

INDUSTRY VISIT REPORT

Industry - Wilo Mather & Platt Pumps Pvt. Ltd.

Institute - Vishwakarma Institute of Technology, Pune

Date of Visit - 3rd February 2025

Time - 11:00 AM to 3:00 PM

Location - Kesurdi, Maharashtra

Company Mentor

- Mr. Nitin Asalkar – VP (HR)

Attendees -

Faculty

- Dr. Leena Deshpande
- Prof. Mr. Shailesh Thaware

Students

- Aaditya Kalmekh – SY Computer Engineering (Software)
- Aditya Wavhal – TY Computer Engineering (Software)
- Ashvij Patil – SY Computer Engineering (Software)
- Om Rahade – TY Mechanical Engineering
- Shoryaraj Patil – TY Computer Engineering (Software)

Objective of the Visit

To understand industrial practices related to invoice systems and pump test bed, and using this information for invoice scanning and segregation SAP development, data forecasting and analysis.

About the Industry

Wilo Mather & Platt Pumps Pvt. Ltd. is part of the global Wilo Group, one of the world's leading manufacturers of pumps and pumping systems used in water management, building services, and industrial applications.

Discussion

1. Invoice

The discussion focused on automating the existing invoice process used in the company. Currently, invoice details are manually written in registers by security at entry (that includes driver and vehicle scrutiny) and later entered into Excel sheets. The proposed automation aims to extract invoice data digitally to reduce manual work. Data such as invoice number, date, item details, quantities, and amounts can be directly stored in any digital format for

efficient record management. This data can be edited later and split to be sent to different sectors of the company. Thus, automation is the primary focus.

2. Data Forecasting

The primary focus was on understanding how historical pump performance data is used for data forecasting in the manufacturing and testing process. Past test results related to pump head, flow rate, efficiency, power consumption, and operating conditions are collected and analysed to predict future pump behaviour and performance trends. This forecasting helps the company in planning production, optimizing test bed usage, anticipating customer requirements, and identifying potential performance deviations in advance.

3. Data Analysis

The primary focus was on understanding the mechanical pump test bed and the process of data analysis used during pump testing. Customer requirements such as pump head, RPM, efficiency, flow rate, pressure, and power consumption are identified and measured using the test setup and control panel. This test data is then analysed from a mechanical engineering perspective to evaluate pump performance, ensure quality control, and validate compliance with required specifications.





Learning Outcomes

- Understood the importance of automating invoice processing to reduce manual work and improve data accuracy and management.
- Learned how historical pump performance data is used for forecasting to support production planning and decision-making.
- Gained practical knowledge of pump test bed operations and mechanical data analysis for evaluating pump performance and meeting required specifications.

Conclusion

The industry visit helped us finalise the project requirements and understand the current invoice system used in the company, along with the role of data analysis and data forecasting in pump testing, performance evaluation, and production planning.