



**Sarvajani Education Society  
Sarvajani College of Engineering and Technology (SCET)  
Surat**

**In association with  
Institute's Innovation council - SCET**

**has celebrated**

**National Energy Conservation Day(India)**

**On  
12<sup>th</sup> December 2023**

**By offering**

**Field Visit to students**

**at**

**Plant: Shree Ramkrishna Dimond Pvt.Ltd.  
Location: Varachha-main Road, Surat, Gujarat, India**



**Introduction:**

National Energy Conservation Day is celebrated every year on December 14th in India. This day serves as a reminder of the importance of energy conservation and sustainable practices to mitigate climate change and ensure a secure energy future. It provides an opportunity to raise awareness, promote energy-saving practices, and highlight the significance of renewable energy sources.

**Objective:**

The primary objective of National Energy Conservation Day is to encourage individuals, industries, and governments to adopt energy-efficient technologies and practices. It aims to foster a culture of responsible energy consumption, reduce carbon emissions, and promote sustainable development.

To celebrate the day, the institute has organized a field visit to Shree Ramkrishna Dimond Pvt.Ltd., Surat which is the first diamond facility in Asia to be recognized with the certification - U.S. Green Building Council (USGBC).

Industrial visit was scheduled for third year students of I&C Engineering and other engineering branches. The students have accompanied with Faculty mentors - Dr. Utpal Pandya , Prof. Jayana Rana, Dr. Bhavina Patel. All students with faculties reached at 11:00 am at entrance of Shree Ramkrishna Empire. The main objective of this visit was to see and observe green building automation systems like HVAC and chiller plant, fire safety system and video surveillance system, etc.

Mr. Chirag Ghandhi, guided all students about the role of Automation in green building. He explained the energy-efficient technologies - cooling and ventilation process of HVAC system and also explain SCADA of HVAC system and shown live monitoring of temperature, pressure, air ventilation system and Alarm based fire detection system. Programmable Logic Controller with SCADA is used to control whole plant. The plant is fully automatic and clean. Nowhere human intervention is seen. Students were shown various flow meters, pressure gauges, Temperature sensors and various valves in the field.

The objective of seeing various instrumentation and control techniques used in Building Automation was fulfilled. The mobiles were prohibited inside the plant. So we got the group photo clicked by Mr. Ghandhi as shown below.



**Conclusion:**

National Energy Conservation Day serves as a reminder of the collective responsibility to conserve energy and protect the environment for future generations. It highlights the importance of adopting sustainable practices to ensure a secure and prosperous future. By promoting energy efficiency and renewable energy adoption, we can mitigate climate change, reduce our dependence on fossil fuels, and build a more resilient and sustainable society.