

Production Efficiency in Process Industry

PICTURES BEFORE



Analysis of defects and finding root causes



Understanding all material movements and transformation

PICTURES AFTER



Planning and management of planned stoppage activities

War Room to manage all improvement initiatives



Production Planning and KPI monitoring



Autonomous maintenance and Zero Defects

Problem

- Breakdown Maintenance losses of 14.7 hours/month
- Total duration of planned stoppages over the course of one year was 168.1 hours
- Average setup time of 74 min
- Quality losses of 9.15%

Root causes

- Lack of information on unplanned stoppages and ad-hoc resolution of problems
- Performance losses due to lack of standard parameters for production
- Inefficient planned stoppages due to poor diagnosis, lack of resource allocation, material preparation and team coordination
- Micro-stoppages in paper transformation and undefined setup activities
- Suboptimal planning sequences

Solution approach

- Structured Problem-Solving approach for unplanned stoppages, supported by detailed data
- Definition of optimal production parameters
- Standardised procedures and operator training
- More frequent planned stoppages managed through project management tools such as Last Planner, Risk Analysis and Task KANBAN
- Autonomous maintenance to reduce micro-stoppages during paper transformation
- Production sequencing guidelines and process standardisation to minimise setup activities

Benefits

