

# Plant Optimization & Efficiency Improvement

## Business Need



Better equipment & resource utilization



Flexibility to add new variants



Increased Production capacity



Safe Plant



Traceable Plant Operations



Least Scrap



Shorter time for commissioning

## How HCL can Help

Time Study using Predetermined Motion Time System, Line Balancing & Non-Value-Added Activity Analysis

Material Delivery Strategy

Plan For Every Part, ABC Analysis

Automation

Material Utilization & Manufacturing Process Improvement

Packaging Design, prototyping, Testing & Certification

Develop OEE Dashboard & RCA for Reactive, Planned & Predictive Maintenance

Tool/Fixture/Jigs Design/modifications

### Expertise Used

Discrete Event Simulation by Model Development, Industrial Engineering, Logic Creation and verification by mathematical model

Benefits

Material Inventory holding

15-20% reduction

5-10% Utilization Improvement

Manpower Optimization

Overall Equipment Effectiveness

5-10% Improvement

Space Optimization

10-15% Space Optimization

Golden & Strike Zone Improvement

20-30% Improvement

Packaging Optimization

8-10% reduction on Total usage

Ontime Material Availability

10-15% Improvement

Safe workplace

Reduction in recordable Injury Frequency