



Vishwakarma of Information Technology, Pune

(NAAC accredited A++, An Autonomous Institute
affiliated to Savitribai Phule Pune University)

Visit Report

Date: 11/02/2026

Name of Organization visited: **NORD DRIVESYSTEMS PVT. LTD.**

Date of Visit: **11th Feb 2026**

Time of visit: **11.00 pm**

Place of Visit: **Hinjewdi, Pune**

Mode of Transport: **Self**

VIT Members visited:

Dr Girish Kotwal

Dr Sampada V Dravid

Miss Anuja Mate

30 students from S Y Mechanical and IOT

Industry Person interacted:

Mr. Amit Deokule. Mr Pranav Joshi
--

Agenda:

- To get introduction to industry work
- To study assembly lines and see the working
- To study VFD testing and training centre, stock and logistics plant
- To study technical & operational learnings like manufacturing execution & software
- How quality & standards maintain

Minutes of Meeting:

1. Introduction

On Wednesday, February 11, 2026, students from VIT Pune visited the NORD Drivesystems Pvt. Ltd. facility in Pune. NORD Drivesystems is a global leader in drive technology, renowned for its mechanical and electronic solutions. The objective of this visit was to gain practical insight into large-scale manufacturing, precision engineering, and the operational systems that drive a multinational production plant.



Vishwakarma of Information Technology, Pune

(NAAC accredited A++, An Autonomous Institute

affiliated to Savitribai Phule Pune University)

The visit provided exposure to the assembly of Industrial Gear Units (IGUs), Geared Motors, and Variable Frequency Drives (VFDs), alongside an understanding of the logistics and software systems (SAP/MES) that manage these complex operations.

2. Company Profile

NORD Drivesystemss is a major player in the drive technology industry, producing gear units, motors, and drive electronics. The Pune plant serves as a critical hub for assembly and distribution, adhering to strict global standards of quality and efficiency. The facility is equipped to handle heavy-duty assembly as well as precision electronic testing.

3. Key Observations & Departments Visited

A. Assembly Lines

We toured the main assembly floor where the core mechanical components are integrated.

- **Product Range:** The facility assembles a wide variety of drive solutions, including heavy-duty Industrial Gear Units (IGUs) and standard Geared Motors.
- **Process:** The assembly process is highly structured, ensuring that large-scale manufacturing retains high precision. We observed the synchronization required to assemble complex gear trains and motor housings.

B. VFD Testing and Training Centre

A highlight of the technical tour was the Variable Frequency Drive (VFD) section.

- **Testing:** We observed the rigorous testing protocols for VFDs to ensure they meet performance and safety standards before deployment.
- **Training Centre:** The facility includes a dedicated training area designed to upskill employees and demonstrate drive capabilities to clients.

C. Stock and Logistics Plant

The visit included a walkthrough of the inventory management sections.

- **Logistics:** The scale of the stock plant highlighted the importance of supply chain management in manufacturing. Efficient handling of raw materials and finished goods is essential to maintain the plant's throughput.

4. Technical & Operational Learnings

Manufacturing Execution & Software

Vishwakarma of Information Technology, Pune

(NAAC accredited A++, An Autonomous Institute

affiliated to Savitribai Phule Pune University)

One of the key takeaways was the integration of software into physical manufacturing. Experts explained the use of:

- **SAP (Systems, Applications, and Products):** Used for Enterprise Resource Planning (ERP) to manage business operations and customer relations.
- **MES (Manufacturing Execution Systems):** Used to track and document the transformation of raw materials to finished goods in real-time. This system ensures transparency and efficiency on the shop floor.

Quality & Standards

The discipline behind the processes stood out significantly. The plant operates with structured planning and strict quality control, reinforcing how scalable manufacturing relies on systems and consistency rather than just manual labor.

5. Interaction with Experts

During the visit, we had the opportunity to interact with industry experts, including Mr. Amit Deokule and Mr. Pranav Thakur. The Q&A session covered both technical and business aspects of the company:

- **Technical Queries:** Discussions revolved around the specific engineering challenges of assembling high-torque IGUs and the thermal management of VFDs.
- **Business Insights:** We learned about the operational challenges of running a global subsidiary and how NORD maintains market competitiveness through technological innovation.

6. Conclusion

The industrial visit to NORD Drivesystemss was a significant learning experience. It bridged the gap between academic theory and industrial practice, particularly in understanding how precision engineering operates at scale. Observing the synergy between mechanical assembly, electronic testing, and software management provided a holistic view of modern manufacturing.

Photographs (if any)





Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma of Information Technology, Pune

(NAAC accredited A++, An Autonomous Institute
affiliated to Savitribai Phule Pune University)

Outcome:

- Gearing Mechanism and belt drive with sensors is given in the department for students understanding

Name and Signature: Dr. S. V. Dravid

Designation Asst Prof

Department: Mechanical Engg Dept.