



# GOVERNMENT COMMERCE AND SCIENCE COLLEGE, DAHEJ

TA: VAGRA, DIST: BHARUCH

AFFILIATED TO VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

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## Report on Industrial Visit to Green Leaf Chem Tech Private Limited (Pragna Pharma) Dahej

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|------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Department                         | Science                                                                                                                 |
| Date of Event                      | 15/10/2026                                                                                                              |
| Name of the Event                  | Industrial Visit to Green Leaf Chem Tech Private Limited<br>(Pragna Pharma) Dahej                                       |
| Event category                     | Industrial Visit                                                                                                        |
| Level                              | College                                                                                                                 |
| Resource persons                   | Mr. Nilesh Patel (HR Head)                                                                                              |
| Address                            | Plot No. D/2/CH/231, D/2/CH/232 & D/2/CH/272, GIDC<br>Estate, Taluka Vagra, Dahej-2, Bharuch, Gujarat 392130,<br>India. |
| Number of students<br>participated | 11                                                                                                                      |

The SSIP Cell and Placement Cell of Government Commerce and Science College, Dahej, organized an industrial visit to **Green Leaf Chem Tech Private Limited, a group company of Pragna Pharma Pvt. Ltd.**, on 15 October 2026 for Third Year B.Sc. (TY B.Sc.) students. The visit aimed to provide students with practical exposure to industrial operations, quality control, quality assurance, environmental health and safety, production processes, and research and development activities. Dr. Gourav Upadhyay (SSIP and Placement Cell Coordinator) accompanied 11 students during the visit.

The group reached the industry at approximately 12:00 PM and was warmly welcomed by **Mr. Nilesh Patel**, Head of Human Resources (HR). He escorted the students to the conference room, where tea and refreshments were served.

Following the initial welcome, **Dr. Shailesh Zadafiya**, Lead – Environment, Health and Safety (EHS), interacted with the students and introduced them to the various departments

and functions of the industry. He highlighted the importance of workplace safety, environmental protection, and effluent treatment in chemical industries. He also encouraged students to pursue postgraduate studies and acquire advanced knowledge and technical skills to enhance their career prospects in the industry. He also discussed the unit operations and unit processes running in the industry.

Mr. Nilesh Patel subsequently accompanied the students to the Quality Control Department, where **Mr. Chetan Raj**, Team Lead – QC, explained the fundamental principles and industrial applications of analytical instruments, particularly High-Performance Liquid Chromatography (HPLC) and Gas Chromatography (GC).

The students were introduced to the physical appearance and major components of these instruments, their basic working principles, and the interpretation of chromatograms displayed on computer screens. The demonstration helped them understand how instrumental analytical techniques are used to identify, separate, and analyse chemical compounds and assess the quality of industrial products.

The students were then taken to the wet laboratory, where they learned about titrimetric analysis, Karl Fischer titrators for moisture determination, and automatic titrators. These demonstrations provided valuable practical insight into analytical techniques and their applications in industrial laboratories.

The next session was conducted by **Mr. Naeem Malik**, Team Lead – Quality Assurance. He explained the role of the Quality Assurance Department in maintaining product quality and ensuring consistency throughout industrial operations.

The students were introduced to the importance of quality verification, systematic documentation, adherence to established protocols, and compliance with applicable ISO standards and quality-management requirements. The session helped them understand the distinction between quality control, which focuses on testing and analysis, and quality assurance, which focuses on systems and procedures that ensure consistent quality.

The students had an enthusiastic and encouraging interaction with **Dr. Dharmesh Patel**, Director of the company. He discussed career opportunities available to graduates in the chemical and pharmaceutical industries and emphasized the importance of technical knowledge, practical skills, discipline, and a willingness to learn.

He warmly welcomed the students and encouraged them to consider pursuing careers in the industry. The interaction provided valuable guidance regarding their professional development and future career choices.

One of the most informative parts of the visit was the tour of the industrial production plant. **Mr. Jignesh Patel**, Manager – Production, guided the students through the plant and explained the functioning of major industrial equipment and the precautions required while working in a chemical manufacturing environment.

The students observed various types of equipment, including:

- Centrifuges used for solid–liquid separation.
- Glass-lined reactors used in chemical reactions requiring corrosion-resistant reaction vessels.
- Stainless-steel reactors used for industrial processing.
- Large-scale reactors used for carrying out Grignard reactions.

The demonstration of a large-scale reactor used for a Grignard reaction was particularly valuable, as it helped students appreciate the challenges involved in translating laboratory-scale reactions into industrial-scale operations.

Mr. Jignesh Patel emphasized the importance of understanding fundamental principles, unit operations, process control, and safety precautions. He also explained the significance of following operating procedures and maintaining safety standards while handling chemicals and operating industrial equipment.

This session enabled students to connect their theoretical knowledge with practical industrial manufacturing processes.

The final technical session took place in the Plant Support Research and Development Laboratory, where **Dr. Mukund Deshmukh**, Team Lead – R&D, introduced the students to the laboratory's activities and its role in supporting industrial production.

He demonstrated the distillation setup and explained its application in separation and purification processes. The students were also introduced to the preparation and execution of gram-scale chemical reactions and the importance of purification techniques in obtaining products of the desired quality.

Furthermore, he discussed troubleshooting in the R&D laboratory and explained how laboratory-scale experiments, process optimization, and problem-solving contribute to the successful operation of industrial production units.

The session highlighted the close relationship between research and development and industrial manufacturing, demonstrating how experimental skills, systematic investigation, and process optimization contribute to improved production and product quality.

The industrial visit provided students with valuable practical exposure and helped them achieve the following learning outcomes:

1. **Understanding industrial organization:** Students gained an overview of the functions of different departments, including EHS, QC, QA, production, and R&D.
2. **Exposure to analytical instrumentation:** They observed HPLC, GC, Karl Fischer titrators, and automatic titrators and learned about their industrial applications.
3. **Awareness of quality systems:** Students understood the importance of quality assurance, quality control, documentation, standard operating procedures, and applicable quality standards.
4. **Knowledge of industrial equipment:** They observed centrifuges, glass-lined reactors, and stainless-steel reactors and learned about their applications in chemical manufacturing.
5. **Understanding scale-up processes:** The demonstration of a large-scale Grignard reaction reactor helped students appreciate the practical considerations involved in scaling up chemical reactions.
6. **Safety and environmental awareness:** Students learned about industrial safety practices, environmental protection, and effluent treatment.
7. **Exposure to research and development:** They gained insight into gram-scale reactions, distillation, purification, and troubleshooting in an R&D laboratory.
8. **Career guidance:** Interactions with industry professionals helped students understand the importance of postgraduate education, technical competence, and practical experience for career advancement.

At the conclusion of the visit, **Dr. Gourav Upadhyay** and the participating students expressed their sincere gratitude to **Dr. Dharmesh Patel**, Director, and **Dr. Dipak Patel**, Director, **Mr. Nilesh Patel**, Head of HR, and the entire team of Green Leaf Chem Tech Private Limited for granting permission, extending a warm welcome, and providing detailed explanations and demonstrations across the various departments.

The college also acknowledges the valuable support and involvement of **Dr. Leena Dave**, Principal, Government Commerce and Science College, Dahej, in arranging the visit and obtaining the necessary permissions.

## EVENT GALLERY



