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7.1.3 ALTERNATE SOURCES OF ENERGY & ENERGY CONSERVATION DEVICES

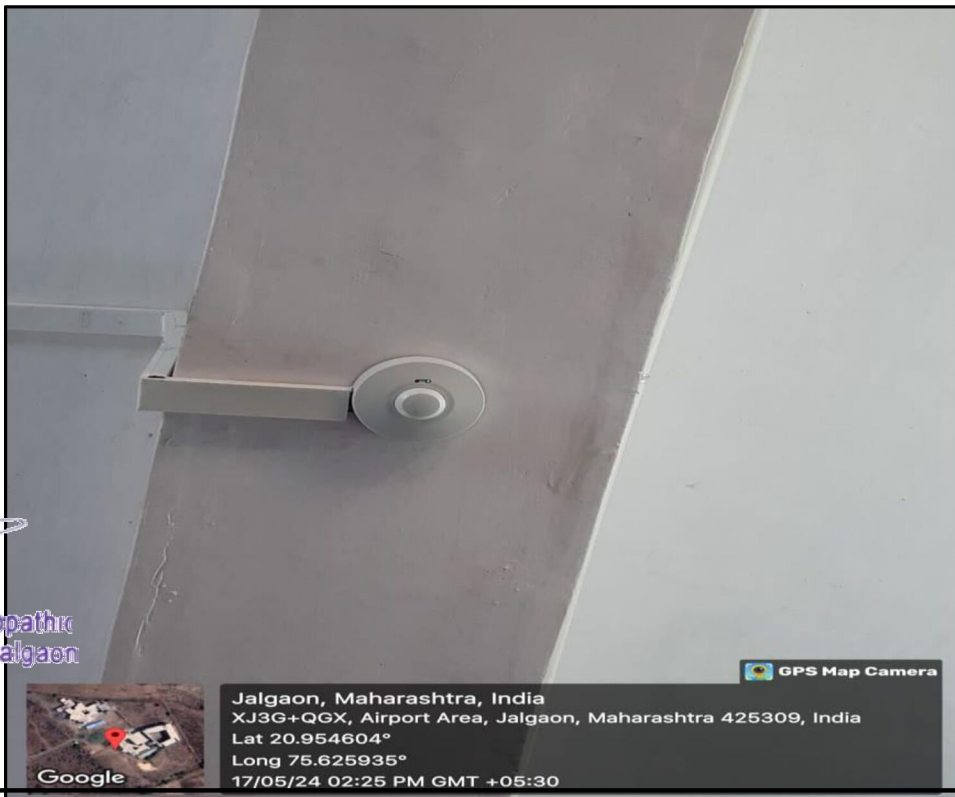
➤ SENSOR BASED ENERGY CONSERVATION: -

Energy Conservation is the effort to reduce wasteful energy consumption by using fewer energy services. This can be done by using energy more effectively or changing one's behavior to use less service.

Energy consumption can be achieved through efficient every use, which has some advantages including reduction in green house gas emissions and a smaller carbon footprint, as well as cost, water and energy savings.

Sensor based technology for energy consumption in which the sensor is developed to sense and monitor the environmental conditions and take decision based on the inputs from the various sensor's. A typical ARM chip can contain several peripheral controllers, a digital signal processor, and some amount on chip memory, along with an ARM Core. Second both ARM, ISA and pipeline design are aimed at minimizing energy consumption. A critical requirement in mobile embedded systems. Third the ARM architecture in Highly modular. The only mandatory component of an ARM Processor is the integer pipeline.

The sensor based energy conservation is devised to consumed less energy to campus.



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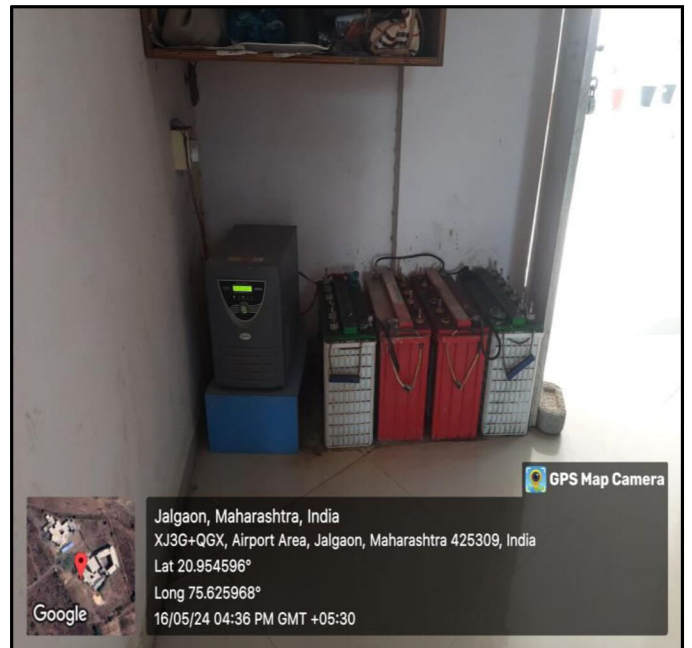
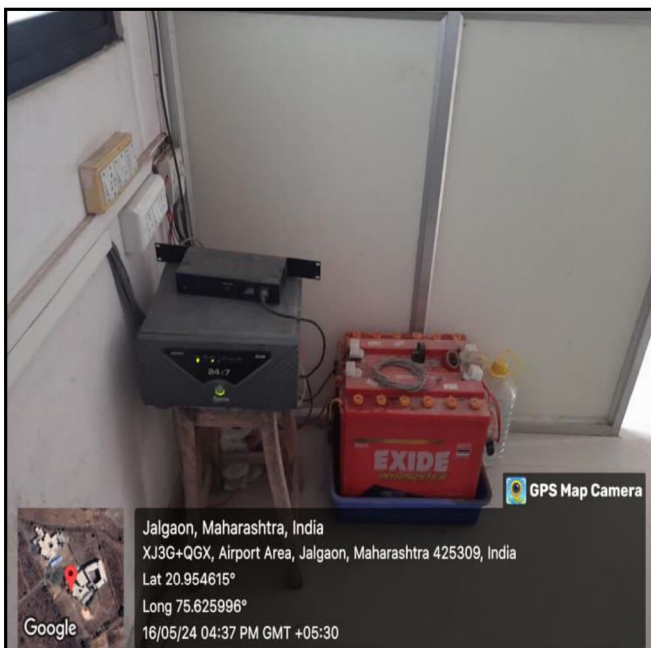
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INVERTER

As one of the core components of the photovoltaic system, the Inverter not only has the function of DC-AC conversion, but also maximizes the performance of Solar Cells and system for protection, which directly affects the power generation.

➤ **BASIC WORKING PRINCIPLE OF INVERTER: -**

An Inverter is a device that converts DC Power into AC Power, the working principles of Inverter is to use the switching characteristics of semiconductor device to control the power supply voltage and current through rapid switching, thereby connecting DC Power into alternating current corresponding frequency and voltage specifically, when the input DC power passes through the semiconductor device in the Inverter. It is divided into a series of pulse signal which are filtered and adjusted to produce AC Power are filtered and adjusted to produce AC power with the same frequency amplitude and wave as the desired output.



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Generator



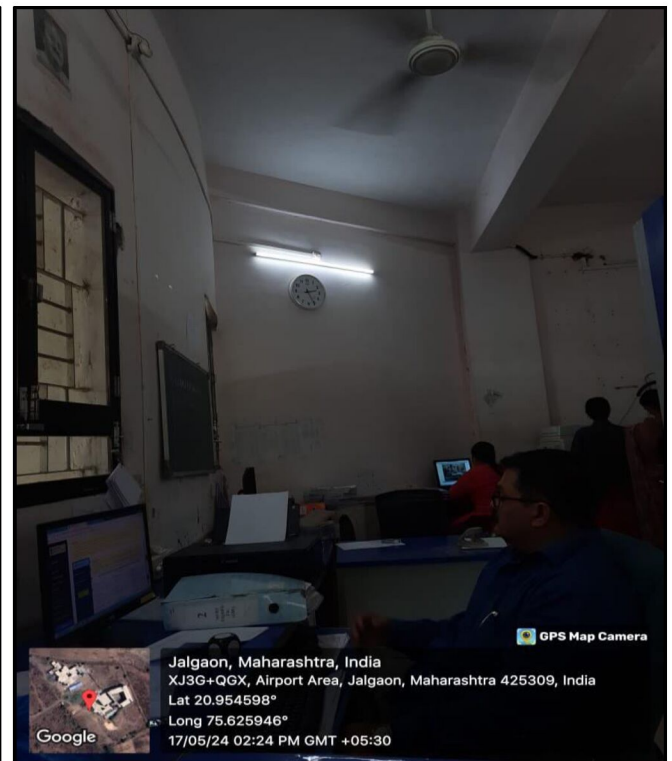
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➤ USES OF LED BULB / POWER EFFICIENT EQUIPMENT

The Light Emitting Diode (LED) is today's most energy efficient & rapidly developing lighting technology.

Quality LED light bulb's last longer, are more durable, and offer comparable or better light quality than other bulbs of lighting. LED is based on the highly energy efficient lighting technology & has the potential to fundamental change the future of lighting in India and also LED emit light in a specific direction reducing the need for reflection & defuses that can trap light. This features makes LED's more efficient for many uses, such as recessed downlight & task lighting.

Also LED emit very little heat In-comparison to other Bulbs and working based on the electroluminescence. When an electric current is applied to the Semiconductor material within an LED, excited the electron causing them to emit photons of light.



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ENERGY CONSERVATION

➤ USING ELECTRIC BIKE: -

Fuel is one of the most widely used sources of energy in the world today. Most fuel are natural substances such as Petrol fuel, Diesel & Natural gas, which are either extracted straight from the earth or produced by refining substances such as petroleum. The energy produced by burning fuel has many applications' such as Powering Vehicles. And these sources of energy are fuel are very little in amount are available in nature, those reason we are think of alternative source of energy, that is using Electric Bike and additionally burning fuel's results in harmful environment pollution. For these reasons many alternative sources of energy are currently being explored. As replacement for Petrol.

➤ ADVANTAGES OF ELECTRIC BIKE: -

It is a hard truth that one of the Indian Cities has been ranked as the one of the most air polluted Cities in the world. As a result, Electric Vehicles have witnessed a rise in popularity in India. Also the emissions of pollutions from air advantages also in

➤ ENVIRONMENTAL FRIENDLY: -

One at the core selling points of Electric Bikes is that they are environmental friendly, they neither burn fossil fuels or non-produce smoke.

➤ LOW NOISE: -

Most Vehicles produced a lot of noise while being driven.



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ENERGY CONSERVATION: -

➤ **WE ARE ARRANGED ONE DAY FOR CAR SHARING DAY**

Petroleum is used in manufacturing a vast variety of materials essential for modern life and it is estimated that the world consumes about 100 million Barrels (16 million cubic meters) each day and this is very huge consumption by Countries.

Petroleum exploitation can be damaging to the environment and Human Health. Extraction, Refining and burning of Petroleum fuel all release large quantities of green house gases. So Petroleum is one of the major contributors to climate change. Other negative environmental effect includes direct release, such as Oil Spills and as well as air and water pollution at almost all stages of use. These environmental effect have direct and indirect Health Consequence for Humans.

➤ **THE IMPACT OF CAR SHARING: - SOCIAL & ENVIRONMENTAL BENEFITS.**

Car Sharing this innovative concept not only transforms how we think about transportation but also brings along a Host of social & environmental benefits that are for good to ignore.

In the Hustle & Bustle of our daily lives, the way we get around play a crucial role. Traditional car ownerships has a long been the norm. But their rising star in town that changing the game, that is Car Sharing Benefits is cost effective alternative to owning a car. This approach allows individuals to share vehicles when needed, promoting a sense of community & collaboration consumption. Also social & environmental impact. Also the reduced traffic consumption. As more people turn to Car sharing the number of vehicles on the road decreases. This impact on the creating smoother & more efficient transportation networks. Each car sharing vehicles can have replaced approximately 9-13 private vehicles & alternately also save their fuel. That is social benefit of community connection & cost saving combined with the environmental advantages to reduced emissions resource conservation.

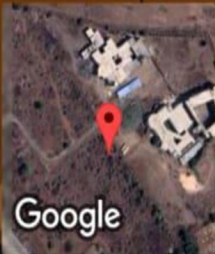



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GPS Map Camera

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