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AL-AZHAR DENTAL COLLEGE

(APPROVED BY DENTAL COUNCIL OF INDIA & AFFILIATED TO KUHS)

RUN BY NOORUL ISLAM TRUST

PERUMPILLICHIRA P. O., THODUPUZHA, IDUKKI DIST., KERALA- 685 605

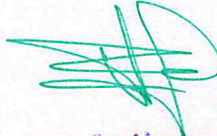
7.1.3 The Institution has facilities for alternate sources of energy and energy conservation devices

- 1. Solar energy**
- 2. Wheeling to the Grid**
- 3. Sensor based energy conservation**
- 4. Biogas plant**
- 5. Use of LED bulbs/ power efficient equipment**

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Prof. Dr. Harvey Thomas MDS
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

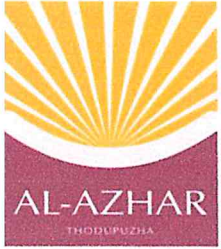
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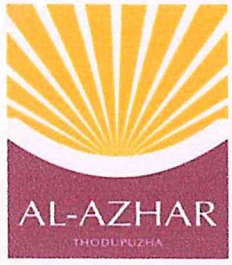
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Guiding Light. Smiling Bright.

CERTIFICATE OF THE HEAD OF THE INSTITUTION



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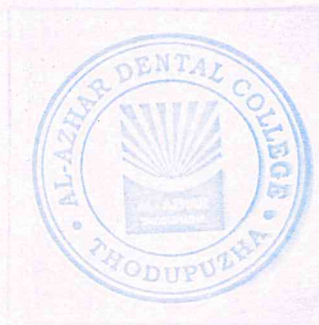
DR HARVEY THOMAS, MDS

PRINCIPAL

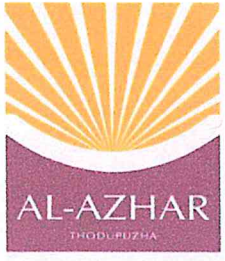
TO WHOMSOEVER IT MAY CONCERN

This is to certify that the Institution has facilities for alternate sources of energy and energy conservation devices

1. Solar energy
2. Sensor based energy conservation
3. Biogas plant
4. Use of LED bulbs/ power efficient equipment



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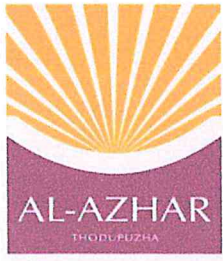
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**FACILITIES FOR ALTERNATE SOURCES OF ENERGY AND
ENERGY CONSERVATION**



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FACILITIES FOR ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

Introduction

In today's world, the pursuit of sustainable energy solutions is paramount. Al Azhar Dental College recognizes the importance of reducing our carbon footprint and embracing eco-friendly practices. The innovative energy initiatives and conservation measures implemented at the institution include the utilization of solar energy, a biogas plant, sensor-based energy conservation systems, and the adoption of power-efficient lighting and equipment.

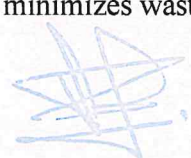
Harnessing Solar Energy

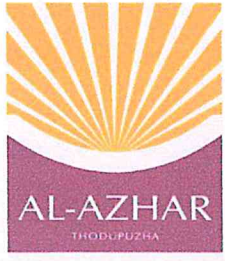
Solar energy stands at the forefront of our sustainable energy efforts. To tap into the abundant sunlight available, solar panels are installed on the rooftops of the building. These photovoltaic panels efficiently convert sunlight into electricity, providing a clean and renewable energy source. The solar energy system powers the data center and contributes to a significant reduction in the carbon emissions. Through this, the reliance on non-renewable energy sources is reduced and an example is set for the students and the community at large.

The Biogas Plant

Another groundbreaking initiative at Al Azhar Dental College is the implementation of a biogas plant. This plant converts organic waste, including food scraps and organic matter, into biogas, a renewable source of energy. Furthermore, the residual slurry from the biogas production process is used as organic fertilizer for the campus gardens. This closed-loop system minimizes waste and supports sustainable agriculture practices.




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Sensor-Based Energy Conservation

In the quest for energy efficiency, state-of-the-art sensor-based systems have been integrated in the campus. These sensors monitor occupancy, lighting, and ensuring that energy is only consumed when necessary.

For instance, the Principal's office is equipped with occupancy sensors that automatically adjust lighting and settings based on the number of occupants. The adoption of these energy-saving technologies has resulted in a substantial reduction in energy wastage. By avoiding unnecessary lighting and, not only energy has been conserved but also utility bills have been significantly reduced, making operations more cost-effective.

Transition to LED Bulbs and Power-Efficient Equipment

Lighting plays a pivotal role in our energy conservation efforts. We have replaced conventional incandescent bulbs with energy-efficient LED bulbs throughout our campus. LED technology consumes significantly less electricity while providing superior illumination. This transition has resulted in a marked decrease in our electricity consumption, further contributing to our sustainability goals.

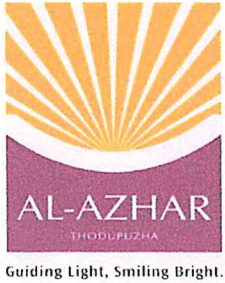
Moreover, we have invested in power-efficient equipment for our dental labs and administrative offices. From energy-efficient computers to dental equipment designed with energy conservation in mind, we continually seek to upgrade our infrastructure to reduce energy consumption while maintaining the highest standards of education and patient care.

Conclusion

Al Azhar Dental College is committed to sustainability through its innovative energy initiatives and conservation measures. The integration of solar energy, the operation of a biogas plant, sensor-based energy conservation systems, and the adoption of LED bulbs and power-efficient equipment collectively underline our dedication to reducing our environmental impact.



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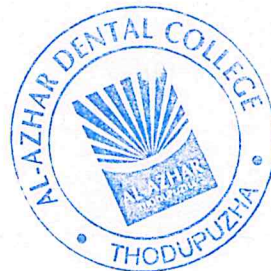
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As an educational institution, fostering sustainable practices among students is as vital as implementing these initiatives. By showcasing the tangible benefits of renewable energy and energy conservation, the next generation of dental professionals is inspired to prioritize sustainability in their practices. In this journey towards a greener future, Al Azhar Dental College remains resolute, continuously exploring new avenues to further the commitment to sustainable energy and conservation. The vision is not only to excel in dental education but also to be a beacon of environmental responsibility and stewardship in the community and beyond.

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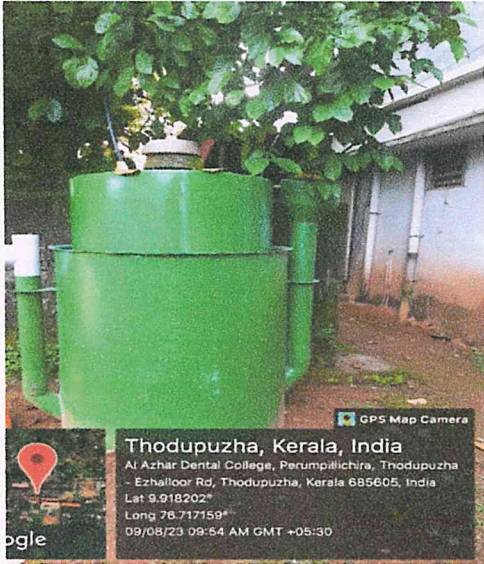


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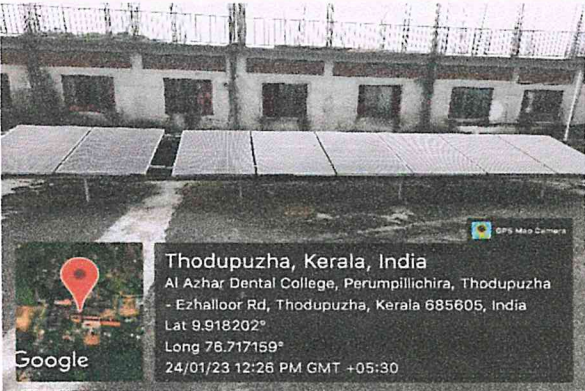
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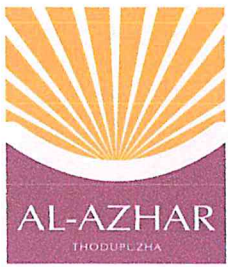
Biogas Plant in Al-Azhar Girls hostel



Solar panel in dental college



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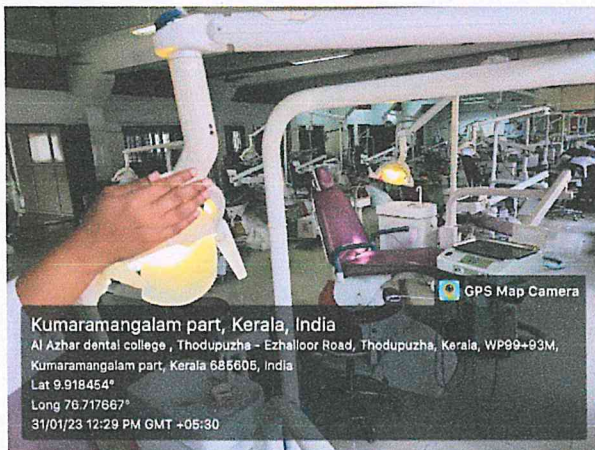
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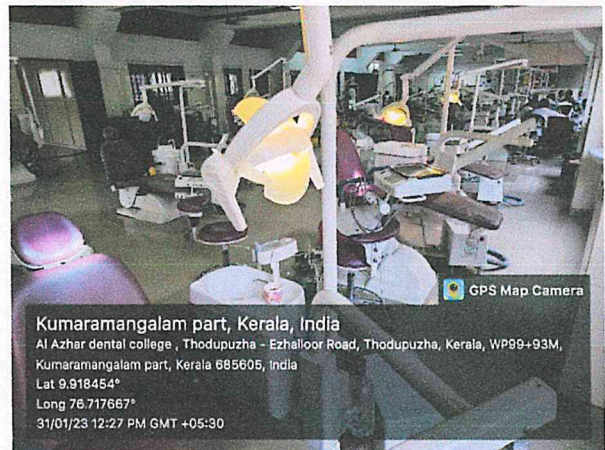
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SENSOR BASED ENERGY CONSERVATION

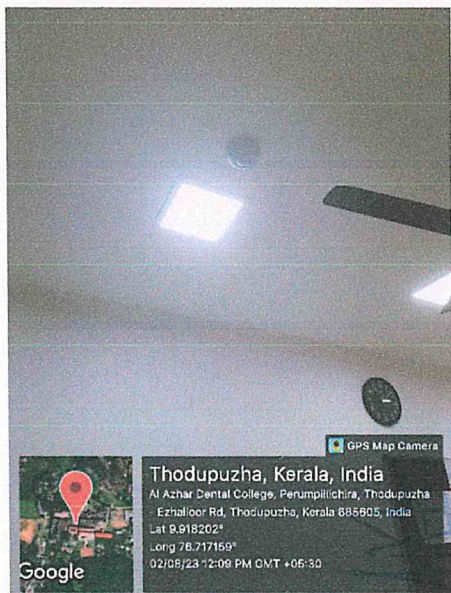


Kumaramangalam part, Kerala, India
Al Azhar dental college, Thodupuzha - Ezhalloor Road, Thodupuzha, Kerala, WP99-93M,
Kumaramangalam part, Kerala 685605, India
Lat 9.918454°
Long 76.717667°
31/01/23 12:29 PM GMT +05:30



Kumaramangalam part, Kerala, India
Al Azhar dental college, Thodupuzha - Ezhalloor Road, Thodupuzha, Kerala, WP99-93M,
Kumaramangalam part, Kerala 685605, India
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Sensor Lights In Dental Chair



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Al Azhar Dental College, Perumpillichira, Thodupuzha
- Ezhalloor Rd, Thodupuzha, Kerala 685605, India
Lat 9.918202°
Long 76.717159°
02/08/23 12:09 PM GMT +05:30



Thodupuzha, Kerala, India
Al Azhar Dental College, Perumpillichira, Thodupuzha
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Sensor Lights In Office Room

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