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Your *in*Credible Digital Value Chain Partner

GREENFIELD WAREHOUSE DESIGN AT DUBAI

Redington
SEAMLESS PARTNERSHIPS

OVERVIEW

Redington Gulf is one of the leading IT product distribution company in the Middle East, Africa, Turkey and CIS region with a product portfolio ranging over 7000+ SKU's spread across 40+ brands. Had to adapt to exponential increase in demand over the years and had to increase warehousing space to cater to this increasing storage needs.

BUSINESS OBJECTIVE

Design and detail of a Warehouse Layout with defined storage and functional areas, along with an accurate calculation of resource requirement, manpower, and MHE, as well as vendor evaluation and budgetary investment indication for Logistics Hardware.

VALUE DELIVERED

A total of 7428 pallet locations (80% of 2.5m stack height) was designed which is 9% more than the conventional designs provided by storage vendors

A total of 172,000 USD was saved on MHE's and Storage Systems, through Stellium's expertise in the field.

BUSINESS COMPLEXITIES

- Pre-designed structure (100,000 sq. ft., with 10 docks)
- Varied Product Portfolio - The facility had a wide variety of product portfolio varying in weight from 5g to 600Kg, in volume from 468 mm3 to 4 m3 and price ranging from 1 SAR to 12,000 SAR.
- Exponential Peaking -A very erratic dispatch trend with dispatches about 5 times the average dispatch was noticed.
- Unforeseeable demand trend

PROJECT HIGHLIGHTS

Optimal material handling techniques with streamlined inbound, storage and outbound activities – Facility designed for a throughput of 112 Pallets/day which the optimal peak throughput design to cover 234/280 is operating days, preventing overdesigning.
Barcode & RF driven operations.

Lean methodology was adopted during process re-designing - reducing non-value-added steps, E.g., eliminating redundant scanning of serial number for specific order type during outbound, saving 50% of the total time taken to scan the serial number.

Hybrid 2&3 pallet modules operated by VNA trucks, and shelving modules were used to optimally utilize the varying working height.