

**Assessment Period 2015-2020**



# **HENRY BAKER COLLEGE, MELUKAVU**

**A Christian Minority Educational Institution run by CSI East Kerala Diocese**



## **Criterion VII: Institutional Values and Best Practices**

***7.1.2 Facilities for alternative sources of energy and and energy sources***

*Submitted to*



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**THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

# Alternate Energy Sources & Energy Conservation Measures

Solar Energy Equipment: [Click Here](#)



Solar Panels



Solar Lamps

**100 Percent LED lights:**

**Seminar Hall with LED Lights: [Click Here](#)**



Renewable Energy Sources and Energy Efficient Equipment

Solar Energy Source

- The college has a Grid Interactive Solar Power Plant which is installed as per the specification of ANERT (Government of Kerala).
- The total capacity of the system is 25 KW.
- 66 solar panels manufactured by Panasonic (Mono PERC) cover an area of 2200 square feet.
- Power generated from the Solar Power Plant is more than the total power consumption of the college
- We use energy efficient (LED based) lighting only

## Sensor Based Energy Conservation

### Invertors



## LED Manufacturing Unit : [Click Here](#)

The college has an LED Bulb Manufacturing Unit which makes LED bulbs at low cost and distributes them among the stakeholders and the nearby community. For the manufacture of LED bulbs technical help was sought from Amaljyothi Engineering College, Kanjirappally. Experts from this institution trained our students in LED bulb production



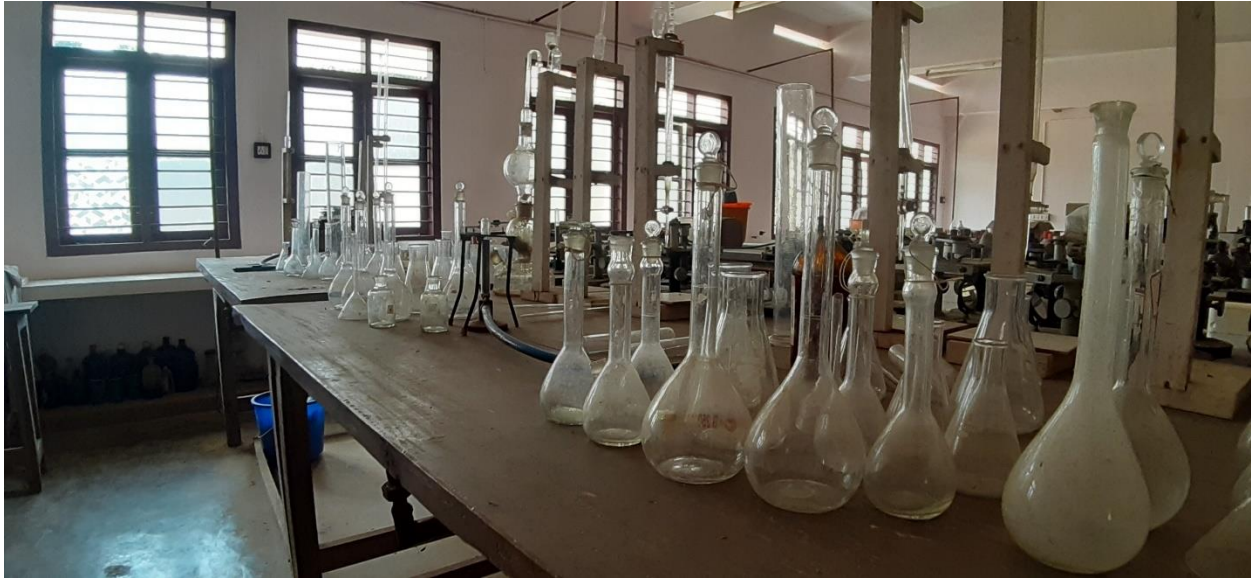


## **Maximum Utilization of Natural Light**

The primary area of the college building is so structured as to enable natural light and high roofs for cooling. The college is constructed in such a manner that its edifice allows for natural ventilation and lighting throughout its campus which helps conserve the energy demands.

### **Naturally Lit Chemistry Lab**





**Hall with Plenty of Natural Light**



## Other Sensor Based Equipment

### HBC Automated Weather Monitoring System

- Provides information about weather changes in advance
- We are the only institution that has a weather monitoring system



## Sanitizer Dispenser

In the wake of Covid -19 the college has installed sensor-based hand sanitise dispensers to fight the threat of this unprecedented pandemic.

