

TE Code : **EN6315**



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AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S

SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500

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○ Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
○ Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

Date- 08/10/2024

REPORT

Industrial Visit at Dalmia Bharat Sugar, Asurle-Porle, Panhala

Class	:	S.Y. T.Y. & B. Tech Mechanical Engineering.
Industry Visited	:	Dalmia Bharat Sugar.
Day & Date	:	Tuesday, 8 th October 2024.
Time	:	1.30 pm to 4.30 pm.
Address	:	Asurle - Porle, Panhala, District: Kolhapur Maharashtra – 416229
No. of Students	:	Total 95 students attended the visit
Faculty Members	:	Prof. Sardar B. Deshmukh (Visit Coordinator) Prof. Praveen S. Atigre (Faculty Coordinator) Mr. Mahesh D. Ayarekar (Lab Assistant)

Introduction :

An Industrial visit at Dalmia Bharat Sugar (Asurle - Porle, Panhala, District: Kolhapur Maharashtra – 416229) was organized by Department of Mechanical Engineering on 8th October 2024. The industrial visit was witnessed by total 95 students of second year, third year and final year mechanical engineering students, who were accompanied by the faculty members namely Prof. Sardar B. Deshmukh, Prof. Praveen S. Atigre & Mr. Mahesh D. Ayarekar.

Aim of the Visit:

An industrial visit is considered as one of the tactical methods of bridging the gap between theoretical and practical knowledge. The main aim of industrial visit is to provide an exposure to the students about practical working environment. Industrial visit also provide students a good opportunity to gain full awareness about industrial practices and new technologies. Through this industrial visit, the efforts are taken by the department to provide an industrial exposure to students to clear the ideas / concepts of various thermodynamic processes (related to steam generation), various accessories & mountings of the boiler, and cogeneration plant along with its components which they have learned in theory.



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About the Company:

Dalmia Bharat Sugar & Industries Limited acquired this sugar plant in September 2012, and this plant has its own history of 27 years prior to the acquisition. However, after the takeover by Dalmia Bharat Group, the plant achieved the then all-time, all-India high sugar recovery of 13.69% in the crushing season of 2012-2013. In 2013, the very next year of acquisition, this plant's crushing capacity was expanded from 2500 TCD to 4800 TCD, and a new co-generation plant of 14.5 MW was commissioned. The current cane crushing capacity is 9000 TCD. The co-generation capacity is 26 MW. The distillery capacity is 75 KLPD. The plant has implemented new working techniques like TPM, TQM, OHSAS, ISO and has an annual energy auditing. Combining the efforts of manpower and machinery, the plant has now become extremely efficient and highly productive.

Boiler Section & Cogeneration Plant

Our visit to Dalmia Bharat Sugar factory with a cogeneration plant offered the students insight into the integrated processes of sugar production and renewable energy generation. This visit covered the sugar manufacturing steps, from cane crushing to crystallization, while highlighting how the byproduct, bagasse, is used as fuel for energy. During the visit students cleared the ideas / concepts of various thermodynamic processes (related to steam generation). In Boiler section the students observed various accessories & mountings of the boiler. In the cogeneration plant, students saw how steam drives the turbines to produce electricity. This efficient process not only powers the factory but also supplies surplus energy to the grid, demonstrating sustainability in the sugar industry.





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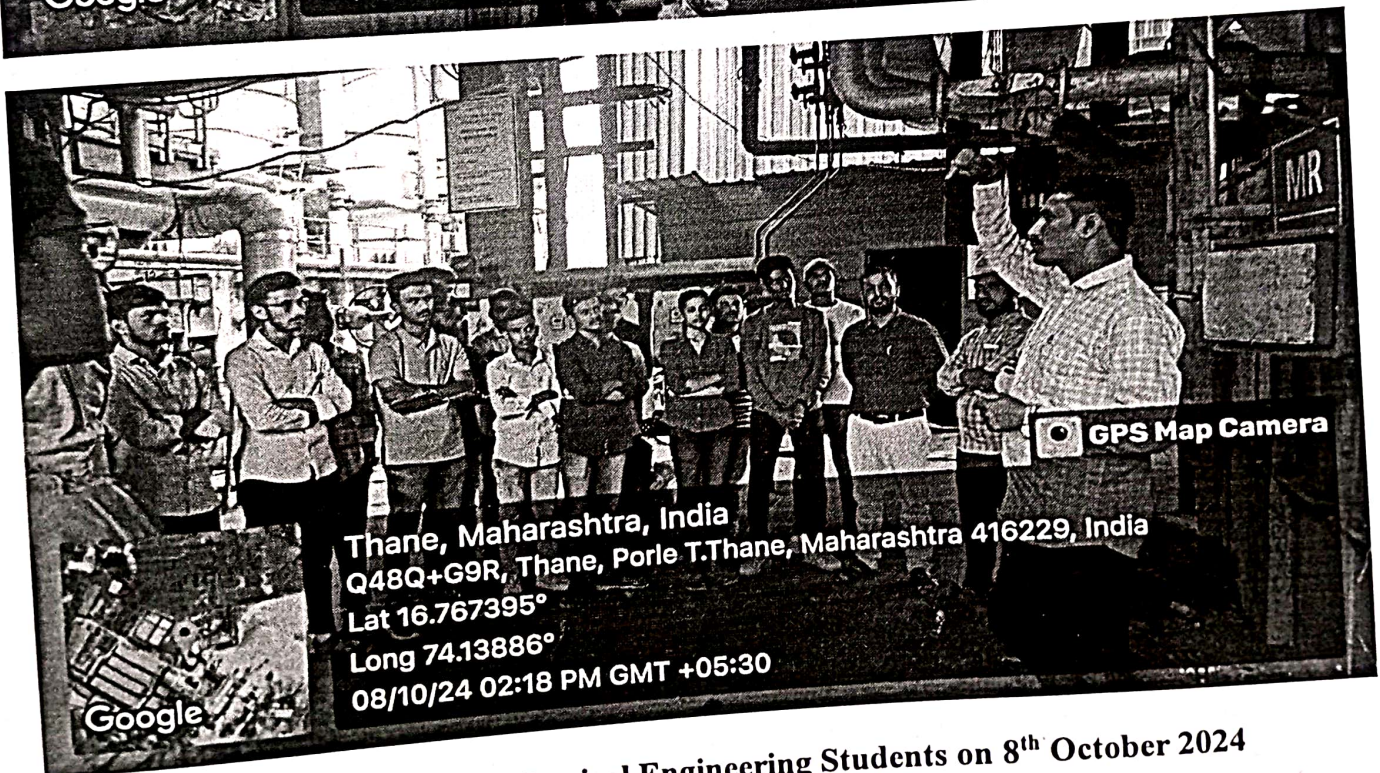
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Visit Photographs



Industrial Visit for Mechanical Engineering Students on 8th October 2024
(01.30 pm to 4.30 pm) in Association with Dalmia Bharat Sugar



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