# Case Study -Manufacturing Cycle

CA Satish Shenoy Intensive Study Course on Internal Audit J. B. Nagar CPE Study Circle 21<sup>st</sup> October, 2013

### Manufacturing Sector

Engineering, Construction, Power and Projects

Textiles, Steel and Cement

• FMCG, Pharmacy and Chemicals

Automobiles

### Characteristics

Too many verticals

- Absence of structured process flow charts
- Risk of negative cash flows, LD and retention
- Absence of back to back clauses with vendors
- Projects of different value and gestation period

### Manufacturing Cycle

#### Procurement of Raw Materials

Conversion of Raw Materials in Finished Product

# Sales and Distribution

## Manufacturing Cycle

#### Procurement

#### Inventory

#### Logistics

### Procurement – Process Cycle

Sourcing & Budgeting

Supplier Management Purchase Requisition Purchase Orders Receiving and Payable

- Develop procurement plan and budget
- Match needs to supply capabilities
- Analyze company spend profile

- Gather market and supplier intelligence
- Technical and financial due diligence
- Vendor
  selection

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- Vendor masters
- Vendor evaluation

- Prepare and process requisitions
- Review and approve requisitions
- Demand management

- Solicit and track vendor
  - quotes
  - Comparative analysis
- Approvals
- Create
  vendor orders •

- Delivery acceptance
- Record receipts
- Research / resolve expectations
  - 3 way matching
- Debit / credit notes
- Payment

Sourcing Strategy

### Procurement – Key Issues

#### Key Issues

- Open Purchase orders
- Quotations
- Cost Drivers
- Controls over SOD
- Duplicate Vendors
- Source of Procurement

#### Good Practices

- Cross Functional Team
- Rate Agreement
- Data Analysis
- Reverse Auction
- Automation
- Vendor Masters

### Inventory Management – Process Cycle



Production

FG Inventory & Despatches

Material <u>Ma</u>nagement

Job-workers

- Receipt of materials
- Quality control of material receipt
- Physical storage of inventory
- Outside storages

- Issues to production
  - Booking of consumption
  - Production compliance
  - Technical efficiency

- Stock holding
- Quality control
  - Management of sales prices
  - Direct despatches

- Reconciliation •
- of inventory
- Stock in transit
- Access
  - controls over stock movement

- Stock holding
- Booking of production
- Assets
- Scrap
  - management
- Contract management

Sub-

Contracting

Inventory Turnover Work in Progress Sales & Distribution

Reconciliation

### Inventory Management – Key Issues

#### Key Issues

Job Work / Process Loss

- Inventory Warranty / Free Spares
- Quantity Errors

Inventory Adjustment

Classification of Inventory

Insurance

#### Good Practices

Rotation of Teams

- Perpetual Inventory
- Minimum, Maximum & Re-Order Level
- Stacking of Inventory & Storage Locations
- Calibration of Scales

Automation (Gate Entry, GRN)

### Logistic Management – Process Cycle

Transporter Management Masters Maintenance  Planning & Despatch

Insurance

Bill Processing & Payments

- Transporter appointment
- Transporter agreements
- Transporter efficiency
- Bank guarantees / security deposits
- Performance
  management

- Distance
  mapping
- Rate & route mapping
- Truck definitions
- Transit time definitions

- Route planning & scheduling
- Truck utilisation •
- TAT monitoring
- Load scheduling
- Reverse logistics

- Insurance coverage
- Lodging claims
- Receipt of claim amount
- Invoice accounting
- Payment processing
- Payment authorisations

Performance Review Claim monitoring

Invoice & Payments

### Logistic Management – Key Issues

#### Key Issues

Contracting for losses

Route optimization & Rates

Truck Turnaround Time

Complexity in invoices / Quantity Tracking

Truck Loads / Non -Availability



#### Good Practices

Turnaround Time Monitoring

- Automated Weighment & Trip Reconciliation
- Partnership Approach / Company Financed Fleet

Contract Terms

Calibration of Scales

Automation (Gate Entry, GRN)

# Thank You...!!!