

Report on Industrial Visit in M/S Bosch Automobile Service Centre, Madhubani Bihar

Event Name: Industrial Visit

Date of the Event: 20th March 2023

Duration of the Event: Whole day

Venue: M/S Bosch Automobile Service Centre, Kaluahi Road, Haripur South Madhubani, Bihar-847226

Name of the Event Coordinator: **Dr. Gulshad Nawaz Ahmad**
Assistant Professor, Mechanical Engineering, Sandip University,
Madhubani.

Prof. Anjay Kumar
Assistant Professor, Mechanical Engineering, Sandip University,
Madhubani.

Training and Placement Officer: Mr. Suraj Kumar Jha, Sandip University, Madhubani.

Objective of the Program:

On 20th March 2023, a group of 22 students from the **Department of Mechanical Engineering of SANDIP University, Madhubani**, Bihar visited the M/S Bosch Automobile Service Centre located at Kaluahi Road of Madhubani. The aim of the visit was to understand the working of modern automobile service centres and to gain insights into the latest technologies used in automobile servicing.



Group Photo of Faculty and Students at M/S BOSCH office, Madhubani

Visit Details:

On arrival at the service centre, we were greeted by the manager who gave us a brief overview of the centre's operations. He explained that the centre provided maintenance and repair services for all types of vehicles, ranging from Sedan to SUV's. He also highlighted the importance of regular vehicle maintenance in ensuring safe and reliable performance. The manager then divided us into smaller groups and assigned each group to a different section of the service centre. The sections included engine maintenance, brake and suspension systems, electrical systems, and diagnostics.



Group Photo of Students at SANDIP University, Madhubani Campus

Engine Maintenance Section:

In this section, we observed skilled technicians using modern diagnostic tools to identify engine problems. They also showed us how they carried out routine maintenance tasks such as oil changes and spark plug replacements. We were impressed by the precision and efficiency of the technicians in completing these tasks.



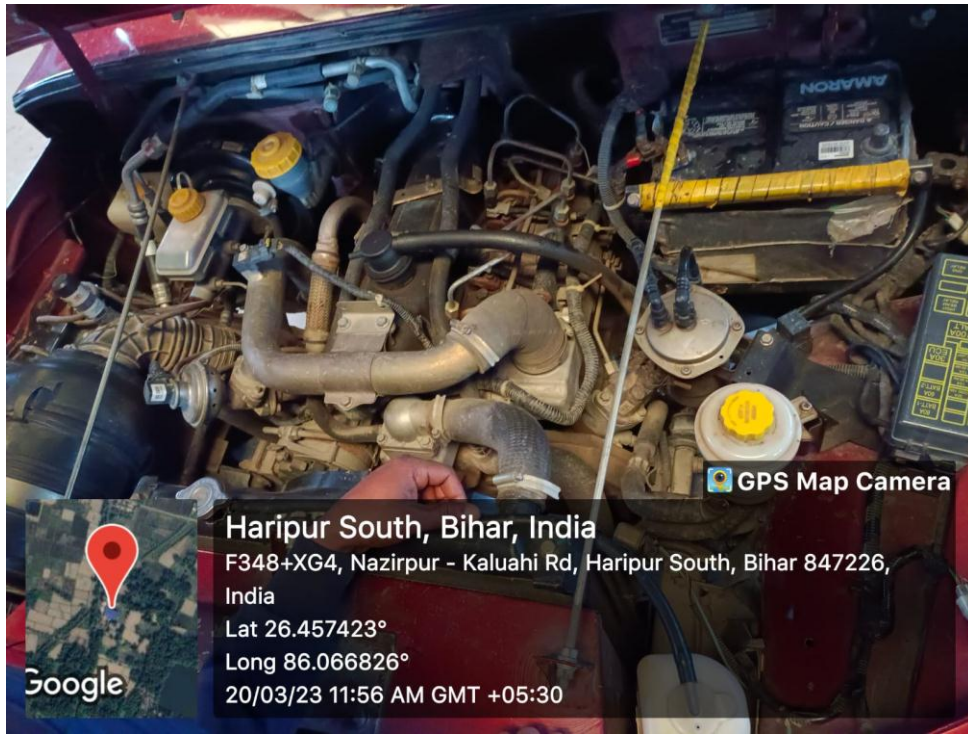
Car Maintenance Section of M/S Bosch Automobile Service Centre

Brake and Suspension Systems Section:

Here, we were shown how technicians carried out inspections and repairs on brake and suspension systems. We saw how they used specialized tools to diagnose and repair brake pads, rotors, and callipers. We also learned about the importance of proper wheel alignment and balancing in ensuring vehicle safety and performance.

Electrical Systems Section:

In this section, we saw how technicians used diagnostic equipment to identify and repair electrical faults. We also observed the use of specialized tools for testing and replacing batteries, alternators, and starter motors. We were impressed by the level of expertise required to work with the complex electrical systems of modern vehicles.



Demonstration of Parts of Car engine

Diagnostics Section:

In this section, we saw how advanced diagnostic tools were used to identify problems in a vehicle's electronic control unit (ECU). The technicians explained how the ECU controls various functions of the vehicle, including engine performance, transmission, and braking. We also learned how the technicians used the data generated by these diagnostic tools to recommend repairs and maintenance tasks to customers.





Faculty identify problems to Students in a vehicle's electronic control unit (ECU)

Conclusion:

Overall, the visit to them M/S Bosch Automobile Service Centre was an enriching experience. We gained valuable insights into the latest technologies used in automobile servicing, and the importance of regular vehicle maintenance. We also learned about the skills and expertise required to work in the automobile servicing industry. The visit provided us with a practical understanding of the concepts we learned in our classroom lectures and helped us appreciate the real-world applications of these concepts."



Briefing about the facilities and technologies available at M/S BOSCH

Ref. No. :- SUM/ME/IV/23/01

Date : 20/3/2023

To
The General Manager
M/S Bosch Pvt. Ltd, Madhubani

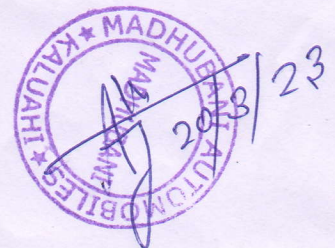
Subject: Certificate for Industrial Visit

Dear Sir,


I am writing this letter on behalf of the Department of **Mechanical Engineering, Sandip University, Madhubani**, is the vibrant and fastest growing University of Bihar and the first Private self-financed University of Bihar situated in Madhubani, North of Bihar region. The Government of Bihar Notified that in exercise of powers under section 6 of Bihar Private University Act 2013 (Bihar Act 20,2013) after assessment and perusal of the proposal of permitted Sandip Foundation, Mumbai-400080 to establish and operate “**Sandip University**” in Sijoul, District at Madhubani and recognised by UGC.

We have undertaken an industrial visit at your company on **20/03/2023**, (As per your convenience) to acquire practical knowledge in the concerned subjects. Our academic curriculum focuses on engaging students in practical experiences to absorb the implementation of what they are taught in the institute. We believe that Bihar Agro-Industry, Pandaul will give our students relevant knowledge during this visit.

Koush
20/03/2023
HOD
Mechanical Engineering Department
Sandip University, Sijoul



List of Students 6th Semester (B.Tech, Mechanical Engineering)

Sr. No	PRN	Name	Signature
1	200201091002	Vikas Kumar	
2	200201091003	Anuj Kumar	Anuj Kumar
3	200201091004	Rajan Kumar Pandey	Rajan Pandey
4	200201091005	Pravin Kumar	Pravin Kumar
5	200201091006	Randheer Kumar	Randheer M
6	200201091007	Ramshish Kumar	Ramshish Kumar
7	200201091008	Aashish Kumar Pandey	Aashish Kumar Pandey
8	200201091010	Shyam Babu	Absent
9	200201091011	Chandan Kumar	Absent
10	200201091012	Anish Kumar Singh	Absent
11	200201091013	Sonu Kumar	Sonu Kumar
12	200201091016	Sonu Kumar	Absent
13	210201092002	Navin Kumar Kushwaha	Navin K. Kushwaha
14	210201092004	Ashish Kumar Jha	Ashish K. Jha
15	210201092005	Shiv Shankar Sah	Shiv Shankar Sah

Present - 11
Absent - 04

4th.
List of Students Semester (B.Tech, Mechanical Engineering)

Sr. No	PRN	Name	Signature
1	210201091001	Rupesh Kr.	Rupesh Kr.
2	210201091003	Vicky Kr.	Vicky Kr.
3	210201091004	Anand Kr. Raushan	Anand Kumar Raushan
4	210201091005	Aditya Kr.	Aditya Kumar.
5	210201091007	Harivansh Kr.	— Absent —
6	210201091011	Satish Yadav	Satish yadav
7	210201091014	Ravi Kr.	Ravi Kumar.
8	210201091015	Rajan Kr. Paswan	— Absent —
9	210201091018	Ishwar Chandra Kr.	— Absent —
10	210201091020	Amarjeet Kr.	— Absent —
11	210201091022	Keshri Nandan	Keshri Nandan.
12	210201091024	Anand Kr.	Anand Kumar
13	210201091025	Omnarayan Sharma	Omnarayan sharma
14	210201091026	Nikesh Kr.	Nikesh Kr.
15	210201091027	Govind Kr.	— Absent —
16	210201091029	Anurag Choudhary	— Absent —
17	210205131068	Komal Kumari	Komal Kumari
18	220201092001	Shailesh Kashyap	— Absent —
19	22SUS0761	Suraj Das	— Absent —

Present — 11

Absent — 08