



REPORT OF INDUSTRIAL VISIT AT WALWAN SOLAR TN LIMITED

Time: 9.30 A.M TO 4.30 P.M

Venue: Musiri TTPet 100MW Site, Krishnapuram Village, Valaiyeduppu Post, Musiri Taluk, Trichy District - Tamilnadu - 621205,

Faculty Members: Mr. R. Rajeshkumar, Mr. N. Rajesh, Mrs. V. Suganya, Mr. R.Swaminadhan.

Attended Students: II and III year Electrical and Electronics Engineering

About the industrial visit:

Industrial visit was arranged at WALWAN SOLAR TN LIMITED in Musiri Taulk Trichy district on 7.08.2023 and 08.08.2023. The main objective of the visit was to enhance the students' understanding of power generation through solar energy and to gain practical insights into the operation of a solar plant. We faculty along with 115 students for II Year and 95 students for III Year started from the college for the visit at 9.00 A.M and reached the venue.

About the Company:

Walwan Solar TN Limited is a prominent solar power generation company situated in the heart of Musiri. The company specializes in harnessing solar energy through photovoltaic panels to generate clean and sustainable electricity. The solar plant is equipped with state-of-the-art technology and infrastructure to maximize solar energy capture and conversion.

Description

During the visit our students were guided by the plant's management team. A brief introduction to the company's history, mission, and contributions to renewable energy was provided. The students were taken on a guided tour of the solar plant. They were shown the layout of the photovoltaic panels, tracking systems, and other critical components of the plant. The tour included an explanation of solar panel technology, including the types of photovoltaic cells used, their efficiency, and the principles of solar energy conversion into electricity. Students were introduced to the advanced tracking systems used to optimize the solar panel's orientation towards the sun throughout the day, ensuring maximum energy capture. The visit also covered the energy storage solutions implemented by the plant, such as battery storage systems. The students gained insights into how the stored energy is distributed to the grid. A demonstration of maintenance practices and real-time monitoring of solar panel performance was given. Students learned about regular inspections, cleaning routines, and data analysis for efficiency improvement. The visit emphasized the positive environmental impact of solar power, such as reduction in carbon emissions and dependence on non-renewable resources. A question-and-answer session with the plant's engineers allowed students to clarify doubts and delve deeper into technical aspects of solar power generation.

Student feedback:

It was our first industrial visit and experience was awesome. We got to see some valuable information in Walwan Solar TN Limited. We really enjoyed our first visit. This visit was very useful for my future project works and higher studies.

Gallery

