



Mahatma Gandhi Vidyamandir's
S P H Arts, Science and Commerce College Nampur Tal. Baglan (Nashik)

Department of Physics

Report of Visit to Surabhi Aluminum and Powder Coating Academic Year 2023-2024

The Department of Physics, S P H. Arts, Science and Commerce College, Nampur organized a visit to **Surabhi Aluminum and Powder Coating** on 22. 02. 2024 at 1:30 PM.

For the visit, all the students of Under Graduate (Physics) were informed about the schedule and area of visit one day before. On the next day, visit started sharply at 01.30 PM. Under the guidance of Principal Dr. D F Shirude and Dr. A. S Garde (Head Department of Physics) the students along with teachers Dr. Imran Shaikh, Miss. Shah Quanta Batool, Mr. Shoaib Malik, Mohammed Abdul Haque and Participants reached the Surabhi Industry located at Soygaon, Satana road from the college at about 01.30 PM. where the head of Industry **Mr. Virendra R Deore** welcomed us. He introduced his staff and Worker of the Firm and also gave brief Introduction about the function of Industry to the Students.

Overview of Surabhi Aluminum Powder Coating Shop

Surabhi Aluminum Powder Coating Shop is a well-organized and neatly arranged facility. The shop is equipped with modern equipment and tools required for efficient powder coating processes. The shop's exterior is marked by a prominent signboard bearing the shop's name and logo, creating a professional and inviting ambiance.

Observations and Findings

- 1. Reception and Customer Interaction:** The visit began with a warm welcome from the staff at the reception area. Customers and clients were seen interacting with the knowledgeable staff to discuss their specific requirements. The staff appeared to be well-informed about different powder coating options and provided guidance to customers based on their needs.
- 2. Preparation Area:** A dedicated preparation area was observed where Aluminium products were inspected, cleaned, and prepped for the powder coating process. This included sanding, degreasing, and surface preparation to ensure proper adhesion of the powder coating.
- 3. Powder Coating Booths:** The shop had several enclosed powder coating booths where the actual coating process took place. These booths were equipped with advanced ventilation and filtration systems to ensure a controlled environment, preventing contamination and ensuring the safety of the workers.
- 4. Powder Coating Process:** The staff demonstrated the powder coating process. Firstly, the prepped Aluminium product was hung on racks or hooks inside the booth. Then,

electrostatically charged powder particles were sprayed onto the surface of the product, adhering due to the electrostatic attraction. After coating, the products were moved to curing ovens.

5. **Curing Ovens:** The curing ovens were used to bake the coated Aluminium products. The ovens were set to precise temperature and time parameters to ensure proper curing and bonding of the powder coating material, resulting in a durable and attractive finish.
6. **Quality Control:** The shop emphasized stringent quality control measures. Inspections were conducted after each step of the process to identify any defects or imperfections. This attention to detail ensured that only high-quality finished products were delivered to customers.
7. **Variety of Finishes:** Surabhi Aluminium Powder Coating Shop offers a diverse range of finish options, including matte, glossy, textured, and metallic finishes. Samples of different finishes were displayed to provide customers with a visual representation of the available choices.
8. **Environmental Considerations:** The shop appeared to be conscious of environmental concerns. The powder coating process itself produces significantly less volatile organic compounds (VOCs) compared to traditional painting methods. Additionally, the shop's waste disposal and recycling practices seemed well-managed.

Conclusion: Our visit to Surabhi Aluminium Powder Coating Shop was informative and enlightening. The shop's commitment to quality, attention to detail, and customer satisfaction was evident throughout the visit. The efficient powder coating process, variety of finishes, and dedication to environmental considerations make Surabhi Aluminium a noteworthy choice for Aluminium powder coating services.

Acknowledgment: We would like to express my gratitude to the staff at Surabhi Aluminium Powder Coating Shop for their hospitality and willingness to share insights into their operations.

At last, vote of thanks was delivered by the Mr. Mohamed Abdul Haque. The visit was successful & students got very beneficial knowledge about Placement and Research on Powder Coating which will be helpful for their future.

सुराभि अल्युमिनियम
पाव
प्रोप्रायटर

(Mr. Virendra Deore)
Surabhi Aluminum and Powder Coating



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(Dr. A S Garde)

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Evidences of Field Visit





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Founder



Ref. No.: SPH ASC / 2023-2024 / 88

Date: 18/2/2024

To,

Shri. Virendra R Deore

Surabhi Aluminium Powder Coating

Soygaon Tal. Malegaon Dist. Nashik.

Subject: Regarding educational visit on 20.02.2024.

R/Sir,

With the reference to above mentioned subject, the students of Department of Physics is visit to your **Surabhi Aluminium Powder Coating** firm dated on 20.02.2024 at 11.30 AM for educational purpose. Kindly share your valuable guidance to students about powder coating.

Thanking you,

Regards,

AS Garde

(Dr. A S Garde)

HEAD

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सुराभि अल्युमिनियम

Surabhi
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