#### **RECOUPMENT OF STORE – STOCK ITEM**

#### STC/NBQ/NFR

# **Recoupment Procedure**

- Zonal Railways Recoupment procedure apply to "Stock items".
- The demand for Non-Stock items are met by direct purchase and expenditure debited to the consuming dept. without passing through the stocking depots.

# System of Recoupment

Estimate is on the basis of

Previous consumption
 Trend of consumption
 Information given by user
 departments

# System of Recoupment

- Previous consumption
- Last 3 years Simple Average
- Last 3 years Weighted Average



• Estimated Annual Requirement (EAR)

#### or

• Anticipated Annual Consumption (AAC)



• DUES:

# Quantityofmaterialforwhichpurchaseactionstartedbutmaterial not yet received.



**Types of Dues-**

- i. Covered Due: Purchase Order released but material not yet received.
- ii. Uncovered Due: Purchase Order not yet released.

• Lead Time:

Time elapsed from the date of initiation of purchase to the physical receipt of material at the stocking place.

Ideal – 2 to 6 weeks.

- Safety Stock or Buffer stock: Stocks provided to avoid stock outs.
- Pending Demand (PD): Requisitions received from user departments which have not been complied due to low stock or Nil stock.

# **Recoupment of Emergency Stores**

• Slow moving items and therefore are issued occasionally.

• Their future demand pattern is totally uncertain.

#### **Recoupment of Emergency Stores**

- A stocking limit known as base stock is sanctioned.
- Base stock is based on some data of past consumption and a guess for future consumption.
- As and when an item is issued, an equivalent quantity is immediately recouped.
- Theoretically,
  - No. of recoupments = No. of issues.

#### **Recoupment of Emergency Stores**

- The method of recoupment for these stores is known as **Base Stock method**.
- As per Base Stock method, at all times,
   Physical stock + Dues = Base Stock

# Recoupment of Ordinary Stores System of Recoupment for Ordinary Stores:

1. Continuous Review System (or Recorder Level System or Q system or Maxima -Minima System)

2. Periodic Review System (or P System or

Annual Estimate System)

#### Maxima-Minima System

#### • A re order level is fixed

• When

**Stocks + Dues come down to Re order** level,

Purchase action is initiated.

### Maxima-Minima System

 Maximum: The quantity which is most economical to order at a time.

• High value item- fixed as 3/6 months requirements

• Low value item- fixed as 12 months requirements

## Maxima-Minima System

#### • Minimum :

Minimum is the quantity (physical stock + dues) which should be sufficient for the consumption during the lead time, i.e. time taken for procurement of the item.

#### Quantity for Recoupment

 Quantity for recoupment (Q) is worked out by the following formula:

#### Q = Maximum + Minimum + Pending Demand – (Stock + Dues)

#### 2. Annual Estimate System

- Recoupment is done periodically on fixed review date.
- Date on which the recoupment sheet for the item is to be prepared is fixed as per pre-decided time table & when they touch the minimum level.

# Annual Estimate System

- Terms used
- The period for which items are recouped is fixed and is called "Contract Period".
- This contract & period is generally 12 months.
- The interval between the dates fixed for preparing the recoupment and the beginning of the contract period is known as "Interim period".
- This period is equivalent to lead time for that item.

#### Annual Estimate System

- Forecasting of Anticipated Annual Consumption is normally estimated based on :
  - Past 3 years consumption after giving due consideration for stock out periods.
  - Trend of past consumption and
  - Information available about increase/ decrease of the activities, condemnation of Rolling stock, Replacement and Acquisition of new stock etc.

#### • Economic Order Quantity (EOQ):

To overcome both shortage and surpluses and to obtain optimum order quantity a formula is derived so that total cost involved to procure the item is minimum.

$$\mathbf{Q} = \sqrt{\frac{2\mathbf{A}\mathbf{S}}{2\mathbf{A}\mathbf{S}}}$$

- A = Annual consumption in value
- S = Set up cost (order cost)
- I = Inventory Carrying cost
- **Q** = Order quantity value.



• Gross requirement for the Interim period (GRIP)

GRIP = Interim period (in months) x
 Anticipated monthly consumption (MUF) +
 Buffer stock + Pending demand (if any).

• Net Requirement for the Interim period (NRIP)

• **NRIP** = **GRIP** – (Stock + Dues)

• Net Contract Period Requirement (NRCP):

**NRCP** = Contract Period in months **x** MUF + **NRIP** 

- MUF Monthly Usage Factor / Anticipated Monthly consumption
- NRIP Net Requirement for the Interim period

# Thank You