

MAR THOMA COLLEGE FOR WOMEN PERUMBAVOOR

CRITERION 7 Institutional Values & Best Practices 2017-2022

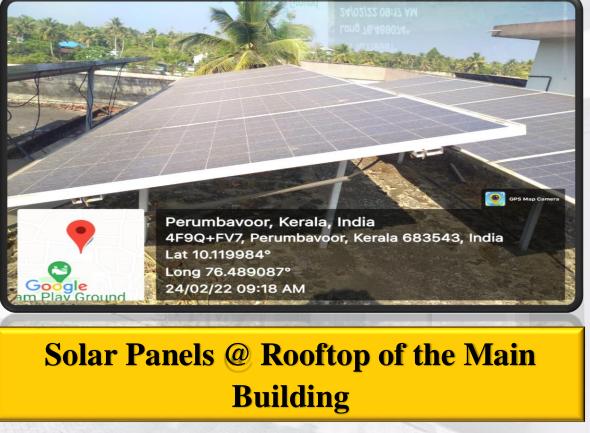
7.1.2.1 Alternate Sources of Energy & Energy Conservation Measures



Installation of Solar Panels

The college has taken a significant step towards sustainable energy by installing solar panels on its rooftop. These solar panels, with a capacity of 5 KW, efficiently harness solar energy, which is then utilized to meet the energy requirements of important areas within the college premises, including the principal's room and the college office. By embracing solar power, the college has made great strides in reducing its dependence on electricity from the Kerala State Electricity Board. The solar panels' consistent energy production not only provides a reliable and eco-friendly power source but also contributes to lowering the institution's overall carbon footprint.

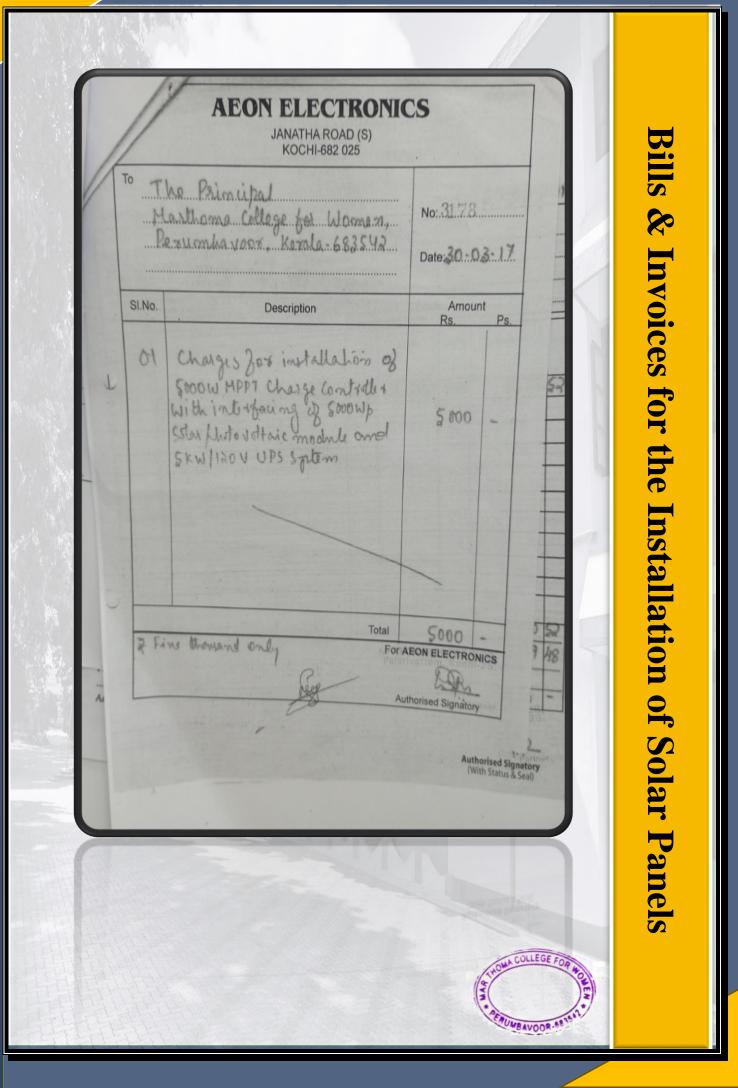






Criteria 7.1.2.1- Assessment Year 2017-2022

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Bills & Invoices for the Installation of Solar Panels

Bio-Gas Plant

The college has taken a significant leap towards sustainable practices by establishing biogas plants to generate biogas for cooking purposes. These biogas plants employ an environmentally friendly process that not only produces biogas but also yields a nutrient-rich substrate, which is utilized as organic fertilizer. The biogas plants have been set up to efficiently convert organic waste, such as kitchen scraps and agricultural residues, into biogas through anaerobic digestion. Anaerobic digestion is a natural biological process where microorganisms break down organic matter in the absence of oxygen, resulting in the production of biogas. This biogas is then harnessed and used as a clean and renewable energy source for cooking in the college's kitchen and other relevant areas.



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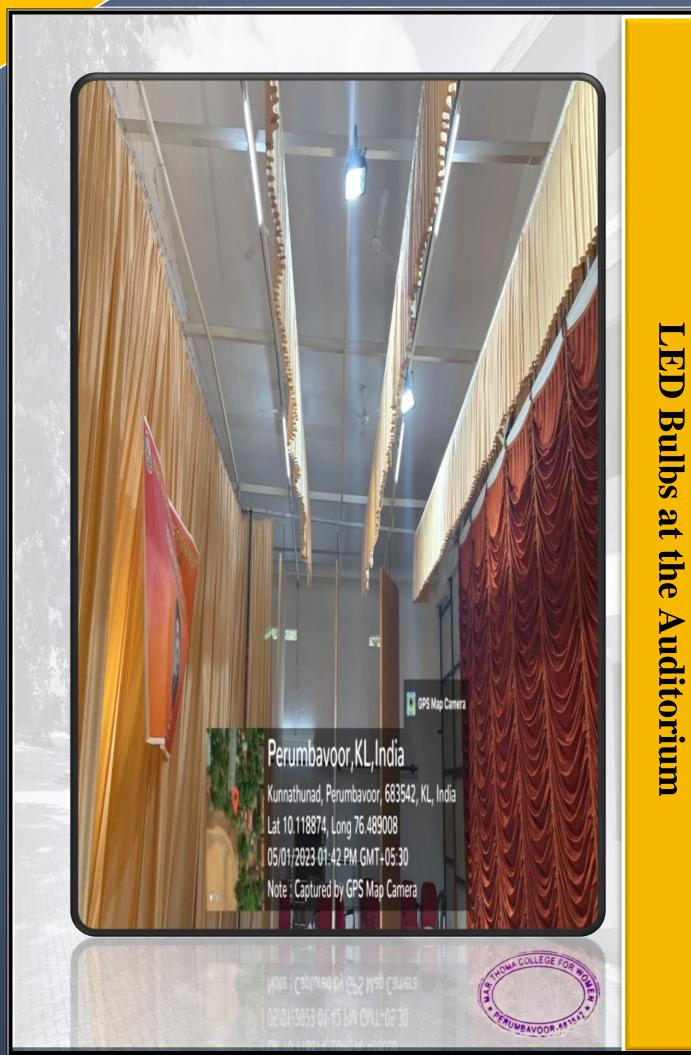
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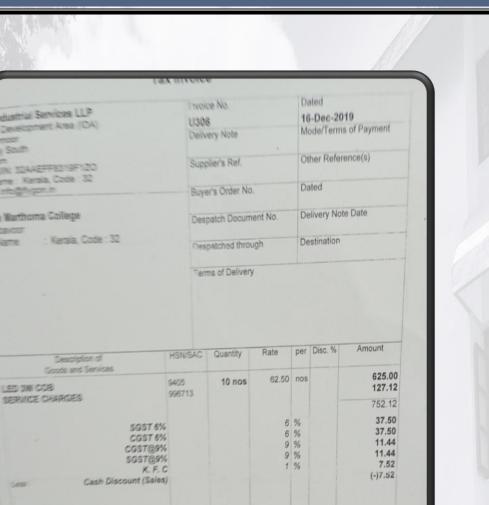


The college has taken a proactive approach to energy conservation by extensively incorporating LED bulbs throughout its premises. This transition to LED lighting represents a significant step towards reducing energy consumption and promoting sustainability on campus. LED bulbs are known for their energy efficiency, long lifespan, and lower environmental impact compared to traditional incandescent or fluorescent bulbs. By replacing conventional lighting fixtures with LED lamps, the college has already witnessed a noticeable reduction in electricity consumption, contributing to cost savings and a greener environment. Recognizing the success of this initiative, the College Authority is now planning to accelerate its efforts towards energy conservation by aiming for 100% LED lamp usage in the near future.





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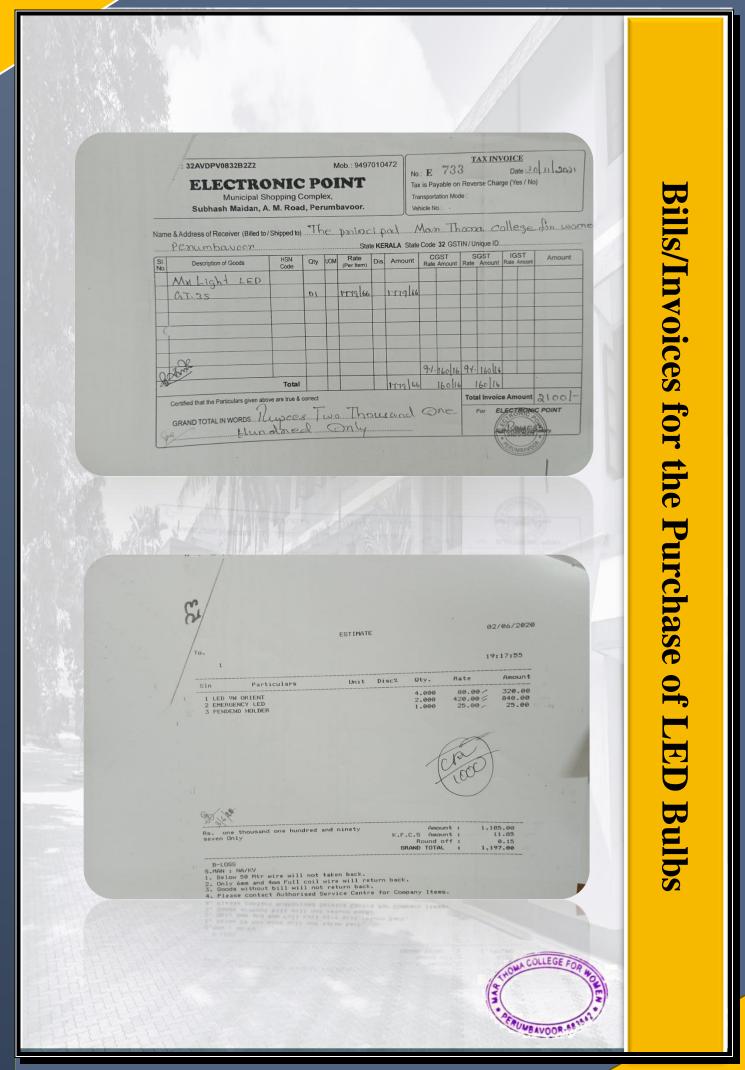
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for Flygon Industrial Services LLP

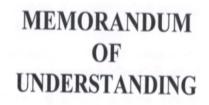
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MOU with Energy Conservation Society



signed between

1.MAR THOMA COLLEGE FOR WOMEN, PERUMBAVOOR

and

2. ENERGY CONSERVATION SOCIETY

DR. LISY CHERIAN PRINCIPAL WAR THOMA COLLEGE FOR WOMEN VAR THOMA COLLEGE FOR WOMEN VAR THOMA COLLEGE FOR WOMEN KERALA

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Mar Thoma College For Women, Perumbavoor (referred as First Party) and Energy Conservation Society (ECS) (referred as second party) signed a Memorandum of Understanding (MOU) as a part of Academicsindustry interaction and for mutually beneficial promotional activities. The understanding is stated as follows.

During the contemplation of understanding both parties agree to work together and achieve the following objectives.

- 1. To contribute and enhance the ability of students to adapt to actual working environment and practical applications of knowledge gained.
- 2. To establish a close and continuous interaction between Mar Thoma College For Women, Perumbavoor and Energy Conservation Society (ECS) to discuss professional and practical issues related to the field of energy conservation.
- 3. To exchange technical ideas and deliver expert lectures in professional electrical engineering practices with the aim of promoting renewable energy sources.
- 4. To organize training camps and internships for students from B. Sc., B.Voc. and other courses.
- 5. To organize site/field visits for the students to promote interaction between students and field engineering community.
- 6. To organize extracurricular, co-curricular and related activities jointly for the benefit of students and for creating awareness of energy conservation.
- 7. To organize continuing education program by assessing the need of engineering industry with emphasis on energy conservation.
- 8. To organize seminars/workshops in mutually agreed areas for dissemination of knowledge amongst the students, professional community and society at large.
- 9. Both parties shall strive together and put their best efforts for successful implementation of the agreement

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THOMA COLLEGE PERUMBAVOOR - 683 542

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FOR WOMEN

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