Real-Time Monitoring & Safety with Smart Sensors

Industry: Banking & Finance

Client: Chemical Plant, Maharashtra, India

The Challenge

- ✓ Outdated analog gauges
- ✓ Manual data logs and delayed alerts
- ✓ High risk in safety-critical zones

Our Approach

We ran a **plant audit and replaced:**

- ✓ Manual gauges with digital sensors
- ✓ Added real-time dashboards and alerts
- ✓ Built predictive maintenance on sensor data

Key Solutions

- ✓ **Smart Sensors:**
  Pressure, flow, and temperature
- ✓ **IoT Monitoring:**
  Continuous wireless tracking
- ✓ **Auto Logging + Alerts:**
  Instant safety responses
- ✓ **Predictive Maintenance:**
  Based on live data

Tech Stack

Modbus | aws | MQTT | Grafana | SIEMENS

Impact Summary

Metric	Before	After
Unplanned Downtime	Weekly	Rare
Data Logging	Manual	Automated
Safety Alert Response	30+ mins	<10 mins
Compliance Readiness	Manual Prep	Instant View

Results at a Glance

60%	3X	80%	100%
less equipment failure	faster safety alerts	improvement in audit data	real-time field visibility

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Ahmedabad | Rajkot | Nadiad | Delhi | Bhopal | Pennsylvania | Toronto | London

Phone:
+91 98983 30717
+1 323 455 4591

Email:
hello@qematic.com

Website:
www.qematic.com

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