

Department of Humanities and Applied Sciences

Report on Industrial Visit

Introduction:-

Industrial visits play a vital role in enhancing the practical knowledge of engineering students. They provide an opportunity to observe real-time industrial operations and understand how theoretical concepts are applied in actual manufacturing environments.

As a part of our academic curriculum, an industrial visit was organized to **Jodhpur, Rajasthan**, where we visited the following two industries:

1. **General Engineering Company (GEC)**
2. **Kansara Modular Limited**

Both companies belong to different manufacturing sectors and are well known for their quality products and modern production techniques.

Objectives :-

The main objectives of this industrial visit were:

- To understand industrial manufacturing processes.
- To observe modern machinery and equipment used in industries.
- To study quality control and safety practices.
- To gain exposure to real industrial working conditions.
- To bridge the gap between theoretical knowledge and practical application.

General Engineering Company (GEC)

Location:- Phase - I, J - 1 - 348, Riico, Industrial Area Sangaria, Jodhpur - 342008, Rajasthan, India.

Company Overview:-

General Engineering Company (GEC) is a manufacturing company specializing in the production of **sand blasting and shot blasting equipment**. The company designs and manufactures machines used for surface preparation, cleaning, and finishing of metal components. GEC supplies its products to various industries such as foundries, automotive, and heavy engineering sectors.

Products Manufactured:-

- Shot Blasting Machines.
- Sand Blasting Machines.
- Surface Preparation Equipment.
- Blasting Accessories and Abrasive Materials.

Manufacturing Process Observed:-

During the visit, the following manufacturing steps were observed:

1. **Raw Material Inspection** – Steel plates and components are inspected for quality.
2. **Fabrication & Machining** – Cutting, welding, and shaping of metal parts.
3. **Assembly** – Mechanical and electrical assembly of machines.
4. **Quality Testing** – Performance and safety testing of machines.
5. **Packaging & Dispatch** – Finished products are packed and prepared for delivery.

Key Observations & Learnings:-

- Well-organized production layout.
- Emphasis on quality control at every stage.
- Skilled workforce and safety practices.
- Machines are tested thoroughly before dispatch.

Kansara Modular Limited:-

Location:- A-41 (B), Marudhar Industrial Area, Phase II, Basni, Jodhpur - 342005, Rajasthan, India.

Company Overview:-

Kansara Modular Limited is a renowned bearing component manufacturing company and a part of the Kansara Group. It specializes in producing **world-class ultra high-precision rollers for bearings**. The company follows advanced manufacturing technology and exports its products to **more than 17 countries worldwide**.

Products Manufactured:-

- Cylindrical Rollers.
- Tapered Rollers.
- Spherical Rollers.
- Thrust Rollers.
- High-precision bearing components.

Manufacturing Process Observed:-

The production process includes:-

1. **Raw Material Inspection** – High-grade steel is selected and tested.
2. **Cold Forging** – Initial shaping of roller components.
3. **Heat Treatment** – Improves strength and durability of rollers.
4. **Precision Grinding** – Achieving ultra-high dimensional accuracy.
5. **Final Quality Inspection** :- Products are inspected as per international standards before export.

Key Observations & Learnings:-

- Use of advanced CNC and grinding machines.
- Strict quality control and inspection systems.
- High precision and accuracy in manufacturing.
- Strong focus on export quality standards.

Conclusion:-

The industrial visit was highly informative and educational. Visiting General Engineering Company helped us understand heavy machine manufacturing and fabrication processes, while Kansara Modular Limited gave insight into high-precision manufacturing and export-oriented industries.

This visit enhanced our understanding of industrial practices, quality control, safety measures, and real-world applications of engineering concepts. It was a valuable learning experience that will be beneficial for our future professional careers.

GEC General Engineering Company :-



Kansara Modler Limited:-

