



## Success Story

Industry Segment: **Pharmaceuticals**

# Carbon Paste Mixing - PC-based SCADA



### The Customer

An Aluminium manufacturer, one of the biggest in India. In fact, it is among the world's largest aluminium rolling companies and is one of the biggest producers of primary aluminium in Asia. Its Alumina Chemicals manufacturing unit is based in South India.

### The Application

For weighing Aluminium ore, Bauxite and mixing it with pitch and tar, various recipes are possible - according to requirements.

### Production Flow

Dry scale allows only bauxite of different grades from 13 silos. For different recipes, different silos allow the bauxite to flow down. Pitch and tar will be measured according to product recipe and flow to various mixers separately. The distributor under dry scale decides which mixer the ore will flow to. Based on the different recipes, the mixers' actions also are performed.

Once mixer time is finished, the operator will discharge into the trolley.

**The challenge was total overall control of the process,  
from the macro level to the micro level.**

## The Solution

SCADA solution replaced an earlier manual operation, wherein the operator used to switch on or off by looking at the mimic. The operator used to log in the records manually.

The SCADA solution designed and delivered by FCS enabled substantial savings in terms of time, operator's interference and space management, apart from taking out the uncertainties and the complexities of multiple task management simultaneously.

- 300 tags run & development P-CIM SCADA
- 25 screens
- 40 alarms
- 3 reports

## Benefits

- Total overall control of the process from the macro level to the micro level
- Complete visualization of the ongoing process for operator ease
- Tracking the data and records in user friendly way
- Alarm management for the live process and the deviation in the historical data
- Analysis of historical trends
- Resulted in better maintenance planning thus ensuring smooth production schedules

## Challenges

- Weighing the flowing material and liquid material
- Providing the real-time views to the operator
- Managing different mixers for optimum utilization

### We also offer the following:

- **Soft Starters**
- **Variable Speed Drives (VFD)**
- **Switch Mode Power Supplies (SMPS)**
- **Pressure Switches**
- **LCD Touchscreen Displays**
- **PLC and SCADA Software**
- **Complete Application Solutions**
- **Control Panels**

**For more information on any or all of these products, or to speak to our technical representatives regarding your specific application, please call or write to us at the address given below.**