

# CASE STUDIES FOR CTP/CTQ MANAGEMENT SYSTEM

HOW IIOT BASED CTP MONITORING HELPED FM COMPANY IN MANAGING OPERATIONS FOR MULTIPLE SITES WITH EASE?

## PROBLEM

Due to unavailability of centralized monitoring system there is a lack of predictive maintenance and high time to fix issues. Auxiliary power consumption is on higher side, which effects overall profitability and brand value as well.

## **AS-IS SITUATION**

To monitor and fix issues on-site, there is a need to deploy highly skilled resources. All Power Plants are operating in silos and dedicated team is handling day to day maintenance activities.

## **IDENTIFYING THE CHALLENGES**



## **IMPLEMENTATION OF THE SOLUTION**

- 1. Central Control Station to monitor all 20+ Plants centrally by highly skilled resources.
- 2. A real-time application to monitor process parameters centrally.
- 3. It enables the central team in getting information in realtime to plan for Maintenance and Problem Resolution in an Effective and Quick Manner.
- 4. It provides real-time alerts and notifications based on the Ranges of the Data.
- 5. Due to this framework, the central team can monitor and guide the field team timely and effectively. This curbs equipment maintenance costs and improves its lifespan.
- 6. Analytics can be provided for:
  - a. MTTR
  - b. MTBF

### **REAL-TIME DASHBOARD SNAPSHOTS**





## WHAT IT OFFERS IN TERMS OF BENEFITS

Due to unavailability of centralized monitoring system there is a lack of predictive maintenance and high time to fix issues. Auxiliary power consumption is on higher side, which effects overall profitability and brand value as well.

- 1. Monetary Benefits: Cost reduction due to optimum manpower utilization:
  - a. Highly skilled resources are required only at the Central Control Station. Due to the same, semi-skilled resources at the plant level can perform all day to day operations.
  - b. No dedicated manpower is required to prepare daily reports and schedules.
- 2. Standardization of processes across all plants PAN India, which are monitored centrally. No deviation in workflow and the way of working. It provides a robust work environment at field level as well.
- 3. Value for the customer can be offered:
  - a. Auxiliary power consumption can be saved up to 1% with timely equipment maintenance. This saved power could be supplied to the customer. The customer felt delighted.
- 4. Differentiator factor due to central monitoring: This falls under best practice category and organizations reap benefits by showcasing such best practices at various platforms globally to enhance its brand value.

### **REMOTE MONITORING AND CONTROL**

#### MONITORING







## **CONTROL PANEL SNAPSHOTS**

	625KVA+100KVA DG	HOMEPAGE	COOLING TOWER
IN KVA OS KVA GEN	COMMON IN K25 and 100 KVA 62   KW 0.00   CURRENT 0.00   P.F. 0.00   FREQ. 0.00	25 KVA 109 KVA 707.00 1084.99 26.60 79.60 Heat Minute	