



**SARVAJANIK
UNIVERSITY**

INCLUSIVE | INTEGRATED | INNOVATIVE

creating an enlightened society...



Sarvajani College of Engineering & Technology, Surat

A report

on

Visit to

**SHREE SAYAN VIBHAG SAHKARI
KHAND UDYOG MANDLI LTD. SAYAN, SURAT**
(For students of BTech- II SEM - 4)

on

22-03-2024

In Association with IChE Student Chapter, SCET



Shree Dhanshukhlal Thakordas
Department of Chemical Engineering
Sarvajani College of Engineering & Technology,
Dr. R. K. Desai Marg, Athwalines, Surat- 395001

➤ **Objectives of the visit:** To make the students understand the various aspects of Unit Process, Unit Operation and production of Sugar.

Resource Person: -----.

Venue: SHREE SAYAN VIBHAG SAHKARI
KHAND UDYOG MANDLI LTD. SAYAN, SURAT

Date and Time: 22nd March'2024 at 9:00 AM to 1:00 PM

Participants: BE II SEM (4) Students

Faculty Accompanied Prof. Srujal Rana, Prof. Anand Upadhyay & Dr.

during the Visit: Vaishali Umrigar

Summary:

This society is registered under the Gujarat Cooperative Societies Act 1961, on 20th November 1972 and its Registration Number is S - 27. The Number of Share Holders is 11,406.

This factory is situated at village: Sayan, Tal. Olpad, Dist. Surat. The area of operation covers 207 villages of Olpad, Choryasi, Kamrej, Mandavi & Mangrol talukas. The total Capital Investment of the factory is Rs. 61 Crores and the Annual Turn-over is Rs. 150 Crores. The area has rich black cotton soil and cotton was the most established stable crop of the area, gradually cotton disappeared and Sugarcane crop came into existence.

The Central Government has approved a license No. CIL - 465 in 1976 for establishment of a 1,250 TCD Sugar Plant. Initially the plant and machinery had been supplied by the Indian Sugar & General Engineering Corporation, Yamunagar (Haryana). The project was carried out in 1978-79 with a crushing figure of 1,28,397 tones cane and a recovery of 9.46%.

In 1984 the plant was expanded 1,250 TCD to 2,000 TCD. Then in 1987 it was expanded up to 3,500 TCD. Lastly it was expanded in 1992 with a crushing capacity of 5,000 TCD. We manufacture Sugar through Double Sulphitation Process and to reach the International standard of Sugar we installed Syrup Clarification System in our factory.

After reaching to the industry at around 10:00 AM, Students entered with security check having no digital gadgets. The Technical, technicians and Safety heads were available at the gate for the guidelines to the students about the company.

Security person explained about the regulations of the company.

Technical persons drove the students in 2 groups along with faculty members for the visit of the sugar plants from the raw sugarcane.

They started with collection of sugarcane, shredding and cutting of sugarcane into small pieces. Further extraction of juice and concentration of juice with evaporation operation were explained which was handled at large scale.

He also showed daily production and demand of sugar in the market. The price of sugar is handled by government of India to monetize the sugar cost for the common people. Also the technician explained about the safety aspects at the company during visit. They have sorted all the queries raised by the students.

The key personnel came along with students to show crystallization, whitening processes for sugar and at the end the packaging and storage of sugars in 4-5 storage domes. At around 12:00 noon, they diverted us to exit site of the plant.

Around 12:00 PM, we have taken few photographs, Prof. Srujal Rana delivered thanks to the company personnel for providing very good exposure to our upcoming engineering students.

GLIMPSES OF THE VISIT:



Acknowledgements

The Chemical Engineering Department, **SCET** would like to acknowledge, the following for making this visit possible.

- **SHREE SAYAN VIBHAG SAHKARI KHAND UDYOG MANDLI LTD. SAYAN, SURAT**
- **Managing trustees and office bearers of the Sarvajanik College of Engineering and Technology**
- Prof. (Dr.) Hiren Patel, **Principal, SCET**
- Prof. Srujal Rana, **Head, Chemical Engineering Department**
- **IChE Student Chapter, SCET**

-Compiled and Coordinated by: Prof.Srujal Rana, Prof.Anand Upadhyay & Dr. Vaishali Umrigar, Asst Professors, Chemical Engineering Department