

Official Visit Report

Subject: Visit to Akiz Food and Beverage Limited Factory

Location: Barobaria, Manikgonj

Date of Visit: 02/06/2026

Visitor Name: Md. Sanzid Olioul Tanzid

Designation: Intern, NEOSCODER

Purpose of the Visit

The purpose of the visit was to gain a technical understanding of the automation process in the Carbonated Soft Drink (CSD) production line at the Akiz Food and Beverage Limited factory.

Overview of Activities and Observations

1. CSD Production Line Automation:

- Gained an overview of how the Beverage Machine performs tasks sequentially in an automated fashion.
- Observed the workflow of the Carbonated Soft Drink (CSD) line from start to finish.

2. Component Analysis:

- Identified the roles and operations of various individual components within the CSD machinery.
- Observed how components are internally connected and integrated within the system for seamless operation.

3. Machine Operation Insights:

- Studied the machine runtime behavior and how it initiates and executes production cycles.
- Learned how input commands are taken by the machine and how it starts/stops based on control inputs.

4. OPC and Network Connectivity:

- Learned about the integration of the machinery with a central network via OPC (OLE for Process Control).
- Understood the type of data retrieved through the OPC connection and how it supports real-time monitoring and control.

5. Siemens Software Overview:

- Received an overview of the Siemens software used in the factory's automation system.
- Understood how to configure production inputs and manage operations using the Siemens software interface.

Conclusion

The visit to Akiz Food and Beverage Limited provided valuable insight into the modern automation processes used in CSD production. It enhanced my understanding of industrial machine operations, component interactions, and centralized monitoring through OPC connectivity. The knowledge gained from this visit will significantly contribute to my practical understanding of automated production systems and industrial software applications.