

- **Highlights of 130 MLD Plant Status (16.04.25)**

1. **Aerators**

- Total: 18 units
- Using: 12 units (only)
- Reason: Overheating of 2000A ACB
- Status:
 - ACB at RSPH has been changed.
 - ACB in distribution panel still **needs replacement**

2. **PST-2 Gearbox**

- Status: Broken drive assembly → **Non-operational**
- Replacement: 2 new gearboxes **required**, as PST-1 is also running on an old unit

3. **BFP**

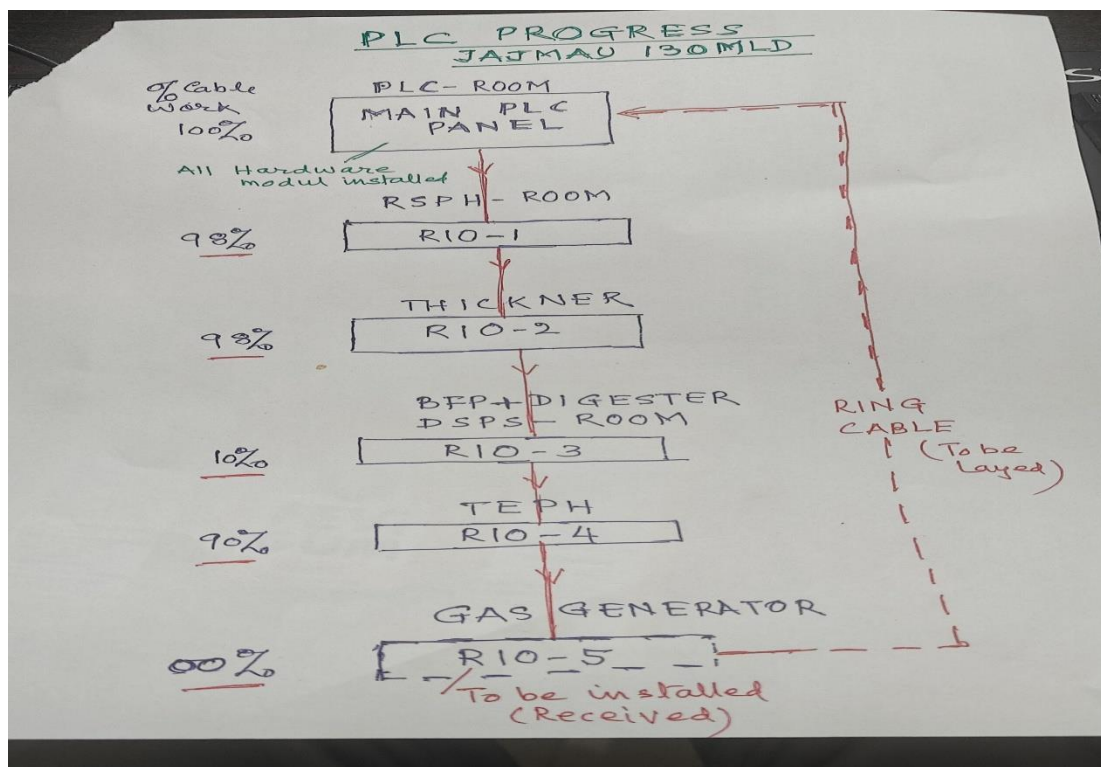
- Status: Never worked satisfactorily since installation
- Operational: Only 1 out of 4 pumps

4. **Chlorination**

- Status: **Not being done regularly**

- **Simple Line Diagram (Progress of PLC at Jajmau – 130 MLD)**

Progress as per Single line diagram-



- **Programming & Commissioning under scope of KAI ZEN CO.**

- a) **Cabling (6 numbers)**
- b) **Termination (4 places)**
- c) **Excavation (2 places)**
- d) **Installation of Panel (1 place) Gas Engine**

- **43 MLD (Million Liters per Day) Sewage Treatment Plant (STP).
Here's a summary of the highlighted issues:**

1. **Blower Issues:** Out of the 3 blowers, 2 are not operational. This could be affecting the aeration process, leading to reduced efficiency in treating wastewater.
2. **Centrifuge Malfunction:** The centrifuge machines, which are typically used for dewatering sludge, are not working. This could be causing sludge management problems and impacting the overall operation of the plant.
3. **Sludge Removal Problems:** The FST (Final Settlement Tank) and PST (Primary Settlement Tank) sludge removal mechanisms are malfunctioning due to the removal of the rail system for peripheral motion. This could cause sludge build-up and affect the settling process, ultimately reducing treatment efficiency.
4. **KPI Performance:** The plant has not been meeting Key Performance Indicators (KPIs) for the past year. This indicates that these operational issues are leading to reduced overall performance and effectiveness of the treatment process.

If this is part of a troubleshooting or improvement process, it would be important to address these issues in a systematic way. Potential steps might include:

- **Repair or replace the blowers** to restore aeration.
- **Fix or replace the centrifuge machines** to handle sludge management.
- **Reinstall or replace the rail system** for the FST and PST sludge removal mechanisms.
- **Assess the impact on KPIs** and implement corrective measures to improve performance.