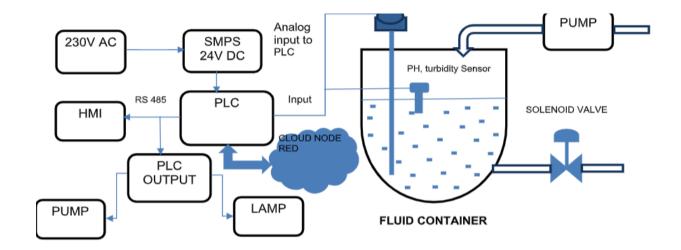
# **S8-PROJECT**

# DEVELOPMENT AND IMPLEMENTATION OF A HOT BASED SYSTEM FOR FLUID PARAMETER AND MONITORING

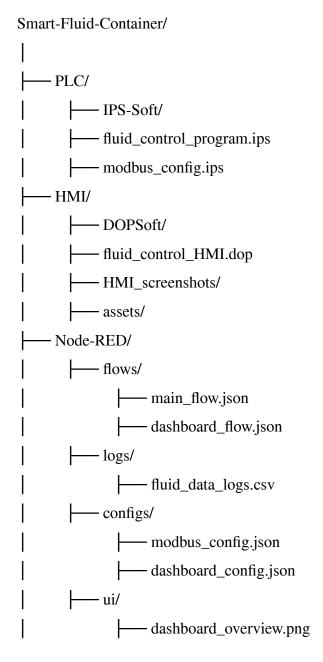
#### PROPOSED SOLUTION

The Smart Fluid Container leverages technologies like Delta PLC for central control, Delta HMI for real-time monitoring, and GSM modules for sending alerts. Sensors monitor parameters like level, pressure, pH, and turbidity, while solenoid valves regulate fluid flow based on sensor data. Cloud integration ensures centralized storage and analytics, while Node-RED software facilitates process automation and remotemanagement.

#### **BLOCK DIAGRAM**



### **BOILERPLATE**



## WORK COMPLETED

PLC PROGRAM DRIVE LINK: DRIVE

DESIGNING HMI INTERFACE AND INTEGRATED WITH HMI

GITHUB LINK: https://github.com/ELAVENDAN-RS/SmartFluidContainer