Shaneshwar Shikshan Prasarak Mandal's
V P COLLEGE OF PHARMACY, MADKHOL
Tal. Sawantwadi, Dist. Sindhudurg 416510 (Maharashtra)
DTE Code-3490 | D. Pharmacy & B. Pharmacy | MSBTE Code-2030
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Ref. No. VPCP/ Date : / /20

7.1.2.1: The Institution has facilities and initiatives for Alternate sources of energy and energy conservation measures

Office Contact No. 9763824245 / 8806636957
Email Id- vpcpm2017@gmail.com College Website : www.vpcpm.org

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SOLAR ENERGY

A solar panel is a device that converts sunlight into electricity by using photovoltaic (PV) cells. PV cells are made of materials that produce excited electrons when exposed to light. The electrons flow through a circuit and produce direct current (DC) electricity, which can be used to power various devices or be stored in batteries. Solar panels are also known as solar cell panels, solar electric panels, or PV modules. In order to minimize the use of traditional source of energy and to become an environmentally friendly academic institute, the college has installed solar lights in its premises.

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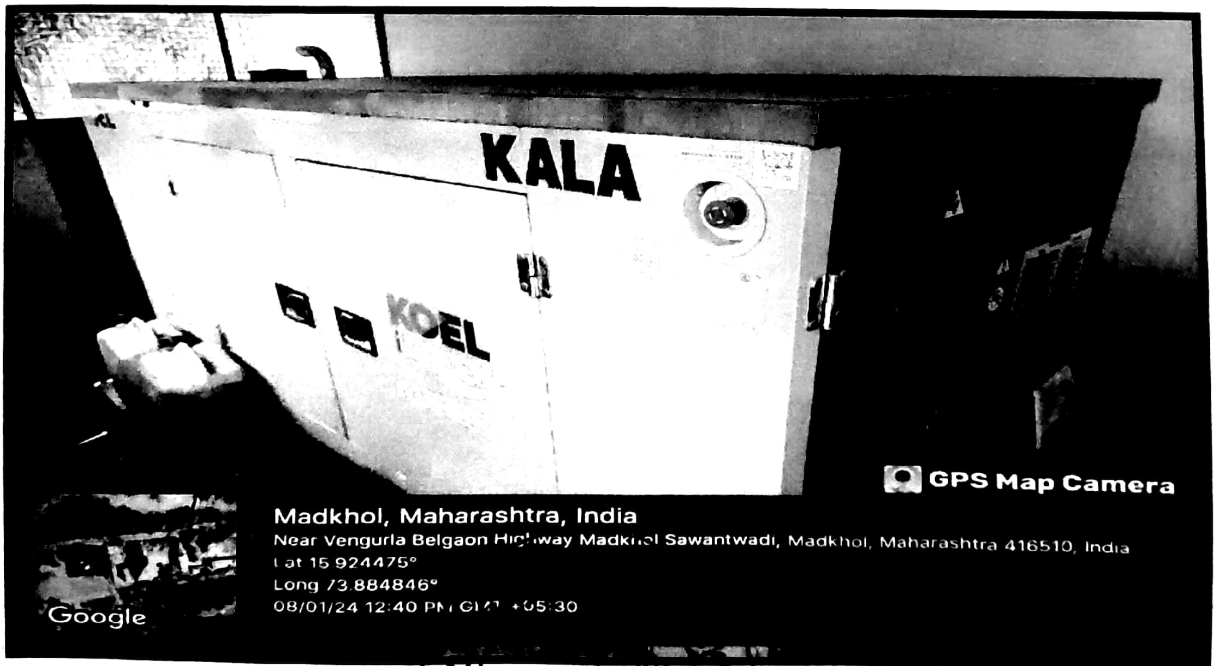
Power Generator

In electricity generation, a generator is a device that converts motion-based power (potential and kinetic energy) or fuel-based power (chemical energy) into electric power for use in an external circuit. Sources of mechanical energy include steam turbines, gas turbines, water turbines, internal combustion engines, wind turbines and even hand cranks. The first electromagnetic generator, the Faraday disk, was invented in 1831 by British scientist Michael Faraday. Generators provide nearly all the power for electrical grids.

College premise is power back-up with diesel operated Power Generator with capacity of 30KVA. (Kirloskar Engine and Green Alternator with Koel AMF panel)



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Use of energy efficient LED bulbs

The use of LED bulbs and power-efficient equipment revolutionizes energy consumption patterns by significantly reducing electricity usage. LED bulbs consume up to 80% less energy than traditional incandescent bulbs while lasting longer, thus cutting maintenance costs. Power efficient appliances and devices leverage advanced technology to optimize energy utilization without sacrificing performance. By promoting the adoption of LED bulbs and energy-efficient equipment, individuals, businesses, and governments mitigate carbon footprints, lower electricity bills, and alleviate strain on power grids. Embracing these innovations not only conserves resources but also fosters sustainability, paving the way for a greener, more energy-conscious future.

LED bulbs are used in various places in the college for achieving proper lightings. The CFL fittings with higher rating wattage are replaced with LED fittings having same luminous level with lower wattage.

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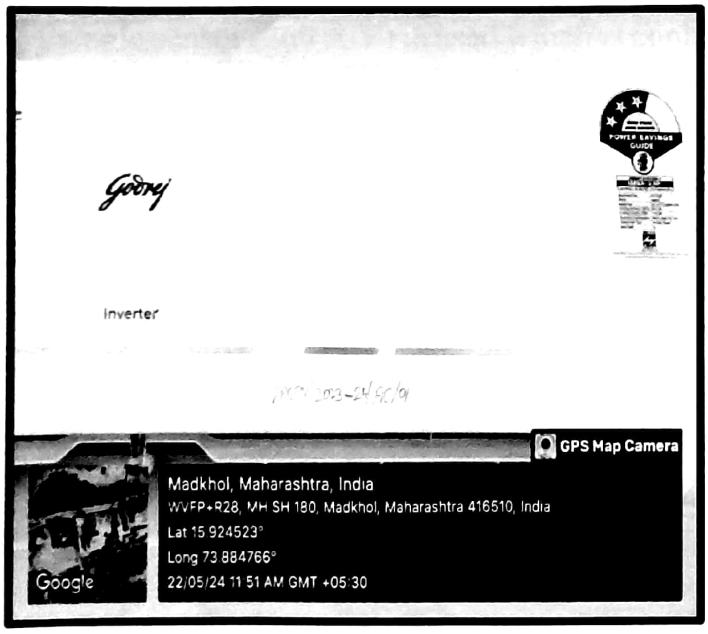
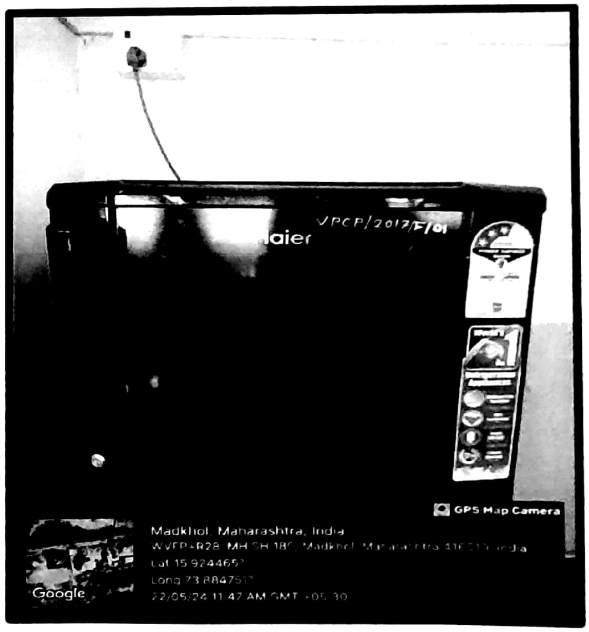
Use of energy efficient equipment

The Bureau of Energy Efficiency (BEE) has developed a star rating system for electrical appliances that will help you recognise an energy-efficient appliance. The appliance efficiency ratings are labelled in a range of 1 to 5 stars. An energy star refers to the appliance's energy efficiency, with 1 star being the least efficient and 5 stars being the most efficient. Energy star certified products (minimum 3 star) are installed.





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Sensor Based Energy Conservation

Automatic motion sensor-controlled lights are fitted in college premise to minimize consumption of energy. Sensor based energy conversion system include smart control of electric device with transformation of the manual system into smart system with incorporation of embedded system. It results in sustainable energy conversion if properly used. Sophisticated sensors and timers are used in the college to save electrical energy and reduce the manual efforts single sensor is placed along with the timer in the college campus lights/ bulbs are connected to this sensor which conserves electricity and reduce manpower thereby save money expenditure. It can also overcome a manual error in switching on and of light which enhance the safety. A single sensor (260 A V) is used which is connected with 3 bulbs in front of the campus also on the right and left side of the campus. It is simple and powerful concept which uses transistor as a switch so switch on and off the light system automatically. The LDR (Light Dependent Resistor) and transistor is used in this sensor. It gives high resistance in the dark or night and low resistance in the day or light

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