

De Pro Supply Chain Solutions Private Limited

People. Partnership. Performance.

De Pro Supports One of the Largest Automotive Ancillary Company in Chakan, Pune to Redesign its In-plant Warehouses and Work on 3 Years Warehouse Capacity Planning, SKU Wise Storage, Space Calculations & Optimization and Bill of Material (BOM).

Scope of Work:

- Customer wants De Pro to re-design their existing raw material, finished goods and other 13 intermediate stores considering space optimization and to create more space within existing facilities by deploying new infrastructure.
- De Pro has conducted a detailed study to re-design existing facilities and to maximize storage in available facilities.
- To prepare a detailed matrix considering space availability vs space requirement for storage of material for current year production plus next 3 years warehouse capacity planning SKU wise.
- Prepared a detailed Bill of Material (BOM) for next 3 years execution plan.

Business Challenges:

- Existing facilities are not able to handle required volumes which need to be stored for the current year (2020) production plan.
- Space availability was a big challenge. Presently material was placed all across the plant (wherever space was available), open yards, temporary sheds, in aisles, wrong stacking.
- Height availability for deploying new infrastructure.
- Multiple stores at multiple locations. There were total 13 stores located at different location inside customer premises.
- Inventory Accuracy – 92%
- Dedicated Locations for each part resulting into wastage of available space.

De Pro Solutions:

- Data Gathering & Understanding – Customer Segment, SKU Types, Transactions, Inventory, Storage Norms, Skew Pattern etc.
- Detailed analysis of past log trends, transactions, inventory volumes, storage patterns and mechanism, forecasted data etc.
- Designed multiple AutoCAD layout options, scenario working to arrive on right layout.
- Extensive analysis done on available space and space requirement considering next 3 years production plan.
- Designed 1 single floor plan under one roof considering all the 13 stores with consideration of next 3 years production plan.
- **Proposed Outcomes –**
 - **1 Single Warehouse Under One Roof for All Raw Material Stores**
 - **Storage Efficiency Increased by 50%**
 - **100% Bin Location & FIFO Management**
 - **99.5% Inventory Accuracy as Compare to Earlier 92%**
 - **Dynamic Locations to Provide Maximum Optimization of Available Space.**
 - **3 Years Visibility to Top Management of Required Warehouse Space and BOM**

Quick Facts

- ✓ **Warehouse Type – In-plant Warehouse - Raw Material, Finished Goods & Other 13 Intermediate Stores**
- ✓ **Warehouse Area – Designed 35,000 Sq. Ft. (Existing) - 1,25,000 Sq. Ft. (Next 3 Years Planning)**
- ✓ **SKU's – 2,000 +**
- ✓ **Type of Storage – Pallet Racking, FIFO Racks, Multi-Tier Racking, Carousel, Compactors**
- ✓ **Shifts – Two Shifts**
- ✓ **Storage Type – Cartons, Bins, Production Trolleys, Plastic Bin, Wire-mesh Cages, Wooden Boxes**
- ✓ **Location – Chakan, Pune**
- ✓ **Project Duration – 2 Months**

For more information please contact us

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