



# MES Dental College

Malaparamba, Perinthalmanna, Malappuram 679 338

TEL: 04933-298405/258400 (Fax)

E-Mail: [mesdentalcollege06@yahoo.com](mailto:mesdentalcollege06@yahoo.com)

**7.1.3: 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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**Dr. ABDUL SHAMEEM. K., MDS.,  
PRINCIPAL**

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that our 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

details are given:

**PRINCIPAL**

**Prof. Dr. ABDUL SHAMEEM. K MDS**  
PRINCIPAL  
MES DENTAL COLLEGE  
PALACHODE P.O., PERINTHALMANNA  
MALAPPURAM, KERALA, PIN: 679 338



**Prof. Dr. SACHIN ASLAM**  
PRINCIPAL  
MES DENTAL COLLEGE  
PALACHODE, PERINTHALMANNA  
MALAPPURAM- 679 338



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MES DENTAL COLLEGE  
PALACHODE, PERINTHALMANNA  
MALAPPURAM-679 338

Prof. Dr. SACHIN ASLAM  
PRINCIPAL  
MES DENTAL COLLEGE  
PALACHODE, PERINTHALMANNA  
MALAPPURAM-679 338





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## LED BULB



LED stands for light emitting diode. LED lighting products produce light up to 90% more efficiently than incandescent light bulbs. An electrical current passes through a microchip, which illuminates the tiny light sources we call LEDs and the result is visible light. It is used in lecture halls and examination hall.

  
Prof. Dr. SACHIN ASLAM  
PRINCIPAL  
MES DENTAL COLLEGE  
PALACHODE, PERINTHALMANNA  
MALAPPURAM- 679 338



  
Prof. Dr. ABDUL SHAMEEM. K MDS  
PRINCIPAL  
MES DENTAL COLLEGE  
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### SENSOR BASED ENERGY CONSERVATION



Measures taken to conserve energy and utilize alternate source of energy. Microwave synthesizers to minimize consumption of electricity for research work and practical.



Prof. Dr. *[Signature]* SHAMEEM. K MDS  
PRINCIPAL  
MES DENTAL COLLEGE  
PALACHODE P.O., PERINTHALMANNA  
MALAPPURAM, KERALA, PIN: 679 338

*[Signature]*  
Prof. Dr. SACHIN ASLAM  
PRINCIPAL  
MES DENTAL COLLEGE  
PALACHODE, PERINTHALMANNA  
MALAPPURAM- 679 338





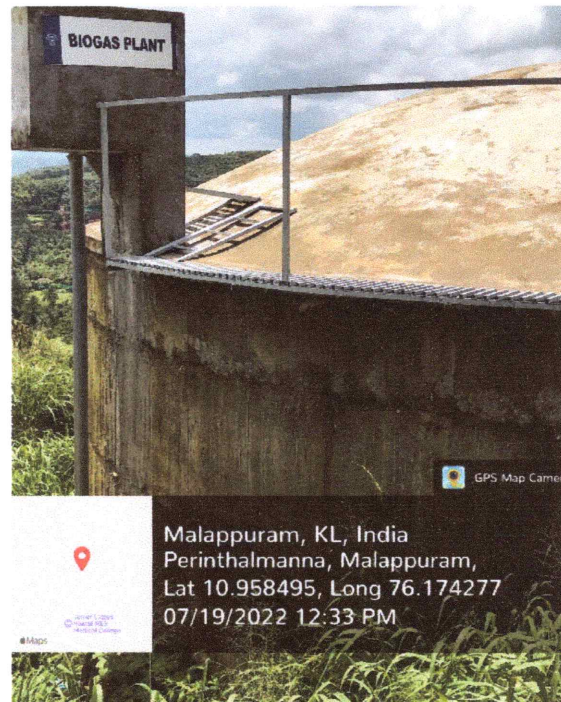
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### BIOGAS



A biogas plant is a facility that provides oxygen-free conditions where anaerobic digestion can occur. Bio-gas is produced through a bio-chemical process in which certain types of bacteria convert the biological wastes into useful bio-gas. Since the useful gas originates from biological process, it has been termed as bio-gas. Methane gas is the main constituent of biogas. The biogas plant aims at addressing the issue of disposal of waste from the canteen and other parts of the campus in an eco-friendly manner.



Prof. Dr. ABDUL HAMEEM K MDS

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PALACHODE P.O., PERINTHALMANNA  
MALAPPURAM, KERALA, PIN: 679 338

*ASL*  
Prof. Dr. SACHIN ASLAM  
PRINCIPAL  
MES DENTAL COLLEGE  
PALACHODE, PERINTHALMANNA  
MALAPPURAM- 679 338



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### SOLAR



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Prof. Dr. SACHIN ASLAM  
PRINCIPAL  
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PALACHODE P.O., PERINTHALMANNA  
MALAPPURAM- 679 338

Solar street lighting system uses the photovoltaic technology to convert the sunlight into DC electricity through solar cells. The generated electricity can either be used directly during the day or may be stored in the batteries for use during night hours. Solar lights are automatic and eco-friendly lighting devices. They are set to turn off automatically when it senses the fresh start of dawn. Solar cells will then work their way during the day to convert sunlight to energy. It is used as college street light in the campus .



Prof. Dr. *Shameem* SHAMEEM. K MDS  
PRINCIPAL  
MES DENTAL COLLEGE  
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