

**MET's Institute of Engineering  
Bhujbal Knowledge City, Adgaon, Nashik  
Department of First Year Engineering**

Name of the program- "Industrial Visit"

Date: 28/08/2025

Time: 10:00AM - 1:30PM

Day: Thursday

Venue:

Induction Coordinator-Dr. R. S. Dhake & Prof. R. D. Rajkuvar

Activity Coordinator: Shilpa M Mugde

Event Coordinator:

Comp: Prof. Amol Gosavi

IT: Prof. Harshal Khairnar

### Objectives of the Visit

1. To understand the functioning of a farmer-producer company (FPC).
2. To observe modern food processing techniques and quality-control systems.
3. To study cold-chain management and export procedures.
4. To learn how technology is used in sorting, grading, packaging, and traceability.
5. To gain insights into sustainable practices adopted by Sahyadri Farms.

The industrial visit to **Sahyadri Farms**, for IT and Computer students On 28th September 2025 organised by MET's Institute of Engineering Nashik one of India's largest farmer-owned cooperatives located in Nashik, Maharashtra, was organized to give students practical exposure to modern agricultural practices, food processing technologies, supply-chain management, and cooperative business models. The visit helped bridge the gap between theoretical learning and real-world operations within the agri-business sector.

#### About Sahyadri Farms

Sahyadri Farms, established in 2010, is India's leading integrated agri-business company owned by thousands of farmers. It is known for:

- Fresh fruit and vegetable exports
- Food processing (tomato paste, pulps, fruit cubes)
- Packaged consumer products
- Controlled-atmosphere cold storage facilities
- Strong farmer-support systems including training, input supply, and market access

Its mission is to make farming profitable and sustainable through collective efforts and technology-driven operations.

### Areas Observed During the Visit

#### 1 Sorting & Grading Unit

Students observed automated machines used for:

- Fruit sorting based on size, weight, and color
  - Grading to ensure uniformity
  - Removal of defects with AI-based quality detection
- This ensures that only high-quality produce reaches domestic or international markets.

#### 2 Packaging Section

- Use of hygienic, food-safe packaging materials
  - Barcode labeling for traceability
  - Vacuum and MAP (Modified Atmosphere Packaging) systems
- These practices increase shelf life and maintain export standards.

#### 3. Cold Storage & Supply Chain



Sahyadri Farms operates advanced cold-chain systems:

- Pre-cooling units
  - Controlled-atmosphere (CA) storage
  - Temperature-monitored logistics
- Students learned how maintaining the cold chain prevents spoilage and preserves freshness during long-distance exports.

#### 4. Food Processing Unit

The visit covered processing of various products such as tomato paste, fruit pulp, and beverages. Observations included:

- Cleaning and sterilization procedures
  - Pulp extraction and concentration units
  - Retort packaging and aseptic processing
- All operations follow international food-safety standards such as HACCP and ISO guidelines.

#### 5 Cooperative & Farmer Support System

Sahyadri Farms provides:

- Training in modern agricultural practices
  - Supply of seeds, fertilizers, and technical guidance
  - Buy-back assurance for produce
- This model empowers farmers and ensures consistent quality.

#### Key Learnings

- Importance of technology in agriculture and food processing
- How large-scale cooperatives function and benefit farmers
- Real-time understanding of quality control and hygiene
- How export documentation, grading standards, and logistics work
- Importance of sustainability, traceability, and zero-waste utilization

#### Benefits of the Visit

- Enhanced understanding of agri-business management
- Exposure to real industrial machinery and workflow
- Awareness of global food safety standards
- Motivation to explore careers in agriculture, supply chain, and food processing

#### Conclusion

The industrial visit to **Sahyadri Farms** was highly informative and insightful. It provided students with a deeper understanding of the integration of farming, technology, and business. The visit successfully connected classroom knowledge with real-world agricultural and industrial practices, helping students appreciate the scale and efficiency of modern agri-business operations.





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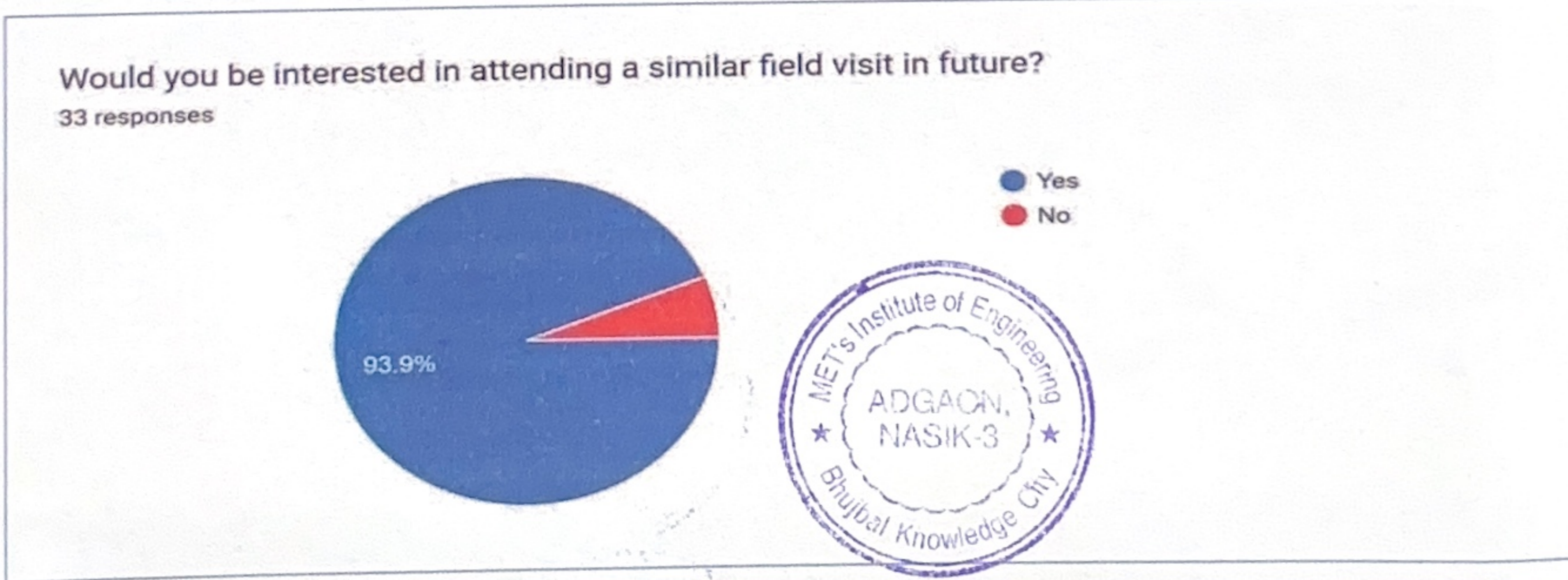


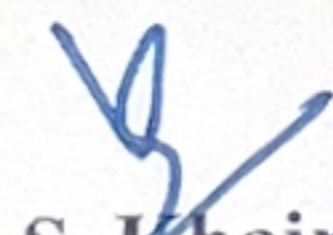
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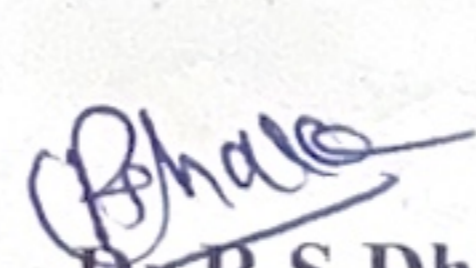
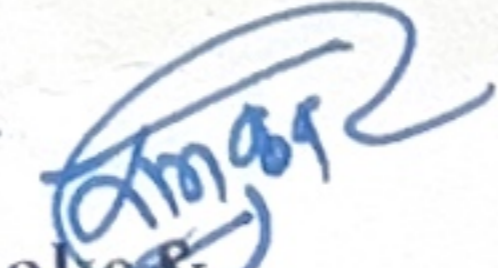



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