



**DEPARTMENT OF MECHANICAL ENGINEERING  
&  
ELECTRICAL ENGINEERING**

**REPORT ON INDUSTRIAL VISIT - 2021**

**DATE – 28/07/2021 (WEDNESDAY)**

**TIME – 10:30 AM Onwards**

**PLACE OF VISIT:**



**SISMACH ELEVATORS PVT. LTD.**

80, Madhav Estate, Behind Hotal Safari S.P. Ring Road, Odhav  
Ahmedabad - 382415, Gujarat, India.

## **Industrial Visit – SISMACH ELEVATORS PVT.LTD.**

As a part of the GTU Curriculum, Mechanical Department and Electrical Department of Khyati School of engineering organized an Industrial Technical Visit for the V<sup>th</sup> Semester (III Year) Mechanical Engineering & Electrical Engineering students at **SISMACH ELEVATORS PVT.LTD.**

Diploma Mechanical Engineering in its III<sup>rd</sup> Year inculcates an important subject of Manufacturing Engineering-III for the students which includes a broad concept of Machining processes used in the Production and Assembly Industries.

Diploma Electrical Engineering in its III<sup>rd</sup> Year inculcates an important subject of Electrical Machine & Utilization of Electrical Energy, Electrical Wiring for the students which includes a broad concept of Electrical Machines, Motors, Elevators, Control Panel.

To understand the technicality and practical approach to the above said subjects and to understand the same in industrial environment was the basic aim of the technical visit.

The visit was organized on **28/07/2021 (Wednesday)** from 10:30 AM onwards.

### • **BACKGROUND OF THE COMPANY**

SISMACH ELEVATORS established in the year 2014 at Ahmedabad (Gujarat, India). They are a renowned manufacturer of a premium quality range of Lift Machine, Elevator Machines, Lift Control Panel, Auto Door Systems, Elevator Door Push Button, etc. They provide these products at reasonable prices and deliver these within the assured time frame. They sell these products under the brand name 'Sismach'. Under the headship of "Mr. Kalpesh Panchal" (Director), SISMACH has achieved a noteworthy position in the market.

### • **DESCRIPTION OF THE VISIT**

The visiting team included 08 students of mechanical department accompanied by faculty of the department Mr. Akash Shukla and 10 students of Electrical Department accompanied by faculty of Mr. Sagar Savaliya. Around 10:15 AM the team entered in the premises of **SISMACH ELEVATORS PVT.LTD.** We were given a warm welcome by **Mr. Dinesh Panchal**, Director of the industry. He gave a welcoming speech to us and introduced SISMACH ELEVATORS to the students. Thereafter he explained regarding the safety measure to be taken in the industry. He also motivated the students to be an Entrepreneur.

Thereafter the students started the tour in the industry. The main part of the industry included the three main sections:

#### ➤ **Machining Section**

In this section the students were shown the different Machine tools Students available in the industry. Mr. Dinesh Panchal, himself explained the configuration, different components and working of the all the Machine tools. He also explained the students regarding which parts of the elevator is required to be machined on that particular Machine tool. The students were also

given a Glimpse of the live machining process on the various machines. The Machine tools available with the industry area as follows:

1. Engine Lathe Machine
2. Dynamic Balancing Machine
3. Shaper Machine
4. Slotting Machine
5. Radial Drilling Machine
6. Hacksaw Cutting Machine
7. Electric Industrial Oven
8. Hydraulic Press



### ➤ **ELECTRICAL SECTION**

In this department the students were made aware with the process of preparing Stator, Rotor of the motor used in the Elevators. Mr. Dinesh Panchal explained the students the winding process of the Stator and Rotor and stampings used in them.

The Students were also explained the entire panel of the Elevators. The Panel used by the industry was opened and detailed explanation was given regarding each and every component of the Panel.



### ➤ ASSEMBLY SECTION

The final Shop of the Industry is the Assembly Section. The Students were explained the entire assembly process of the Elevators with the working of all the parts like braking system, governor system, flywheel and joints used for the same.

The Students were shown the live demonstration of the Elevator with the different Tests that are conducted before installation of the Elevator at the site.

The students were made aware with the safety features that are installed in the Elevators on the live working Elevator by the Director himself.

The Glimpses of the Assembly section are as follows:





### ➤ **Ending The visit**

Around 2 PM the students had finished visiting the entire industry and were thoroughly satisfied with the visit of each and every shop of the industry.

The students were then offered Tea-Coffee as a part of hospitality. Some final words of encouragement were given by Mr. Dinesh Panchal to the students and then the students gathered outside the company premises for the group photograph.

The students of Mechanical Department and Electrical Department fully enjoyed the technical visit and would like to thank Mr. Dinesh and his team for their invaluable time and guidance throughout the visit.

The students of Mechanical Department and Electrical Department would like to thank Dr. Shital Shah, Principal and Mr. Kartik Patel, Trustee and Binita Mam, Director for allowing them to go for an intriguing technical visit.



### **Industrial Visit Coordinator:**

Mr. Akash Shukla  
Mechanical Department,  
Khyati School of Engineering.

Mr. Sagar Savaliya  
Electrical Department  
Khyati School of Engineering.