

Case Study - Garware Wall-Ropes Ltd.

The Industry:

Garware Wall Ropes Limited (GWRL) today dominates the Indian market and is one of the largest manufacturers and exporters of Synthetic Cordages, Fishnets and Sports Nets in the world with a truly global outlook. GWRL is in the process of spreading its operations across the globe and currently exports to over fifty countries worldwide. The company turnover is around Rs.200 crores.

GWRL being a process industry was looking out for Production Scheduling software for Scheduling jobs on the shop floor for its Pune and Wai plants.

Following were the requirements of GWRL:

- Pressure for meeting due dates for Export orders
- Line Balancing for maximum capacity utilization
- Order tracking - Section-wise Daily load chart
- Comparison between actual and planned output
- Close integration with their existing Sales Order Processing system

The Solution:

After a thorough evaluation of competing products, GWRL chose Walchand Infotech's ExSched. ExSched is a software package designed specially for Production Resource Scheduling on the shop floor. It simulates the shop floor environment and provides the most effective and efficient scheduling for the jobs.

The scheduling program uses the technique of Discrete Event Simulation. The scheduling rule uses combination of parameters like due date, priority, and type of item. Schedules are arrived at after considering practical constraints such as availability of facilities, holidays & weekly offs, facility downtimes, outside party operations etc.

Also facility has been provided for splitting of quantity in an order to improve line balancing.

Key requirements addressed:

- Effective Line Balancing of various interdependent sections
- Section-wise daily loading sheet
- Facility to change as per practical loading
- Delayed jobs reports and analysis

Business Benefits :

The Planning Department can now predict the delivery time of jobs well in advance considering the current load on the shop floor. This in turn helps the Sales Department to give a realistic commitment to the customers.

- Better capacity utilization due to elimination of ad hoc scheduling
- Effective utilization of available manpower



- Resource Plan is available in advance i.e. the day on which resources would be required. This avoids piling up of inventory.
- Subcontracting schedule is available in advance
- Gantt charts and reports give an overall view of the shop floor in a single screen