

# **Industry Visit Report**

**Company Name: Lalbaba Tyre Company, Haldia**

**Date of Visit: 14/03/2024**

**Time: 10:00 AM to 6:00 PM**

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## **1. Introduction**

On the 14th of March, 2024, a team of students and faculty members from Jadavpur University visited the Lalbaba Tyre Company located in Haldia. The purpose of the visit was to gain insights into the manufacturing processes, quality control measures, and overall operational procedures of a leading tyre manufacturing company.

## **2. Organizing Committee**

- **Innovation and Incubation Centre (IIC), Jadavpur University (JU)**
- **Entrepreneurship Cell (ECell), Jadavpur University (JU)**
- **Institution of Mechanical Engineers (IMechE)**

### **Teacher Coordinators in Charge:**

- **Rajib Bandyopadhyay**
- **Pranibesh Mondal**

### **Student Coordinator in Charge:**

- **Samayan Mazumder, Project Fellow, IIC**
- **Asif Ali**

## **3. Arrival and Reception**

The visit commenced at 10:00 AM with a warm welcome by the HR Manager, Mr.A Saha . The team was given an overview of the company's history, mission, and achievements. The introductory session included a brief presentation on the company's product line, market reach, and future prospects.

## **4. Plant Tour**

### **4.1. Raw Material Processing**

The first stop on the tour was the raw material processing unit. Here, we observed the initial stages of tyre production, including the processing of natural and synthetic rubber. The tour guide explained how raw materials are sourced and tested for quality before being processed.

#### **4.2. Mixing and Compounding**

Next, we visited the mixing and compounding area where raw materials are blended to create the rubber compound. The state-of-the-art Banbury mixers used in this process ensure uniformity and quality of the rubber. We learned about the importance of maintaining precise temperature and pressure conditions during this stage.

#### **4.3. Tyre Building**

The tyre building section was particularly fascinating. We watched as skilled workers and automated machines assembled the various components of a tyre, including the tread, sidewalls, and beads. The guide explained how precision and accuracy are crucial in this stage to ensure the durability and performance of the final product.

#### **4.4. Vulcanization**

In the vulcanization department, we saw the rubber compounds being cured and hardened in moulds. The process involves high temperatures and pressures, transforming the pliable rubber into the resilient and elastic material that constitutes a tyre. The significance of this process in determining the final properties of the tyre was highlighted.

#### **4.5. Quality Control**

The quality control lab was our next destination. Here, we observed rigorous testing procedures, including durability tests, tensile strength tests, and x-ray inspections. The company's commitment to quality was evident through their comprehensive quality assurance processes. We were impressed by the technological advancements and meticulous attention to detail in ensuring product reliability and safety.

#### **4.6. Warehouse and Distribution**

Finally, we toured the warehouse and distribution centre. The logistics manager explained the inventory management system and how tyres are stored, packaged, and shipped to various destinations. The efficiency of their distribution network was emphasized, ensuring timely delivery to customers.

### **5. Interactive Session and Q&A**

The visit concluded with an interactive session and Q&A with the company's senior management. Students had the opportunity to ask questions about the company's operations, challenges, and future plans. The discussion also touched on the latest trends in the tyre industry, sustainability initiatives, and career opportunities.

### **6. Conclusion**

The visit to Lalbaba Tyre Company was an enlightening experience, providing valuable insights into the tyre manufacturing industry. The knowledge gained from observing the

intricate processes and interacting with industry professionals was invaluable. We express our heartfelt gratitude to the management and staff of Lalbaba Tyre Company for their hospitality and for providing us with this enriching learning opportunity.

## Acknowledgements

We would like to extend our sincere thanks to the management and staff of Lalbaba Tyre Company for their warm welcome and the effort they put into making our visit informative and memorable.

## Attendance Sheet

ATTENDANCE SHEET			
Name of the event..... <u>Industry Visit (Lalbaba)</u>			
Date & Time..... <u>19/3/2024</u>		Venue..... <u>Haldia (Lalbaba office)</u>	
Sl. No.	Name	Department	Year
01	Asif Ali	Mechanical	UG-I
02	Ad Armita	production	UG-III
03	Samudra Sen	Mechanical	UG-III
04	Nirjhar Dasgupta	Mechanical	UG-III
05	Purnali Bera	Mechanical	UG-III
06	Anirban Sarkar	Mechanical	UG-II
07	Diptangana Saugupta	Mechanical	UG-II
08	Narajit Kumar	Mechanical	UG-II
09	Sudip Kumar	Mechanical	UG-III
10	Dejal Bisoi	Chemical	UG-III
11	Ishan Pat	Mechanical	UG-III
12	Prakar Sarkar	Mechanical	Research Scholar
13	Suman Sowmandal	Mechanical	UG-III
14	Arpheet Bhattacharyya	Mechanical	UG-III
15	Pradyota Panigrahi	Production	UG-II
16	Kaushik Bera	Production	UG-III
17	Anmol Patra	MECH	UG-III
18	Joy MANDAL	Production	UG-III
19	Angha Nandi	ME	UG-III
20	Amitab Baner	ME	UG-II
21	Ananya Rakshit	Production	UG-I
22	Prabhu Sarkar	Chemical	UG-I
23	Asmita Halder	Mechanical	UG-I
24	Sabyasachi Mondal	Chemical	UG-III
25	Tanishree Ghosh	Prod	UG-III
26	Sagnik Mitra	Chemical	UG-III
27	Ankita Dasgupta	Chemical	UG-III
28	Asif Ali	Mechanical	UG-II
30	Aman Haque	Mech	UG-III



## Photos

















