



Diesel Level Monitoring and Autonomous Control System

Solution
Partner

Automation
Drives

SIEMENS

2018



Objective of Plant Automation

The objective of the projects to develop a failsafe system for diesel operation as under

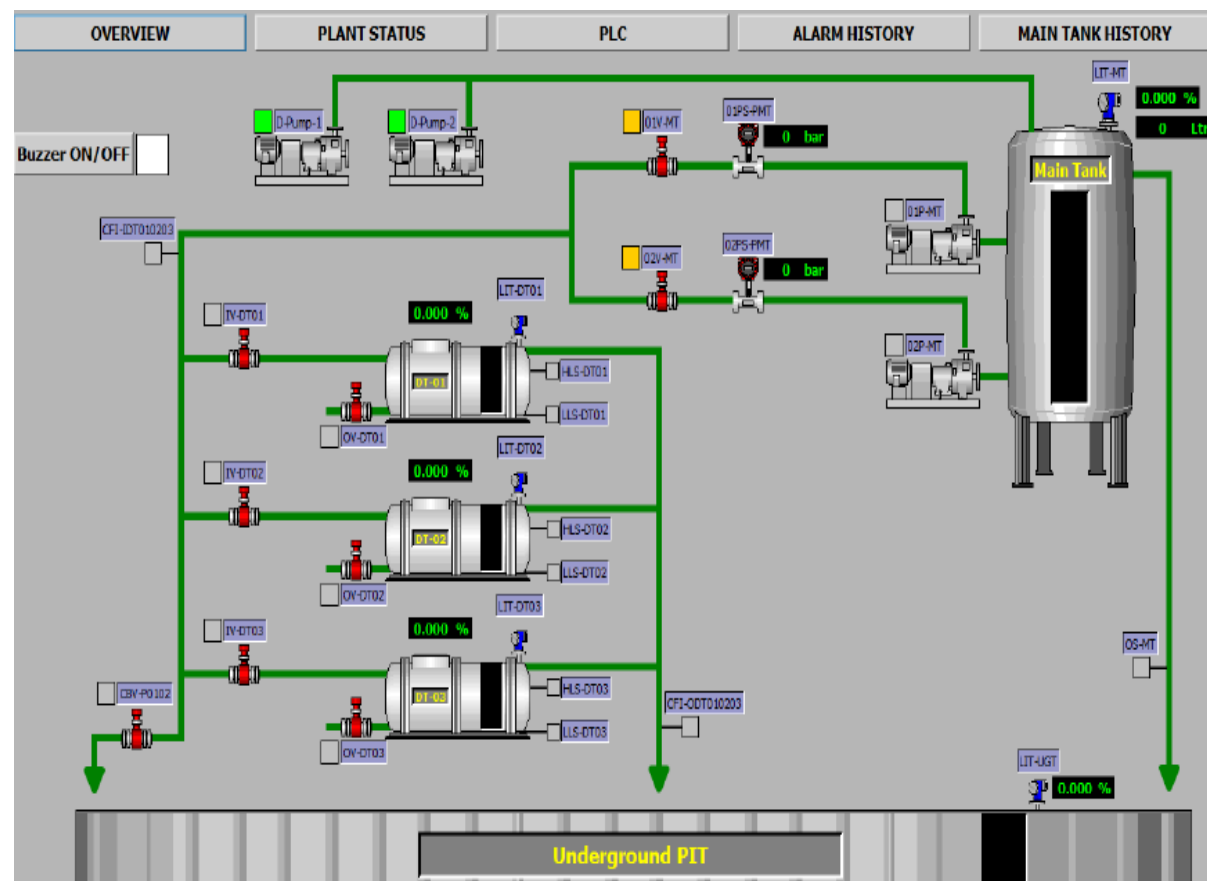
- Automatic Operation of valves
- Automatic Diesel level monitoring and controlling system
- Pump Control System
- Filling of tanks both automatic and manual system
- Over Flow Protection

What We have Done!

Siemens PLC has been used to integrate the whole process instruments with the system. Intended safety checks designed to avoid overflows & protections for valves. State of the art system intelligent enough to take automatic decision and in any case of failure send alerts to operator to take actions. Our database management system helps operator to control the plant in any emergency

PLC Control Design

Keeping international standards of wiring, ducting and control cabinet designed has been properly designed with all tags and details of wires for operator to easily access the system.



SIEMENS Continuous Level Monitoring

Using Siemens PROBE LUs we have developed a continuous monitoring system for a main tank and day tanks. With this instrument we are successfully able to monitor

- Levels in tanks in Percentage
- Litters in the tank
- Accurate fuel consumption

Underground Tank Monitoring & Controlling using SIEMENS LUT430

To monitor the diesel in underground level tank we have used the state of the art LUT 400 series which has the ability to control the pump to remove the diesel from the underground tank

SOCLA Butterfly Valve

SOCLA valve has been used to operate pumps based on the high & low level of day tanks. Highly standard valve with open and close indication at the HMI.

DANFOSS Solenoid Valves

At day tanks SOVs operated from control room with both manual and automatic mode options. System is user friendly and safety has been considered as our first priority.

By Pass Assembly

To operate the valve keeping better secure system By pass has been designed at the outlet of tanks to avoid any failure in supply of diesel to generators.



Achievements

At Khan Brothers, our sales, product management, and engineering teams work hand-in-hand with you to fully understand project requirements and performance expectations, and develop a customized plant solution delivering the best life cycle economic value.



Automatic Level Monitoring

SIEMENS Level instrument providing accurate reading in both percentage and liters to monitor exact flow and levels in day tanks



Automatic Control System

Filling of day tanks based on level point are controlled automatically from control room. In automatic mode the valves are open and close subjected to level in day tanks to fill the diesel. In Manual mode the user just click on HMI to open and close the valve



Safe and Secure System

Develop a secure system to avoid overflow of diesel from the main and day tanks. System is integrated based on the reading from instrument and multiple check and alarm system provide alerts to operator gradually



Reliable System

Accurate Monitoring of Diesel in Tanks Eliminated the paper work and user friendly system provides operator to control the system without moving into field.

CONTACT US

We are available in all major cities accorss Pakistan

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