



গড়গাঁও মহাবিদ্যালয়  
GARGAON COLLEGE

**Greening the Future:  
A Step Towards  
Clean Energy and Energy Conservation**





## **SOLAR ENERGY**

Gargaon College is committed to using renewable energy sources to reduce its electricity consumption. The college has installed several solar streetlamps on campus to provide clean and green lighting. The college has also installed a set of solar panels to supply electricity to the Girls common room and nearby departments. The use of solar energy not only minimizes the college's environmental impact but also generates long-term financial savings.

## **BIOGAS PLANT**

Gargaon College embraces and deeply focuses for sustainable waste management and renewable energy solutions. The vision for establishing a biogas plant at Gargaon College is on process. The biogas plant is envisioned as a sustainable and environmentally friendly initiative to manage organic waste and generate renewable energy. Renewable energy produced by biogas facilities for both residential and commercial usage. Our reliance on fossil fuel energy may be lessened by storing this energy or putting it into the electrical grid, which will lessen our carbon impact. A biogas plant will aid in the fight against global warming. Greenhouse gas emissions would decrease if energy generated from fossil fuels is used less often by industrial and residential consumers.

## **SENSOR-BASED ENERGY CONSERVATION**

The college of Gargaon has adopted smart solutions for energy conservation in its buildings. It uses sensors that can sense human activity and regulate lighting and ventilation systems accordingly. These sensors can turn off lights and modify ventilation modes when no one is in the area, thus avoiding energy waste. This intelligent technology enables effective energy management and lowers energy consumption.

## **USE OF LED BULBS**

The college of Gargaon has initiated a transition from conventional light bulbs to LED light bulbs in all its facilities. LED light bulbs have the advantage of using much less power while delivering the same or higher level of brightness. This change to LED technology cuts down power consumption and saves money on electricity bills for the college. Furthermore, the college gives preference to buying energy-efficient devices and machines, such as computers, printers, air conditioners, and cooling systems. Such machines are carefully chosen to comply with energy efficiency standards, enhancing the overall energy saving measures.

## **CONCLUSION**

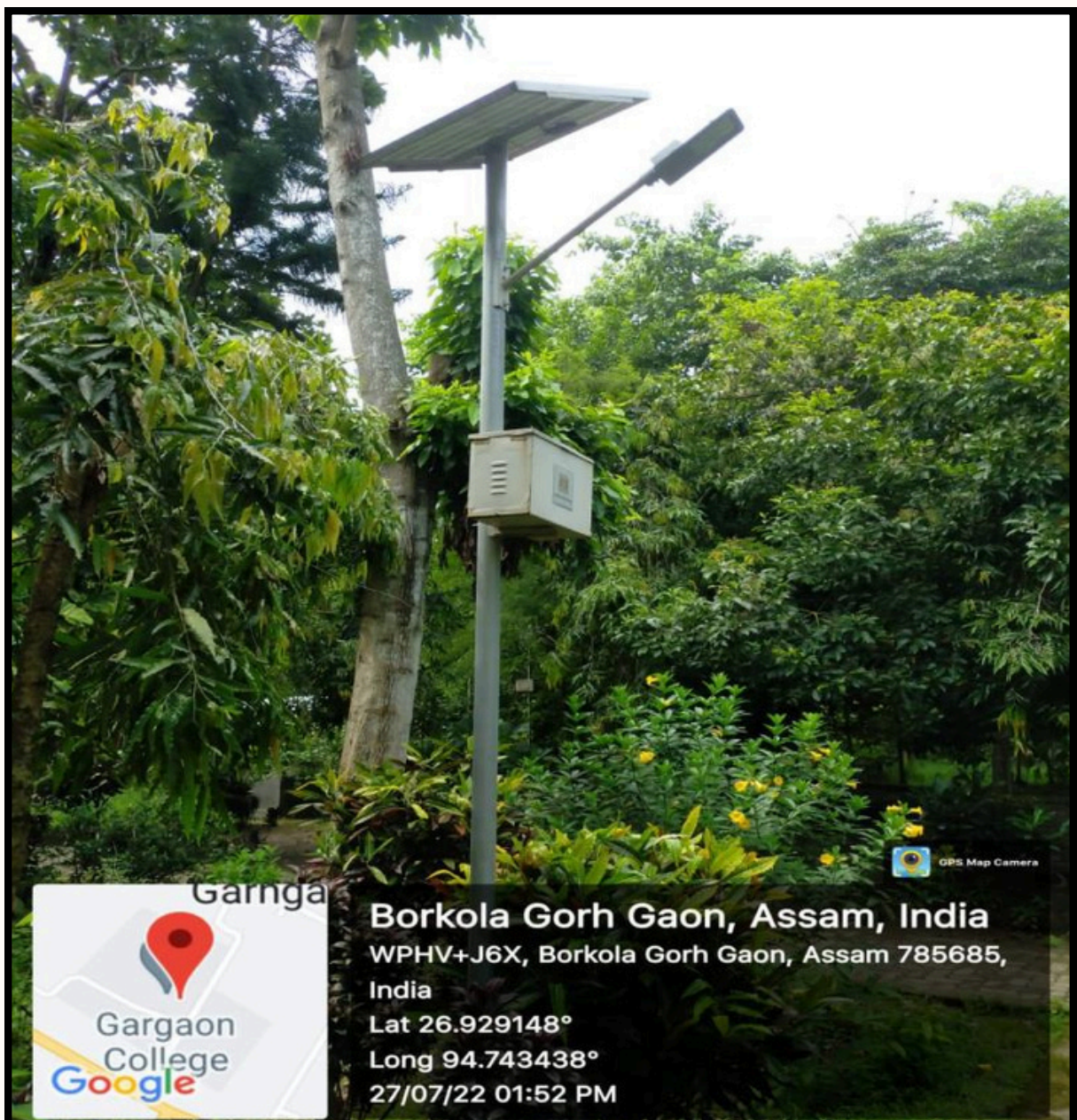
The college demonstrates its dedication to environmental stewardship by adopting various strategies to exploit alternative energy sources and encourage energy savings. The installation of solar panels, the construction of a biogas unit, the use of sensors for energy efficiency, and the replacement of conventional bulbs and devices with LED and power-saving ones are some of the remarkable actions taken by the college. These strategies not only lower the college's ecological footprint but also provide useful learning opportunities for students and the broader society.



## Some Photographs of Alternative Energy Sources at College campus





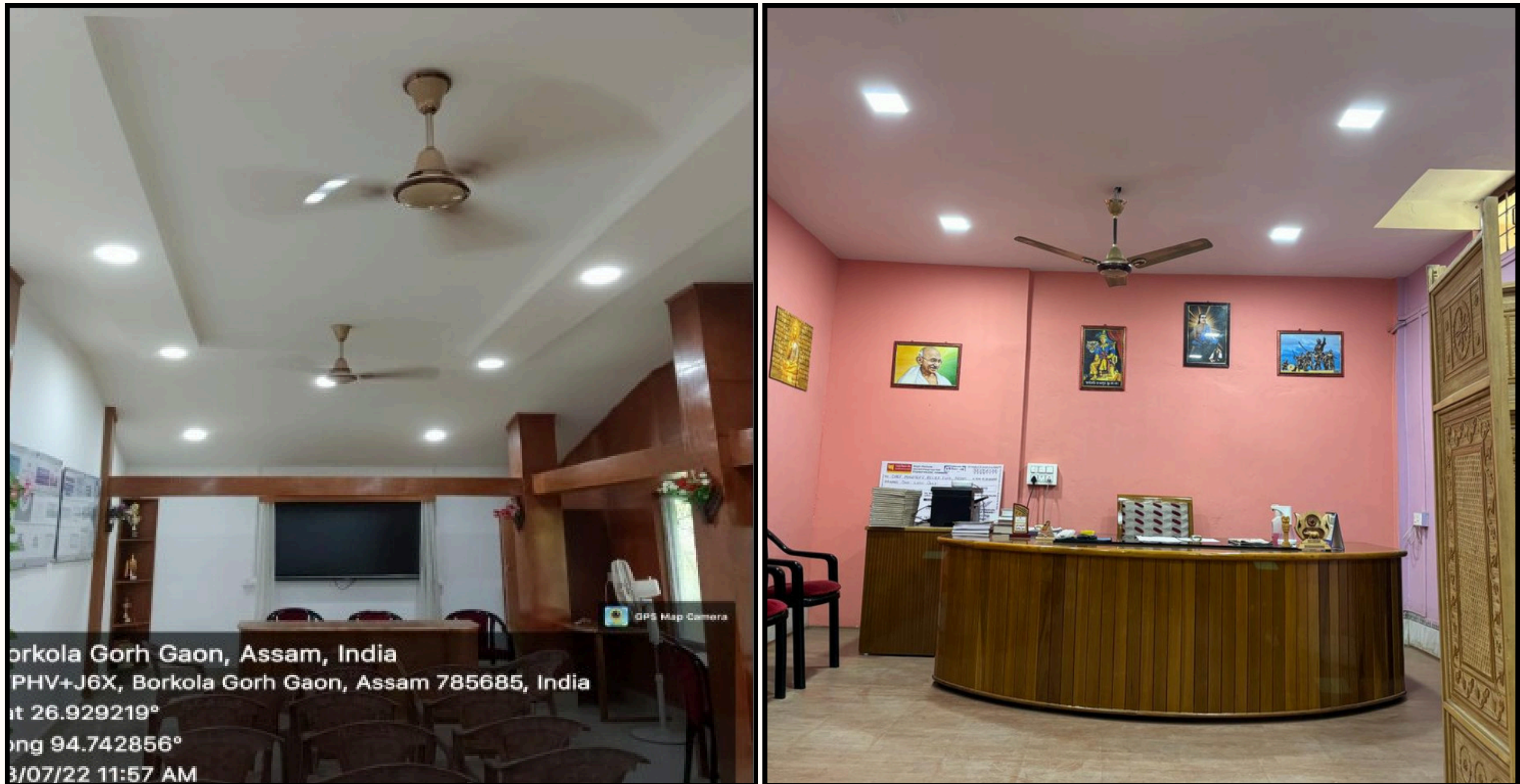


**Pictures: Solar lights in college campus**



**Installation of Solar Panels**





**Pictures: Sensor-based lights at Commerce lab and Principal's room**



**Picture: Biogas plant in campus**



