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## Industrial Visit Report

**Aculife Healthcare Pvt. Ltd.**

**Date of Visit:** 08-04-2025

**Venue:** Aculife Healthcare Pvt. Ltd.

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Aculife Healthcare Pvt. Ltd. is known for its specialized production of large volume parenterals, injectables, and medical devices. Aculife has a strong presence in both domestic and international markets.

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### ACKNOWLEDGMENT

Although we were not fortunate enough to witness and observe the manufacturing of sterile NS and Distill water Solution but it is completely justified keeping in mind the companies policy as well as the GMP guidelines and protocols that have to be followed by the company executives overall a pretty neat and valuable experience. My gratitude goes towards the Director, Placement head Ma'am as well as faculty incharge and the company officials. Sincere Thanks

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### Areas Observed During the Visit

#### 1. Packaging Section

We first visited the packaging division, where we saw how sterile products are packed in a controlled environment. The company employs automated filling and sealing machines to ensure that there is minimal human contact, reducing the risk of contamination. We were shown the processes of primary packaging (**like vials and bottles**) and secondary packaging (carton boxing and labeling).

Valuable Learning:

- Use of automated conveyor systems.
- Strict compliance to Good Manufacturing Practices (GMP).
- Barcoding and batch coding for tracking.

#### 2. Sterilization Unit

Next, we were taken to the sterilization department, an essential area ensuring the microbiological safety of parenteral products. The Head of Department explained us:

- Autoclaving (moist heat sterilization) for surgical equipment and devices.
- Dry heat sterilization for glassware.
- Ethylene oxide (ETO) sterilization for heat-sensitive medical devices.

We understood the importance of maintaining validation records for each sterilization cycle, ensuring that each batch meets the required sterility assurance levels.

### 3. Quality Assurance Overview

Although we could not enter the main Quality Control (QC) labs due to regulatory restrictions, the staff gave us a detailed briefing about their Quality Assurance (QA) protocols.

They emphasized:

- In-process quality control during production.
- Use of HPLC , TLC and other methods
- Final product testing before release.
- Use of machine and computers for data computation and maintaining records
- Strict documentation practices for traceability.

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### Safety and Hygiene Practices

Throughout the visit, strict hygiene protocols were observed. We were required to wear protective clothing (gowns, masks, shoe covers) before entering any operational area. The emphasis on cleanroom classifications, personal hygiene, and cross-contamination prevention was evident at every step.

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### Learning Outcomes

This visit provided us with valuable practical exposure to:

- Real-world application of pharmaceutical manufacturing standards.
- Importance of automation in reducing contamination.
- Criticality of sterilization processes in ensuring product safety.
- The necessity for strict quality control in pharmaceutical industries.

It helped bridge the gap between theoretical knowledge and industrial practices, enriching our understanding of how large pharmaceutical companies maintain product integrity and quality.

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### Conclusion

The visit to Aculife Healthcare Pvt. Ltd. was a highly informative and enriching experience. I am grateful to the company for allowing us this insightful glimpse into their operations and to our institute for organizing this visit.

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