

De Pro Re-Designed Raw Material, Finished Goods, Tools, Spares and Maintenance In-plant Warehouses for an Automotive Ancillary Company in Chakan, Pune with 5 Years Warehouse Capacity Planning, SKU Wise Storage, Economical Automation Planning, Space Calculation & Optimization with Bill of Material (BOM).

Scope of Work:

- Customer wants De Pro to re-design their existing raw material, finished goods, tools, spares and maintenance warehouses considering space optimization and to create more space within existing facilities by deploying new infrastructure and economical automation.
- 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 5 years SKU wise warehouse capacity planning.
- Prepared a detailed Year Wise Bill of Material (BOM) for next 5 years execution plan.

Business Challenges:

- To reduce warehouse ground foot print so as to get more space for production machines at the same time needs to create more storage space to cater the storage volumes for next 5 years production plan.
- Consolidation of multiple stores under one roof at one single location.
- No standardization in terms of plastic bin usage. Total 17 different types and sizes of plastic bins are used currently.
- Dedicated Locations for each part resulting into wastage of available space.

De Pro Solutions:

- Data Gathering, Understanding and Detailed analysis of past log trends, transactions, inventory volumes, SKU types, 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 5 years production plan.
- Consolidated & designed one single floor plan under one roof considering all the stores with consideration of next 5 years production plan.
- Proposed Outcomes –**
 - Consolidated One Single Warehouse Under One Roof for All Stores to Save Time, Foot Prints, Efforts and Energy**
 - Economical Automation Planning Considering ROI.**
 - Storage Efficiency Increased by 494% Using Vertical Height**
 - Standardize Bins and Reduced 60% of Bin Variation**
 - 100% Bin Location & FIFO Management**
 - 99.5% Inventory Accuracy as Compare to Earlier 90%**
 - Dynamic Locations to Provide Maximum Optimization of Available Space.**
 - 5 Years Visibility of Warehouse Space and BOM**

Quick Facts

- ✓ Warehouse Type – In-plant Warehouses - Raw Material, Finished Goods, Tools, Spare and Maintenance.
- ✓ Plant Area – 1,00,000 Sq. Ft.
- ✓ Warehouse Area – 25,000 Sq. Ft.
- ✓ Structure Type – PEB Structure
- ✓ Warehouse Clear Height – 10.5 Meter
- ✓ SKU's – 3,500 +
- ✓ Type of Storage – Heavy Duty Pallet Racking, Multi-Tier Long Span Shelving.
- ✓ Type of Handling – Mix of Gravity and Belt Chute to Control Speed at Each Level, Reach Truck, Pallet Deposition & Retrieval Points
- ✓ Shifts – Single Shift
- ✓ Storage Type – Cartons, Plastic Bin, Pallet Storage
- ✓ Location – Chakan, Pune
- ✓ Project Duration – 2 Months

For more information, please contact us

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