



# BETHLAHEM INSTITUTE OF ENGINEERING

KARUNGAL - 629 157, KANYAKUMARI DIST., TAMIL NADU.

(Approved by AICTE Vide : FNo. 06/05/TN/E&T/2007/25 dt. 02-06-2008 &

Affiliated to Anna University, Chennai)

Phone : 04651 - 268466, 268655, Fax : 04651 - 268466

E-mail : mail@bethlahem.org, Website : www.bethlahem.org

## 7.3 Institutional Distinctiveness

### 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

#### Green Fougere – “Let’s Nurture the Nature”

Bethlahem Institute of Engineering (BloE), affiliated to Anna University Chennai and approved by the All India Council for Technical Education (AICTE), New Delhi, was established in 2008 with the mission of empowering aspiring technocrats with technical and entrepreneurial skills to achieve global competence. The institution is dedicated to provide academic and career opportunities to all segments of society, with a special focus on economically and socially deprived youth. Situated on a 7.4 -acre campus, BloE boasts over 665 students, 91 faculty members and approximately 47 non-teaching staff at various levels. Visitors are captivated by the institution's expansive, eco-friendly green campus. BloE is renowned for its outstanding "Green Initiatives," including rainwater harvesting, recycling, wastewater treatment, waste management and energy conservation. Meticulous planning ensures the separation of organic and inorganic waste produced on campus.



  
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**Aerial View of Bethlahem Institute of Engineering**

## **"Let's grow the green shade" – Tree Plantation**

BloE is dedicated to environmental protection, regularly organizing tree-planting events with ecological themes to raise public awareness about nature and natural resources. These initiatives are often carried out in collaboration with various clubs and departments. Through these tree-planting activities, BloE reduces carbon emissions, improves air quality and enhances the overall atmosphere. Tree plantation programs provide students with the opportunity to understand the importance of trees in mitigating climate change and promoting biodiversity. By actively participating in these campaigns, BloE encourages future generations to prioritize sustainability and instils a sense of environmental responsibility within the campus community. These tree-planting initiatives are a practical and impactful way to cultivate a more environmentally conscious and green campus.

  
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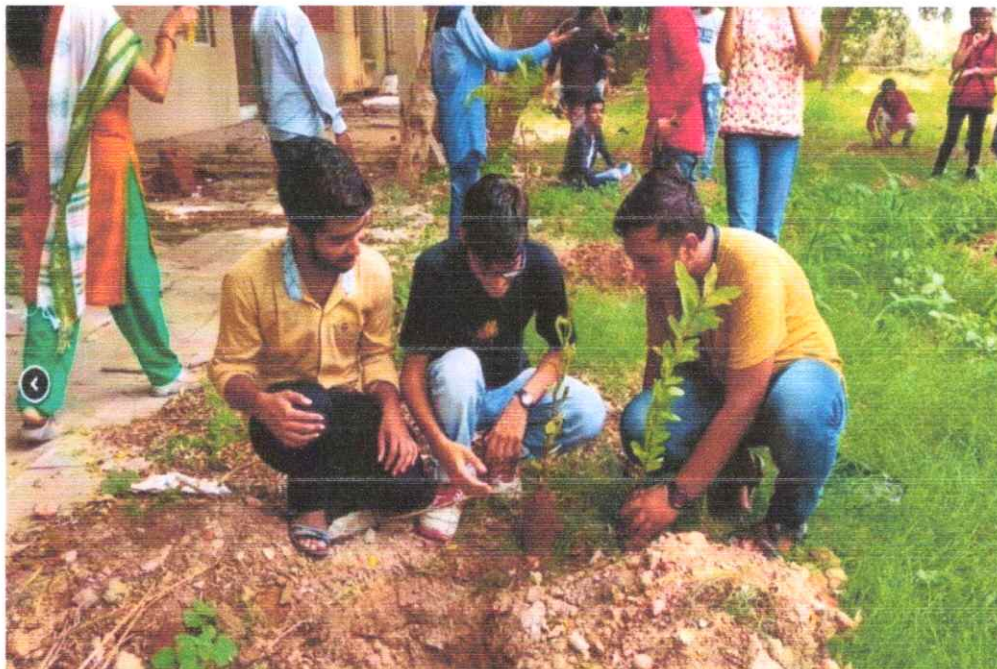
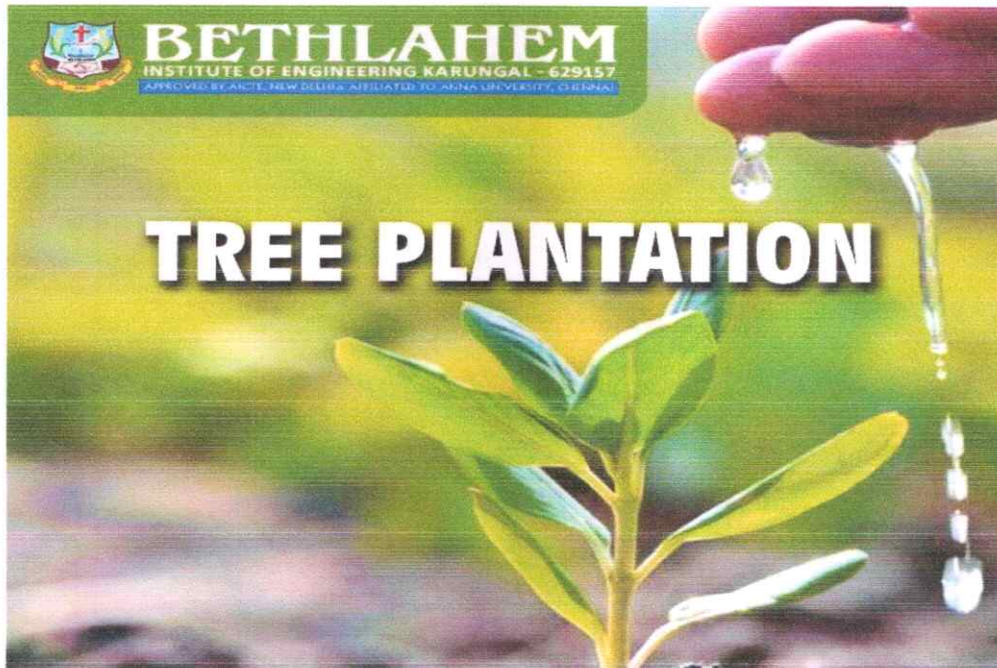
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## **"Lead the scene and keep it Green" - Eco-Friendly Campus**

The emphasis on eco-friendly environment at BIoE is guided by a "Go Green" philosophy which aims at preserving the tranquillity of the surroundings. A comprehensive sustainability strategy is maintained to address various aspects of campus operations. This includes initiatives such as energy-efficient building practices, utilization of renewable energy sources, implementation of recycling and waste reduction programs, adoption of water conservation techniques, promotion of eco-friendly transportation options, establishment of green spaces and dissemination of environmental education campaigns. These efforts cultivate a culture of environmental consciousness and stewardship.

### **Practices used to create an environment- friendly setting:**

- Using renewable energy sources to generate electricity
- Using energy-efficient lighting
- Unplugging electronics after use
- Minimizing waste production
- Using environment- friendly transportation
- Conserving and recycling water
- Planting trees
- Using eco-friendly materials

  
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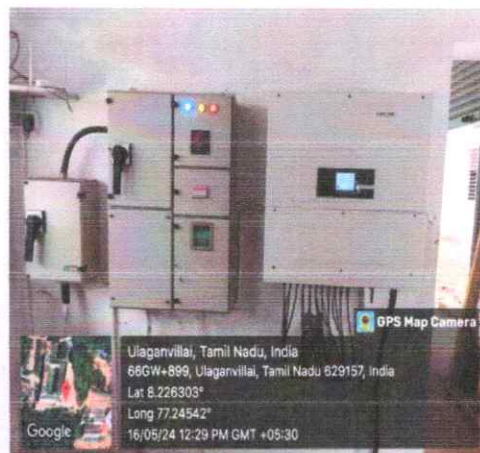
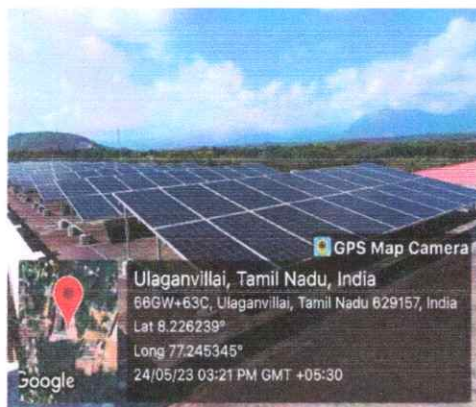
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## "Let's Harvest the Sun" – Solar Power Panel

The installation of solar panels at BloE generates environment-friendly power, lowers energy prices and reduces carbon emissions. The campus enjoys fresh air after the installation, as the panels emit no pollutants and do not contaminate the atmosphere. Solar power panels, as a renewable energy source, provide clean, eco-friendly electricity for various campus needs. They are also compatible with solar lights and electric heating systems, such as heat pumps, to supply hot water. By adding batteries to the solar panels, the institution utilizes stored energy at any time, eliminating the need for fossil fuels during blackouts or cloudy periods. Installation of solar power panels is a proactive step towards making BloE campus more environment-friendly and sustainable.



  
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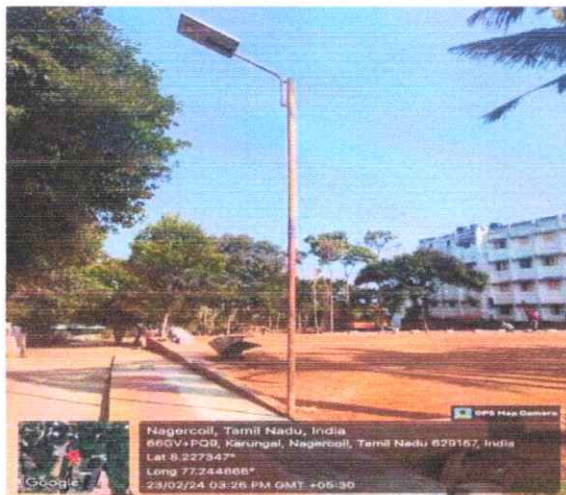
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## "Let's Ease the Use of Energy" – Biogas, LED Lights, etc

To promote low energy usage and enhance sustainability, the BloE campus has adopted several strategies. This includes installing energy-efficient lighting systems, migrating to BLDC ceiling fans and LED lighting, among other electrical appliances. These measures help reduce energy consumption and carbon footprint. Implementing these energy-saving initiatives not only lowers operational costs but also makes the campus greener, demonstrating its commitment to environmental responsibility. The implementation of biogas technology significantly boosts sustainability initiatives and

  
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provide students with hands-on learning experiences in environmental stewardship and renewable energy technologies. By prioritizing energy reduction across various campus operations, BloE significantly contributes to build a more sustainable future.



  
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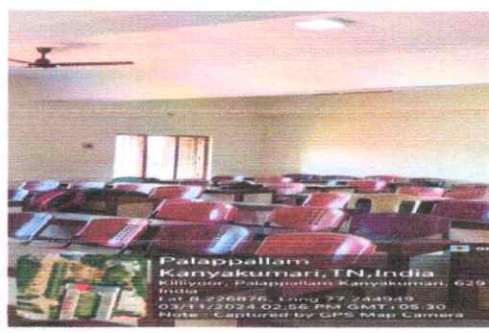
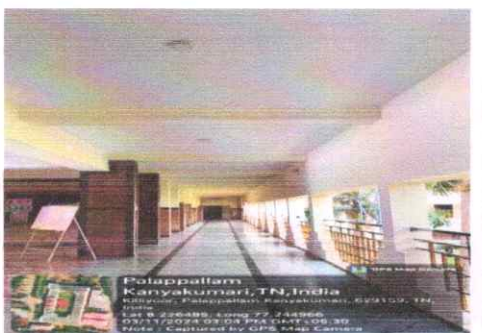
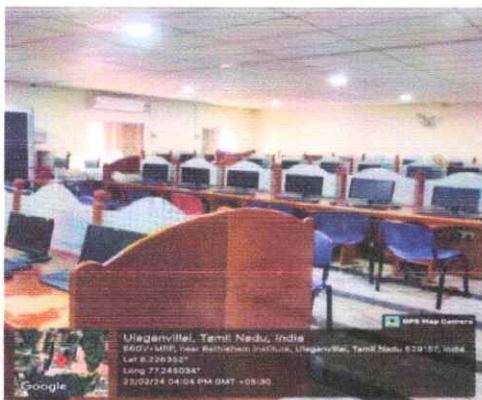
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## “We adore even the trash” – Waste Management

Effective waste management is essential for reducing the ecological footprint of a college campus. Key strategies include implementing recycling programs, composting organic waste, reducing single-use plastics and safely disposing hazardous materials. At BloE, these initiatives decrease the amount of waste sent to landfills and encourage recycling, reusing and waste reduction practices which contribute to a cleaner and healthier environment. Additionally, awareness campaigns are regularly conducted to motivate staff and students to manage waste responsibly.

  
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## Vermicomposting

The campus adopts vermicomposting method that converts organic waste into valuable compost which is used as manure in campus gardens. This environmental-friendly waste management technique educates both staff and students about the importance of recycling and composting practices. Additionally, it reduces greenhouse gas emissions, thereby decreasing air pollution.



  
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## **"We adore every drop of her tears" - Rainwater harvesting**

BloE practices rainwater harvesting, which involves collecting and storing rainwater for groundwater recharge. By installing rainwater collection systems, the institution reduces its dependence on municipal water supplies, preserves water resources and mitigates the impacts of storm water runoff. This eco-friendly approach not only promotes water conservation but also enhances resilience and environmental awareness among campus residents.



## **Green Environment and Energy Audits:**

To evaluate and enhance campus sustainability initiatives, audits are conducted based on energy consumption, water usage, waste management and overall environmental practices. Frequent audits yield useful information for establishing sustainability objectives, monitoring advancement and develop an environmental-conscious campus community.

  
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## **Advantages of Green Audit:**

- Protecting the environment
- Reducing waste and controlling expenses
- Verifying compliance with laws in effect
- Emphasizing green energy
- Spreading awareness on environmental regulations and obligations

## **Advantages of Environment Audit:**

- Identify locations where the environment is affected.
- Adherence to rules
- Enhance methods for sustainability

## **Advantages of Energy Audit:**

- Find opportunities for Energy Efficiency
- Cost Savings
- Educational Opportunity
- Long-Term Planning

In conclusion, the Green Campus Initiative acts as a valuable instrument for promoting awareness of environmental issues and sustainability within the college campus. Through implementing eco-friendly practices such as conserving energy, reducing waste, promoting recycling, offering sustainable transportation alternatives, and initiating tree planting projects, the institution strive towards a fully sustainable future. These efforts not only enhance the campus environment but also educate both faculty and students about the importance of sustainability. For the betterment of present and future generations, the Green Campus Initiative plays a crucial role in fostering a more sustainable and environmental-friendly campus community.

  
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## Evidences of Green Campus of BioE



  
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