

Report of Solar Visit

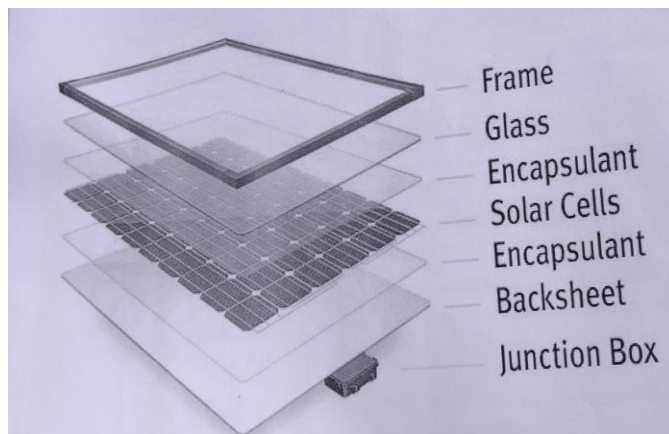
On 13th February 2019, our team from Electrical engineering shift-2, second year visited GADAT VIBHAG VIVIDH KARYAKARI SAHAKARI KHEDUT MANDAL LTD. Our team included 74 students from our class and 2 faculty members for our guidance (Prof. Krishna Vakharia, Prof. Hemin Motiwala).



We went there in morning and stayed there till afternoon. At first basic introduction of solar cell, solar panels and GKM co-operation Gadat was given by the establisher of that solar industry.

There our visit was divided in 4 sessions-

(1) Video session to understand the concept better



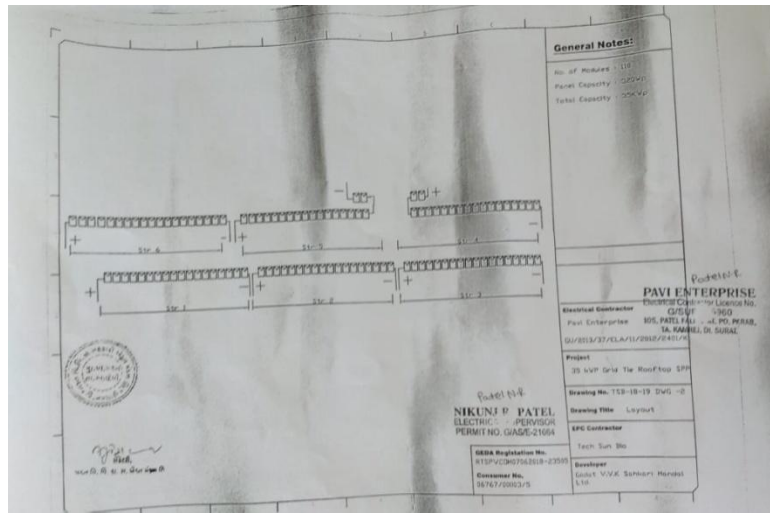
During video session, they had shown us some video clips in which components of solar panel and solar cell working is explained.

A solar cell, or photovoltaic cell, is an electrical device that converts the energy of light directly into electricity by the photovoltaic effect, which is a physical and chemical phenomenon.

Individual solar cell devices can be combined to form modules, otherwise known as solar panels. In basic terms a single junction silicon solar cell can produce a maximum open-circuit voltage of approximately 0.5 to 0.6 volts. Solar cells are

described as being photovoltaic, irrespective of whether the source is sunlight or an artificial light.

(2) Introduction to solar panels arrangement



In this session, sir explained about the solar panels arrangement on the roof of the industry and also shown us a diagrammatic representation of the arrangement of the solar panels.

(3) Shown the original solar panels



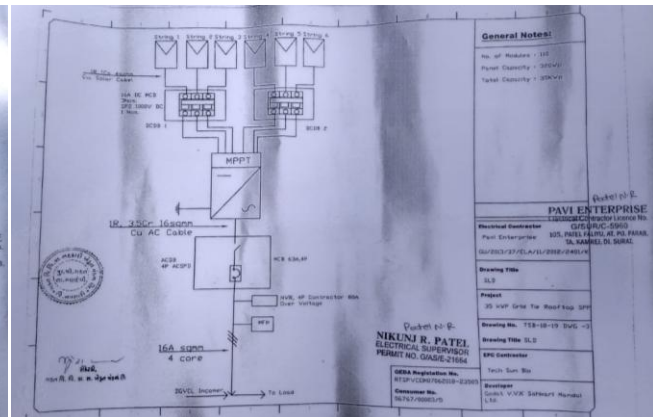
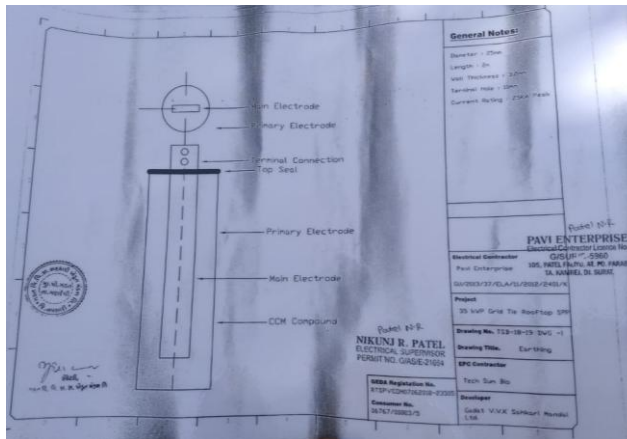
We all were divided in small groups and we all went to the roof of the industry group wise. We had shown the original solar panels on the roof.

(4) Working of the solar energy setup with calculations

Here, we went to a room. The room consists of a solar energy setup. Sir explained us about how the energy is utilized by using this system. We had also shown the diagrams of the system for better understanding.



This session was concluded by some calculations that how much solar energy is generated by the panels in a day, in a month and in a year.



We had successfully completed our solar visit to GKM co-operation Gadat. It was our great opportunity that we got to visit there. It is a very wonderful experience for all of us.

Thank You