



K.R.E. Society's

R.V BIDAP LAW COLLEGE BIDAR

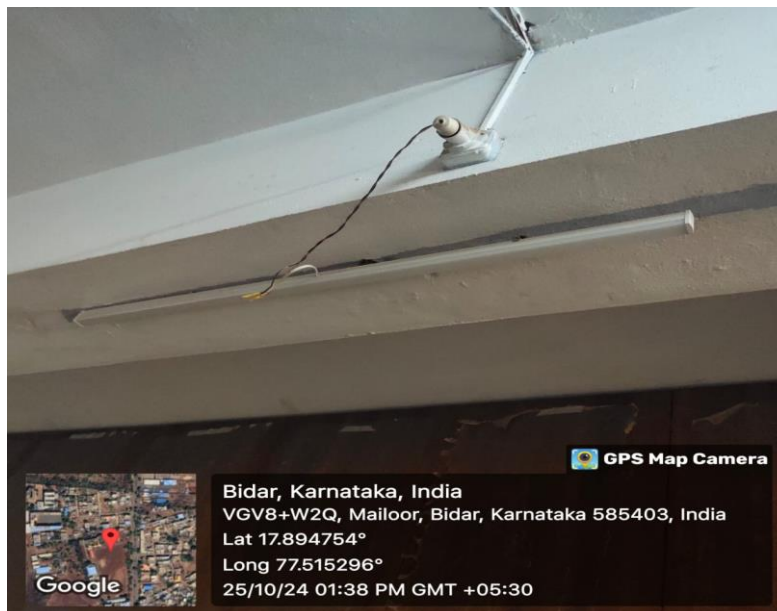
(Approved by BCI Delhi & Permanently Affiliated to Karnataka State Law University, Hubballi)
MANHALLI ROAD, BIDAR - 585 403. (KARNATAKA STATE) INDIA


Report on Energy Conservation Practices at R V Bidap Law College

1. *Sensor-based energy conservation*
2. *Use of LED bulbs/ power efficient equipment*

Introduction

R V Bidap Law College is committed to promoting energy conservation and reducing its carbon footprint through the adoption of energy-efficient practices. As part of its sustainability initiatives, the college has implemented sensor-based lighting systems and transitioned to the use of LED bulbs and power-efficient equipment across the campus. This report outlines the steps taken by the college to conserve energy and improve energy efficiency, contributing to environmental sustainability.




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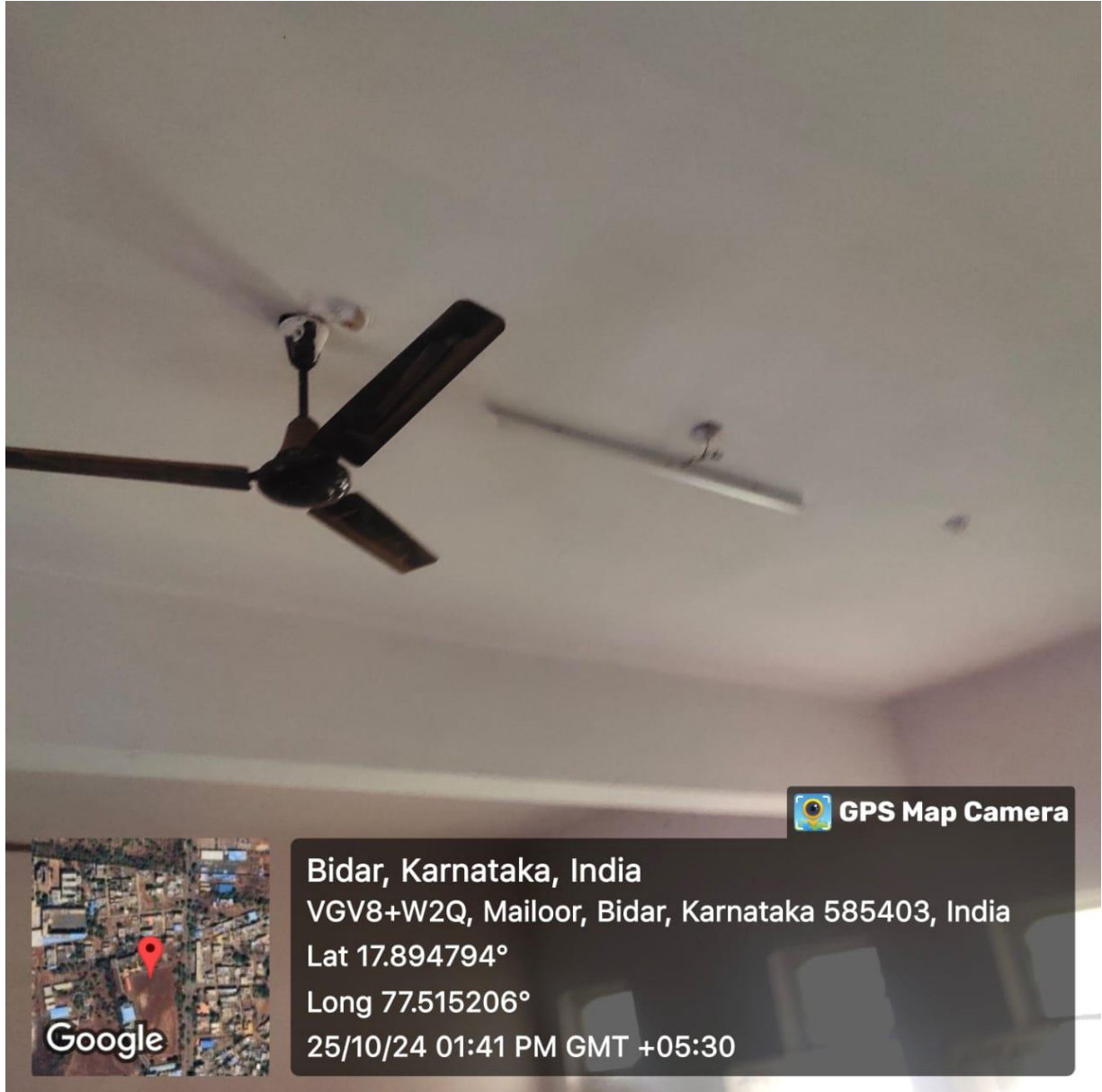
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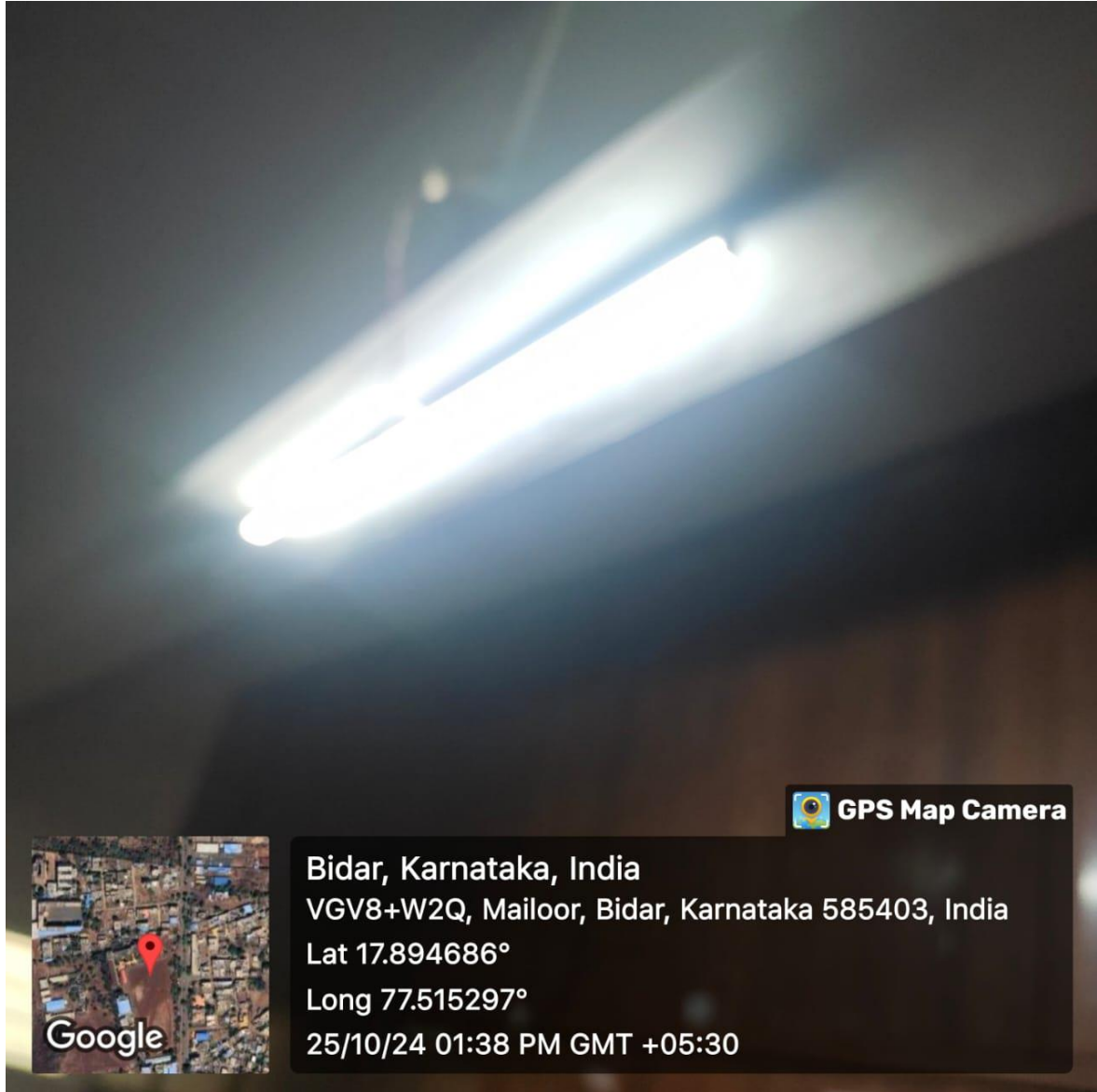
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Energy Conservation Measures

1. Sensor-Based Lighting System:

- The college has installed sensor-based lighting systems in strategic locations such as corridors and toilets. These systems automatically turn the lights on when motion is detected and switch them off when no movement is sensed. This ensures that lights are only used when necessary, significantly reducing energy consumption.
- **Key Benefits:**
 - Sensors help reduce electricity usage by ensuring that lights are not left on unnecessarily in areas with intermittent occupancy.
 - The reduced operating time of lights also extends the lifespan of the bulbs, leading to reduced maintenance costs.

2. Use of LED Bulbs and Tubes:


- **Transition to LEDs:** The college has replaced traditional incandescent and CFL (Compact Fluorescent Lamp) bulbs with **energy-efficient LED bulbs and tubes** across the entire campus. This includes classrooms, offices, corridors, and common areas.
- **Key Benefits:**
 - LED bulbs consume significantly less power compared to traditional lighting solutions, reducing electricity consumption by up to 50-70%.
 - LED lights have a longer lifespan, typically lasting up to 25,000 hours or more, resulting in lower replacement costs and reduced waste.
 - LED lighting provides brighter and more consistent illumination, improving visibility and enhancing the overall learning environment.

3. Power-Efficient Equipment:

- In addition to lighting, the college has adopted energy-efficient electrical appliances and equipment in various departments. This includes:
 - The college uses Bureau of Energy Efficiency (BEE) star-rated equipment such as air conditioners, computers, and projectors, which consume less energy.
 - All electronic devices, including computers, printers, and other office equipment, are set to power-saving modes when not in use, further reducing energy consumption.

Energy Conservation Impact

- The implementation of sensor-based lighting and LED technology has led to a noticeable reduction in the college's electricity bills. The savings have been directed towards other energy-efficient infrastructure projects.


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- The transition to LED lighting and the use of sensor-based systems have reduced the overall electricity consumption of the college, contributing to a lower carbon footprint and aligning with the institution's commitment to environmental sustainability.
- These initiatives have helped foster an eco-conscious mindset among students, faculty, and staff. Energy conservation awareness programs are regularly conducted to encourage responsible energy use in both personal and institutional settings.


Monitoring and Maintenance

- The energy conservation systems are regularly inspected to ensure they function optimally. Any faulty sensors or lighting components are immediately replaced to avoid energy wastage.
- The college maintains records of electricity consumption and regularly evaluates the effectiveness of its energy-saving initiatives. This helps in identifying further opportunities for improvement.

Future Plans

1. **Expanded Sensor-Based Lighting**
2. **Solar Energy Integration**
3. **Smart Energy Monitoring Systems**

R V Bidap Law College is dedicated to adopting innovative and sustainable energy conservation practices. The use of sensor-based lighting, LED bulbs, and power-efficient equipment has significantly contributed to reducing the college's energy consumption and environmental impact. These efforts reflect the institution's commitment to sustainability and responsible energy management, further promoting a culture of environmental consciousness within the campus community.


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