



# Ramakrishna Mission Sikshanamandira

A NCTE Recognized Govt. Aided (WB) Residential Autonomous Post Graduate College of Teacher Education Affiliated to University of Calcutta

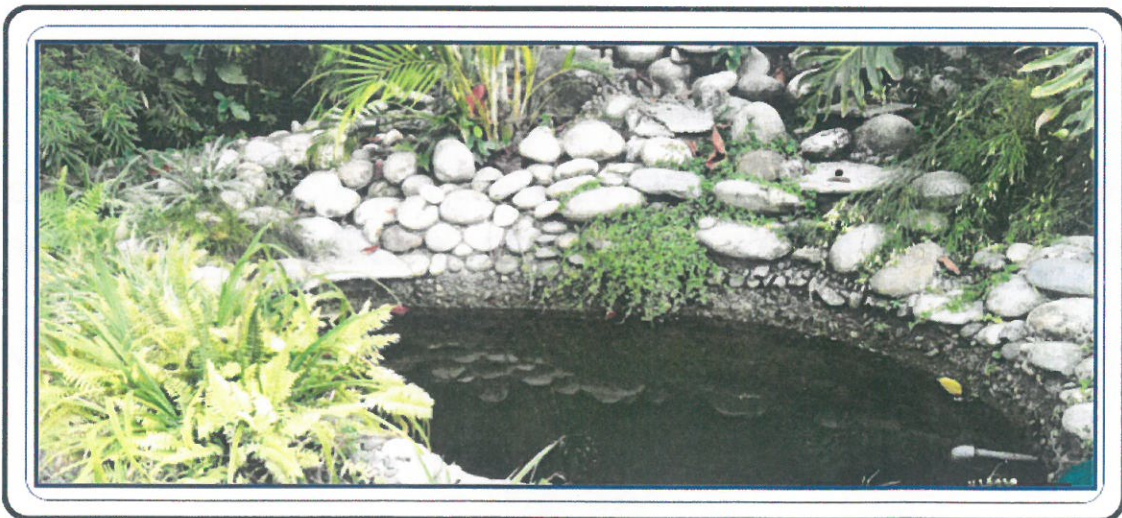
**College of Teacher Education (CTE)  
Accredited by NAAC with 'Grade A'**

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**BELUR MATH, HOWRAH, WEST BENGAL, PIN: 711202**

## Energy Policy of the College



## 1. Introduction:

माता भूमिः पुत्रोऽहं पृथिव्याः ।  
(Earth is my mother and I am her child)

Following the Sanskrit sloka, Sikshanamandira preaches and teaches the mantra of conserving energy for a sustainable future and also emphasises in providing its students a carbon-free environment friendly campus. The college follows a well-organised energy policy for monetary, environmental and social benefits which is described in the following passages -

## 2. Major Objectives:

1. Conservation of Energy
2. Use of Alternative sources of energy
3. Conservation of Water

### 2.1. Conservation of Energy

The conservation of energy is essential from an environmental perspective as it can help mitigate climate change, reduce pollution, preserve natural resources, protect ecosystems, and encourage sustainability.

### Institutional Policy of energy conservation:

1. **Energy-efficient lighting:** At Sikshanamandira, traditional incandescent bulbs are always replaced with energy-efficient LED lighting which consume less energy, have a longer lifespan, and provide better illumination.
2. **Energy-aware behaviour:** To raise awareness among students, faculty, and staff about the importance of energy conservation, Sikshanamandira regularly discusses and encourages turning off lights, computers, and other electronics when not in use and reminds everyone to conserve energy in their daily activities. The trainees are oriented and instructed to switch off the lights and fans at the time of leaving the classrooms. The last person to leave the room switch off the lights and fans is the everyday practice. All staff members are encouraged to keep their computers in automatic “sleep” mode when they are not in use. The computers should be turned off when not in use for prolonged periods.





3. **Energy-tapping maintenance:** Regular inspections of electric appliances and timely repairs are done to avoid energy wastage. New items are purchased based on their energy efficiency.
4. **Efficient Heating & AC System:** To reduce energy consumption and to ensure efficient functioning, all the heating and Air Conditioning systems are regularly maintained at Sikshanamandira. Cleaning of air filters, adjustment of thermostat settings etc. are frequently done to reduce energy consumption. Air leaks in air-conditioning machine ducts and rooms are checked and rectified periodically by the maintenance department.
5. **Green transportation:** At Sikshanamandira, the use of sustainable transportation options among students, faculty, and staff are encouraged by the administrators through exemplifying their own lifestyle. Bicycling or the use of public transportation are promoted to reduce the carbon footprint associated with commuting.

## 2.2 Use of Alternative sources of energy

1. **Renewable Energy Sources:** To supplement the institution's energy needs and reduce reliance on conventional energy sources, at Sikshanamandira College building solar panels of the capacity of 164 kWh was installed on 15 October 2019. This enables us to meet about 90% (2700 kwh) of our monthly energy consumption.
2. **Solar Water Heater:** In the main hostel building and the kitchen-cum-dining building solar water heater systems are installed which fully cover the need of the hot water throughout the year for cooking and bathroom use and reduces LPG and electricity consumption respectively.
3. **Bicycles and eBikes:** For local transportation, internship supervision etc. Sikshanamandira staff use bicycles and eBike which are cost effective and environment friendly as well.

## 2.3 Conservation of Water

Implementing water conservation strategies at Sikshanamandira helps reduce water consumption, lower utility costs, and simultaneously contribute to energy and environmental conservation also.

**Fixing leaks:** The Cleaning and maintenance staff must regularly inspect and repair leaks in plumbing fixtures, pipes, and irrigation systems,





knowing that even small leaks can lead to significant water wastage over time.

2. **Water-waste preventing practice:** To raise awareness about the importance of water conservation and encourage responsible water usage among students, faculty, and staff, Sikshaanamandira organises frequent seminars, lectures etc.
3. **Water-efficient fixtures:** Sikshanamandira always tries to install water-efficient fixtures such as low-flow toilets, faucets, and showers. These fixtures use less water without compromising on performance.
4. **Dual-flush toilets:** For new set-up or replacement of the old ones, dual-flush toilets are installed that allow users to choose between a lower water volume for liquid waste and a higher volume for solid waste.
5. **Rainwater harvesting:** Having a vast green covering with varieties of trees, plants and herbs including flower garden, medicinal plant garden and vegetable garden, Sikshanamandira requires a thorough source of water supply throughout the year. To meet this requirement, a Rooftop Rainwater Harvesting Plant of 8178 litres capacity is installed besides the main gate. Another Ground Rainwater Harvesting Tank of approximately 5000 litres has been constructed in the main garden area. The stored rainwater in these tanks are used both for gardening and drainage cleaning as well.
6. **Mulching:** During hot summer the garden-in-charge monitors that gardeners are mulching around the hibiscus, rose etc. plant beds to retain soil moisture and reduce evaporation.
7. **Water usage monitoring:** Pipeline water at Sikshanamandira is supplied by the Water Treatment Plant of Belur Math and it is not available for free. Water metres track the monthly water consumption and set the water bill accordingly. Therefore, regular monitoring of water usage by all stakeholders can help identify areas where conservation efforts are most needed.

By adopting these water conservation strategies, institution has been significantly reducing its water consumption, contributing to sustainable water management, and setting an example for students and the broader community.



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