



The Autonomous & Heritage Institution
KANYA MAHA VIDYALAYA, JALANDHAR

College with Potential for Excellence

Re-Accredited A (score 3.56) by UGC-NAAC

Star Status by DBT

4 Stars to KMV IIC by MIC, Government of India

CURIE & FIST Grant (Phase II) Awarded by DST



Facilities for Alternate Sources of Energy and Energy Conservation Measures

CRITERIA 7.1.2. The Institution has facilities for alternate sources of energy and energy conservation measures

Introduction

KMV has implemented numerous initiatives aimed at fostering ecologically sustainable growth and raising awareness among students, staff, and the general public about the challenges of energy security and the imperative for energy conservation. In pursuit of sustainable development and as a means to fulfill the institution's energy requirements, we have implemented a range of measures. These include the generation of solar power, deployment of sensor-based energy conservation devices, and the adoption of LED bulbs and power-efficient equipment.

➤ 7.1.2.1 Solar energy

From the standpoint of energy security, solar power stands out as the most secure source due to its abundant availability. Over the past several years, decentralized and distributed applications harnessing solar energy have been implemented on the campus. This initiative has significantly contributed to fulfilling the institution's energy requirements in an environmentally friendly manner, as illustrated in Figure-1.

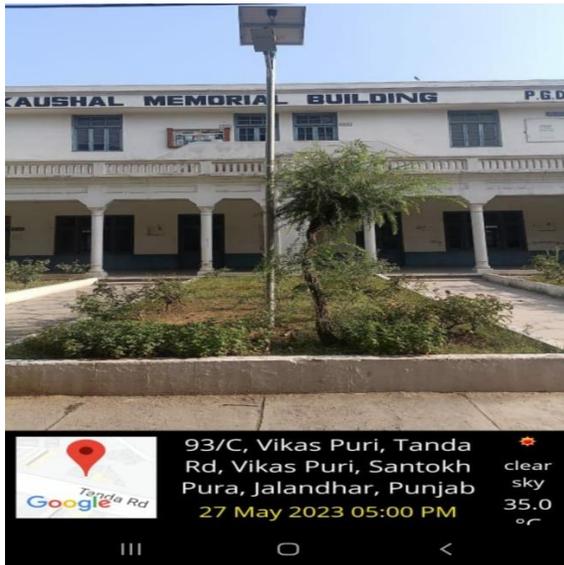
➤ 7.1.2.4 Sensor-based energy conservation

The institution actively employs energy-saving equipment and prioritizes the procurement of instruments with 4-star to 5-star power consumption ratings, thereby contributing to significant electricity savings.

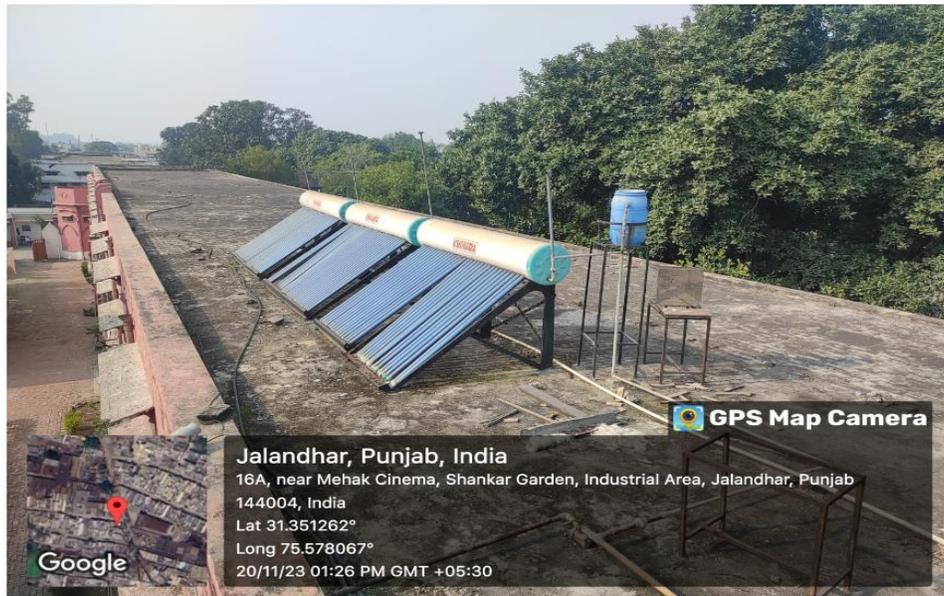
➤ 7.1.2.5 Use of LED bulbs/ power-efficient equipment

KMV Institution utilizes energy-efficient technologies such as LEDs, and power-rated equipment, which contribute to lower electricity consumption for illumination, resulting in reduced overall energy utilization. The institution adheres to the Bureau of Energy Efficiency (BEE) standards when procuring electrical equipment, ensuring a relatively lower consumption of electricity. Across the entire campus, LED lights have been installed to minimize energy consumption, as depicted in Figure 3.

Figure.1 Solar energy



SOLAR ENERGY PANEL



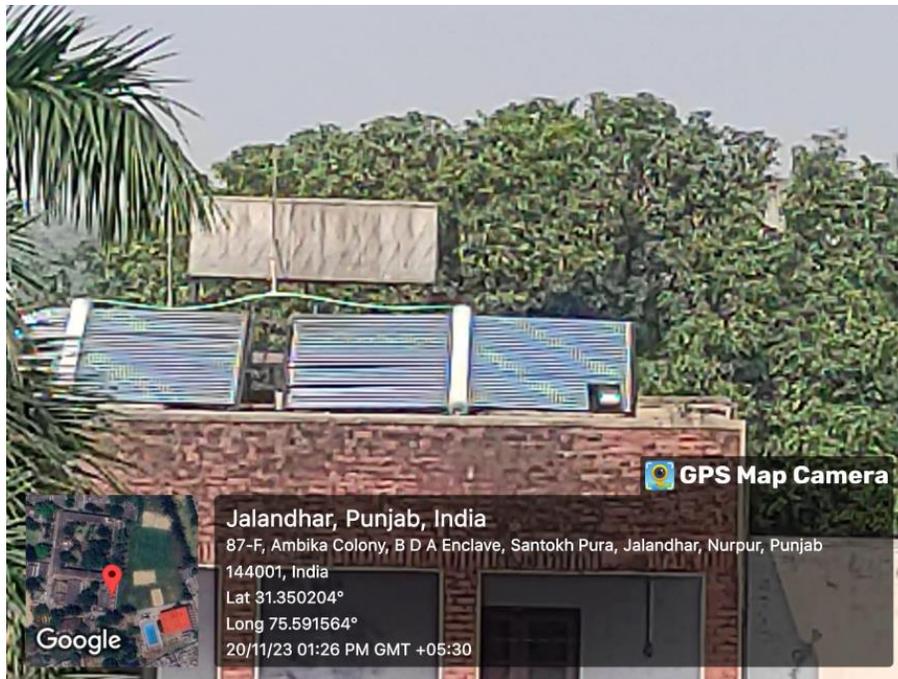


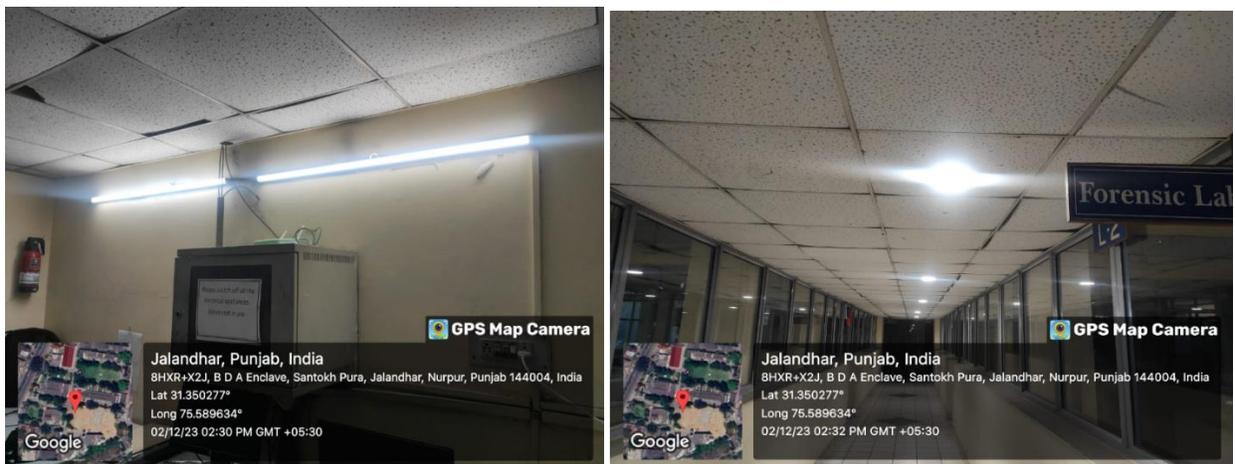
Figure 2- Sensor based energy conservation



TIMERS IN SENSOR BASED LIGHTS IN HOSTEL WASHROOM



Figure-3 Use of LED bulbs and power efficient equipments



LED MONITORS



INVERTER AC

