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(Ministry of HRD Initiative)



Sarvajani Education Society
Sarvajani College of Engineering & Technology

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**Report for Field/Exposure Visit to
Preincubation Units**

“SUMUL Dairy, Surat”

Date: 2nd December 2025

In association with
Institution's Innovation Council (IIC), SCET

INTRODUCTION

Sarvajani College of Engineering and Technology organized field visit to “**SUMUL Dairy, Surat**” on 2nd December 2025. The visit was conducted as a part of their practical learning. SUMUL Dairy, a leading unit under the AMUL cooperative network, offered students first-hand exposure to large-scale dairy processing, quality control, automation, and industrial safety practices.

The major objectives of the industrial visit were:

- To provide students real-time exposure to large-scale mechanical systems used in dairy processing industries.
- To correlate theoretical concepts of Basic Mechanical Engineering with practical applications.
- To understand the functioning of automated packaging, refrigeration, and material-handling systems.
- To study the cooperative dairy model and its socio-economic significance.
- To observe industrial safety, hygiene standards, and maintenance practices followed in food processing industries.

ORIENTATION SESSION & PRESENTATION

The visit began in the Visitor Presentation Room, where a 15-minute documentary was shown. This video covered:

- The history and development of SUMUL and AMUL
- Contributions of Dr. Verghese Kurien, Morarji Desai, and leadership of Narendra Modi in promoting cooperative dairy movements
- Overview of AMUL’s plants: 4 in Gujarat, 3 in Maharashtra, and 1 in Goa
- Details about milk procurement from Surat and Tapi districts
- SUMUL’s daily handling capacity of 25 lakh litres

This session provided students with background knowledge on cooperative supply chains and large-scale operations.

PLANT VISIT AND UNIT OBSERVATIONS

Total 49 Students & 2 Faculty Members visited four key automated units:

- Milk Pouch Packaging Unit: High-speed automatic machines handling filling, sealing, and labeling operations with precision and hygiene.
- Ghee Pouch Packaging Unit: Advanced filling systems for viscous products, ensuring consistency, airtight sealing, and controlled temperature environment.
- Paneer Packaging Unit: Semi-automated processes for pressing, cutting, and hygienic pouch packing of paneer blocks.
- Butter Packaging Unit: Low-temperature automated molding, slicing, and wrapping systems ensuring product quality and shape.

SUMUL’s Other Production Facilities

Navi Pardi Plant: Dedicated to the production of ice cream and frozen value-added products. Equipped with modern freezing, mixing, and fully automated packaging systems ensuring hygiene and consistent product quality.

Bajipura Plant: One of the region's most advanced animal feed (dan) production units, producing high-quality cattle feed using automated mixing and processing technology that supports livestock nutrition and dairy productivity.



ACKNOWLEDGMENT

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