

"Dissemination of Education for Knowledge Science & Culture."

-Shikshan Maharshi Dr. Bapuji Salunkhe



Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE, KOLHAPUR

(An Empowered Autonomous Institute)

A Industrial Field Visit Report

" Nandini Milk Dairy, Mysuru"

Submitted By

Miss. Srushti Sachin Khot

Under The Guidance

Dr. V. B. Waghmare

For a partial fulfilment of Degree

B.Sc. in Computer Science

Submitted to

B.Sc. (Computer Science)

Academic year :2025-2026

Acknowledgement

I would like to express my sincere gratitude to our college and faculty members for organizing the field visit to **Nandini Milk Dairy, Mysuru**. This visit provided us with a valuable opportunity to gain practical knowledge about the working of a dairy processing plant.

I would also like to thank the management and staff of Nandini Dairy for allowing us to visit their facility and for explaining the different stages of milk processing, packaging, and quality control. Their guidance and explanations helped us understand how modern dairy industries operate.

I am also thankful to my classmates for their cooperation and support during the visit. The experience gained during this field visit helped us connect theoretical knowledge with real industrial practices.



Name-Srushti Sachin Khot

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Introduction

Nandini is a popular dairy brand owned by the **Karnataka Milk Federation (KMF)** in Karnataka. It was established to support dairy farmers and to provide fresh and high quality milk and dairy products to consumers across the state. The federation works under a cooperative system where thousands of farmers from different villages supply milk to local milk collection centers. This milk is then transported to dairy processing plants where it is processed, packaged, and distributed to the market.

Nandini dairy plants follow modern technology and hygienic practices for processing milk and other dairy products. The milk collected from farmers is tested for quality and purity before it enters the processing stage. After quality testing, the milk undergoes several processes such as filtration, pasteurization, and standardization. These processes ensure that the milk is safe, nutritious, and suitable for consumption. The processed milk is then packed in sealed pouches using automated machines and stored in cold storage before being distributed to retailers and consumers.

Apart from milk, Nandini produces a wide variety of dairy products including curd, butter, ghee, paneer, ice cream, and flavored milk. These products are known for their good quality, affordability, and freshness. Nandini products are widely consumed across Karnataka and are also supplied to other parts of India.

The main objective of Nandini is not only to supply quality dairy products but also to improve the economic condition of rural farmers. By collecting milk directly from farmers and paying them fair prices, the organization helps increase their income and supports rural development. The dairy industry also creates employment opportunities in areas such as milk collection, processing, transportation, and marketing.

Objectives

1. **Analyze Automation Systems:** Observe programmable logic controllers (PLCs), robotics, and SCADA (Supervisory Control and Data Acquisition) systems used in pasteurization, homogenization, and packaging.
2. **Understand Data Management:** Explore software tools used for inventory tracking, procurement, production monitoring, and supply chain logistics.
Explore Real-time Data
3. **Analytics:** Learn how data-driven approaches and sensors are used for quality control, temperature monitoring in cold storage, and reducing human error.
4. **Identify Technical Challenges:** Identify bottlenecks in production that require software, AI, or IoT solutions to improve efficiency, especially in semi-automated plants.
5. **Bridge Theory and Practice:** Gain practical insights into how IT, networking, and information systems are integrated into manufacturing operations

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COLLEGE, KOLHAPUR(Empowered AUTONOMOUS)**



VIVEKANAND COLLEGE, KOLHAPUR

(An Empowered Autonomous Institute)

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Submitted By

Pradnya Pandurang Nayakawade

For a partial fulfilment of Degree BACHELOR
OF SCIENCE (C.S)

Submitted to

B.Sc. (Computer Science)
Shivaji University Kolhapur
Academic year 2025-2026

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

Department of Computer Science

CERTIFICATE

This is to certify that

Miss. PRADNYA PANDURANG NAYAKAWADE

Class : B.Sc-III Subject : Computer Science Roll No : 8300

Visited **Nandini Milk Dairy, Mysuru** and sincerely attended seminars during the Computer Science study tour as per syllabus of Vivekanand College, Kolhapur (Autonomous) and completed successfully.

Academic Year : 2025 - 2026

Date : 09 / 03 / 2026

1) _____



Teacher in charge

Examiner

2) _____

Dr. V. B. Waghmare

(H.O.D of Computer Science Dept)

HEAD
DEPARTMENT OF COMPUTER SCIENCE
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

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Name : Pradnya Pandurang Nayakawade
Roll no. : 8300

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