

SVA Govt. Degree College (M), Srikalahasti

Dept. of Chemistry

Report on Industrial Visit to Glory Pharma Chem Pvt. Ltd.

Executive summary

As part of the Memorandum of Understanding (MoU) between SVA Govt. Degree College, Srikalahasti, and Glory Pharma Chem Pvt. Ltd., our Department of Chemistry organized an industrial visit to the company's facility on **07.08.2024**. The visit aimed to provide students with practical exposure to the industrial processes and to bridge the gap between academic learning and real-world application.

Orientation session conducted by Dept. of Chemistry

An orientation session was organized by the Department of Chemistry on 05.8.2024 at SVA Govt. Degree College (M), Srikalahasti, in anticipation of the upcoming industrial visit to Glory Pharma Chem Pvt. Ltd. The primary objective of this session was to prepare students by aligning the visit's focus with the relevant topics covered in their syllabus.



Principal, Dr. Sreelatha interacting with the students during the orientation session

Key Topics Covered:

- Overview of drug development processes.
- Synthesis and characterization of pharmaceutical compounds.
- Quality control and assurance in the pharmaceutical industry.

- Analytical techniques used in pharmaceutical quality control.
- Chromatography and spectroscopy in compound analysis.
- Waste management in pharmaceutical industries

Discussion:

The session involved an interactive discussion on how the theoretical knowledge of these topics is applied in a pharmaceutical setting. Faculty members provided insights into the types of machinery and technology used in Glory Pharma Chem Pvt. Ltd. The importance of understanding standard operating procedures (SOPs) and compliance with industry regulations was also emphasized.

Industrial Visit to Glory Pharma Chem Pvt. Ltd

Participants:

Students: III B.Sc (BZC)

1. Chembeti Anitha
2. Janavath Parameshnayak
3. T. Honey Priya
4. Nagalapuram Renuka
5. Thammannagari Monika
6. Thatuku Deepika
7. Vayyavuru Lakshmi prasanna
8. Vetti Vishnu

Faculty Members:

1. Dr. A. Ramesh Babu, Lecturer in Chemistry
2. Smt. K. Sivalalshmi Koteswaramma, Contract Lecturer in Chemistry

Objectives of the Visit:

- To provide students with practical exposure to the pharmaceutical manufacturing process.
- To understand the roles and responsibilities of different departments within a pharmaceutical company.
- To observe the application of theoretical knowledge in an industrial setting.
- To foster industry-academia collaboration through interaction with professionals in the field.

Induction by Dr. G. Ramachandra Reddy, MD of Glory Pharma Chem Pvt. Ltd.:

The visit began with a warm welcome and an insightful induction session led by Dr. G. Ramachandra Reddy, the Managing Director of Glory Pharma Chem Pvt. Ltd. Dr. Reddy provided a comprehensive overview of the company, its history, and its mission to produce high-quality pharmaceutical products. He emphasized the company's commitment to quality, and safety, and shared his vision for the future of the pharmaceutical industry. Dr. Reddy also highlighted the importance of industry-academia collaboration in fostering the next generation of chemists and industry professionals.



Tour of the Facilities:

1. **Warehouse:** The first stop on our tour was the warehouse, where raw materials and finished products are stored. The warehouse is a critical component of the company's supply chain management, ensuring that materials are stored under optimal conditions to maintain their quality. We observed the systematic organization of inventory, the use of advanced storage systems, and the stringent protocols in place to manage the flow of materials.



Industry person explaining the SOPs followed in the maintenance of ware house

2. **Production Department:** The production department was the next focus of our visit. We were introduced to the sophisticated machinery and reactors used in the synthesis of pharmaceutical compounds. The staff explained the importance of maintaining specific reaction conditions, such as temperature, pressure, and pH levels, to ensure the desired chemical reactions occur efficiently and safely.



Obsevation of working of different reactors

3. **Quality Control (QC) Department:** The Quality Control department is responsible for ensuring that every batch of products meets the strict quality standards required in the pharmaceutical industry. We were shown around the wet lab, where traditional analytical methods such as titrations, melting point checks, and moisture analysis are conducted. Additionally, we observed the use of advanced instruments like High-Performance Liquid Chromatography (HPLC) and Gas Chromatography (GC) for more precise analysis.



Demonstration of High-Performance Liquid Chromatography (HPLC) experiment



Students observing HPLC instrument working procedure

Wet Lab



Students discussing the experiments conducted in the wet lab



Demonstration of different wet lab experiments like Checking of Melting point, Checking moisture of the pharmaceutical products

HPLC Instrumentation Lab



Students observing the HPLC instrument and process of separation of mixture of compounds



Demonstration of different columns used in HPLC instrument



GC Instrumentation lab



Demonstration of Gas Chromatography (GC) experiment



Students observing the GC Columns and process of separation of mixture of compounds

4. **Quality Assurance (QA) Department:** The Quality Assurance department oversees the entire manufacturing process, ensuring that all operations comply with Good Manufacturing Practices (GMP) and other regulatory requirements. The department is also responsible for internal audits, documentation, and validation of processes. The visit provided us with an understanding of how QA ensures that the products released into the market are safe, effective, and of the highest quality.



Students observing the documentation and preservation of different records in the QA department

5. **Safety Department:** The Safety Department plays a crucial role in protecting both the employees and the environment. We were briefed on the various safety protocols, including the use of personal protective equipment (PPE), emergency response procedures, and regular safety drills. The department's proactive approach to hazard identification and risk management was evident, reinforcing the company's commitment to a safe working environment.
6. **Maintenance Department:** Our visit also included a tour of the Maintenance Department, which is responsible for ensuring that all equipment and machinery are in optimal working condition. The maintenance team explained their routine checks, preventive maintenance schedules, and the importance of timely repairs to avoid any disruptions in production.
7. **Interaction with Employees and Management:** The visit concluded with an interactive session where we had the opportunity to engage with the employees and management of Glory Pharma Chem Pvt. Ltd. The staff members shared their experiences and insights into working in the pharmaceutical industry. This interaction was highly beneficial, providing us with practical advice on career development and the skills required to succeed in this field. The management also expressed their willingness to continue supporting academic collaborations and internships for students.



Students interaction with MD and other staff members and clarifying their doubts

Outcomes of the Visit:

- Gained a comprehensive understanding of the pharmaceutical production process, from raw material handling to finished product release.
- Enhanced knowledge of quality control and assurance practices, including the use of advanced analytical techniques.
- Developed an appreciation for the importance of safety and maintenance in ensuring smooth and efficient operations.
- Strengthened the relationship between SVA Govt. Degree College and Glory Pharma Chem Pvt. Ltd., paving the way for future collaborations.

Gallery







GLORY PHARMA CHEM-INDIA PVT LTD

An ISO 9001 : 2015 Certified cGMP & API Manufacturing Unit

This is to certify that the following students (III B.Sc-BZC) have successfully attended an industrial visit to Glory Pharma Chem Pvt. Ltd. on 07.08.2024. The visit was organized by Dept. of Chemistry, SVA Govt. Degree College(M), Srikalahasti and provided valuable insights into the pharmaceutical industry's operations and processes.

Participants:

Students:

1. Chembeti Anitha
2. Janavath Parameshnayak
3. T Honey Priya
4. Nagalapuram Renuka
5. Thammannagari Monika
6. Thatuku Deepika
7. Vayyavuru Lakshmiprasanna
8. Vetti Vishnu

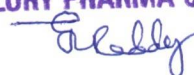
Faculty Members:

1. Dr. A. Ramesh Babu
2. Smt. K. Sivalalshmi Koteswaramma

The visit aimed to provide the students firsthand experience of pharmaceutical manufacturing processes, quality control, and industry operations. During the visit, students actively interacted with industry professionals, asking insightful questions and gaining practical knowledge that complemented their theoretical learning.

The industrial visit to Glory Pharma Chem Pvt. Ltd. was highly educational and beneficial for the students. It gave them a practical perspective on the pharmaceutical industry, enhancing their understanding of the subject matter. The students and faculty expressed their gratitude for the opportunity and hospitality extended by the company.

For GLORY PHARMA CHEM INDIA PVT. LTD

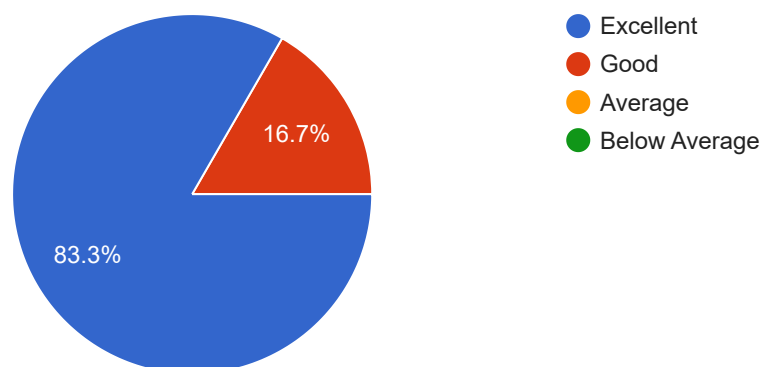


Authorised Signatory

How would you rate the overall experience of the industrial visit?

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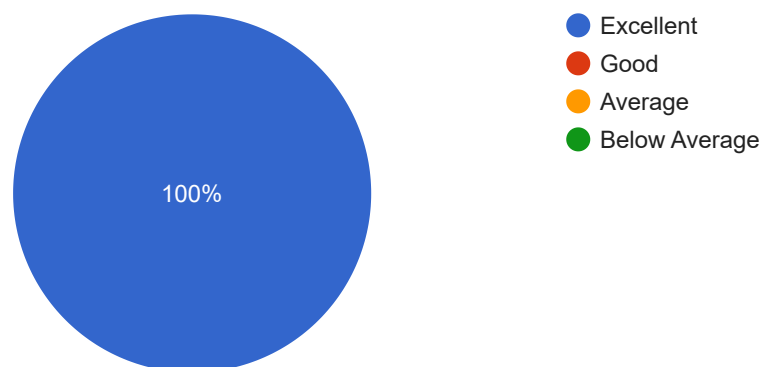
6 responses



How well did the company representatives explain their process and operations

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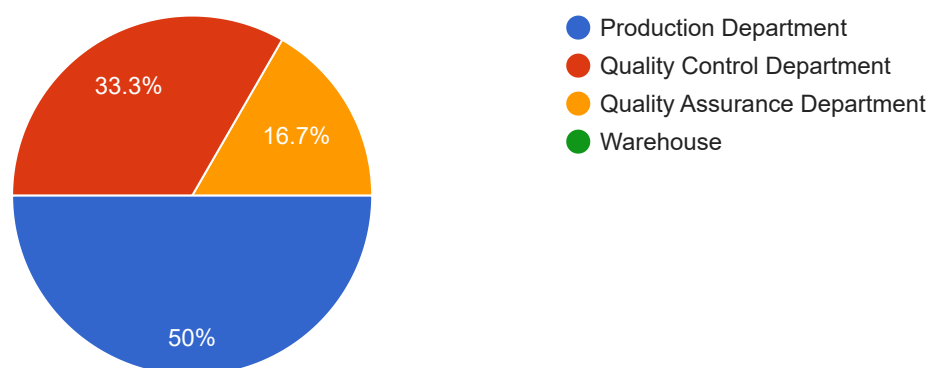
6 responses



Which specific area of the visit did you find most useful to you (You may select more than one)

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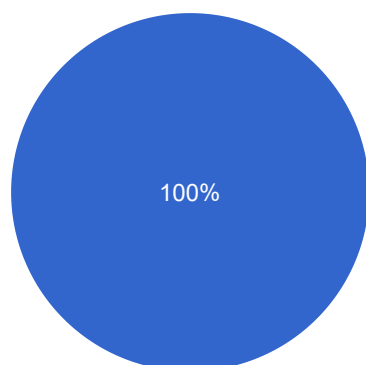
6 responses



How do you rate the hospitality and interaction with company Staff

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6 responses

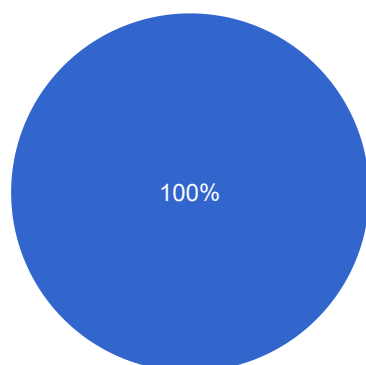


- Excellent
- Good
- Average
- Below Average

Do you feel the visit helped bridge the gap between theoretical knowledge and practical application?

 Copy

6 responses

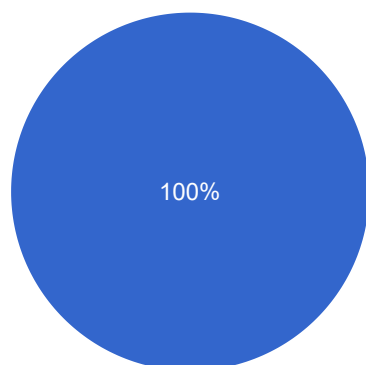


- Strongly agree
- Agree
- Neutral
- Disagree

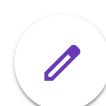
Which technique is most useful to you

 Copy

6 responses

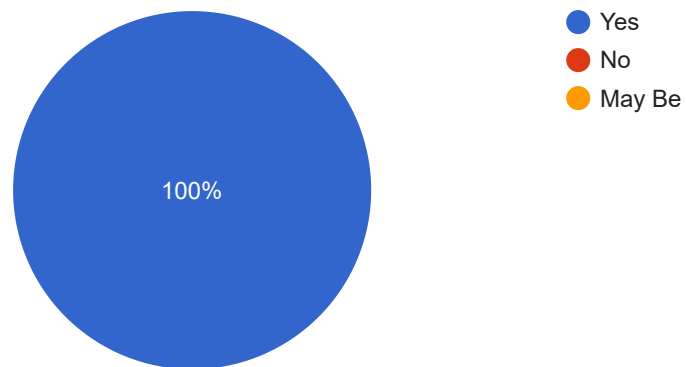


- HPLC
- GC
- Melting point testing
- Moisture measurement



Do you recommend this industrial visit to future batches Copy

6 responses

**What suggestions do you have for improving future industrial visits?**

6 responses

Good

Excellent

PRODUCT QUALITY MAINTENANCE

Security

NA

Good

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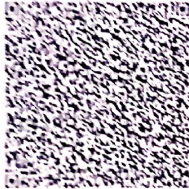


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Memorandum of Understanding (MoU) for Students internships, Placements and research collaboration

This Memorandum of Understanding (MoU) is made executed on this date 31th July of the year 2024, valid until 31th July 2027.

Between

Department of Chemistry,
SVA Government College,
Srikalahasti

AND

Glory Pharma Chem
India Pvt Ltd, Tirupati

hereinafter referred to as "The
College,"

hereinafter referred to as "The
Company."

Purpose:

The parties enter into this MoU with the primary objective of fostering collaboration and mutual benefit in the field of research, education, and development.



M. Venkata
31/7/2024

PRINCIPAL

S.V.A. GOVT. COLLEGE (M)
SRIKALAHASTI, Chittoor Dist.

G. Reddy



THOF 0019532788

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- The validity of checking the legitimacy is on the users of the certificate.
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Terms of Agreement:

1. Research Collaboration:

- a. The College and the Company agree to support in the research, specifically focusing on chemistry-related studies.
- b. Both parties will appoint a liaison officer to facilitate communication and coordinate research activities.

2. Exchange Programs:

- a. The MoU includes provisions for exchange programs such as internships, workshops, and seminars for students and faculty of the College at Glory Pharma Pvt Ltd facilities and vice versa.
- b. The duration, selection criteria, and other specifics of these programs will be mutually agreed upon before implementation.

3. Resource Sharing:

- a. The College and the Company may share scientific resources, laboratory equipment, and facilities, subject to specific agreements and conditions to be decided on a case-by-case basis.
- b. Both parties will determine protocols for access, usage, and maintenance of shared resources.

4. Confidentiality:

- a. The parties acknowledge the sensitive nature of certain information exchanged during the collaboration and agree to maintain strict confidentiality.
- b. Confidential information shared between the College and the Company will not be disclosed to third parties without prior written consent.



M. Manabala
31/7/2024
PRINCIPAL
S.V.A. GOVT. COLLEGE (M)
SRIKALAHASTI, Chittoor Dist.



5. Duration and Termination:

- a. This MoU shall commence on the date of signing and remain in effect for a period of three years
- b. Termination of this MoU may occur by mutual agreement or if either party provides a written notice of at least 60 days.

In witness whereof the parties hereto have signed, sealed and delivered this agreement on this date, month and year first above written in the presence of:

For

SVA Government College (M),
Srikalahasti


31/7/2024

Dr.M.Sreelatha

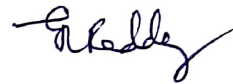
Principal

PRINCIPAL
S.V.A. GOVT. COLLEGE (M)
SRIKALAHASTI, Chittoor Dist.



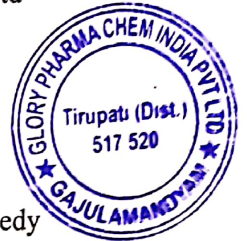
For

Glory Pharma Chem India Pvt.Ltd
Tirupathi



Dr. G. Ramachandra Reedy

Managing Director & CEO



Witnessed by

1. Dr. K. Narasimhavarma, Vice Principal
2. Dr. C. Bapanayya, Coordinator, IQAC
3. Dr.A.Ramesh Babu, In-Charge, Dept. of Chemistry


31/7/2024


31/07/2024