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**SCHOOL OF SCIENCE
DEPARTMENT OF CHEMISTRY**

Event Activity Report – “Industrial Visit to NHRDF Lab, Niphad”

Academic Year: 2025–26

College Name: School of Science, Nashik

Department: Department of Chemistry

Event Date: 14.03.2026

Duration: 1 Day

Location: NHRDF (National Horticulture Research and Development Foundation Lab), Chitegaon Phata, Darna Sangvi, Tal. Niphad, Nashik

Participants: BSc and MSc Students from the Department of Chemistry

Event Coordinator: Dr. Leena Patil and Ms. Akansha Raut

Introduction

The Department of Chemistry organized an industrial visit to **NHRDF (National Horticulture Research and Development Foundation) Laboratory**, located at Chitegaon Phata, Darna Sangvi, Tal. Niphad, Nashik, on **14th March 2026**. The visit was arranged to provide students with practical exposure to laboratory research, analytical techniques, and scientific practices related to horticulture and agricultural chemistry. NHRDF is a reputed research organization involved in the development, testing, and quality evaluation of horticultural crops, especially onions and other agricultural products.

Objective

The main objectives of the industrial visit were:

1. To understand laboratory-based research and analytical techniques used in agricultural and horticultural science.
2. To observe various laboratory instruments used for soil, fertilizer, and crop analysis.
3. To familiarize students with modern research practices and laboratory safety procedures.
4. To enhance students' knowledge about the role of chemistry in agriculture and crop development.
5. To bridge the gap between theoretical knowledge and practical applications in research laboratories.

Activities Conducted

During the industrial visit, students were guided through different sections of the NHRDF laboratory. The major activities included:

Introduction to NHRDF

The visit began with an introductory session where experts from the organization explained the history, objectives, and research activities conducted at the NHRDF laboratory.

Laboratory Demonstration

Students were shown various laboratory instruments used for analyzing soil samples, fertilizers, and crop quality. They were also introduced to analytical techniques used in agricultural chemistry.

Soil and Fertilizer Analysis

Experts demonstrated procedures used to determine soil nutrients, pH levels, and chemical composition important for crop growth and productivity.

Research and Development Activities

Students learned about ongoing research projects aimed at improving crop yield, disease resistance, and quality of horticultural products.

Interaction with Scientists

An interactive session was conducted where students asked questions related to laboratory techniques, agricultural chemistry, and career opportunities in research and development.

Impact and Response

The industrial visit provided students with valuable practical knowledge about laboratory research and analytical methods used in agricultural science. The visit helped students understand the importance of chemistry in soil analysis, fertilizer evaluation, and crop quality improvement.

Students gained insight into real-time research practices and scientific approaches used to improve agricultural productivity. The interaction with experts also motivated students to explore career opportunities in research laboratories and agricultural industries.

Conclusion

The industrial visit to **NHRDF Laboratory, Niphad** was a highly informative and enriching experience for the students of the Department of Chemistry. The visit successfully connected theoretical knowledge with practical laboratory applications in the field of agricultural chemistry. It enhanced students' understanding of analytical techniques, research methodologies, and the role of chemistry in horticultural development.

Acknowledgment

The Department of Chemistry sincerely thanks **NHRDF Laboratory, Niphad** for granting permission and providing valuable guidance during the industrial visit. The department also expresses gratitude to **Sandip University, Nashik**, and the faculty members for organizing this educational program. Special thanks are extended to all students for their enthusiastic participation and active involvement throughout the visit.



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