



INDUSTRIAL VISIT REPORT

NAME OF THE INDUSTRY: SPRERI

DATE: 16th, FEBRUARY, 2018

VENUE: Post Box No: 2, Vallabh Vidhyanagar, Gujarat, India-388 120, Gujarat, India.

NO. OF STUDENTS PARTICIPATED: 43 (First Year EC Students)

FACULTY MEMBERS: 02

Prof. Rohit Parmar

Prof. Kavindra Jain

Sardar Patel Renewable Energy Research Institute (SPRERI) was established in January 1979 as a result of the initiative taken by a group of foresighted persons led by Late Dr. H.M. Patel and Late Shri Nanubhai Amin.

SPRERI is a non-profit autonomous organization registered as a Society under the Societies Registration Act 21 of 1860 and also as a Public Trust under the Bombay Public Trust Act 1950. It has been approved as a Research Association for the purpose of clause (ii) of subsection (1) of Section 35 of the Income Tax Act 1961 and is recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Science & Technology, Govt. of India. It is recognized by S.P. University, Vallabh Vidyanagar, Junagadh Agricultural University, Junagadh, Nirma University as a Centre for M.Tech and Ph.D. Research.

SPRERI, a leading organization for research and development of renewable energy (RE) technologies, focuses on sustainable biomass conversion and solar energy based solutions, which are technically efficient, economically viable, environment-friendly and which meet the needs of society.

The industrial visit was carried out at SPRERI Vallabh Vidyanagar on – 16th February 2018. The main objective of the visit was to make students aware of the renewable energy resources, its application and the role of engineers in developing these sources of energy.

We left for the visit at 01.00 am and took half an hour to reach the research institute located at Vallabh Vidyanagar.

As soon as we reached the research institute we were guided by our professors in charge Prof. Rohit Parmar, Prof. Kavindra Jain to the registration desk. After that, we went to the open-air theatre where we were shown a small movie clip on the evolution of the idea for the development of the renewable energy resources. It was an informative clip which showed a brief history of the development of renewable energy resource.

After the end of the clip, we were introduced to the employee of the research institute who was our mentor for the visit. He started with an orientation giving us the idea of how the institute works.

First of all, we saw different solar equipment types and strength which are used to collect sunlight and store heat energy which can be used for different purposes such as solar cookers, solar water heaters. Then we went ahead and saw the main unit of the SPRERI, where all the processes are done. As we entered the man told us about the Biomass Cook Stove and gave us information about the things used in the biomass cook stove and also told us that why a particular thing is used and not the other ones. Then we also saw a machine used to cut wood which is used as a feedstock for gasifiers.

Then we also saw different machines such as high-efficiency biomass combustor and hot air generator, we saw a machine for gaining biogas from effluents and many more and we learned about their role and function in the process. Then we went ahead and went to the department from which the biogas is obtained from the fruits and vegetable residues. There we were told about the whole process and what are the functions of each and every machine equipment and how we get the biogas. We saw a stall which had all the items which were based on the biogas and the guy standing there explained us each and every item he had in the stall.

At last, there was organized some snacks for us and we all did the snacks and returned to the college. We really enjoyed and got to learn many things from the industrial visit to SPRERI.

This visit was organized in association with GCET IEEE Student branch.

PHOTOGRAPHS





Department of Electronics & Communication Engineering
G. H. PATEL COLLEGE OF ENGINEERING & TECHNOLOGY, VALLABH VIDYANAGAR
(A Charutar Vidya Mandal Institution)