

# **CHAPTER 6**

# WORKING CAPITAL AND WORKING CAPITAL MANAGEMENT

#### **WORKING CAPITAL**

It is also known as net working capital and also it is the operating liquidity to an entity.

### Working Capital = Current Assets - Current Liability

Here CA & CL means the following 3 accounts are getting more special.

- 1. Account Receivable
- 2. Account Payable
- 3. Inventories / Stock

Internal & external factors that affect working capital needs

- 1. Internal factors
  - \* Company size & growth rates
  - \* Organizational structures
  - \* **Borr**owing & investing positions
- 2. External factors
  - \* Banking services
  - \* Interest rates
  - \* New technologies & new products
  - \* Competitors



#### WORKING CAPITAL MANAGEMENT

It is to ensure that the entity is able to continue its operations & that it has sufficient cash flow to satisfy both maturing short term debt & upcoming operational expenses.

## WORKING CAPITAL RATIO'S

### 1. <u>Current Rate / Working Capital Ratio</u>

 $Current Ratio = \frac{Current Asset}{Current Liabilities}$ 

2. <u>Quick Asset Ratio / Quick Ratio / Acid Test</u>

 $Quick Asset Ratio = \frac{Current Asset - Inventories}{Current Liabilities}$ 

#### 3. <u>Inventory Days Period</u>

Inventory Days Period =  $\frac{\text{Average Inventory}}{\text{Cost of Goods Sold}} \times 365$ 

or

Inventory Days Period =  $\frac{365}{\text{Inventory Turnover Ratio}}$ 

# 4. <u>Inventory Turnover Ratio / Stock Turnover Ratio</u>

Inventory Turnover Ratio =  $\frac{\text{Cost of Goods Sold}}{\text{Average Inventory}}$ 

#### 5. <u>Receivable Days Ratio</u>

Receivable Days Ratio =  $\frac{\text{Average receivables}}{\text{Turnover}} \times 365$ 

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Pioneers in Professional Educatio or 365 Receivable Days Ratio =  $\frac{1}{\text{Receivarble Turnover Ratio}}$ **Receivable Turnover Ratio** Turnover Receivable Turnover Ratio =  $\frac{1}{\text{Average A/C Receivable}}$ **Payable Days Ratio** Average A/C Payable Payable Days Ratio = × 365 Purchases or 365 Payable Days Ratio = Payable Turnover Ratio

#### 8. <u>Payable Turnover Ratio</u>

6.

7.

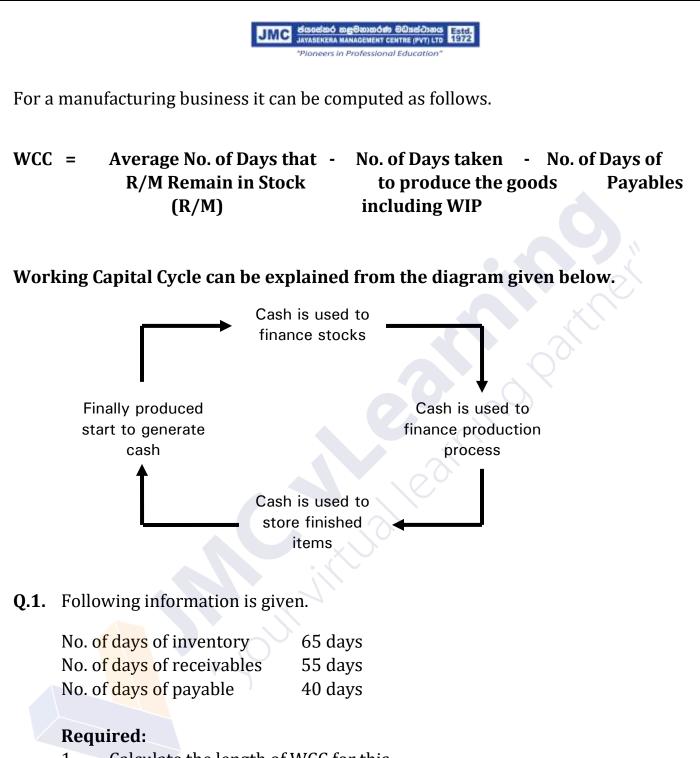
Payable Turnover Ratio =  $\frac{Purchases}{Average A/C Payable}$ 

# WORKING CAPITAL CYCLE

It is the amount of time it takes to turn the Current Assets& Current Liabilities into cash. In another terms it is the length of time between payments for materials entering into stocks & receipts of proceeds of sale.

For a trading business it is computed as follows.

WCC = No. of Days of + No. of Days of - No. of Days of Receivables Inventories Payables



1. Calculate the length of WCC for this.

**Q.2.** Following information was extracted from the annual a/c of K PLC for the past 2 years.

| 2014 (Rs. Mn) | 2013(Rs. Mn)                     |
|---------------|----------------------------------|
| 200           | 110                              |
| 500           | 450                              |
| 600           | 625                              |
| 400           | 350                              |
| 3000          | 950                              |
| 2500          | 750                              |
|               | 200<br>500<br>600<br>400<br>3000 |

#### **Required:**

1. Calculate the length of WCC cycle for 2014.

#### **Q.3.** Following information is given below

Receivables turnover ratio is11Inventory turnover ratio is9Payable turnover ratio is8

- 1. Calculate the length of WCC.
- **Q.4.** Following information is given below for f/y for 2014.

# No. of daysRaw materials60 daysWIP25 daysFG30 daysReceivables65 daysPayables55 days

#### **Required:**

1. Calculate the length of WCC.

**Q.5.** Following information is given below.

| Details            | 2014 (Rs. Mn) | 2013(Rs. Mn) |
|--------------------|---------------|--------------|
| Stock              |               |              |
| Raw materials      | 20            | 15           |
| WIP                | 25            | 20           |
| FG                 | 15            | 10           |
| Material purchases | 100           | 80           |
| COGS               | 180           | 130          |
| Sales              | 225           | 162          |
| Receivables        | 40            | 35           |
| Payables           | 25            | 20           |
|                    |               |              |

#### **Required:**

1. Calculate the length of WCC.

#### **OVER TRADING**

If often occurs when entities expand it's own operation aggressively.

It happens when a business tries to do too much too quickly with two little long term capital.

Even if over trading business operates at a profit it could easily run into serious trouble because it operates with short of money.

# Possible symptoms of over trading

- \* There is rapid increase in turnover
- \* There is only a small increase retained earnings.
- \* The payment period to creditors is likely to lengthen.
- \* OD often reaches or even exceeds the limit of the facilities agreed by the bank.
- \* The current ratios and the quick ratio fall.

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# **MANAGING CASH**

Different ways of arising cash flow problems.

- 1. Losses
- 2. Growth or expansion of business
- 3. Inflation
- 4. Seasonal business

#### Method of easing cash shortage

- \* Obtaining a bank overdraft
- \* Obtaining a short term bank loan or intercompany loans
- \* Post ponding capital expenditure
- \* Reversing post investment decision by selling assets previously acquired.

#### Method of investing cash surplus

- \* Short term deposits
- \* Short term debt instruments
- \* Early payment to suppliers to obtain discounts

#### MANAGING INVENTORIES

1. Stock Models

EOQ & EBQ

# 2. Just in time Model (JIT)

It is a policy of obtaining goods from suppliers at the latest possible time & avoiding the need of carring any material. This method helps to,

Reduce stock holding cost

Improve the labour productivity

Produce scrap

Reduce the investment in working capital



#### 3. Vendor Management Inventory Model (VMI)

Buyer of a product provide certain information to a supplier of the product & supplier takes full responsibility for maintaining of agreed inventory of materials.

#### 4. ABC Analysis

It is a mechanism for identifying items which will have a significant impact on overall inventory cost while also providing a mechanism for identifying different categories of stocks that will require different management and controls.

#### Managing Receivable

- 1. Strategic
  - \* Extending the credit period
  - \* Offering discounts for early settlements
  - \* Factoring
  - \* Credit insurance
  - \* Invoice discounting

#### **Managing Payables**

- 1. It involves
  - \* Attempting to obtain satisfactory credit from suppliers
  - \* Attempting to extend credit during period of cash storages
  - \* Maintaining good relations with regular and important suppliers