



**Marathwada Shikshan Prasarak Mandal's**

## **Sunderrao Solanke Mahavidyalaya, Majalgaon**



### **INTERNAL QUALITY ASSURANCE CELL**

#### **Criterion VII- Institutional Values & Best Practices**

##### **7.1 Institutional Values and Social Responsibilities**

##### **7.1.2 The Institution has facilities and initiatives for**

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and non-degradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment during last five years.**

### **Report of LED Bulbs**

## Use of LED Bulbs in the College

A LED lamp is an item for consumption that uses a Light-emitting diode and that is assembled into a street lamp or a light bulb. LED lamps last much longer, and are more efficient than luminous lamps. Unlike luminous lamps, most LED lamps do not need to "warm up" before they emit the full quantity of light in our everyday life. By replacing 40 watt florescent tube by 9 watt LED tube or 14 watt T-Bulb we can save approximately Rs.1116 per year. LED lighting fixtures are more beneficial for saving energy and to conserving the environment. These lighting solutions help a lot in maintaining campus security, providing better quality light, improving student safety, and giving facility managers a sense of peace that comes with purchasing long-lasting products. LED light bulbs last much longer and consume far less energy. The high efficiency and directional nature of LEDs makes them ideal for many uses. LEDs are increasingly common in street lights, parking garage lighting, walkway and other outdoor area lighting, refrigerated case lighting, modular lighting, and task lighting. Natural light is the best and most important light to incorporate in the classroom.

The truth is that LED lights are directional, which means that they are excellent for use as reading lights. The electric light bulb has been called the most important invention since man-made fire. The light bulb helped to establish social order after sundown, extended the workday well into the night, and allowed us to navigate and travel safely in the dark. Without the light bulb, there would be no nightlife. As solid-state light sources, LEDs have very long lifetimes and are generally very vigorous.

The main reason that LEDs use so much less electricity than incandescent lighting is that they don't produce light in the same way. This process doesn't use a filament and creates little heat, instead relying on a property of semiconductors to generate light. LED lights are up to 80% more efficient than traditional lighting such as fluorescent and incandescent lights. 95% of the energy in LEDs is converted into light and only 5% is wasted as heat. Less energy use reduces the demand from power plants and decreases greenhouse gas emissions. LED tubes are much more efficient on your energy costs as well as your carbon footprint on the environment. There's nothing more sustainable than Energy.



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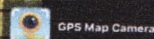
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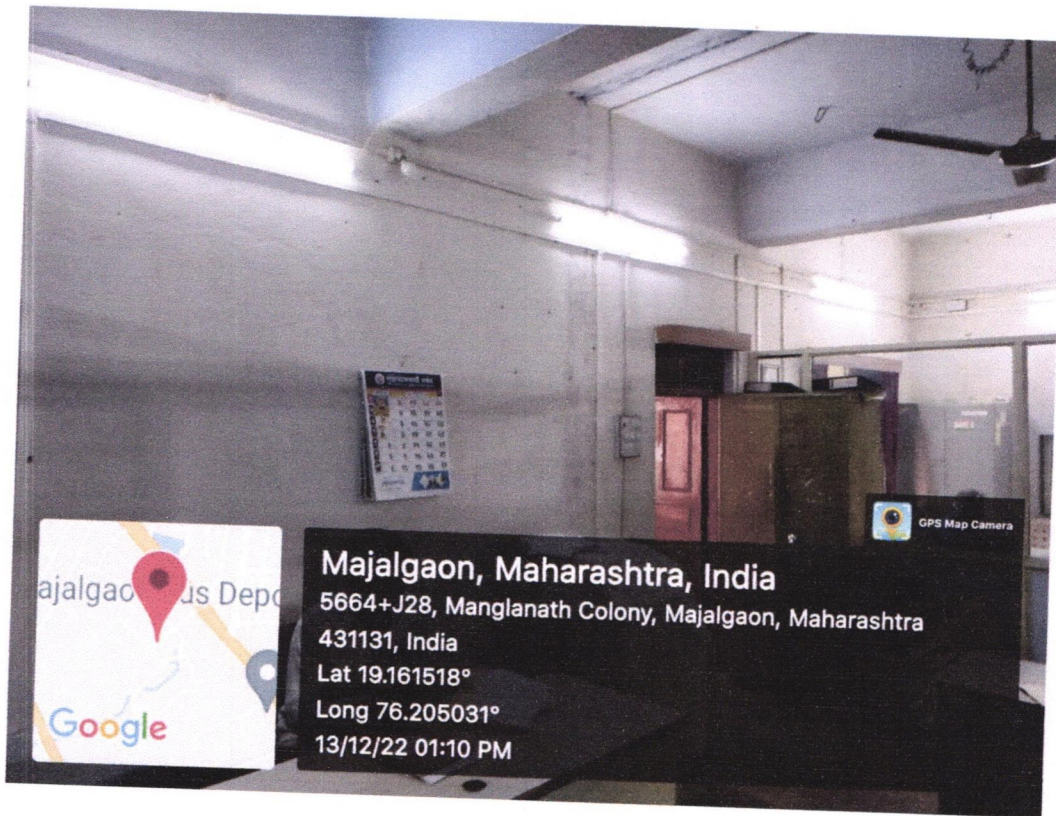


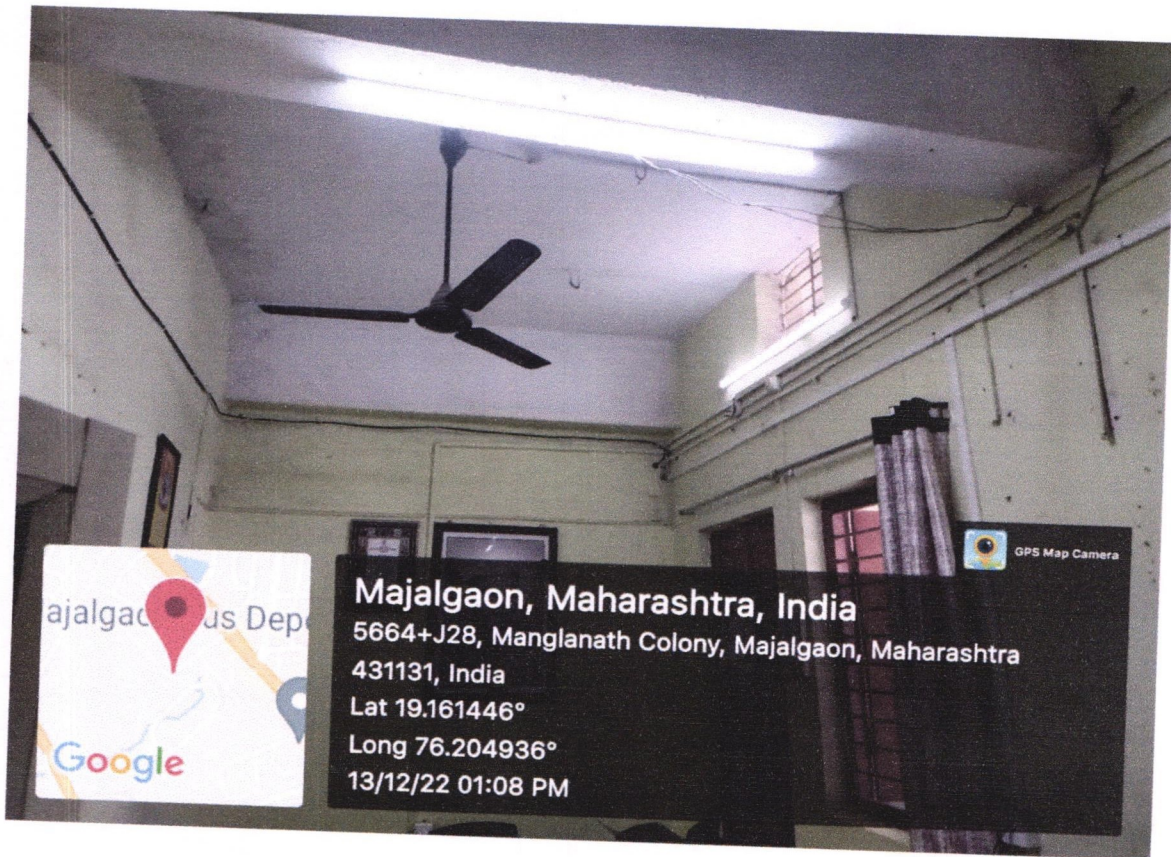
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