

**School of Engineering & Technology**  
Department of Mechanical Engineering

**INDUSTRIAL VISIT REPORT**

Visit: Industrial Visit to Bhalerao Cold Storage, Niphad, Nashik

Date of Visit: 28<sup>th</sup> March 2026

Organized by: Department of Mechanical Engineering, School of Engineering and Technology

Faculty Coordinator: Mr. Akshay Tajane, Assistant Professor

The primary objective of this industrial visit was to provide students with practical exposure to cold storage systems and refrigeration technologies. The visit aimed to enhance students' understanding of vapour compression refrigeration systems and their real-world applications in food preservation and storage industries.

Bhalerao Cold Storage, located in Niphad, Nashik, is a large-scale facility used for the preservation of perishable goods such as fruits and vegetables. The plant uses advanced refrigeration systems to maintain controlled temperature and humidity conditions, thereby extending the shelf life of stored products.

Students were introduced to the working of the Vapour Compression Refrigeration System, including:

- Compressor: Increases pressure and temperature of refrigerant
- Condenser: Rejects heat and converts vapour into liquid
- Expansion Device: Reduces pressure of refrigerant
- Evaporator: Absorbs heat from the storage space

Additional observations included:

- Temperature control mechanisms
- Insulation techniques used in cold storage
- Energy-efficient practices in refrigeration systems
- Maintenance and safety procedures
  
- Understanding of real-time industrial refrigeration systems
- Knowledge of cold storage operations and preservation techniques
- Exposure to industrial equipment and processes
- Bridging the gap between theoretical concepts and practical applications
- Awareness of energy efficiency and sustainable practices

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