Bank                            | 10,000          |
|                |                 | By Profit & Loss (Profit)<br>(B/f) | 25,000          |
|                | <b>1,85,000</b> |                                    | <b>1,85,000</b> |

#### Machinery a/c

Dr.

Cr.

| Particulars    | Amount<br>Rs. | Particulars     | Amount Rs. |
|----------------|---------------|-----------------|------------|
| To Balance b/d | 70,000        | By Depreciation | 10,000     |

|                      |               |                   |               |
|----------------------|---------------|-------------------|---------------|
|                      |               | (40,000 – 30,000) |               |
| To Bank (uses) (B/f) | 20,000        | By Balance c/d    | 80,000        |
|                      | <b>90,000</b> |                   | <b>90,000</b> |

### Cash flow statement

| Particulars                                       | Amount Rs.    | Amount Rs.       |
|---|---------------|------------------|
| <b>I. Cash flows from operating activities :</b>  |               |                  |
| Net profit made during the year                   | 25,000        |                  |
| Adjustments for depreciation                      | 10,000        |                  |
| Operating profit before working capital changes   | <b>35,000</b> |                  |
| Decrease in stock                                 | 5,000         |                  |
| Increase in current liabilities                   | 5,000         |                  |
| Increase in debtors                               | (-) 5,000     |                  |
| Net cash flow from operating activities           |               | 40,000           |
| <b>II Cash flows from investing activities :</b>  |               |                  |
| Purchase of Land                                  | 10,000        |                  |
| Purchase of Buildings                             | 5,000         |                  |
| Purchase of Machinery                             | 20,000        |                  |
| Net cash flow from investing activities           |               | (-) 35,000       |
| <b>III Cash flows from financing activities :</b> |               |                  |
| Loan from Mrs. Lalitha                            | 25,000        |                  |
| Additional capital                                | 10,000        |                  |
| Bank loan repaid                                  | (-) 10,000    |                  |
| Drawings  | (-) 31,000    | (-) 6,000        |
| Net decrease in cash & cash equivalents           |               | <b>(-) 1,000</b> |
| Cash and cash equivalents at the beginning        |               | 5,000            |
| Cash and cash equivalents at the end              |               | <b>4,000</b>     |

**Illu.8 : The following are the comparative Balance Sheet of ABC Ltd. as on 31<sup>st</sup> December 2003 and 2004 :**

| Liabilities         | 2003 Rs. | 2004 Rs. | Assets   | 2003 Rs. | 2004 Rs. |
|---------------------|----------|----------|----------|----------|----------|
| Share capital       | 35,000   | 37,000   | Land     | 10,000   | 15,000   |
| Profit and loss a/c | 5,040    | 5,280    | Stock    | 24,600   | 21,350   |
| 9% Debentures       | 6,000    | 3,000    | Goodwill | 5,000    | 2,500    |
| Creditors           | 5,000    | 4,000    | Bank     | 4,500    | 3,900    |
| Dividend provision  | 3,000    | 5,000    | Debtors  | 9,940    | 11,530   |
|                     | 54,040   | 54,280   |          | 54,040   | 54,280   |

You are required to prepare a cash flow statement.

**Solution :**

**Cash from operations**

|              |                                       | Rs.   | Rs.           |
|--------------|---------------------------------------|-------|---------------|
|              | Profit and Loss a/c Balance for 2004  |       | 5,280         |
| <b>Add:</b>  | Non-cash and non – operating expenses |       |               |
|              | Goodwill written off                  | 2,500 |               |
|              | Provision for Dividend                | 5,000 | 7,500         |
|              |                                       |       | <b>12,780</b> |
| <b>Less:</b> | Profit and loss a/c balance for 2003  |       | 5,040         |
|              | Cash from operations                  |       | <b>7,740</b>  |

**Cash Flow Statement**

|             |                       | Rs.   | Rs.    |
|-------------|-----------------------|-------|--------|
|             | Bank Balance for 2003 |       | 4,500  |
| <b>Add:</b> | Cash from operations  | 7,740 |        |
|             | Issue of shares       | 2,000 |        |
|             | Decrease in stock     | 3,250 | 12,990 |

|              |                              |       |               |
|--------------|------------------------------|-------|---------------|
|              |                              |       | <b>17,490</b> |
| <b>Less:</b> | Redemption of Debentures     | 3,000 |               |
|              | Decrease in creditors        | 1,000 |               |
|              | Dividend paid                | 3,000 |               |
|              | Purchase in Land             | 5,000 |               |
|              | Increase in Debtors          | 1,590 | 13,590        |
|              | <b>Bank Balance for 2004</b> |       | <b>3,900</b>  |
|              |                              |       |               |

**Illu.9 : Balance Sheets of S and K on 1.4.05 and 31.3.06 were as follows :**

| Liabilities           | 1.4.05<br>Rs.   | 31.3.06<br>Rs.  | Assets           | 1.4.05<br>Rs.   | 31.3.06<br>Rs.  |
|-----------------------|-----------------|-----------------|------------------|-----------------|-----------------|
| <b>Creditors</b>      | <b>80,000</b>   | <b>88,000</b>   | <b>Cash</b>      | <b>20,000</b>   | <b>14,000</b>   |
| <b>Mrs. S's loan</b>  | <b>50,000</b>   | -               | <b>Debtors</b>   | <b>60,000</b>   | <b>1,00,000</b> |
| <b>Loan from bank</b> | <b>80,000</b>   | <b>1,00,000</b> | <b>Stock</b>     | <b>70,000</b>   | <b>50,000</b>   |
| <b>Capital</b>        | <b>2,50,000</b> | <b>3,06,000</b> | <b>Machinery</b> | <b>1,60,000</b> | <b>1,10,000</b> |
|                       |                 |                 | <b>Land</b>      | <b>80,000</b>   | <b>1,00,000</b> |
|                       |                 |                 | <b>Building</b>  | <b>70,000</b>   | <b>1,20,000</b> |
|                       | <b>4,60,000</b> | <b>4,94,000</b> |                  | <b>4,60,000</b> | <b>4,94,000</b> |

During the year, a machine costing Rs.20,000 (accumulated depreciation Rs.6,000) was sold for Rs.10,000. The provisions for depreciation against machinery as on 1.4.05 was Rs.50,000 and on 31.3.06 Rs.80,000. Net profit for year 2005 –06 amounted to Rs.90,000.

You are required to prepare cash flow statement.

**Solution :**

#### Cash Flow Statement of S & K

|                                | Rs.    | Rs.    |
|--------------------------------|--------|--------|
| Cash in hand on 1-4-05         |        | 20,000 |
| <b>Add :</b> Decrease in stock | 20,000 |        |

|                                  |          |                 |
|----------------------------------|----------|-----------------|
| Increase in creditors            | 8,000    |                 |
| Increase in bank loan            | 20,000   |                 |
| Sale of machinery                | 10,000   |                 |
| Cash from operations             | 1,30,000 | 1,88,000        |
|                                  |          | <b>2,08,000</b> |
| <b>Less:</b> Increase in Debtors | 40,000   |                 |
| Purchase of land                 | 20,000   |                 |
| Purchase of building             | 50,000   |                 |
| Decrease in Mrs. S's loan        | 50,000   |                 |
| Drawings                         | 34,000   | 1,94,000        |
| <b>Cash in hand on 31-3-2006</b> |          | <b>14,000</b>   |

**Working Notes :****Provision for Depreciation Account****Dr.****Cr.**

|                      | <b>Rs.</b>    |                              | <b>Rs.</b>    |
|----------------------|---------------|------------------------------|---------------|
| To Sale of Machinery | 6,000         | By Balance b/d               | 50,000        |
| To Balance c/d       | 80,000        | By Depreciation for the year | 36,000        |
|                      | <b>86,000</b> |                              | <b>86,000</b> |

**Cash from operations**

|  |        | <b>Rs.</b>      |
|--|--------|-----------------|
| Profit for the year                                    |        | 90,000          |
| <b>Add :</b> Non – cash and Non – operating expenses   |        |                 |
| Loss on sale of Machinery<br>(20,000 – 6,000 – 10,000) | 4,000  |                 |
| Depreciation on machinery                              | 36,000 | 40,000          |
| <b>Cash from operations</b>                            |        | <b>1,30,000</b> |

**Capital Account**

| Dr.                   | Rs.             | Cr.            | Rs.             |
|-----------------------|-----------------|----------------|-----------------|
| To Drawing (Bal. Fig) | 34,000          | By Balance b/d | 2,50,000        |
| To Balance c/d        | 3,06,000        | By Profit      | 90,000          |
|                       | <b>3,40,000</b> |                | <b>3,40,000</b> |

**Illu.10 : The following are the Balance Sheets of Sri Ram Ltd. :**

| Liabilities                | 1998 Rs.        | 1999 Rs.        | Assets                 | 1998 Rs.        | 1999 Rs.        |
|----------------------------|-----------------|-----------------|------------------------|-----------------|-----------------|
| Equity share Capital       | 1,00,000        | 1,42,000        | Land                   | 24,000          | 48,000          |
| 8% Pref. Share capital     | 80,000          | 80,000          | Building and equipment | 1,80,000        | 2,88,000        |
| P & L Account              | 75,900          | 81,900          | Debtors                | 84,000          | 84,000          |
| Creditors                  | 1,20,000        | 1,08,000        | Inventory              | 1,32,000        | 48,000          |
| Outstanding expenses       | 12,000          | 24,000          | Prepaid rent           | 1,800           | 2,400           |
| Provision for taxation     | 6,000           | 6,600           | Prepaid insurance      | 2,100           | 2,100           |
| Provision for depreciation | 60,000          | 66,000          | Cash                   | 30,000          | 36,000          |
|                            | <b>4,53,900</b> | <b>5,08,500</b> |                        | <b>4,53,900</b> | <b>5,08,500</b> |

- (i) The company declared and paid equity dividend of Rs.36,000 during the year 1998.
- (ii) A truck costing Rs.36,000 and with accumulated depreciation of Rs.24,000 was sold at a profit of Rs.600.

**Prepare Cash Flow Statement.**

**Solution :****Working Notes :**

(1) Appreciation in land = 48,000 – 24,000 = Rs.24,000



(2) Purchase of Buildings & Equipment = Rs.1,44,000

**Buildings & Equipment Account**

| Dr.                               | Rs.             | Cr.                       | Rs.             |
|-----------------------------------|-----------------|---------------------------|-----------------|
| To Balance b/d                    | 1,80,000        | By Cash                   | 12,600          |
| To P & L a/c (Profit on sale)     | 600             | By Provision Depreciation | 24,000          |
| To Cash – assumed as new purchase | 1,44,000        | By Balance c/d            | 2,88,000        |
|                                   | <b>3,24,600</b> |                           | <b>3,24,600</b> |

**Provision for Depreciation Account**

| Dr.                          | Rs.           | Cr.                               | Rs.           |
|------------------------------|---------------|-----------------------------------|---------------|
| To Buildings & Equipment a/c | 24,000        | By Balance b/d                    | 60,000        |
| To Balance c/d               | 66,000        | By Profit & Loss a/c Depreciation | 30,000        |
|                              | <b>90,000</b> |                                   | <b>90,000</b> |

(3) No change in debtors balance

(4) Decrease in inventory = Rs.1,32,000 – Rs.48,000 = Rs.84,000

(5) Increase in prepaid rent = Rs.2,400 – Rs.1,800 = Rs.600

(6) No change in prepaid insurance

(7) Increase in equity share capital = Rs.1,42,000 – Rs.1,00,000 = Rs.42,000

(8) Decrease in creditors = Rs.1,20,000 – Rs.1,08,000 = Rs.12,000

(9) Increase in outstanding expenses = Rs.24,000 – Rs.12,000 = Rs.12,000

(10) Increase in provision for taxation = Rs.6,600 – Rs.6,000 = Rs.600

(11) Depreciation Provided = Rs.30,000

(Refer Provision for Depreciation Account )

**Calculation of cash from operations**

|  | Rs. | Rs.    |
|--|-----|--------|
| Profit & Loss a/c balance in 1999                      |     | 81,900 |
| <b>Add : Non – cash and Non – operating expenses :</b> |     |        |

|   |        |                 |
|---|--------|-----------------|
| Dividends paid  | 36,000 |                 |
| Depreciation written off                              | 30,000 | 66,000          |
|   |        | <b>1,47,900</b> |
| <b>Less: Non – cash non – operating incomes</b>       |        |                 |
| Appreciation in Land                                  | 24,000 |                 |
| Profit on the sale of Truck                           | 600    | 24,600          |
|   |        | <b>1,23,300</b> |
| <b>Less: Balance of Profit &amp; Loss a/c in 1998</b> |        | 75,900          |
| Cash from operations                                  |        | <b>47,400</b>   |

### Cash Flow Statement

|                                    | Rs.      | Rs.             |
|------------------------------------|----------|-----------------|
| Cash balance in 1998               |          | 30,000          |
| <b>Add : Sources</b>               |          |                 |
| Cash from operations               | 47,400   |                 |
| Issue of equity shares             | 42,000   |                 |
| Decrease in inventory              | 84,000   |                 |
| Increase in outstanding expenses   | 12,000   |                 |
| Increase in provision for taxation | 600      |                 |
| Sale proceeds from sale of trucks  | 12,600   | 1,98,600        |
|                                    |          | <b>2,28,600</b> |
| <b>Less: Applications :</b>        |          |                 |
| Purchase of Building               | 1,44,000 |                 |
| Increase in prepaid rent           | 600      |                 |
| Decrease in creditors              | 12,000   |                 |
| Dividends paid                     | 36,000   | 1,92,600        |
| Cash balance in 1998               |          | <b>36,000</b>   |

**Illu.11 : From the following Balance Sheets, you are required to prepare cash flow statement for the year ended 31<sup>st</sup> December 2005 :**

| <b>Liabilities</b>            | <b>2004 Rs.</b> | <b>2005 Rs.</b> |
|-------------------------------|-----------------|-----------------|
| <b>Share capital</b>          | <b>1,20,000</b> | <b>1,20,000</b> |
| <b>Reserves</b>               | <b>40,000</b>   | <b>1,30,000</b> |
| <b>7% Debentures</b>          | <b>70,000</b>   | <b>80,000</b>   |
| <b>Creditors</b>              | <b>20,000</b>   | <b>40,000</b>   |
| <b>Bills payable</b>          | <b>18,000</b>   | <b>26,000</b>   |
| <b>Provision for dividend</b> | <b>-</b>        | <b>20,000</b>   |
|                               | <b>2,68,000</b> | <b>4,16,000</b> |

| <b>Assets</b>              | <b>2004 Rs.</b>   | <b>2005 Rs.</b>   |
|----------------------------|-------------------|-------------------|
| <b>Fixed Assets (Cost)</b> | <b>1,40,000</b>   | <b>1,90,000</b>   |
| <b>Accu. Depreciation</b>  | <b>(-) 40,000</b> | <b>(-) 50,000</b> |
| <b>Stock</b>               | <b>90,000</b>     | <b>75,000</b>     |
| <b>Bills receivable</b>    | <b>55,000</b>     | <b>1,72,000</b>   |
| <b>Bank balance</b>        | <b>23,000</b>     | <b>29,000</b>     |
|                            | <b>2,68,000</b>   | <b>4,16,000</b>   |

Income – tax paid during the year Rs.40,000.

**Solution :**

**Cash from operations**

|  |        | <b>Rs.</b>      |
|--|--------|-----------------|
| Reserve as on 31-12-2005                           |        | 1,30,000        |
| <b>Add: Non- cash and Non-operating expenses :</b> |        |                 |
| Depreciation (50,000 – 40,000)                     | 10,000 |                 |
| Dividend provision                                 | 20,000 |                 |
| Tax provision                                      | 40,000 | 70,000          |
|  |        | <b>2,00,000</b> |
| <b>Less: Reserve as on 1-1-2005 Incomes :</b>      |        | 40,000          |
| Nil  | -      | -               |
| Cash from operations                               |        | <b>1,60,000</b> |

**Cash Flow Statement**

|  |          | <b>Rs.</b>      |
|--|----------|-----------------|
| Cash in hand on 1-1-05                           |          | 23,000          |
| <b>Add: Sources :</b>                            |          |                 |
| Cash from operation                              | 1,60,000 |                 |
| Decrease in inventory                            | 15,000   |                 |
| Raise in debentures                              | 10,000   |                 |
| Increase in current liabilities (20,000 + 8,000) | 28,000   | 2,13,000        |
|  |          | <b>2,36,000</b> |
| <b>Less: Applications -</b>                      |          |                 |
| Purchase fixed assets                            | 50,000   |                 |
| Increase in bills receivable                     | 1,17,000 |                 |
| Taxes paid                                       | 40,000   | 2,07,000        |
| Cash in hand 31-12-05                            |          | <b>29,000</b>   |

**Illu.12 : The following are the summarised Balance Sheets of a company as on 31<sup>st</sup> December 2004 and 2005.**

| <b>Liabilities</b>            | <b>2004 Rs.</b> | <b>2005 Rs.</b> |
|-------------------------------|-----------------|-----------------|
| <b>Share capital</b>          | <b>2,00,000</b> | <b>2,50,000</b> |
| <b>General Reserve</b>        | <b>50,000</b>   | <b>60,000</b>   |
| <b>Profit and Loss a/c</b>    | <b>30,500</b>   | <b>30,800</b>   |
| <b>Bank Loan (long term)</b>  | <b>70,000</b>   | <b>-</b>        |
| <b>Sundry creditors</b>       | <b>1,50,000</b> | <b>1,35,000</b> |
| <b>Provision for taxation</b> | <b>30,000</b>   | <b>35,000</b>   |
|                               | <b>5,30,500</b> | <b>5,10,800</b> |
| <b>Assets</b>                 |                 |                 |
| <b>Land and Buildings</b>     | <b>2,00,000</b> | <b>1,90,000</b> |
| <b>Machinery</b>              | <b>1,50,000</b> | <b>1,69,000</b> |
| <b>Stock</b>                  | <b>1,00,000</b> | <b>74,000</b>   |
| <b>Sundry Debtors</b>         | <b>80,000</b>   | <b>64,200</b>   |
| <b>Cash</b>                   | <b>500</b>      | <b>600</b>      |

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| <b>Bank</b>     | -               | <b>8,000</b>    |
| <b>Goodwill</b> | -               | <b>5,000</b>    |
|                 | <b>5,30,500</b> | <b>5,10,800</b> |

**Additional Information:**

(a) Dividend of Rs.23, 000 was paid

(b) Assets of another company were purchased for a consideration of Rs.50, 000 payable in shares.

The following assets were purchased:

Stock – Rs.20, 000

Machinery – Rs.25, 000

(c) Depreciation written off of machinery Rs.12, 000

(d) Machinery was further purchased for Rs.8, 000

(e) Income tax provided during the year Rs.33, 000

(f) Loss on sale of machinery Rs.200 was transferred to general reserve.

You are required to prepare the cash flows statement.

**Solution :**

**Cash flow statement  
for the year ending 31-12-2005**

| Particulars  | Amount<br>Rs. | Amount<br>Rs. |
|--|---------------|---------------|
| <b>(i) Cash flows from operating activities :</b>              |               |               |
| Profit during the year (30,800 – 30,500)                       | 300           |               |
| <b>Add: Adjustment from non-operating and non-cash items ;</b> |               |               |
| Depreciation   | 22,000        |               |
| Transfer to general reserve                                    | 10,200        |               |
| Dividends paid   | 23,000        |               |
| Provision for tax  | 33,000        |               |

|  |                 |              |
|--|-----------------|--------------|
| Operating profit before working capital changes          | 88,500          |              |
| <b>Adjustments for current Assets &amp; Liabilities:</b> |                 |              |
| <b>Add: Decrease in current Assets :</b>                 |                 |              |
| Stock  | 46,000          |              |
| Debtors  | 15,800          |              |
|  | <b>1,50,300</b> |              |
| <b>Less: Decrease in current liabilities :</b>           |                 |              |
| Creditors  | 15,000          |              |
| Net cash generated before tax                            | <b>1,35,300</b> |              |
| <b>Less: Income tax paid</b>                             | 28,000          |              |
| Net cash from operating activities                       |                 | 1,07,300     |
| <b>(ii) Cash flows from investing activities :</b>       |                 |              |
| Sale of machinery  | 1,800           |              |
| Purchase of machinery                                    | (-) 8,000       | (-) 6,200    |
| <b>(iii) Cash flows from financing activities :</b>      |                 |              |
| Repayment of bank loan                                   | (-) 70,000      |              |
| Dividend paid  | (-) 23,000      |              |
| Net cash used in financing activities                    |                 | (-) 93,000   |
| Net increase in cash and cash equivalents                |                 | <b>8,100</b> |
| Cash and cash equivalents as at 1-1-05                   |                 | 500          |
| Cash and cash equivalents as at 31-12-05                 |                 | <b>8,600</b> |

## 18.7 QUESTIONS :

1. Explain the concept of "Cash Flow". Discuss the objectives of cash flow analysis.
2. Explain clearly the difference between funds flow and cash flow statement.
3. Explain the procedure of preparing a cash flow statement.
4. Discuss the procedures of ascertaining cash from operations as required for the preparation of a cash flow statement.
5. Draw a cash flow statement with the help of imaginary figures
6. Explain the major sources and applications of cash with examples

7. What is the utility of preparing cash flow statement.
8. Write short notes on :
- (a) Notional cash and
- (b) Non cash items

### 18.8 EXERCISES :

1. Calculate cash from operations from the following information.

Sales Rs.2,00,000

Purchases Rs.1,60,000

Expenses Rs.20,000

Debtors at the beginning of the year Rs.12,000

Debtors at the end of the year Rs.22,000

Creditors at the beginning of the year Rs.20,000

Creditors at the end of the year Rs.30,000

**[Ans.: Cash from operations Rs.20,000]**

2. Calculate cash from operations from the following Profit & Loss account.

**Profit and Loss account**  
**For the year ending 31<sup>st</sup> March, 2006**

|                           | Rs.             |                           | Rs.             |
|---------------------------|-----------------|---------------------------|-----------------|
| To Wages                  | 25,000          | By Gross profit           | 1,12,500        |
| To Salaries               | 37,500          | By Profit on sale of land | 10,000          |
| To Depreciation           | 2,500           | By Income tax refund      | 10,000          |
| To Loss on sale of plant  | 5,000           |                           |                 |
| To Goodwill written off   | 10,000          |                           |                 |
| To proposed dividend      | 12,500          |                           |                 |
| To Provision for taxation | 12,500          |                           |                 |
| To Net profit             | 27,500          |                           |                 |
|                           | <b>1,32,500</b> |                           | <b>1,32,500</b> |

**[Ans.: Rs.60,000]**

3. The following are the comparative balance Sheets of a company.

| Liabilities       | 31-3-05         | 31-3-06         | Assets      | 31-3-05         | 31-3-06         |
|-------------------|-----------------|-----------------|-------------|-----------------|-----------------|
| Share capital     | 1,00,000        | 1,50,000        | Land        | 1,00,000        | 85,000          |
| General Reserve   | 30,000          | 35,000          | Machinery   | 80,000          | 90,000          |
| P & L a/c         | 20,000          | 22,000          | Stock       | 65,000          | 1,10,000        |
| 10% Debentures    | 80,000          | 75,000          | Debtors     | 20,000          | 25,000          |
| Creditors         | 65,000          | 58,000          | Investments | 5,000           | 10,000          |
| Provision for tax | 5,000           | 10,000          | Cash        | 12,000          | 10,000          |
|                   |                 |                 | Goodwill    | 18,000          | 10,000          |
|                   | <b>3,00,000</b> | <b>3,50,000</b> |             | <b>3,00,000</b> | <b>3,50,000</b> |

Additional Information :

- (i) Depreciation charged on Machinery Rs.8,000
  - (ii) Dividend paid during the year Rs.16,000
  - (iii) Tax paid during the year Rs.6,000
- You are required to prepare cash flow statement.

**[Ans.: Rs.10,000]**

4. From the following Trading and Profit & Loss a/c for the year ended 31<sup>st</sup> March 2006 calculate Cash from operations:

| Dr.             |                 | Cr.                  |                 |
|-----------------|-----------------|----------------------|-----------------|
| Particulars     | Rs.             | Particulars          | Rs.             |
| To Purchases    | 1,27,600        | By Sales             | 1,91,000        |
| To Wages        | 31,900          |                      |                 |
| To Gross profit | 31,500          |                      |                 |
|                 | <b>1,91,000</b> |                      | <b>1,91,000</b> |
| To Salaries     | 6,600           | By Gross Profit b/d  | 31,500          |
| To Rent         | 3,190           | By Profit on sale of |                 |



|                                   |               |                                    |               |
|-----------------------------------|---------------|------------------------------------|---------------|
|                                   |               | building (Book value<br>Rs.40,000) | 25,000        |
| To Depreciation                   | 9,570         |                                    |               |
| To Loss on sale of<br>investments | 3,200         |                                    |               |
| To Goodwill written off           | 3,940         |                                    |               |
| To Net profit                     | 30,000        |                                    |               |
|                                   | <b>56,500</b> |                                    | <b>56,500</b> |

**[Ans.: Rs.21,710]**

5. Balance sheet of XY & Co. Ltd., as at March 31<sup>st</sup>, 2005 and 2006.

| <b>Liabilities</b>        | <b>2005<br/>Rs.</b> | <b>2006<br/>Rs.</b> | <b>Assets</b> | <b>2005<br/>Rs.</b> | <b>2006<br/>Rs.</b> |
|---------------------------|---------------------|---------------------|---------------|---------------------|---------------------|
| Share capital             | 2,00,000            | 2,50,000            | Buildings     | 2,00,000            | 1,60,000            |
| General reserve           | 50,000              | 60,000              | Machinery     | 1,50,000            | 1,69,000            |
| P & L a/c                 | 30,500              | 30,600              | Stock         | 1,00,000            | 75,000              |
| Long term loan            | 80,000              | -                   | Debtors       | 50,000              | 54,200              |
| Creditors                 | 1,20,000            | 1,00,400            | Cash and Bank | 500                 | 2,800               |
| Provision for<br>taxation | 20,000              | 25,000              | Goodwill      |                     | 5,000               |
|                           | <b>5,00,500</b>     | <b>4,66,000</b>     |               | <b>5,00,500</b>     | <b>4,66,000</b>     |

**Additional Information :**

1. During the year ended 31-3-2006 a dividend of Rs.23,000 was paid
2. Assets were purchased for Rs.45,000 payable in shares of XY Co. Ltd. The assets were
3. Stock Rs.20,000 and Machinery Rs.25,000
4. Further Purchase of Machinery for Cash Rs.10,000
5. Machinery is depreciated by Rs.14,000
6. Income tax provided during the year Rs.30,000

7. There was loss on sale of machinery Rs.1,000 which was written off to general reserve. You are required to prepare Cash flow statement.

**[Ans.: Cash from operating activities Rs.1,39,300; Net increase in cash Rs.2,300]**

## 18.9 SUGGESTED READINGS

1. Bhattacharyya, S.K., John Dearden, Costing for Management, Vikas Publishing House Pvt. Ltd., 2002
2. Jayanta Mitra, Cost & Management Accounting, Books & Allied (P) Ltd., Calcutta.
3. Lall Nigam, B.M., Cost Accounting Principles and practices, Prentice Hall of India Private Limited, New Delhi.
4. Pandey, I.M., Management Accounting, Vikas Publishing House Pvt. Ltd., 2001
5. Ramachandran, Accounting for Management, Scitech Publications (India) Pvt. Ltd., 2003
6. Sahaf, M.A., Management Accounting, Principles and Practices, Vikas Publishing House Pvt. Ltd. New Delhi, 2004

## Chapter – 19

# Ratio Analysis

### Objectives :

After reading this lesson you should be able to :

- Understanding the meaning of a ratio and ratio analysis
- Know the objects and utilities of ratio analysis
- Classify the ratios on the basis of profitability, activity, liquidity, solvency
- Discuss the advantages and limitations of ratio analysis

### Structure :

- 19.1 Introduction
- 19.2 Meaning of Ratio
- 19.3 Objects and Utility of Ratio Analysis
- 19.4 Classification of Ratios
- 19.5 Advantages of Ratio Analysis
- 19.6 Limitations of Ratio Analysis
- 19.7 Questions
- 19.8 Exercises
- 19.9 Suggested Readings

### 19.1 INTRODUCTION :

The most important task of a financial manager is to interpret the financial information in such a manner that it can be well understood by the people, who are not well versed in financial information figures. The technique by which it is done, known as 'Ratio Analysis' 'Ratio' is a relationship between two or more variables expressed in (i) percentage (ii) rate and (iii) proportion.

The construction of ratios is a major analytical rule in the hands of financial executives. Mostly financial statements are expressed in absolute rupee figures. The use of ratios aids the financial manager and other analysts in pointing out the relative importance of the various items appearing in the financial statements. Each major item in the balance sheet and the income statement has a relationship with one or more items in either or both statements which can be expressed in ratio. By using ratio, comparisons with financial statements or other firms are facilitated and comparison of a firm's financial performance can too be made over a period of time.

## **19.2 MEANING OF RATIO :**

Ratios are simply a means of highlighting in arithmetical terms the relationship between figures drawn from various financial statements. Robert Anthony defines a ratio as – simply one number expressed in terms of another.' A great number of ratios can be computed from the basis financial statements – balance sheet and profit and loss account.

### **Ratio Analysis :**

It involves three steps. First, the financial manager selects from the statements those sets of data which are relevant to his objective of analysis and calculates appropriate ratios for the firm. The second step calls for a comparison either with the industry standards or with the ratio of the same firm relating to past. After such comparison the conclusions may be withdrawn and presented in the shape of reports.

## **19.3 OBJECTS AND UTILITY OF RATIO ANALYSIS :**

Ratio analysis is an important and useful technique to check upon the efficiency with which working capital is being used in the enterprise. Some ratio indicate the trend of progress or downfall of the firm. It helps the financial management in evaluating the financial position and performance of the firm. The use of ratio analysis is not confined to the financial manager only. The credit supplier, bank, lending institutions and experienced investor all use ratio analysis as their initial tool in evaluating the firm as a desirable borrower or as potential investment outlet. It functions as a

sort of health test. With the help of ratio analysis financial executive can measure whether the firm is at present financially healthy or not. The following are the important managerial uses or ratio analysis.

1. **Aid in Financial Forecasting** : Ratio analysis is very helpful in financial forecasting . Ratios relating to past sales, profits and financial position are base for future trends.
2. **Aid in comparison** : With the help of ratio analysis ideal ratios can be composed and they can be used for comparison of a particular firm's progress and performance.
3. **Aid in Cost Control** : Ratios are very useful for measuring the progress and performance.
4. **Communication Value** : Different financial ratios communicate the strength and financial standing of the firm to the internal and external parties.
5. **Other uses** : Financial ratios are helpful in the diagnosis and financial health of a firm. They highlight the liquidity, solvency, profitability and capital gearing, etc., of the firm. They are a useful tool of analysis of financial performance.

#### 19.4 CLASSIFICATION OF RATIOS :

Ratios can be classified on the following two basis.

1. **According to Financial statements** : According to this basis, the ratios are classified as under –
  - (a) **Balance Sheet ratios** : These ratios are calculated to know the financial position of a concern on a particular date. Both items for which ratio is to be calculated appear on the balance sheet. Such a ratio may be called a financial ratio. Example of balance sheet ratios are – Current ratio, quick ratio, liquidity ratio, ratio of inventory to working capital, ratio of current assets to fixed assets, debt to equity ratio, proprietary ratio and capital gearing ratio.
  - (b) **Profit and Loss Ratios** : Ratios which are drawn from trading and profit and loss account are known as profit and loss ratios. These ratios deal with the relationship between two items both of which belong to the profit and loss account. Such a ratio may be called an operating ratio. Examples of these ratios are – Gross profit ratio, operating ratios, operating profit ratio and net profit ratio.
  - (c) **Combined ratios** : These ratios portray the relationship between items, one of which is a part of the balance sheet and the other of the profit and loss account. Such a ratio may be called a mixed ratio. Examples of these ratios are – Stock turnover ratio, Receivable

turnover ratio, working capital turnover ratio, Fixed assets turnover ratio, capital turnover ratio, Total assets turnover ratio, Return on shareholders, Investment and Return on capital employed.

### Chart Showing Application of Different Ratios

|    | <b>For Testing</b>     | <b>Ratio concerned</b>   | <b>Interested parties</b>  |
|----|------------------------|--|--|
| A. | Profitability          | <ol style="list-style-type: none"> <li>1. Gross Profit ratio</li> <li>2. Net profit ratio</li> <li>3. Operating ration</li> <li>4. Return on capital employed</li> <li>5. Dividend ratio</li> <li>6. Earning per share</li> <li>7. Dividend per share</li> </ol>       | Shareholders<br>Creditors (Long term)<br>Government<br>Purchasers of Enterprise<br>Employees |
| B. | Liquidity and Solvency | <ol style="list-style-type: none"> <li>1. Current Ratio</li> <li>2. Liquid ratio</li> <li>3. Absolute Liquid ratio</li> <li>4. Proprietary ratio</li> <li>5. Assets to proprietorship ratio</li> <li>6. Debt Equity ratio</li> <li>7. Capital Gearing ratio</li> </ol> | Creditors (Short term)<br>Investors<br>Money lenders   |
| C. | Capital Structure      | <ol style="list-style-type: none"> <li>1. Capital gearing ratio</li> <li>2. Equity capital ratio</li> <li>3. Long term loans to Net worth</li> </ol>   | Shareholders and outsiders   |
| D. | Activity               | <ol style="list-style-type: none"> <li>1. Debtors Turnover ratio</li> <li>2. Creditors Turnover ratio</li> <li>3. Stock Turnover ratio</li> <li>4. Fixed Asset Turnover</li> </ol>   | Management<br>Shareholders<br>Creditors (Long and  |

|    |                       |  |                          |
|----|-----------------------|--|--------------------------|
|    |                       | ratio<br>5. Current assets turnover ratio<br>6. Total Assets turnover ratio<br>7. Working capital turnover ratio | Short Term)<br>Customers |
| E. | Management Efficiency | All concerned ratios   | Management               |

## 2. According to Purpose or Functional Classification :

On the basis of purpose, ratios can be grouped into the following four categories.

**(a) Profitability Ratios :** A measure of 'profitability' is the overall measure of efficiency. Under profitability ratios, following ratios should be studied to judge the profitability of an organisation.

**(i) Gross Profit ratio (GPR) :** It expresses the relationship of gross profit on sales to net sales, in terms of percentage, representing the percentage of gross profit earned on sales. The ratio is arrived at as follows.

$$\text{Gross profit ratio} = \frac{\text{Gross Profit}}{\text{Net Sales}}$$

**(ii) Operating ratio :** This ratio expresses the relationship between total cost of goods and sales. It is calculated as follows.

$$\frac{\text{Cost of goods sold} + \text{Operating expenses}}{\text{Net Sales}} \times 100$$

The main components of this ratios are :

- (a) Cost of goods sold = Opening stock + Purchases + Manufacturing expenses – Closing stock or sales – Gross Profit.
- (b) Operating expenses = Office and Administrative expenses and selling and distribution expenses.

(iii) **Operating Profit Ratio** : This ratio establishes the relationship between operating profit

$$\text{Operating Profit ratio} = \frac{\text{Operating Profit}}{\text{Net Sales}} \times 100$$

and sales and is calculated as follows.

The main component of this ratio are :

- (a) Operating profit = Gross profit – Operating expenses
- (b) Operating profit ratio = 100 – Operating ratio

(iv) **Net profit ratio** : This is the ratio of net income or profit after taxes to net sales. This ratio is very useful to the proprietors because it reveals the overall efficiency of the business. The ratio is arrived at as follows.

$$\text{Net Profit ratio} = \frac{\text{Net Profit after Taxes}}{\text{Net Sales}} \times 100$$

(b) **Liquidity ratios** : These ratios, constituting ratio analysis of the short term financial position, are intended to derive a picture of the capacity of a firm to meet its short term obligation out of its short term resources. Some of the important liquidity ratios are as follows.

(i) **Current or working capital Ratio** : This is the ratio of the current assets to the current liabilities of a business at any time. The ratio is usually taken at the end of a financial year when all the required figures can be collected after they have been thoroughly examined. It is expressed as follows.

$$\text{Current ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}$$



The ratio should preferably be 2:1. If the current assets are two times the current liabilities, there will be no adverse effect on business operations when the payment of current liabilities is made.

- (ii) **Quick Ratio** : This is the ratio of liquid assets to current liabilities. 1 to 1 ratio is considered ideal ratio for concern. This ratio is of great importance for banks and financial institutions. This ratio is also known as Acid Test Ratio or Liquid Ratio. It is worked out as follows.

$$\text{Quick Ratio or Acid Test ratio} = \frac{\text{Liquid or Quick Assets}}{\text{Liquid or Quick Liabilities}}$$

Liquid assets are those assets which are readily converted into cash and will include cash, cash at bank, bills receivables, sundry debtors and short term investments.

- (iii) **Debtors Turnover ratio** : This ratios also known as Receivable Turnover ratio measures the accounts receivables (trade debtors and bills receivables) in terms of number of days of credit sales during a particular period. This ratio is calculated as follows :

$$\text{Debtors Turnover ratio} = \frac{\text{Trade Debtors} + \text{Bills receivable}}{\text{Net Credit Sales}} \times \text{No. of days in a period}$$

- (iv) **Stock or Inventory Turnover ratio** : It establishes the relationship between cost of goods sold during a given period and the average stock of goods in hand during that period. This ratio can be calculated as follows.

$$\text{Stock turnover ratio} = \frac{\text{Cost of goods sold}}{\text{Average Stock held}}$$

$$(a) \text{ Cost of goods sold} = \text{Opening Stock} + \text{Purchases} - \text{Closing Stock or sales} \\ - \text{Gross Profit}$$

(b)

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

**(c) Solvency Ratios :**

Solvency refers to the ability of the concern to meet its long term liabilities. These ratios are studied to measure the long term solvency and comprise of :

(i) **Debt Equity ratio** : This ratio reflects the proportionate relationship between outsider's Funds and Shareholders' funds. It relates to all recorded creditors claims on asset to the owners, recorded claims in order to measure the firm's obligation to creditors in relation to funds provided by the owners. It is also known as 'External – Internal Equity ratio' and is calculated as follows.

$$\text{Debt Equity ratio} = \frac{\text{External Equity}}{\text{Internal Equities}} \quad (\text{or})$$

$$\text{Debt to equity ratio} = \frac{\text{Outsider's Funds}}{\text{Shareholders funds}}$$

Outsiders' Funds include all long term debts, while shareholders funds consist of Preference Share capital, equity share capital and all types of reserves.

- (ii) **Proprietary Ratio** : A variant of debt to equity ratio is the proprietary ratio which establishes the relationship between proprietors funds and total assets. The ratio is worked out as follows

$$\text{Proprietary ratio} = \frac{\text{Shareholders' Funds}}{\text{Total Assets}}$$

- (iii) **Creditors Equity to Total Equities** : This ratio is ascertained to find out the proportion of outsiders' equity in the total equities. This can be calculated with the help of the following formula.

$$\text{Creditors' Equity total Equities} = \frac{\text{Creditors' Equity}}{\text{Total Equities}}$$

- (c) **Over-all ratios** : These ratios are also known as 'Test of overall profitability'. Under this, we shall study the following ratios.

- (i) **Return on Investment** : The ratio shows how much concern is earning on its capital employed. Return on investment or Return on capital employed can be ascertained with the help of the following formula.

$$\text{Return on Investment} = \frac{\text{Profit before tax}}{\text{Capital Employed}} \times 100$$

- (ii) **Return on Equity Capital** : Another aspect to be considered in the analysis of overall profitability is the rate of return on Equity capital which relates to the net profits available to equity shareholders to the amount of capital invested by them.

Another way of looking at the rate of return on equity capital is to divide the net profit available to equity shareholders by the number of outstanding equity shares in order to calculate earnings per equity share. This ratio is ascertained with the help of the following formula.

Rate of Return on Equity Capital =

$$\frac{\text{Net profit - Dividend due to preference shares}}{\text{Number of Equity shares}}$$

= Earnings per Equity share

- (iii) **Dividend per share and Pay out ratio** : The pay out ratio indicates the proportion of earnings which has been paid out to the equity shareholders out of the total earnings available to them. This is ascertained with the help of the following formula.

$$\text{Dividend per share} = \frac{\text{Account of Dividend shares}}{\text{Number of Equity shares}}$$

Pay out ratio =

$$\frac{\text{Amount of Dividend paid on Equity shares}}{\text{Amount of Total Earnings available for Distribution among equity shares}}$$

## 19.5 ADVANTAGES OF RATIO ANALYSIS :

Ratio Analysis is a very important and useful tool for financial analysis. It serves many purposes and is helpful not only for internal management but also for prospective investors, creditors and other outsiders. The following are the important uses (advantages) of ratio analysis.

1. It is an important and useful tool to exercise check upon the efficiency with which the working capital is being used (managed) in a business enterprise. Efficient Management of Work cap.
2. It helps the management of business concern in evaluating its financial position and efficiency of performance.
3. It serves as a sort of health test of a business firm, because with the help of this analysis financial managers can determine whether the firm is financially healthy or not.

4. A ratio analysis covering a number of past accounting (financial) periods clearly show the trend of changes in the business position (i.e., whether the trend in financial position, income position etc. is upward, or downward or static). The progress or downfall of a business concern is clearly indicated by this analysis. Use to measure the trend of the Business.
5. It helps in making financial estimates for the future (i.e., in financial forecasting)
6. It helps the task of managerial control to a great extent.
7. It helps the credit suppliers and investors in evaluating a business firm as a desirable debtor or as a potential investment outlet.
8. With the help of this analysis ideal (standard) ratios can be established and these can be used for the purpose of comparison of a firm's progress and performance.
9. This analysis communicates important information regarding financial strength and standing, earning capacity, debt (borrowing) capacity, liquidity position, capacity to meet fixed commitment (charges), solvency , capital gearing, working capital management, future prospects etc., of a business concern.
10. This analysis may be employed for the purpose of comparing the working result and efficiency of performance of a business enterprise with that of other enterprises engaged in the same industry. (Inter firm comparison).
11. It helps the management of a business concern to discharge their basic functions of planning, coordinating, controlling etc.
12. It serves as an instrument for testing management efficiency
13. It sometimes provides a useful tool for decisions on certain policy matters.

## 19.6 LIMITATIONS OF RATIO ANALYSIS :

The chief limitations of accounting ratios are states below.

1. **A single ratio has no significance** : A ratio taken by itself would be meaningless unless it is studied along with other ratios. Ratios of one firm should be compared with ratios of other such similar firms and any deviations should be investigated.
2. **It ignores qualitative factors** : They are the factors which cannot be expressed in terms of money. Ratio analysis is a tool of qualitative factors like sincerity, ability to pay back loans etc., which may sometimes be of more importance in taking financial decisions.

3. **Lack of proper standard for comparison** : Since business firms differ from one another in capital structure, financial problems, size etc., a standard fixed for one firm may not be suitable to other firms.
4. **Reveals more about Past** : Balance Sheet and profit and loss account are historical statements because they are prepared on the basis of the events and transactions that have already taken place. Ratios are calculated from other sources because this ratio analysis provides only a fraction of information required for decision making.
5. **Fraction of Information** : Information received from the ratio analysis should always be used in conjunction with the information received from other sources because this ratio analysis provides only a fraction of information required for decision making.
6. **Illusionary Precision** : Ratio analysis may attach some precision to the arithmetical results of the accounting data because of their numerical character. But these data are more estimates e.g., estimates regarding the life of an asset, provision for doubtful debts etc.

**Illu.1 From the following details prepare the Balance Sheet with as many details as possible:**

|  |          |
|--|----------|
| (a) Stock velocity                                 | 6        |
| (b) Capital turnover ratio (on cost of sales)      | 2        |
| (c) Fixed assets turnover ratio (on cost of sales) | 4        |
| (d) Gross profit turnover ratio                    | 20%      |
| (e) Debtors velocity                               | 2 months |
| (f) Creditors velocity                             | 73 days  |

**Gross Profit was Rs.60,000. Reserves and surplus amounted to Rs.20,000. Closing stock was Rs.5,000 in excess of opening Stock.**

### **Solution :**

(a) Gross profit Ratio =

$$= \frac{\text{Gross profit}}{\text{Net Sales}} \times 100; \frac{20}{100} = \frac{60,000}{\text{Net Sales}}$$

$$20 \text{ Sales} = 60,000 \times 100 = 20 \text{ sales} = \text{Rs.}60,00,000$$

$$\text{Sales} = \frac{60,00,000}{20} = \text{Rs.}3,00,000$$

Cost of Goods sold = Sales – Gross profit

$$3,00,000 - 60,000 = \text{Rs.}2,40,000.$$

(b) Stock Turnover Ratio =

$$= \frac{\text{Cost of goods sold}}{\text{Average Stock}}$$

$$6 = \frac{2,40,000}{\text{Average Stock}} = \text{Average Stock} = \frac{2,40,000}{6} = \text{Rs.}40,000$$

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

$$40,000 = \frac{\text{Opening Stock} + \text{Closing Stock}}{2}$$

$$40,000 \times 2 = \text{Opening Stock} + \text{Closing Stock}$$

$$80,000 = \text{Opening Stock} + \text{Closing Stock}$$

$$\text{Closing Stock} = \text{Opening Stock} + \text{Closing Stock}$$

$$\text{Closing stock} = \text{Opening stock} + 5,000$$

$$80,000 = 2 \text{ Opening Stock} + 5,000$$

$$2 \text{ Opening Stock} = 80,000 - 5,000$$

$$\text{Opening Stock} = \frac{75,000}{2} = \text{Rs.}37,500$$

$$\text{Closing Stock} = 37,500 + 5,000 = \text{Rs.}42,500.$$

(c) Debtors Turnover =

$$= \frac{\text{Debtors}}{\text{Sales}} \times 12 \text{ months} = 2 \text{ months} = \frac{\text{Debtors}}{3,00,000} \times 12 \text{ months}$$

$$\text{Debtors} = \frac{3,00,000 \times 2}{12} = \text{Rs.}50,000$$

(d) Creditors Turnover =

$$= \frac{\text{Creditors}}{\text{Purchases}} \times 365 \text{ days}$$

$$\begin{aligned}\text{Credit purchases} &= \text{Cost of goods sold} + \text{increase in Closing Stock} \\ &= 2,40,000 + 5,000 = \text{Rs.}2,45,000\end{aligned}$$

$$\text{Creditors} = \frac{73 \times 2,45,000}{365} = \text{Rs.}49,000$$

(e) Capital Turnover Ratio =

$$\begin{aligned}&= \frac{\text{Cost of Goods Sold}}{\text{Capital}} \\ &= \frac{\text{Cost of goods sold}}{\text{Fixed Assets} \times 2} = \frac{2,40,000}{\text{Capital}} \\ 4 &= \frac{2,40,000}{\text{Fixed Assets} \times 2} \\ \text{Capital} &= \frac{2,40,000}{2} = \text{Rs.}1,20,000\end{aligned}$$

(f) Fixed Assets turnover Ratio =

$$\text{Fixed Assets} = 2,40,000 / 4 = \text{Rs.}60,000$$

### Proprietary Statement

|                                   | Rs.      | Rs.             |
|-----------------------------------|----------|-----------------|
| <b>Current Assets;</b>            |          |                 |
| Cash in hand (Balancing Figure)   | 16,500   |                 |
| Debtors                           | 50,000   |                 |
| Stock                             | 42,500   | 1,09,000        |
| <b>Less: Current liabilities:</b> |          |                 |
| Creditors                         |          | 49,000          |
| Working capital                   |          | 60,000          |
| Add: Fixed Assets                 |          | 60,000          |
| Total Capital employed            |          | <b>1,20,000</b> |
| <b>Net Worth:</b>                 |          |                 |
| Share Capital                     | 1,00,000 |                 |



|                   |        |                 |
|-------------------|--------|-----------------|
| Reserves, Surplus | 20,000 |                 |
| Capital Employed  |        | <b>1,20,000</b> |

**Illu.2** The following are the summarised profit and loss account for the year ending 31st December 1994 and the balance sheet as on that date:

### Trading and Profit & Loss Account

| Dr.                        | Rs.              | Cr.              | Rs.              |
|----------------------------|------------------|------------------|------------------|
| To Opening stock           | 1,00,000         | By Sales         | 10,00,000        |
| To Purchases               | 5,50,000         | By Closing Stock | 1,50,000         |
| To Gross profit            | 5,00,000         |                  |                  |
|                            | <b>11,50,000</b> |                  | <b>11,50,000</b> |
| To Administrative expenses | 1,50,000         | By Gross profit  | 5,00,000         |
| To Interest                | 30,000           |                  |                  |
| To Selling expenses        | 1,20,000         |                  |                  |
| To Net profit              | 2,00,000         |                  |                  |
|                            | <b>5,00,000</b>  |                  | <b>5,00,000</b>  |

### Balance Sheet

| Liabilities   | Rs.              | Assets                 | Rs.              |
|---------------|------------------|------------------------|------------------|
| Capital       | 10,00,000        | Land and Buildings     | 5,00,000         |
| P & L a/c     | 2,00,000         | Plant and Machinery    | 3,00,000         |
| Creditors     | 2,50,000         | Stock                  | 1,50,000         |
| Bills payable | 1,50,000         | Sundry debtors         | 1,50,000         |
|               |                  | Bills receivable       | 1,25,000         |
|               |                  | Cash in hand & at Bank | 1,75,000         |
|               |                  | Furniture              | 2,00,000         |
|               | <b>16,00,000</b> |                        | <b>16,00,000</b> |

**Additional information:**

- (a) Average debts, Rs.1,25,000
- (b) Average credit purchases, Rs.8,00,000

**You are required to calculate:**

- (1) Stock turnover ratio,**
- (2) Current Ratio**
- (3) Quick ratio**
- (4) Operating ratio and**
- (5) Return on equity.**

**Solution :**

$$\begin{aligned} \text{Cost of goods sold} &= \text{Sales} - \text{Gross Profit} \\ &= 10,00,000 - 5,00,000 = 5,00,000 \end{aligned}$$

$$\text{(i) Stock turnover ratio} = \frac{\text{Cost of goods sold}}{\text{Average stock}}$$

$$\begin{aligned} \text{Average stock} &= \frac{\text{Operating stock} + \text{closing stock}}{2} \\ &= \frac{1,00,000 + 1,50,000}{2} = \frac{2,50,000}{2} = 1,25,000 \\ &= \frac{5,00,000}{1,25,000} = 4 \text{ times} \end{aligned}$$

$$\text{(ii) Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

Current Assets:

|                  |          |
|------------------|----------|
| Stock            | 1,50,000 |
| Debtors          | 1,50,000 |
| Bills receivable | 1,25,000 |
| Cash and Bank    | 1,75,000 |
|                  | -----    |
|                  | 6,00,000 |
|                  | -----    |

Current Liabilities:

|               |                                     |
|---------------|-------------------------------------|
| Creditors     | 2,50,000                            |
| Bills payable | 1,50,000                            |
|               | -----                               |
|               | 4,00,000                            |
|               | -----                               |
|               | $= \frac{6,00,000}{4,00,000} = 1.5$ |

$$(iii) \text{ Quick Ratio} = \frac{\text{Quick Assets}}{\text{Current Liabilities}}$$

Quick assets = Current assets – Stock

$$= 6,00,000 - 1,50,000 = 4,50,000$$

Current Liabilities = 4,00,000

$$= \frac{4,50,000}{4,00,000} = 1.125$$

$$(iv) \text{ Operating ratio} = \frac{\text{Operating cost}}{\text{Sales}}$$

Operating cost = Cost of goods sold + Operating expenses

Cost of goods sold = Sales – Gross profit

$$= 10,00,000 - 5,00,000 = 5,00,000$$

Operating expenses = Administrative expenses + Selling expenses

$$= 1,50,000 + 1,20,000 = 2,70,000$$

Sales = 10,00,000

$$= \frac{5,00,000 + 2,70,000}{10,00,000} = \frac{7,70,000}{10,00,000} = 0.77$$

$$(v) \text{ Return on equity} = \frac{\text{Profit after tax} - \text{Preference dividend}}{\text{Equity share capital}}$$

Profit before taxes = 2,00,000

(-) Tax = NIL

-----  
2,00,000

(-) Preference dividend = NIL

-----  
2,00,000

Equity share capital = 6,00,000

$$= \frac{2,00,000}{6,00,000} = 0.33 \text{ (or) } 1/3$$

**Illu.3 A Ltd. Company submitted the following particulars**

|                               |                      |
|-------------------------------|----------------------|
| <b>Gross Profit</b>           | <b>= Rs.1,00,000</b> |
| <b>Reserves &amp; Surplus</b> | <b>= Rs.40,000</b>   |
| <b>Cost of sales</b>          | <b>= Rs.2,00,000</b> |
| <b>Fixed assets turnover</b>  | <b>= 5</b>           |
| <b>Capital turnover</b>       | <b>= 2</b>           |
| <b>Current liabilities</b>    | <b>= Rs.10,000</b>   |
| <b>Debentures</b>             | <b>= Rs.20,000</b>   |

**Solution :**

$$\text{Fixed assets turnover ratio} = \frac{\text{Sales}}{\text{Fixed assets}}$$

$$5 = \frac{3,00,000}{\text{Fixed Assets}}$$

Note: Sales = Cost of Sales + Gross profit

$$\text{Fixed assets} = \frac{3,00,000}{5} = 60,000$$

$$\text{Capital turnover ratio} = \frac{\text{Cost of sales}}{\text{working capital}}$$

(working capital turnover ratio)

$$2 = \frac{2,00,000}{\text{Working capital}}$$

$$\text{Working capital} = \frac{2,00,000}{2} = \text{Rs. } 1,00,000$$

Working capital = Current assets – Current liabilities

1,00,000 = Current assets – 10,000

Current assets = 1,00,000 + 10,000 = 1,10,000

| Dr.                 |                 | Balance Sheet  |          | Cr. |                 |
|---------------------|-----------------|----------------|----------|-----|-----------------|
| Liabilities         | Rs.             | Assets         | Rs.      |     |                 |
| Share capital (B/f) | 1,00,000        | Fixed Assets   | 60,000   |     |                 |
| Reserves & Surplus  | 40,000          | Current assets | 1,10,000 |     |                 |
| Debentures          | 20,000          |                |          |     |                 |
| Current liabilities | 10,000          |                |          |     |                 |
|                     | <b>1,70,000</b> |                |          |     | <b>1,70,000</b> |

**Illu.4** The following is the profit and Loss account to Electro Ltd. For the year ended 31st December 1995:

|                                    | Rs.      |   | Rs.      |
|------------------------------------|----------|---|----------|
| To opening Stock                   | 1,00,000 | By Sales                                      | 5,60,000 |
| To Purchases                       | 3,50,000 | By Closing Stock                              | 1,00,000 |
| To Wages                           | 9,000    |   |          |
| To Gross profit                    | 2,01,000 |   |          |
|                                    | 6,60,000 |   | 6,60,000 |
| To Administrative expenses         | 20,000   | By Gross Profit                               | 2,01,000 |
| To Selling & distribution expenses | 89,000   | By Interest on Investments (outside business) | 10,000   |
| To Non-operating                   | 30,000   | By Profit on sale of                          |          |

|                 |                 |                    |                 |
|-----------------|-----------------|--------------------|-----------------|
| <b>expenses</b> |                 | <b>investments</b> | <b>8,000</b>    |
|                 | <b>2,19,000</b> |                    | <b>2,19,000</b> |

You are required to calculate:

- (a) Gross Profit Ratio
- (b) Net Profit ratio
- (c) Operating Profit ratio
- (d) Operating ratio
- (e) Administrative Expenses ratio

### Solution :

(a) Gross Profit ratio =

$$\begin{aligned}
 &= \frac{\text{Gross Profit}}{\text{Sales}} \times 100 \\
 &= \frac{2,01,000}{5,60,000} \times 100 = 36\%
 \end{aligned}$$

(b) Net Profit ratio =

$$\begin{aligned}
 &= \frac{\text{Net Profit}}{\text{Sales}} \times 100 \\
 &= \frac{80,000}{5,60,000} \times 100 = 14\%
 \end{aligned}$$

(c) Operating Profit ratio =

$$= \frac{\text{Operating Profit}}{\text{Sales}}$$

Operating profit = Gross profit – Operating expenses + Operating incomes

Gross profit = 2,01,000

(-) Operating expenses:

Administrative expenses 20,000

|                                   |        |          |
|-----------------------------------|--------|----------|
| Selling and distribution expenses | 89,000 | 1,09,000 |
|                                   | -----  | -----    |
|                                   |        | 92,000   |
| (+) Operating incomes:            |        |          |
| NIL                               |        | -        |
|                                   |        | -----    |
| Operating profit                  |        | 92,000   |
|                                   |        | -----    |

$$= \frac{92,000}{5,60,000} = 0.16(\text{or})16\%$$

(d) Operating ratio =

$$= \frac{\text{Cost of sales} + \text{Operating expenses}}{\text{Sales}}$$

$$\begin{aligned} \text{Cost sales} &= \text{Sales} - \text{Gross profit} \\ &= 5,60,000 - 2,01,000 = 3,59,000 \\ \text{Operating expenses} &= 1,09,000 \end{aligned}$$

$$\begin{aligned} &= \frac{3,59,000 + 1,09,000}{5,60,000} \\ &= \frac{4,68,000}{5,60,000} = 0.84(\text{or})84\% \end{aligned}$$

(e) Administrative expenses ratio =

$$= \frac{\text{Administrative expenses}}{\text{Sales}}$$

$$= \frac{20,000}{5,60,000} = 0.036(\text{or})3.6\%$$

**Illu.5 : From the following particulars, calculate (a) Gross Profit Ratio, (b) Net Profit ratio, (c) Return on total assets, (d) Inventory turnover, (e) Working capital turnover and (f) New worth to debt.**

|                             | Rs.              |
|-----------------------------|------------------|
| <b>Sales</b>                | <b>25,20,000</b> |
| <b>Cost of sales</b>        | <b>19,20,000</b> |
| <b>Net Profit</b>           | <b>3,60,000</b>  |
| <b>Inventory</b>            | <b>8,00,000</b>  |
| <b>Other current assets</b> | <b>7,60,000</b>  |
| <b>Fixed Assets</b>         | <b>14,40,000</b> |
| <b>Net worth</b>            | <b>15,00,000</b> |
| <b>Debt</b>                 | <b>9,00,000</b>  |
| <b>Current Liabilities</b>  | <b>6,00,000</b>  |

### **Solution :**

#### **(a) Gross profit Ratio:**

$$\text{Gross profit ratio} = \frac{\text{Gross profit}}{\text{Sales}}$$

$$\begin{aligned}\text{Gross Profit} &= 25,20,000 - 19,20,000 \\ &= 6,00,000\end{aligned}$$

$$\text{Sales} = 25,20,000$$

$$= \frac{6,00,000}{25,20,000} = 0.24 \text{ or } 24\%$$

#### **(b) Net Profit ratio :**

$$= \frac{\text{Net Profit}}{\text{Sales}}$$

$$\text{Net Profit} = 3,60,000$$

$$\text{Sales} = 25,20,000$$

$$= \frac{3,60,000}{25,20,000} = 0.14 \text{ or } 14\%$$



**(c) Return on total assets ratio = Net Profit / Total assets**

Net Profit = 3,60,000

Total Assets =

|                      |           |
|----------------------|-----------|
| Inventory            | 8,00,000  |
| Other Current assets | 7,60,000  |
| Fixed Assets         | 14,40,000 |
|                      | -----     |
|                      | 30,00,000 |
|                      | -----     |

$$= \frac{3,60,000}{30,00,000} = 0.12 \text{ or } 12\%$$

**(d) Inventory turnover ratio = Cost of sales / Average Stock**

Cost of sales = 19,20,000

Average stock = 8,00,000

$$= \frac{19,20,000}{8,00,000} = 2.4 \text{ times}$$

**(e) Working capital turnover ratio = Cost of sales / Working capital**

Cost of sales = 19,20,000

Working Capital =

Current assets

|                         |           |
|-------------------------|-----------|
| Inventory               | 8,00,000  |
| Other current assets    | 7,60,000  |
|                         | -----     |
|                         | 15,60,000 |
| (-) Current liabilities | 6,00,000  |
|                         | -----     |
|                         | 9,60,000  |

$$= \frac{19,20,000}{9,60,000} = 2 \text{ times}$$

**(f) Net Worth to debt: Net Worth / Debt**

Net Worth = 15,00,000

Debt = 9,00,000

$$= \frac{15,00,000}{9,00,000} = 1.67 \text{ or } 167\%$$

**Illu.6 : Make out Balance Sheet with as many details:**

|   |                    |
|---|--------------------|
| <b>Gross Profit</b>                         | <b>Rs.80,000</b>   |
| <b>Gross Profit / Sales</b>                 | <b>1/3</b>         |
| <b>Stock velocity</b>                       | <b>6</b>           |
| <b>Opening stock</b>                        | <b>Rs.36,000</b>   |
| <b>Average collection period / velocity</b> | <b>72 days</b>     |
| <b>Average payment velocity</b>             | <b>90 days</b>     |
| <b>No. of days in a year</b>                | <b>360</b>         |
| <b>Bills receivables</b>                    | <b>Rs.20,000</b>   |
| <b>Bills payable</b>                        | <b>Rs.5,000</b>    |
| <b>Fixed assets turn over ratio</b>         | <b>8</b>           |
| <b>Assets</b>                               | <b>Rs.1,40,000</b> |

**Solution :**

$$\begin{aligned} \text{Gross Profit Ratio} &= \frac{\text{Gross Profit}}{\text{Sales}} \\ &= \frac{80,000}{\text{Sales}} = 1/3 \quad \text{Sales} = \frac{80,000}{1/3} \\ &= 80,000 \times 3/1 = 2,40,000 \end{aligned}$$

$$\begin{aligned} \text{Stock Velocity} &= \frac{\text{Sales}}{\text{Average Stock}} \\ &= \frac{2,40,000}{\text{Average stock}} = 6 \\ \text{Average Stock} &= \frac{2,40,000}{6} \end{aligned}$$

$$\begin{aligned} \text{Average Collection period} &= \frac{\text{No. of days in a year}}{\text{Debtors turnover ratio}} \\ &= \frac{360}{\text{Debtors turnover ratio}} = 72 \text{ days} \end{aligned}$$

$$= 40,000$$

$$\text{Closing Stock} = (40,000 \times 2) - 36,000$$

$$= 80,000 - 36,000$$

$$= 44,000$$

$$\text{Debtors turnover ratio} = 360/72 = 5 \text{ times}$$

$$\text{Debtors turnover ratio} = \frac{\text{Sales}}{\text{Average debtors}}$$

$$\text{Average debtors} = 2,40,000/5 = 48,000$$

$$\begin{aligned} \text{Average payment period} &= \frac{\text{No. of days in a year}}{\text{Creditors turnover ratio}} \\ &= \frac{360}{4} = 90 \text{ days} \end{aligned}$$

$$\text{Debtors} = 48,000 - 20,000 = 28,000$$

$$\text{Creditors turnover ratio} = 360/90 = 4 \text{ times}$$

$$\text{Creditors turnover ratio} = \text{Purchases} / \text{Average creditors}$$

$$\text{Purchases: Cost of goods sold} + \text{Closing Stock} - \text{Opening stock}$$

$$= \frac{360}{\text{Creditors turnover ratio}} = 90 \text{ days}$$

Cost of goods sold:

|                  |          |
|------------------|----------|
| Sales            | 2,40,000 |
| (-) Gross profit | 80,000   |
|                  | -----    |
|                  | 1,60,000 |
|                  | -----    |

$$\text{Purchases} = 1,60,000 + 44,000 - 36,000$$

$$= 1,68,000$$

$$= 1,68,000 / \text{Average Creditors} = 4$$

$$\text{Average creditors} = 1,68,000 / 4 = 42,000$$

$$\text{Creditors} = 42,000 - 5,000 = 37,000$$

$$\begin{aligned} \text{Fixed Assets turnover ratio} &= \frac{\text{Sales}}{\text{Fixed Assets}} \\ &= 2,40,000 / \text{Fixed assets} = 8 \text{ times} \end{aligned}$$

$$\text{Fixed Assets} = 2,40,000 / 8 = 30,000$$

**Balance Sheet as on**

| Liabilities    | Rs.             | Assets           | Rs.             |
|----------------|-----------------|------------------|-----------------|
| Capital (B /F) | 98,000          | Cash (B/ f)      | 18,000          |
| Creditors      | 37,000          | Debtors          | 28,000          |
| Bills payable  | 5,000           | Bills receivable | 20,000          |
|                |                 | Stock            | 44,000          |
|                |                 | Fixed Assets     | 30,000          |
|                | <b>1,40,000</b> |                  | <b>1,40,000</b> |

**Illu.8 : Profit after taxes Rs.3, 00,000, fixed interest charges Rs.50, 000. Income tax paid is 50% on profit. Calculate interest coverage ratio.**

**Solution :**

Profit after taxes is Rs.3, 00,000. Income tax 50%. Hence profit before tax is Rs.6,00,000.

$$\begin{aligned} \text{Interest Coverage ratio} &= \frac{\text{Profit before interest and tax}}{\text{Fixed interest charges}} \\ &= 6,00,000 + 1,00,000 / 1,00,000 = 7,00,000 / 1,00,000 = 7. \end{aligned}$$

**Illu.9 : From the following information, calculate liquidity ratios for the two companies and give your interpretation of the liquidity position of the companies as revealed by the ratios:**

|                         | <i>Company A Rs.</i> | <i>(Rs. In lakhs)<br/>Company B Rs.</i> |
|-------------------------|----------------------|---|
| <b>Cash</b>             | <b>180</b>           | <b>140</b>                              |
| <b>Debtors</b>          | <b>1,400</b>         | <b>3,200</b>                            |
| <b>Inventory</b>        | <b>2,000</b>         | <b>6,000</b>                            |
| <b>Bills payable</b>    | <b>300</b>           | <b>1,000</b>                            |
| <b>Creditors</b>        | <b>800</b>           | <b>5,000</b>                            |
| <b>Accrued expenses</b> | <b>100</b>           | <b>125</b>                              |
| <b>Tax payable</b>      | <b>600</b>           | <b>500</b>                              |

**Solution :**

| <b>Particulars</b>                   | <b>Company A</b> | <b>Company B</b> |
|--------------------------------------|------------------|------------------|
| <b>Current Assets:</b>               |                  |                  |
| Cash                                 | 180              | 140              |
| Debtors                              | 1,400            | 3,200            |
| Inventory                            | 2,000            | 6,000            |
| <b>Total</b>                         | <b>3,580</b>     | <b>9,340</b>     |
| <b>Liquid Assets:</b>                |                  |                  |
| (Current Assets – Inventory)         | <b>1,580</b>     | <b>3,340</b>     |
| Absolute liquid Assets : (Cash only) | <b>180</b>       | <b>140</b>       |
| <b>Current Liabilities:</b>          |                  |                  |
| Bills payable                        | 300              | 1,000            |
| Creditors                            | 800              | 5,000            |
| Accrued Expenses                     | 100              | 125              |
| Tax payable                          | 600              | 500              |
|                                      | <b>1,800</b>     | <b>6,625</b>     |

**Liquidity Ratios:**

$$\text{Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

$$\text{Company A} = \frac{3,580}{1,800} = 1.99 : 1$$

$$\text{Company B} = \frac{9,340}{6,625} = 1.40 : 1$$

The idle ratio is 2 : 1

It is satisfactory in the case of company A where as it slightly less in the case of Company B.

$$\text{Liquid Ratio} = \frac{\text{Liquid Assets}}{\text{Current Liabilites}}$$

$$\text{Company A} = \frac{1,580}{1,800} = 0.87 : 1$$

$$\text{Company B} = \frac{3,340}{6,625} = 0.5 : 1$$

$$\text{Absolute liquidity ratio} = \frac{\text{Absolute liquid Assets}}{\text{Current Liabilities}}$$

$$\text{Company A} = \frac{180}{1,800} = 0.01 : 1$$

$$\text{Company B} = \frac{140}{6,625} = 0.02 : 1$$

The idle ratio is 1 : 1. So, it is not satisfactory in both the companies.

The absolute liquidity ratio is not satisfactory in both the companies as the idle ratio is 1 : 2 or 0.5 : 1.

**Illu.10 : Find out the stock turnover ratio when Opening stock is Rs.58,000; Closing stock Rs.62,000; Sales Rs.6,40,000 and Gross profit 20% on Sales.**

**Solution :**

**Calculation of Stock Turnover Ratio:**

$$\begin{aligned} \text{Average stock} &= \frac{\text{Opening stock} + \text{Closing stock}}{2} \\ &= \frac{58,000 + 62,000}{2} = \text{Rs.60,000} \end{aligned}$$

$$\begin{aligned}\text{Cost of the goods sold} &= \text{Sales} - \text{Gross profit} \\ &= 6,40,000 - 1,28,000 \\ &= 5,12,000\end{aligned}$$

$$\text{Stock turnover ratio} = \frac{\text{Cost of goods sold}}{\text{Average stock}}$$

$$\begin{aligned}\text{(i) Current Ratio} &= \frac{\text{Current Assets}}{\text{Current Liabilities}} \\ &= \frac{5,12,000}{60,000} = 8.5 \text{ times}\end{aligned}$$

**Illu.11 : From the following information determine:**

- (i) Current Ratio
- (ii) Quick Ratio
- (iii) Stock turnover Ratio
- (iv) Operating Ratio
- (v) Rate of return on equity capital.

**Balance Sheet as at December 31, 2003**

| Liabilities               | Rs.              | Assets              | Rs.              |
|---------------------------|------------------|---------------------|------------------|
| Equity share capital      | 20,00,000        | Plant and Equipment | 12,80,000        |
| Profit & Loss a/c         | 7,36,000         | Land and Buildings  | 1,60,000         |
| Sundry creditors          | 2,08,000         | Cash                | 3,20,000         |
| Bills payable             | 4,00,000         | Sundry Debtors      |                  |
|                           |                  | 7,20,000            |                  |
| Other current liabilities | 40,000           | Less: Provision     | 6,40,000         |
|                           |                  | 80,000              |                  |
|                           |                  | Stock               | 9,60,000         |
|                           |                  | Prepaid expenses    | 24,000           |
|                           | <b>33,84,000</b> |                     | <b>33,84,000</b> |

**Solution :**

$$(i) \text{ Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

$$\text{Current Ratio} = \frac{19,44,000}{6,48,000} = 3 : 1$$

| Current Assets   | Rs.              | Current Liabilities       | Rs.             |
|------------------|------------------|---------------------------|-----------------|
| Cash             | 3,20,000         | Sundry Creditors          | 2,08,000        |
| Debtors          | 6,40,000         | Bills payable             | 4,00,000        |
| Stock            | 9,60,000         | Other current liabilities | 40,000          |
| Prepaid expenses | 24,000           |                           |                 |
|                  | <b>19,44,000</b> |                           | <b>6,48,000</b> |

$$(ii) \text{ Quick Ratio} = \frac{\text{Liquid Assets}}{\text{Current Liabilities}}$$

$$\text{Quick Ratio} = \frac{9,60,000}{6,48,000} = 1.48 : 1$$

$$\text{Average Stock} = \frac{8,00,000 + 9,60,000}{2} = \text{Rs. } 8,80,000$$

$$\text{Stock turnover ratio} = \frac{61,60,000}{8,80,000} = 7 \text{ times}$$

$$(iii) \text{ Stock Turnover Ratio} = \frac{\text{Cost of goods sold}}{\text{Average stock}}$$

$$(iv) \text{ Operating ratio} = \frac{\text{Cost of goods sold} + \text{Operating expenses}}{\text{Net Sales}} \times 100$$

Quick Assets are cash and debtors = Rs.9,60,000

Cost of goods sold Rs.61,60,000

= 94%.

(v) Rate of return on capital employed:

$$= \frac{61,60,000 + 13,60,000}{80,00,000} \times 100$$



$$= 12\%$$

**Note:** Profit and loss statement was not given in the above problem. It is assumed as follows:

$$= \frac{\text{Net Profit (after tax)}}{\text{Equity share capital}} \times 100$$

$$= \frac{2,40,000}{20,00,000} \times 100$$

|                                | <b>Rs.</b> |
|--------------------------------|------------|
| Sales                          | 80,00,000  |
| Less: Cost of goods sold       | 61,60,000  |
|                                | 18,40,000  |
| Less: Operating expenses       | 13,60,000  |
| Net Profit                     | 4,80,000   |
| Less: operating expenses (50%) | 2,40,000   |
| Net profit after tax           | 2,40,000   |

**Balances at the beginning of the year:**

|                |               |
|----------------|---------------|
| Sundry debtors | - Rs.6,00,000 |
| Stock          | - Rs.8,00,000 |

**Illu.12 Find out (1) Current ratio and (2) Liquid ratio from the following information:**

**Stock Rs.30, 000, Prepaid expenses Rs.30, 000, other current assets Rs.2, 05,000, Current liabilities Rs.1, 65,000.**

**Solution :**

$$\begin{aligned} \text{Current assets} &= \text{Stock} + \text{Prepaid expenses} + \text{Other Current assets} \\ &= 30,000 + 30,000 + 2,05,000 \\ &= \mathbf{Rs.2, 65,000} \end{aligned}$$

$$\text{Current Ratio} =$$

$$= \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

$$\begin{aligned}
 &= \\
 &= \quad \mathbf{1.61 : 1} \\
 \text{Liquid assets} &= \quad \text{Current assets} - (\text{Stock} + \text{Prepaid expenses}) \\
 &= \frac{2,65,000}{1,65,000} \\
 &= \frac{2,65,000 - (30,000 + 30,000)}{\mathbf{Rs.2, 05,000}} \\
 \text{Liquid Ratio} &= \\
 &= \frac{\text{Liquid Assets}}{\text{Current Liabilities}} \\
 &= \\
 &= \frac{2,05,000}{1,65,000} \\
 &= \quad \mathbf{1.24: 1}
 \end{aligned}$$

**Illu.13 : Find out the following ratios from the following information:**

- (1) Gross profit ratio
- (2) Net profit ratio
- (3) Operating ratio
- (4) Rate of return on capital employed.

|                                       |                  |
|---------------------------------------|------------------|
|                                       | <i>Rs.</i>       |
| <b>Gross profit</b>                   | <b>6,00,000</b>  |
| <b>Net sales</b>                      | <b>9,00,000</b>  |
| <b>Profit after tax</b>               | <b>1,85,000</b>  |
| <b>Operating expenses</b>             | <b>5,40,000</b>  |
| <b>Profit before interest and tax</b> | <b>3,60,000</b>  |
| <b>Capital employed</b>               | <b>16,50,000</b> |

**Solution :**

$$(i) \text{ Gross profit Ratio} = \frac{\text{Gross profit}}{\text{Net Sales}} \times 100$$

$$= 67\%$$

$$= \frac{6,00,000}{9,00,000} \times 100$$

$$(ii) \text{ Net profit Ratio} = \frac{\text{Net profit}}{\text{Net Sales}} \times 100$$

$$= \frac{1,85,000}{9,00,000} \times 100$$

$$= 20.55\%$$

$$(iii) \text{ Operating Ratio} =$$

$$= \frac{\text{Cost of goods sold} + \text{Operating Expenses}}{\text{Net Sales}} \times 100$$

$$\begin{aligned} \text{Cost of goods sold} &= \text{Net Sales} - \text{Gross Profit} \\ &= 9,00,000 - 6,00,000 \\ &= \text{Rs. } 3,00,000 \end{aligned}$$

$$\therefore \text{ Operating Ratio} = \frac{3,00,000 + 5,40,000}{9,00,000} \times 100$$

$$(iv) \text{ Rate of return on capital employed}$$

$$= \frac{8,40,000}{9,00,000} \times 100$$

$$= \frac{\text{Net Profit}}{\text{Capital employed}} \times 100$$

$$= \frac{1,85,000}{16,50,000} \times 100$$

$$= 11.21\%$$

**Illu.13** The following is the Balance Sheet of a Company as on 31-12-2000.

| Liabilities           | Rs.      | Assets                 | Rs.      |
|-----------------------|----------|------------------------|----------|
| Equity capital        | 2,00,000 | Fixed assets           | 4,00,000 |
| 9% Preference capital | 1,20,000 | Short-term investments | 10,000   |
| Reserves              | 75,000   | Stock                  | 1,00,000 |
| 12% Debentures        | 1,00,000 | Debtors                | 50,000   |
| Current liabilities   | 1,05,000 | Cash                   | 25,000   |
|                       |          | Preliminary expenses   | 15,000   |
|                       | 6,00,000 |                        | 6,00,000 |

From the above information, find out the following ratios:

- (i) Current ratio,
- (ii) Liquid ratio
- (iii) Absolute liquid ratio

**Solution :**

$$(A) \text{ Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

$$\begin{aligned} \text{Current Assets} &= \text{Short – term investments} + \text{Stock} + \text{Debtors} + \text{Cash} + \\ &\qquad\qquad\qquad \text{Preliminary expenses} \\ &= 10,000 + 1,00,000 + 50,000 + 25,000 + 15,000 \end{aligned}$$

$$\text{Current Assets} = \mathbf{Rs.2,00,000}$$

$$\text{Current Liabilities} = \text{Rs.1,05,000}$$

$$\therefore \text{Current Ratio} = \frac{2,00,000}{1,05,000} = 1.9 : 1$$

$$\text{Current Ratio} = \mathbf{1.6 : 1}$$

$$\text{(B) Liquid Ratio} = \frac{\text{Quick Assets}}{\text{Current Liabilities}}$$

$$\begin{aligned} \text{Quick assets} &= \text{Current Assets} - (\text{Stock} + \text{Preliminary expenses}) \\ &= 2,00,000 - (1,00,000 + 15,000) \\ &= 2,00,000 - 1,15,000 \end{aligned}$$

$$\text{Quick Assets} = \mathbf{Rs.85,000}$$

$$\begin{aligned} \text{Liquid Ratio} &= 85,000 / 1,05,000 \\ &= \mathbf{0.81 : 1} \end{aligned}$$

$$\text{(C) Absolute Liquid Ratio} = \frac{\text{Absolute Liquid Assets}}{\text{Current Liabilities}}$$

$$\begin{aligned} \therefore \text{Absolute Liquid assets} &= \text{Cash} + \text{Short –term investments} \\ &= 25,000 + 10,000 = \mathbf{Rs.35,000} \end{aligned}$$

$$\therefore \text{Absolute liquid ratio} = \frac{35,000}{1,05,000} = 0.33 : 1$$

**Illu.14** The following figures are extracted from the Balance sheet of X Limited as on 31st December 2002, 2003.

|                            | <b>2002</b>   | <b>2003</b>   |
|----------------------------|---------------|---------------|
|                            | <b>Rs.</b>    | <b>Rs.</b>    |
| <b>Stock</b>               | <b>25,000</b> | <b>40,000</b> |
| <b>Debtors</b>             | <b>10,000</b> | <b>16,000</b> |
| <b>Cash at Bank</b>        | <b>5,000</b>  | <b>4,000</b>  |
| <b>Creditors</b>           | <b>8,000</b>  | <b>15,000</b> |
| <b>Bills payable</b>       | <b>2,000</b>  | <b>3,000</b>  |
| <b>Provision for taxes</b> | <b>5,000</b>  | <b>7,000</b>  |
| <b>Bank overdraft</b>      | <b>5,000</b>  | <b>15,000</b> |

Calculate the Current Ratio and Acid Test Ratio for the two years and give comment on the liquidity position of the company.

**Solution :**

$$\text{Current Ratio} = \frac{\text{Current Assets}}{\text{Current Liabilities}}$$

| <b>Current Assets:</b>      | <b>2002</b>                      | <b>2003</b>                       |
|-----------------------------|----------------------------------|-----------------------------------|
| Stock                       | 25,000                           | 40,000                            |
| Debtors                     | 10,000                           | 16,000                            |
| Cash at Bank                | 5,000                            | 4,000                             |
| <b>Current Liabilities:</b> |                                  |                                   |
| Creditors                   | 8,000                            | 15,000                            |
| Bills payable               | 2,000                            | 3,000                             |
| Provision for taxes         | 5,000                            | 7,000                             |
| Bank O.D                    | 5,000                            | 15,000                            |
| <b>Total</b>                | <b>20,000</b>                    | <b>40,000</b>                     |
| Current Ratio =             | 40,000<br>----- = 2: 1<br>20,000 | 60,000<br>----- = 1.5:1<br>40,000 |

**Acid Test Ratio (Quick Ratio) = Quick Assets ÷ Quick Liabilities**

| <b>Quick Assets:</b> | <b>2002</b> | <b>2003</b> |
|----------------------|-------------|-------------|
| Debtors              | 10,000      | 16,000      |

|                           |                                 |                                   |
|---------------------------|---------------------------------|-----------------------------------|
| Cash at Bank              | 5,000                           | 4,000                             |
| <b>Total</b>              | <b>15,000</b>                   | <b>20,000</b>                     |
| <b>Quick Liabilities:</b> |                                 |                                   |
| Creditors                 | 8,000                           | 15,000                            |
| Bills payable             | 2,000                           | 3,000                             |
| Provision for taxes       | 5,000                           | 7,000                             |
| <b>Total</b>              | <b>15,000</b>                   | <b>25,000</b>                     |
| Acid Test Ratio =         | $\frac{15,000}{15,000} = 1 : 1$ | $\frac{20,000}{25,000} = 0.8 : 1$ |

**Comment:** An ideal current ratio is '2'. The current ratio for 2002 is 2 and for 2003 is 1.5. An ideal acid test ratio is '1'. The acid test ratio for 2002 is 1.5 and for 2003 is 0.8. Thus the company's liquid position in 2002 is better than the liquid position in 2003.

## 19.7 QUESTIONS

1. What do you understand by Accounting Ratios? How does the ratio analysis technique help in the financial analysis?
2. Discuss the uses and limitation of Accounting Ratios
3. "A device for making financial data more meaningful is to reduce them to ratios." Elucidate.
4. Discuss the importance of Ratio Analysis for inter firm and intra firm comparisons, including circumstances responsible for its limitation, if any
5. Describe the various profitability ratios. How are they worked out?
6. The return of capital employed is often taken as measure of efficiency of an organisation"  
Comment.
7. Discuss the significance of the ratio analysis as a decision making technique.
8. Ratio are mechanical and incomplete. Explain
9. What does the rate of return on assets employed tell about management?
10. What do you understand by liquidity ratio , Leverage ratio, profitability ratio & Activity ratio?

## 19.8 EXERCISES

1. Following are the trading and Profit and Loss Account and Balance Sheet of Praneeth Ltd.

### Trading and Profit & Loss Account for the year ended 31<sup>st</sup> March, 2003

| Dr.                 | Rs.              | Cr.                 | Rs.              |
|---------------------|------------------|---------------------|------------------|
| To Opening Stock    | 5,80,000         | By Sales            | 30,00,000        |
| To Purchases        | 24,40,000        | By Closing Stock    | 6,20,000         |
| To Gross Profit c/d | 6,00,000         |                     |                  |
|                     | <b>36,20,000</b> |                     | <b>36,20,000</b> |
| To Sundry expenses  | 3,20,000         | By Gross Profit b/d | 6,00,000         |
| To Net Profit       | 2,80,000         |                     |                  |
|                     | <b>6,00,000</b>  |                     | <b>6,00,000</b>  |

### Balance Sheet as on 31-12-2003

| <i>Liabilities</i>  | <i>Rs.</i>       | <i>Assets</i>    | <i>Rs.</i>       |
|---------------------|------------------|------------------|------------------|
| Share Capital       | 28,00,000        | Net fixed Assets | 22,00,000        |
| Reserve and Surplus | 2,00,000         | Stock            | 6,20,000         |
| Profit for the year | 2,80,000         | Debtors          | 3,20,000         |
| Bank Overdraft      | 1,40,000         | Cash             | 8,80,000         |
| Creditors           | 6,00,000         |                  |                  |
|                     | <b>40,20,000</b> |                  | <b>40,20,000</b> |

- Calculate (1) Current Ratio, (2) Quick Ratio, (3) Gross Profit ratio, (4) Stock Turnover Ratio, (5) Debtors Turnover Ratio, (6) Net profit to paid – up Capital Ratio.



2. The following are extracts from the financial statements of M/s. Swetha Ltd., as on 31-12-1998 and 31-3-1999:

| <i>Items</i>       | <b>31-3-98</b> | <b>31-3-99</b> |
|--------------------|----------------|----------------|
|                    | <b>Rs.</b>     | <b>Rs.</b>     |
| Stock              | 20,000         | 50,000         |
| Debtors            | 40,000         | 40,000         |
| Bills Receivable   | 20,000         | 10,000         |
| Advances           | 4,000          | -              |
| Cash in hand       | 36,000         | 30,000         |
| Bills Payable      | 30,000         | 40,000         |
| Creditors          | 50,000         | 60,000         |
| Bank overdrafts    | -              | 4,000          |
| 9% Debentures      | 10,00,000      | 10,00,000      |
| Sales for the year | 7,00,000       | 6,00,000       |
| Gross profit       | 1,40,000       | 1,00,000       |

You are required to compute (1) Current Ratio, (2) Quick Ratio, (3) Stock turnover Ratio and (4) Debtors Turnover Ratio for two years.

3. From the following information's, prepare a Balance Sheet:
- Current Ratio: 2.5
  - Liquid ratio: 1.5
  - Proprietary ratio: 0.75 (Fixed assets / Proprietary fund)
  - Working capital: Rs.60, 000
  - Reserve & Surplus: Rs.40, 000
  - There is no long – term loans or fictitious assets.
4. From the following Balance Sheet of Popular & Co. as on 30-6-2005. Calculate (a) Liquid Ratio, (b) Current Ratio, (c) Fixed assets ratio and (d) Debt – equity ratio:

| <b>Liabilities</b>          | <b>Rs.</b>      | <b>Assets</b>    | <b>Rs.</b>      |
|-----------------------------|-----------------|------------------|-----------------|
| Equity Share Capital        | 1,00,000        | Fixed Assets     | 1,80,000        |
| 9% preference share capital | 50,000          | Stores           | 25,000          |
| 8% Debentures               | 50,000          | Debtors          | 55,000          |
| Reserves                    | 20,000          | Bills receivable | 3,000           |
| Creditors                   | 45,000          | Bank             | 2,000           |
|                             | <b>2,65,000</b> |                  | <b>2,65,000</b> |

5. From the following particulars calculate a) Gross profit ratio b) Net Profit ratio.  
Sales Rs.10, 00,000, Cost of goods sold Rs.5,00,000; other establishment charges Rs.2, 50,000.
6. From the following information relating to Moon Light Ltd., Prepare Balance sheet as on 31-12-04.
- Current ratio 2.5
  - Liquid ratio 1.5
  - Networking capital Rs.3, 00,000
  - G.P. Ratio 20%
  - Cost of sales/ Closing stock 8 times
  - Average debt collection period 1.5 times
  - Fixed assets / shareholders net worth 0.75
  - Reserves and surplus / share capital 0.50
7. Current ratio is 2/5; Quick ratio is 1:5; Working capital Rs.30, 000; Calculate stock value.
8. From the following data, calculate:
- Gross profit ratio,
  - Return on total assets,
  - Inventory turnover ratio,

- (d) Working capital turnover ratio and  
 (e) Net worth to debt ratio.

| <i>Particulars</i> | <i>Rs.</i> | <i>Particulars</i>   | <i>Rs.</i> |
|--------------------|------------|----------------------|------------|
| Sales              | 25,20,000  | Cost of goods sold   | 19,20,000  |
| Net profit         | 3,60,000   | Inventory            | 8,00,000   |
| Fixed assets       | 14,40,000  | Other current assets | 7,60,000   |
| Net Worth          | 15,00,000  | Debentures           | 9,00,000   |
| Liabilities        | 6,00,000   |                      |            |

9. Current ratio is 2.6 : 1 and Current liabilities are Rs.80,000. Find out Current Assets.
10. A company sells goods on cash as well as on credit. The following particulars are extracted from their books of accounts.

|                    | <b>Rs.</b> |
|--------------------|------------|
| Gross total sales  | 8,00,000   |
| Cash sales         | 1,60,000   |
| Sales Returns      | 56,000     |
| Debtors at the end | 72,000     |
| B /R at the end    | 16,000     |

Calculate debtors turnover ratio.

11. With the help of following ratios and further information, calculate

|                               |                          |                           |                     |
|-------------------------------|--------------------------|---------------------------|---------------------|
| (i) Sales                     | (ii) Gross Profit        | (iii) Net Profit          | (iv) Current assets |
| (v) Total capital             | (vi) Total liability and | (vii) Outsiders liability |                     |
| Gross profit ratio            |                          | 25%                       |                     |
| Net Profit Ratio              |                          | 20%                       |                     |
| Sales / inventory             |                          | 8                         |                     |
| Fixed Assets / Current assets |                          | $\frac{3}{4}$             |                     |
| Fixed Assets / Total Capital  |                          | $\frac{3}{2}$             |                     |
| Capital / outside Liabilities |                          | $\frac{2}{5}$             |                     |

|               |              |
|---------------|--------------|
| Fixed Assets  | Rs.15,00,000 |
| Closing Stock | Rs.2,00,000  |

12. From the following information, find out Current Assets, Current Liabilities and Value of Inventory.

- (a) current ratio 3.5
- (b) Liquid ratio 2.5
- (c) Working capital RS.2,00,000

13. The following are summarised profit and loss account of X Ltd. for the year ending 31-12-2003 and the balance sheet as at that date.

### Trading and Profit and Loss Account

| Particulars                | Rs.      | Particulars      | Rs.      |
|----------------------------|----------|------------------|----------|
| To Opening Stock           | 20,000   | By Sales         | 2,00,000 |
| To Purchases               | 1,10,000 | By Closing stock | 30,000   |
| To Gross Profit            | 1,00,000 |                  |          |
|                            | 2,30,000 |                  | 2,30,000 |
| To Administrative expenses | 30,000   | By Gross Profit  | 1,00,000 |
| To Interest                | 6,000    |                  |          |
| To Selling expenses        | 24,000   |                  |          |
| To Net Profit              | 40,000   |                  |          |
|                            | 1,00,000 |                  | 1,00,000 |

### Balance Sheet

| Liabilities | Rs.      | Assets              | Rs.      |
|-------------|----------|---------------------|----------|
| Capital     | 2,00,000 | Land and Buildings  | 1,00,000 |
| P & L a/c   | 40,000   | Plant and Machinery | 60,000   |

|               |          |                  |          |
|---------------|----------|------------------|----------|
| Creditors     | 50,000   | Stock            | 30,000   |
| Bills payable | 30,000   | Sundry Debtors   | 30,000   |
|               |          | Bills receivable | 25,000   |
|               |          | Cash at Bank     | 35,000   |
|               |          | Furniture        | 40,000   |
|               | 3,20,000 |                  | 3,20,000 |

Additional Information :

1. Average debtors Rs.25,000
2. Average credit purchases Rs.80,000

You are required to calculate :

- (a) Net profit ratio (b) Operating ratio (c) Debtors turnover ratio (d) Creditors Turnover ratio (e) Current ratio (f) Sales to Fixed Assets ratio (g) Acid Test Ratio

14. Following is the balance sheet of Rudramamba company Limited:

| Liabilities          | Rs.             | Assets             | Rs.             |
|----------------------|-----------------|--------------------|-----------------|
| Equity capital       | 5,00,000        | Land and Buildings | 3,50,000        |
| 5% Debentures        | 2,00,000        | Machinery          | 2,50,000        |
| Bank loan            | 1,50,000        | Cash in hand       | 25,000          |
| Creditors            | 75,000          | Cash at Bank       | 55,000          |
| Bills payable        | 50,000          | Debtors            | 85,000          |
| Outstanding expenses | 5,000           | Bills receivable   | 1,05,000        |
|                      |                 | Stock              | 1,00,000        |
|                      |                 | Prepaid expenses   | 10,000          |
|                      | <b>9,80,000</b> |                    | <b>9,80,000</b> |

With the help of above particulars calculate:

- (i) Current ratio

- (ii) Quick Ratio
- (iii) Debt- equity ratio
- (iv) Proprietary ratio

15. The following are the profit and loss account of a company for the year ended 31-12-2003 and the balance sheet as on that date.

| Dr.                       |          | Trading and Profit and Loss Account |  | Cr. |          |
|---------------------------|----------|-------------------------------------|--|-----|----------|
| Particulars               | Rs.      | Particulars                         |  |     | Rs.      |
| To Opening Stock          | 99,500   | By Sales                            |  |     | 8,50,000 |
| To Purchases              | 5,45,250 | By Closing stock                    |  |     | 1,49,000 |
| To Incidental charges     | 14,250   |                                     |  |     |          |
| To Gross profit           | 3,40,000 |                                     |  |     |          |
|                           | 9,99,000 |                                     |  |     | 9,99,000 |
| To Operating expenses     | 1,95,000 | By Gross profit                     |  |     | 3,40,000 |
| To Non-operating expenses | 4,000    | By Non-operating income :           |  |     |          |
| To Net profit             | 1,50,000 | Interest                            |  |     | 3,000    |
|                           |          | Profit on sale of shares            |  |     | 6,000    |
|                           | 3,49,000 |                                     |  |     | 3,49,000 |

#### Balance Sheet

| Liabilities           | Rs.      | Assets         | Rs.      |
|-----------------------|----------|----------------|----------|
| Capital               | 2,00,000 | Fixed assets   | 2,30,000 |
| Reserve               | 90,000   | Current assets | 2,50,000 |
| Profit & loss account | 60,000   |                |          |
| Current liabilities   | 1,30,000 |                |          |
|                       | 4,80,000 |                | 4,80,000 |

You are required to calculate :

- (i) Gross profit ratio

- (ii) Net profit ratio
- (iii) Current ratio
- (iv) Operating ratio

**16.** From the following calculate:

- (a) Gross profit ratio
- (b) Operating ratio
- (c) Return on assets
- (d) Return on equity capital

Equity capital Rs.6,00,000

Total Assets: Rs.16,00,000

8% Borrowed capital: 50% of total assets

Direct costs for the year: Rs.9.6 lakhs

Operating expenses: Rs.1.6lakhs

Goods are sold to customer at 150% of direct costs.

Tax rate: 50%.

**17.** From the following details prepare the balance sheet of Sri Damodara & Co. as on 31st December 2004.

|                             |             |
|-----------------------------|-------------|
| Stock of velocity           | : 6 times   |
| Capital turnover ratio      | : 2 times   |
| Fixed assets turnover ratio | : 4 times   |
| Gross profit                | : 20%       |
| Debtors collection period   | : 2 months  |
| Creditors payments period   | : 73 days   |
| The Gross profit was        | Rs.6,00,000 |

**18.** The following is the Trading and Profit and Loss Account of a firm.

**Trading and Profit and Loss a/c**

| Particulars                | Rs.      | Particulars         | Rs.      |
|----------------------------|----------|---------------------|----------|
| To Opening stock           | 10,000   | By Sales            | 1,00,000 |
| To Purchases               | 55,000   | By Closing stock    | 15,000   |
| To Gross profit c/d        | 50,000   |                     |          |
|                            | 1,15,000 |                     | 1,15,000 |
| To Administration expenses | 15,000   | By Gross profit b/d | 50,000   |
| To Interest                | 3,000    |                     |          |
| To Selling expenses        | 12,000   |                     |          |
| To Net profit              | 20,000   |                     |          |
|                            | 50,000   |                     | 50,000   |

Calculate the following ratios :

(a) Inventory turnover ratio (b) Gross profit ratio (c) Net profit ratio (d) Operating ratio

**19.** Using the following data, complete the Balance Sheet below

|  |   |           |
|--|---|-----------|
| Gross profit (20% of Sales)                            | : | Rs.60,000 |
| Shareholder's equity                                   | : | Rs.50,000 |
| Credit sales to total sales                            | : | 80%       |
| Total assets turnover                                  | : | 3 times   |
| Inventory turnover (to cost of sales)                  | : | 8 times   |
| Average debtors collection period<br>(360 days a year) | : | 18 days   |
| Current ratio  | : | 1:6       |
| Long-term debt to equity                               | : | 40%       |



**Balance Sheet**

|                      | Rs. |              | Rs. |
|----------------------|-----|--------------|-----|
| Creditors            | ... | Cash         | ... |
| Long term debt       | ... | Debtors      | ... |
| Shareholder's equity | ... | Inventory    | ... |
|                      |     | Fixed Assets | ... |
|                      |     |              |     |

**19.9 SUGGESTED READINGS**

1. Bhattacharyya, S.K., John Dearden, Costing for Management, Vikas Publishing House Pvt. Ltd., 2002
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## Chapter - 20

# WORKING CAPITAL MANAGEMENT

## Objectives

After studying this lesson we should be able to

- Understand the concept of working capital
- Know the factors determining working capital
- Find out the matters of forecasting working capital requirements of any organisation

## Structure

- 20.1 Introduction**
- 20.2 Concept of Working Capital**
- 20.3 Factors determining working capital**
- 20.4 Methods of forecasting working capital requirements**
- 20.5 Questions**
- 20.6 Exercises**
- 20.7 Suggested Readings**

### 20.1 INTRODUCTION :

Working capital management is a significant part of business decisions and is of major concern to a finance manager in as much as accomplishment of value maximization goal depends essentially on prudent working capital decisions. Maintaining optimal level of working capital is crux of the problem with which finance manager is seriously concerned because problem of trade off between risk and return is involved. A firm is required to carry adequate amount of working capital so as to carry on the productive and distributive activities smoothly. Thus, holding adequate amount of raw materials in stock ensures uninterrupted production activity. Like wise, sufficient stock of finished goods has also to be maintained in anticipation of future demand and for this

purpose the firm would need funds. Goods usually sold on credit do not return cash immediately. The firm will have to arrange for funds to finance accounts receivables for the period until they are collected. Alongside this, a minimum level of cash is required for the ordinary operations of the enterprise, for availing of the business opportunities and for absorbing shocks of business vicissitudes. However, these assets will have to be maintained at appropriate level because both surfeit and shortage of working capital is detrimental to the financial health of the enterprise. Lesser the liquid resources held in the firm to satisfy operational requirements, the more can be invested in income-producing fixed assets. This does not imply that the firm should reduce the holdings of current assets even below the minimum required level because that would mean interrupted production and sales because of frequent stock outs and inability to sell goods on credit to marginal customers due to restrictive credit policy and loss of credit standing in the market owing to failure of the firm in the past to pay creditors in time.

Finance manager is, therefore, in a dilemma between liquidity and profitability. An astute finance manager has to manage working capital in such a way as to maximize profits of the firm without impairing its liquidity. This calls for setting optimal level of working capital. Setting optimal level of working capital requires an exercise of determining that level of current assets where total cost of liquidity and cost of liquidity is minimum. This is why management of working capital calls for careful attention of a finance manager.

Working capital management is particularly more important to small firms. A small firm may reduce its fixed assets requirements by renting or leasing plant and equipment, but there is no way it can avoid an investment in current assets. Finance manager should, therefore, devote considerable time to manage current assets. Further, owing to limited access to the capital market, small firm has to rely heavily on trade credit and short-term bank loans. Both affect net working capital by increasing current liabilities.

### **20.1.1 Trade off between liquidity and profitability :**

The finance manager of a business enterprise has to strike a trade off between conflicting but equally important goals of liquidity and profitability. Greater the resources of the firm in liquid form, lesser will be its profitability and the vice-versa. A finance manager has to maintain the working capital at such level as may ensure satisfactory earnings to the enterprise without jeopardizing its liquidity position. This is possible only when he has thorough acquaintance of the conception of working capital, factors influencing the level of working capital requirements and methods of

determining the requirements of working capital precisely. The present chapter is devoted to discuss these aspects in detail.

### **20.1.2 Conceptual understanding of working capital management :**

The term working capital is understood in two different but interlinked senses. In the first sense, working capital refers to sum total of all current assets employed in the business process. This is known as 'Gross working capital' concept. This is also known as going concern concept, since finance manager is highly concerned with the management of these assets with a view to bringing about productivity from other assets. The gross concept of working capital is considerably useful in making correct estimate of working capital needs of the firm. Working capital is also understood in terms of net concept according to which excess of current assets over current liabilities represents working capital.

Both the gross and net concepts are not to be regarded as mutually exclusive. Each has its relevance in specific situations. Gross working capital concept focuses on the problems of managing individual current assets in day-to-day operations. It is in the nature of a quantitative definition that highlights attention on the levels of current assets for given activity.

The concepts used in working capital management are given below for clear understanding.

- (i) **Gross Working Capital** : It refers to the firms investment in current assets i.e., mainly stock, debtors, Bill receivables and cash.
- (ii) **Net working capital** : It is the difference between the current assets and current liabilities. If the current assets exceed the current liabilities, it is a positive one.
- (iii) **Negative Working Capital** : This situation occurs when the current liabilities exceed the current assets. It is an indication of crisis to the firm.
- (iv) **Fixed Working Capital** : Every firm is required to maintain a minimum balance of cash, inventory etc. in order to meet the business requirements even in the slack season. This part of the current assets is called as permanent or fixed working capital. It will be a sound policy, if this is financed by long-term sources of finance.

- (v) **Variable Working Capital** : Net working capital minus fixed working capital will be the variable working capital. It is also called as fluctuating working capital. It varies with seasonal requirements and scale of operations in a business.

## 20.2 Factors determining working capital :

Working capital requirements of a concern depend on a number of factors, each of which should be considered carefully for determining the proper amount of working capital. These factors have been discussed below :

- 1. Nature of Business** : Working Capital requirements of an enterprise are basically determined by the nature of its business. Trading concerns invest a major part of their funds on inventories and bills receivable, and they also have to keep large amounts of cash. Conversely, the public utility concerns like railways, electricity, insurance etc., need relatively much less inventories and cash. Manufacturing concerns stand in between these two extremes. Working capital requirements of these concerns depends on a number of factors including nature of products, technology, marketing policies etc.
- 2. Production Policies** : Production policies pursued by the management constitute an important factor determining the working capital requirements of the firm. More working capital is required by those industries, which produce, or sale goods in a particular season. For example : Sugar and Woollen textile industries require more working capital in winter season. Likewise, concerns engaged in the manufacture of fans, refrigerators, water coolers etc., undertake production whose year, whereas sales take place only in summer season. Such concerns of seasonal nature also require more working capital.
- 3. Size of Business** : The amount of working capital also depends upon the size of a business unit. Generally, large-scale concerns require more working capital as against the small concerns for maintaining big inventories and carrying out business operations.
- 4. Length of Manufacturing Cycle** : The size of working capital is also influenced by the length of the manufacturing cycle. Manufacturing process always involves a time lag between the time when raw materials are fed in the production line and finished products are finally turned out by it. The length of this period depends on the nature of products and production technology used by a concern. Longer the manufacturing process, the higher will be the requirements of working capital and vice versa. Generally, highly capital-intensive

industries need more working capital because of their highly sophisticated and production process. A concern can reduce its working capital needs by shortening the length of its manufacturing cycle through technological improvements, and also by efficient planning and control of its manufacturing operations.

- 5. Credit Policy :** Almost all manufacturing companies and also several trading company's use customer credit as one of their promotional tools. Companies allowing liberal credit to their customers require more working capital as against the companies which have efficient debt collection machinery and observe strict credit terms. This is because in the former case, a substantial amount of fund is tied up in bills receivable or sundry debtors. Similarly, working capital needs are also determined by the credit facilities availed by a business concern from its suppliers. Liberal credit facilities from the suppliers of raw materials inventories reduce the working capital requirements of a concern to that extent. A company which does not enjoy liberal credit facilities from its suppliers will need more amount of working capital.
- 6. Turnover of Circulating Capital :** There is a high degree of correlation between the quantum of working capital and the speed with which the sales are affected. Companies with higher rate of turnover or faster sales will need less amount of working capital as against the companies with low turnover ratio.
- 7. Business Fluctuations :** Cyclical changes in the economy also influences the level of working capital. During boom period, the tendency of management is to pile up inventories of raw materials and finished goods to avail the advantage of rising prices. This creates demand for more capital. Similarly, during depression when the prices and demand for manufactured goods constantly reduce the industrial and trading activities show a downward trend. Hence, the demand for working capital is low.
- 8. Growth and Expansion of Business :** In the beginning, the working capital requirements of a company are low. However, with the gradual growth and expansion, its working capital needs also increase. Discernibly, large amount of working capital in a growing concern is required for its expansion programmes.
- 9. Economies of Scale :** Need for working capital is also influenced by a company's desire to take advantage of the economies of scale. In purchasing inventories, it balances the

ordering costs against carrying costs so as to arrive at the optimum order quantity. Similarly, it balances the transaction costs of borrowed funds against their interest costs.

- 10. Current Assets Policies :** the quantum of working capital of a company is significantly determined by its current assets policies. A company with conservative assets policy may operate with a relatively high level of working capital than its sales volume. It may carry larger volume of raw materials and finished goods inventories, offer liberal terms of credit to its customers and carry a large amount of cash to meet its current expenditure. On the contrary, a company pursuing an aggressive current assets policy operates with a relatively lower level of working capital.
- 11. Fluctuations of Supply :** Certain companies have to maintain large reserves of raw material due to their irregular sales and intermittent supply. This is particularly true in case of companies, which require special kind of materials available from limited sources. Similarly, companies using bulky materials also maintain large reserves of raw materials inventories. In case of such companies, the working capital requirements would be large.
- 12. Labour-intensive Vs. Capital-intensive Industries :** In case of labour-intensive industries the working capital requirements will be high due to regular payments of heavy wage-bills and overtime. On the other hand, highly automatic and capital-intensive industries require lesser amount of working capital because of heavy investments in fixed assets and shorter time in manufacturing process.
- 13. Seasonal Variations :** A number of industries manufacture and sell goods only during certain seasons. For example, sugar, oil and woollen textile industries have either seasonal supplies of raw materials or make their sales in a particular season. Hence, the working capital requirements of such industries will be higher during a certain season as compared to any other period.
- 14. Dividend Policy :** Dividend policy also influence the working capital requirements of a business enterprise. If a company follows a conservative dividend policy, more working capital would be required because more funds would be needed for payment to the shareholders even if the company's earnings are not sufficient to cover such payment. On the contrary, if a strick dividend policy is followed by the management, less working capital will be needed by the concern. This is so because a portion of the company's earnings may be retained in the business.

**15. Other Factors :** Besides the above considerations, there are a number of other factors which affect the working capital of a business concern. Some of them are as follows :

- (i) Effective co-ordination between production and distribution policies will reduce the quantum of working capital in a business concern.
- (ii) Less developed means of transportation and communication and to the quantum of working capital of companies in such area, because of stockpiling.
- (iii) The magnitude of working capital is also determined by the extent of hazards and contingencies inherent in a particular type of business.
- (iv) Absence of specialization in marketing of goodwill require more working capital, because such concerns will have to maintain their own marketing organizations.
- (v) Companies, which have good banking connections and proved credit worthiness, will require less working capital as they can easily obtain the requisite funds from banks.

### **20.2.1. Financing of Working Capital :**

The following sources are available for financing the working capital :

- (a) Loans from Financial institutions.
- (b) Floating debentures.
- (c) Public deposits
- (d) Issue of shares
- (e) Retained Earnings or internal resources.
- (f) Trade creditors and advances from customers.
- (g) Bank credit.

While selecting, the source of finance, the cost of financing flexibility, risk of financing, taxes and return are to be taken into account.

### **20.3 Methods of Forecasting Working Capital Requirements :**

After taking into consideration myriad of factors that influence working capital needs of the firm, finance manager prepares a working capital forecast. In preparing such forecast, first of all the



estimate of all the current assets should be made. Thus, estimate of amount of raw materials and finished goods to be held in stock and amount of materials that will remain tied in process and outstanding receipts from different parties and other receipts will have to be made. This estimate should be followed by estimate of current liabilities comprising outstanding payments of wages, stores, materials, rent administrative expenses, taxes and other expenses. Difference between the forecasted amount of current assets and current liabilities gives net working capital requirements of the firm. To this amount, a flat percentage would be added by way of provision for contingencies. The rationale of making this provision lies in the fact that most of the figures required to build up a composite figure of working capital can only be guess estimates even with the best of efforts and the provision for contingencies would provide cushion to the management with which they can withstand any business orders.

In preparing working capital forecast, the following information are required :

- (1) Costs to be defrayed on materials, wages and overheads;
- (2) Length of time during which raw materials are to remain in stock before they are put to production;
- (3) Length of production cycle;
- (4) Length of sale cycle denoting the period of time finished goods have to stay in the warehouse before sale;
- (5) Period of credit allowed to debtors;
- (6) Period of credit availed from creditors;
- (7) Time lag involved in the payment of wages and overhead expenses.

### **Cash Cost Technique :**

The above technique of forecasting the working capital needs is known as 'Cash Cost' technique of forecasting. In this method, all transactions are shown in the working capital forecast on cost basis.

### **Balance Sheet Method :**

There is another technique of forecasting working capital requirements and it is 'Balance Sheet Method'. In this method a forecast is made of the various assets and liabilities. Thereafter, the difference between the two is taken out. This difference will indicate the deficiency or surplus of cash.

**Illu.1 : Find out quantity of Raw materials to be purchased from the following:**

**Production 1000 units**

**Raw materials required to produce one unit of output is 10kgs.**

**Closing stock of raw materials to be maintained at 2000 kgs. There is no opening stock of raw materials.**

**Solution :**

**Raw materials to be purchased**

For the production one unit ---- 10kg are required

For the production of 10,000 units –

$$1,000 \times 10 = 10,000\text{kgs.}$$

Closing stock to be held -        2,000kgs

-----

Raw materials to be purchased 12,000Kgs.

-----

**Illu.2 : Mr. Murthy wishes to commence a new trading business and he gives the following information:**

- (i) The total estimated sales in a year Rs.12,00,000.
- (ii) Estimated fixed expenses Rs.2,000 per month and variable expenses equal to five percent of his turnover.
- (iii) He expects to fix a Sales price for each unit, which will be 25% in excess of his cost of purchase.
- (iv) He expects to turnover his stock four times in a year.
- (v) The sales and purchases will be evenly spread throughout the year.
- (vi) All sales will be for cash but he expects one month 's credit for purchases.

**Calculate his average working capital requirements.**

**Solution :**

**Statement of Working Capital Requirements**

| Particulars     | Rs. |
|-----------------|-----|
| Current Assets: |     |

|  |                 |
|--|-----------------|
| 1. Stock   | 2,40,000        |
| Turnover of stock is 4 times                             |                 |
| Stock turnover = Cost of goods sold / average stock      |                 |
| Or $4 = \text{Rs.}9,60,000 / \text{Average stock}$       |                 |
| Or Average stock = $9,60,000 / 4 = \text{Rs.}2,40,000$   |                 |
| 2. Cash: To meet fixed expenses = Rs.2,000               | 7,000           |
| To meet variable expenses                                |                 |
| $(12,00,000 \times 5/100 \times 1/12) = \text{Rs.}5,000$ |                 |
| Assumed for one month = Rs.7,000                         |                 |
| Debtors (as all sales are for cash only)                 | NIL             |
|  | 2,47,000        |
| <b>Less:</b> current Liabilities:                        |                 |
| Creditors (1 month) $\text{Rs.}9,60,000 \times 1/12$     | 80,000          |
| <b>Working capital required</b>                          | <b>1,67,000</b> |

**Illu.3 :** Mr. Kiran wishes to commence a new trading business and gives the following information.

- (a) The total estimated sales in a year will be Rs.12,00,000
- (b) His expenses are estimated as fixed expenses of Rs.2,000 per month plus variable expenses equal to five percent of his turnover.
- (c) He expects to fix a sales price for each product which will be 25 percent in excess of his cost of purchase.
- (d) He expects to turnover his stock four times a year.
- (e) The sales and purchases will be evenly spread throughout the year. All sales will be for cash but he expects one month's credit for purchases.

Calculate:

- (i) His estimated profit for the year
- (ii) His average working capital requirements.

**Solution :**

- (i) Estimated Profit of



**Elements of cost:****Materials 40%****Direct Labour 20%****Overheads 20%****The following further particulars are available:**

- (a) It is proposed to maintain a level of activity of 2,00,000 units.
- (b) Selling price is Rs.12 per unit
- (c) Raw materials are expected to remain in stores for an average period of one month.
- (d) Materials will be in process, on average half a month
- (e) Finished goods are required to be in stock for an average period of one month.
- (f) Credit allowed to debtors is two months
- (g) Credit allowed by suppliers is one month.

You may assume that sales and production follow a consistent pattern. You are required to prepare a statement of working capital requirements a forecast profit & Loss account and balance sheet of the company assuming that.

|               | Rs.       |
|---------------|-----------|
| Share capital | 15,00,000 |
| 8% debentures | 2,00,000  |
| Fixed assets  | 13,00,000 |

**Solution :****Statement of Net Working Capital Required**

|  | Rs.      | Rs.             |
|--|----------|-----------------|
| <b>Current Assets:</b>   |          |                 |
| Stock of Raw Materials (1 month) $24,000 \times 40 / 100 \times 12$              |          | 80,000          |
| <b>Work –in-process (1/2 month):</b>   |          |                 |
| Materials $\text{Rs.}24,00,000 \times 40 / 100 \times 12 \times \frac{1}{2}$     | 40,000   |                 |
| Labour $\text{Rs.}24,00,000 \times 20 / 100 \times 12 \times \frac{1}{2}$        | 20,000   |                 |
| Overheads $\text{Rs.}24,00,000 \times 20 / 100 \times 12 \times \frac{1}{2}$     | 20,000   | 80,000          |
| Stock of finished goods (1 month)  |          |                 |
| Materials $\text{Rs.}24,00,000 \times 40 / 100 \times 12$                        | 80,000   |                 |
| Labour $\text{Rs.}24,00,000 \times 20 / 100 \times 12$                           | 40,000   |                 |
| Overheads $\text{Rs.}24,00,000 \times 20 / 100 \times 12$                        | 40,000   | 1,60,000        |
| <b>Debtors (2 months) at cost</b>  |          |                 |
| Material   | 1,60,000 |                 |
| Labour   | 80,000   |                 |
| Overheads  | 80,000   | 3,20,000        |
|  |          | 6,40,000        |
| <b>Less: Current Liabilities:</b>  |          |                 |
| Creditors (1 month) for raw materials $24,00,000 \times 40 / 100$<br>$\times 12$ |          | 80,000          |
| <b>Net working Capital Required</b>  |          | <b>5,60,000</b> |

(Note: Sales =  $2,00,000 \times 12 = \text{Rs.}24,00,000$ )

| Dr.          | Forecast Profit and Loss Account for the year ended |                    | Cr.              |
|--------------|---|--------------------|------------------|
|              | Rs.   |                    | Rs.              |
| To Materials | 9,60,000  | By cost goods sold | 19,20,000        |
| To wages     | 4,80,000  |                    |                  |
| To Overheads | 4,80,000  |                    |                  |
|              | <b>19,20,000</b>                                    |                    | <b>19,20,000</b> |

|                           |                  |                     |                  |
|---------------------------|------------------|---------------------|------------------|
| To Cost of goods sold     | 19,20,000        | By Sales            | 24,00,000        |
| To Gross profit c/d       | 4,80,000         |                     |                  |
|                           | <b>24,00,000</b> |                     | <b>24,00,000</b> |
| To Interest on Debentures | 16,000           | By Gross profit b/d | 4,80,000         |
| To Net Profit             | 4,64,000         |                     |                  |
|                           | <b>4,80,000</b>  |                     | <b>4,80,000</b>  |

| Dr.           | Balance Sheet as at.... |                     | Cr.              |
|---------------|-------------------------|---------------------|------------------|
| Liabilities   | Rs.                     | Assets              | Rs.              |
| Share capital | 15,00,000               | Fixed Assets        | 13,00,000        |
| 8% Debentures | 2,00,000                | Stock               |                  |
| Net Profit    | 4,64,000                | Raw Materials       | 80,000           |
| Creditors     | 80,000                  | Work – in – process | 80,000           |
|               |                         | Finished Goods      | 1,60,000         |
|               |                         | Debtors             | 4,00,000         |
|               |                         | Cash & Bank balance | 2,24,000         |
|               | <b>22,44,000</b>        |                     | <b>22,44,000</b> |

**Working Notes:**

- (a) Profit was ignored while preparing working capital requirements for the following reasons:
- (i) Profits may or may not be used for working capital.
  - (ii) Even if profits have to be used for working capital, they are to be reduced by the amount of income tax, dividends, etc.
- (b) Assumed that Interest on debentures was paid.

**20.5 QUESTIONS :**

1. Discuss the concept of working capital. Are the gross and net concepts of working capital exclusive? Explain.

2. Enumerate the cardinal principles of working capital management. Discuss the significance of these principles in management of working capital.
3. Discuss the risk return trade off in current assets financing.
4. Explain the merits of a matching plan in relation to financing extensively using (a) long term financing (b) short term financing.
5. What factors should the finance manager take into consideration while estimating working capital needs of a firm?
6. How does a stores accounting system provide the essential information for inventory control decisions.
7. What are the different methods of valuation of materials?
8. What is meant by FIFO, LIFO, HIFO and Weighted average method? Where are they used?

## 20.6 EXERCISES

1. Krishna & Co. is desires to purchase a business and has consulted you on one point on which you are asked to advise them is the average amount of working capital which will be required in the first year's working.

You are given the following estimates and are instructed to add 10% to your computed figure to allow for contingencies.

Figures for the year

|   | <b>Rs.</b> |
|---|------------|
| (a) Amount blocked up for stocks:               |            |
| Stock of finished product                       | 5,000      |
| Stock of stores, material etc.                  | 8,000      |
| (b) Average credit given:                       |            |
| Inland sales – 6 weeks credit                   | 3,12,000   |
| Export – Sales – 11/2 weeks credit              | 78,000     |
| (c) Lag in payment of wages and other outgoing: |            |
| Wages 1 ½ weeks                                 | 2,60,000   |
| Stock of material etc. 1 ½ month                | 48,000     |
| Rent, royalties etc. – 6 months                 | 10,000     |



|   |        |
|---|--------|
| Clerical staff – ½ month                              | 62,400 |
| Manager – ½ month                                     | 4,800  |
| Miscellaneous expenses – 1 ½ months                   | 48,000 |
| (d) Payment in advance:                               |        |
| Sundry expenses (paid quarterly in advance)           | 8,000  |
| (e) Undrawn profit on the average throughout the year | 11,000 |

Estimate the average amount of working capital required.

2. A proforma cost sheet of a company provides the following particulars :

| Elements of cost     | Amount per unit |
|----------------------|-----------------|
|                      | Rs.             |
| Raw materials        | 80              |
| Direct labour        | 30              |
| Overheads            | 60              |
| <b>Total cost</b>    | <b>170</b>      |
| Profit               | 30              |
| <b>Selling price</b> | <b>200</b>      |

The following further particulars are available :

- (a) Raw materials are in stock on an average for one month
- (b) Materials are in process on an average half of month
- (c) Finished goods are in stock on an average for one month
- (d) Credit allowed by suppliers is one month
- (e) Credit allowed to customers is two months
- (f) Lag in payment of wages is 1 ½ weeks
- (g) Lag in payment of overheads is one month
- (h) ¼ th of the output is sold against cash.
- (i) Cash in hand and at bank is expected to be Rs.25,000.

You are required to prepare a statement showing the working capital needed to finance a level of activity of 1,04,000 units of production.

You may assume that production is carried on evenly through out the year, wages and overheads accrue similarly and a time period of 4 weeks is equivalent to a month.

3. Shiva Leasing Ltd. is taking up a new project, which will have weekly sales of 40,000 units at Rs.45, a unit. Credit customers is being given for six weeks. Unit cost will be Rs.18 for direct material and Rs.7.50 for direct labour, while overheads will run at Rs.6,00,000 per week. Planned stocks will include Rs.37,50,000 raw materials and 2,00,000 units in the finished goods store. Creditors follows the month of delivery and for overheads four weeks after incurring the expenses. Wages are paid at the end of each week for the whole of that week. Units are two weeks in production and profit is remitted to the parent company. At the moment of sale, a cash flow of Rs.5,00,000 is considerable  
Prepare a working capital estimate for the Shiva Leasing Ltd.

4. The proforma cost sheet of Sri Nadh Ltd. Provides the following information:

| Particulars     | Per unit (Rs.) |
|-----------------|----------------|
| Direct Material | 80             |
| Direct Labour   | 30             |
| Overheads       | 60             |
| Total cost      | 170            |
| Profit          | 30             |
| Selling price   | 200            |

*Additional Information:*

- (a) On an average one month of raw materials are in stock
- (b) Work –in –progress carries for half a month an average
- (c) Finished goods on an average are in stock for one month
- (d) Credit allowed by suppliers is one month
- (e) Credit allowed to debtors is two months

(f) Lag in payment of wages is 1 ½ weeks

(g) Lag in payment of overheads is one month.

One-fourth of the output is sold against cash. Cash on hand and at bank is expected to be Rs.25, 000.

You are required to prepare a statement showing the working capital needed to finance a level of activity of 1,04,000 units production.

You may assume a period of 4 weeks is equivalent to a month and production is carried on evenly throughout the year and wages and overheads accrue similarly.

## 20.7 SUGGESTED READINGS :

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