



## VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE, CHANDKHEDA

### **Brief Report on Industrial Visit to Devarsons Pvt. Ltd.**

|                              |   |   |
|------------------------------|---|---|
| Name of Department/Organizer | : | Chemical Engineering Department                             |
| Date & Time                  | : | 27/07/2019  |
| Venue                        | : | Devarsons Industries Private Limited GIDC –Odhav- Ahmedabad |
| No of Participants           | : | 30 Students and 2 faculties                                 |

#### ● **Objective of the Event**

**B.E. Semester-III** students of **Chemical Engineering Department** of Vishwakarma Government Engineering College, Chandkheda visited “Devarsons Pvt. Ltd.” industries at GIDC - Odhav, Ahmedabad. The visit was organized for one day on **27/07/2019**. **Total 30 Students** took benefit of this industrial visit. These students were accompanied by following faculty members.

- **Prof. Jalpa shah (Assistant Professor)**
- **Prof. Naveen Sharma (Assistant Professor)**

#### ● **Details of the Event**

Devarsons industries was established in 1923 with having small scale production unit .today it is having 4 working plant located at different places in Ahmadabad and a Head office in Mumbai. It is a Private Sector Company incorporated in June 1961.It is classified as Non-Government Company and it is registered at registrar of companies, Ahmadabad. It's authorized share capital of Rs. 40,000,000 and its paid up capital is upto 8,496,000. It is involved in extra territorial organization and bodies directors of Devarsons industries private limited are Sandeep Ravindra Shah, Gaurang Navinchandra shah and samir subhashchandra shah.

Students were divided into a group of 2 batches having 15 students and a prof in each. At a time one batch was taken to have the real time knowledge of industrial processes, Instrument such as boilers, vessels, filter press, membrane press, ETP and cooling plant. They were all guided by well sounded chemical engineers. Mr. Mayur panchal was guiding us throughout the visit about how the plant and the process is going on. He explained how the company follows cleaner production rule. At the same time the other batch was inside the conference room.

They were getting the knowledge about the company i.e what products the company produces ,Its policies, Its history ,reaction, how company believes in cleaner production.

The company produces various dyes and colours .Which are used in cosmetics, food, plastics, petroleum products, medical field etc. The students have seen the preparation of the azo dye in industries. First inside a large vessel all the reagent are mixed. being an azodye , a low temperature is maintained about 0-5 for the reaction to occur. After the reaction occurs, the mixture is properly agitated inside a vessel and it is heated using steam from the boilers. After the mixture is passed through the membrane press through which water gets separated at least 70% pure products is obtained. The products obtained is in the form of lumps and is therefore passed through the grinder and a powder form of the compound is obtained this product is dried and in this way the red-azo dye is produce.

The industry has its Own ETP plant in which all the waste water obtained from the company passed through 3 stages of purification. The COD of impure water is around 3000 ppm is lowered to 200 ppm by purification process. This water is than passed to the ETP plant of government which after further filtration discharged to Sabarmati river. The overall visit was worthy enough for the students. They get some good and practical knowledge about the industrial environment.

- **Event Photographs :**









