

**M.S.P. Arts, Science and K.P.T. Commerce college Manora**

**Department of Physics**

**Start From 2017-18**

**Title of Extension activity: Awareness about Renewable source Solar and LED**

**Vision**

Today we are depends on nonrenewable sources (fossil fuels, oils, electricity, etc.), which is hazardous for humans or cost effective. Our aim is to accelerate the adoption of solar technology across the world to conserve our environment and provide an environmentally friendly, sustainable and conflict-free power supply.

**Mission**

Rural people don't know the all advantages of Solar energy systems. Solar has suffered and is still suffering from many misconceived notions, and we understand that the process of going solar might seem overwhelming. Education and empowerment are at the core of our approach. Within our process, we meet with our clients to help them define their goals, evaluate their options, and make informed and confident decisions. We take care of the entire process, from design to engineering, permitting, installation and monitoring, so that going solar is a seamless and hassle-free process.

**AIMS AND OBJECTIVES**

The project aims to explore the potential of solar PV system in different regions in terms of energy saving and sustainability.

The objectives of this paper are:

- Build up a life cycle inventory of Crystalline Silicon PV system
- Investigate total energy consumption and carbon footprint of the PV system along its life cycle

- Estimate energy production and energy payback time of the PV system in four regions.

### **Planing of Work**

Solar energy is radiant light and heat from the sun that is harnessed using a range of ever-evolving technologies such as solar heating, photovoltaic, solar thermal energy, solar architecture, molten salt power plants and artificial photosynthesis. The large magnitude of solar energy available makes it a highly appealing source of electricity.

Throughout the developing world, millions of people rely on inefficient and hazardous kerosene lamps and candles to light their homes, which produce harmful indoor air pollutants. The majority of people still cook and heat water using harmful and inefficient open fires. Environmentally unfriendly batteries are used in radios and people often have to travel for miles to charge their mobile phone.

Extension activity will be implemented at Manora itself and nearby places. 40 Students will be chosen and assigned to them the task to be completed. They will generate awareness regarding solar and LED. Thus villagers will come to know the importance of their renewable sources. Students even will approach the villagers door to door for their convenience.

### **Expected outcomes**

- Ø Because of this extension activity villagers will be able to save the electricity and they will be benefitted. It is a unique effort of its own.
- Ø The Extension activity will take place six monthly.
- Ø This extension activity may result into effective sharing of knowledge, practices and technologies in support of the implementation and Conservation of nature.
- Ø This activity will be the best platform for students to represent their ideas with their junior students and get motivation “SAVE ENERGY” and use natural sources.





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