



Capacity Study and Planning

Match your long-term supply capacity with the forecasted mid-term to long-term demand



Industrial Engineering



Process Flow Charts



Time Study



Capacity Planning



Reports

Technopak

India's leading management consulting firm with more than 20 years of experience in working with organizations across consumer goods and services.

Founded on the principle of "concept to commissioning", we partner our clients to identify their maximum-value opportunities, provide solutions to their key challenges and help them create robust and high growth business models.

Engagement Objective

- Setting up the IE team
- Capacity Study
- Establishment of manufacturing standards
- Development and Implementation of "Capacity Planning Tool"

Timeline

- Setting up the IE team will require 8 weeks of intervention
- Capacity Study and analysis will take 6 weeks to complete
- Development and Implementation of "Capacity Planning Tool" will require 6 weeks of intervention
- Follow-Ups will require 4 weeks
- Based on the above, Technopak's total engagement duration will be of 24 – 28 weeks

Highlights

Industrial Engineering Department

- Establish manufacturing standards to enable efficient assignment of production resources (machines, time and labor)
- Improve production compliance
- Key outputs of the department would be Product Engineering and continuous performance improvement
- On maturity, the department would provide inputs for Production Planning and Product Costing

Capacity Planning Tool

- Comprehensive lists of operations across departments
- Sales order data as input to compute resource demand and production load
- Accommodate Individual and Cumulative Product Demand
- Forecasting (Weekly, Monthly and Quarterly charts) – Resource Demand and Load
- Integrated Data Transfers – Minimal user dependency
- Integrated Data Updating – In case of user intervention
- Errors flagged in case specific product demands (Resources and/or Timelines) aren't available
- Faster to run and easier to use
- Customised Calendar
- Customised Reports as per client requirement

Engagement Work Steps

1. IE Team Set-Up

- **Need Assessment** – Size and Investment
- **Recruitment** – Selection and Appointment
- **Training of IE team**
Basic Concepts | WCM Principles | Layouts | Manufacturing Techniques | Others

2. Capacity Study and Analysis

- **Product Mix** – Study
- **Product Categorisation** – Raw Material Type & Form and Processes
- **Process Flows** – Definition and Analysis
- **Process Study** – Exhaustive list of Sub Processes (Level 1 & 2)
- **Time Study** – Macro and Micro level as per requirement
Standard Process Times – Derivation and Validation

3. Capacity Planning Tool

- **Capacity Analysis** – Using Product Categorisation, Process Flows, and Standard Time
- **Development and Customisation of Tool** – To Capture Category wise Capacity and Planning
- **Implementation of Tool** – Shop Floor Capacity Planning
- **Establishment of Performance Indicators** – Monitor and Plan Capacity