

## Factory Warehouse Design for CPG client

### About the company

The client is one of India's largest consumer packaged goods companies with foods, paper products and personal care lines in the said facility. The factories currently have relatively small warehouse space sufficient for up to one-shift production. With plan of new lines being setup in the area currently in use as warehouse, the client has sought support in designing new factory warehouse to address needs of all four business lines.

### Business Objectives

Design factory warehouses for four business lines and optimize truck flow movements

### Business Situation

- Planning was required for two lines of business in food products FG, personal care FG, RM, PM and paper products RM and FG
- The geography in which the plant is situated lies in a high seismic zone
- Tax implications on finished goods required separate storage
- Infrastructural constraints limited the options for truck movement inside the plant

### The solution

- Design of high-capacity high-capability warehouse design with statutory segmentation of products with flexibility of storage and handling infrastructure usage
- Selection of best material flow alternatives for FG, RM and PM of different product lines
- Design of complex yet cost-optimum pallet conveyor based infrastructure from assembly lines to warehouse for Finished Goods
- Decision on owned vs. dedicated transport alternatives for movement of RM and PM for different product lines
- Flexibility in solution for growth and subsequent regulatory changes

### Business Benefits

- Modularity of storage and material handling infrastructure for improved asset utilization and better preparedness for peaks
- Detailed design of the warehouse along with manpower, material handling, storage infra