BEST PRACTICES

Department : CPP

ANDHRA PRADESH CEMENT WORKS
**Objectives:**

- To reduce Auxiliary consumption of the Boiler feed pump.

**Problem / Background:**

- VFD drives installation for Boiler Feed Pump.
- Pressure loss calculation.
- Feed Control valves tuning.
BFP VFD Speed Cascading with Drum Pressure

Activities:

- Logic-1
  - BFP VFD speed varies with pump Discharge Pressure.
  - Maximum Steam drum pressure from Both boilers taken Reference output.
  - DP across the feed pump to Drum identified.
  - Maximum DP for our boiler given 20 Kg/cm² and minimum 10 Kg/cm².
  - DP can varies by Operator manual set point.

- Logic-2:
  - Logic made such that Steam drum pressure and DP across the system to Pump discharge pressure set point.
BFP VFD Speed Cascading with Drum Pressure

Power Saving done
2460 Kwh
Results / Benefits:

- Reduced the BFP consumption by 2460 Kwh.
- Manual interruption avoided.

Horizontal Replication:

- Shared experience with all other UltraTech units for implementation.
THE JOURNEY CONTINUES...