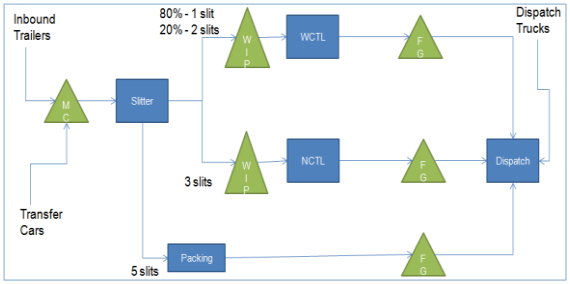
Study for Validating the plan of a new Steel Processing Plant Setup

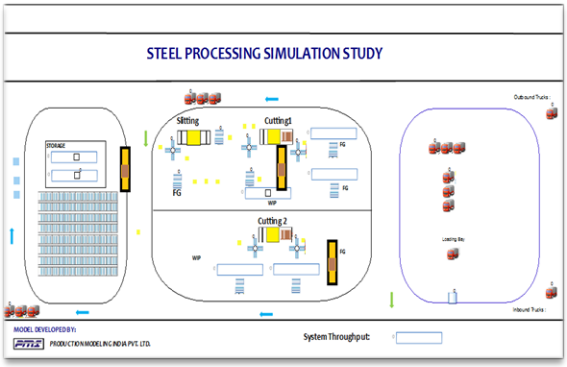
Key Points

-Storage space requirement
-MHE utilization observation (for cranes and forklifts)
-Dispatch truck utilization improvement



Client's Challenge

-There exist certain constraints in the existing setup
-The new proposed facility to be free of these constraints
-Calculation of the number of cranes, MHEs required
-Calculation of storage space

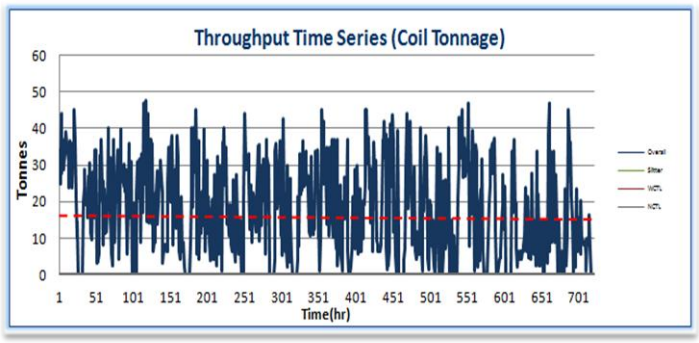


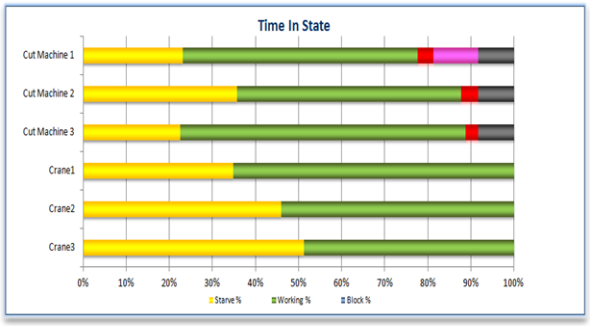
PMI's Approach

-Analysis of Data, building the model and verification
-Analysis of baseline model results
-Bottleneck identification
-Debottlenecking
-Storage space reallocation based on iterative analysis

Findings & Recommendations

-Plant capacity (of 21 tonnes/hr) validated
-Present number of cranes found insufficient
-Hence some material handling was shifted to a forklift to reduce load on the crane
-Optimum truck inter arrival time determined





***Data shown here has been modified to protect client confidentiality**

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