THE CHALLENGE

The client required a project management system (PMS) for its preparatory equipment. Specific challenges included:

1. Working with a tedious production planning process.
2. Manual production reporting to SAP.
4. Lack of product traceability.

THE COMPANY

A pioneer of radial tires and market leader in truck and bus radials in India, the Delhi-based client is present in 100 countries across six continents.
THE SOLUTION
In just seven months, a team of four engineers delivered a solution that:
- Interfaced with 16 PLCs and 16 HMIIs in the plant.
- Interfaced with SAP ECC 6.0 for active production orders and data for production booking.
- Provided for operator accountability.
- Provided performance monitoring of the machines.
- Featured:
  - Production planning, sequencing and data logging
  - Scrap declaration
  - Input material consumption and output production data logging
  - Production booking back to SAP
  - Reports and dashboards

THE TECHNOLOGY USED
MES Platform: Customized .NET based
PLC: Rockwell® and Siemens
HMI: Beijer – iX Developer
Protocol: Ethernet, PROFINET®, PROFIBUS®
Database: MySQL v5.6, MS SQL 2012, Oracle® 11g
Reporting Portal: .NET Framework 4.0

THE RESULT

Manual data entry into SAP with log book digitization

Visibility to shop floor
Optimum utilization of business system due to real-time authentic data
Accountability of scrap at production order level