

ST. DOMINIC'S COLLEGE, KANJIRAPALLY



(Affiliated to Mahatma Gandhi University, Kottayam)

Parathode P.O, Kanjirapally, Kerala - 686512

Phone: 04828 234340, e- mail: principalsdc@gmail.com

Website: www.sdck.in



NAAC ACCREDITATION CYCLE – 4 SELF STUDY REPORT - 2023

Supporting Documents for Criterion 7.1.2

**Report of activities for the implementation of the
Green initiatives document**

Submitted to



National Assessment and Accreditation Council

An Autonomous Institution of the University Grants Commission

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

REPORT OF ACTIVITIES FOR THE IMPLEMENTATION OF GREEN INITIATIVES DOCUMENT

1. Alternative Sources of Energy and Energy Conservation Measures

The institution has taken following measures for the conservation of energy:-

- The high wattage CFL bulbs are replaced with LED bulbs of low wattage, thereby reducing the usage of power by 90%. Also the equipments (like air condition, microwave, refrigerator, fans etc) used in the campus are energy star certified.
- Solar power system, one of the most-effective and renewable sources of producing energy, has been installed in our campus, producing an average solar energy of 5 KW. In addition to that a 20 KW solar power system has been sanctioned for installation under the RUSA scheme.

2. Management of various types of degradable and non-degradable wastes

The management of solid wastes has become a necessity to overcome the toxicity produced by such wastes. The institution facilitates several techniques for the management of degradable and non- degradable wastes.

- Recycling is one of the most popular and sort-out methods for managing non-degradable wastes. The materials like plastic, glass, metal are recycled in such a way to reduce the toxicity level in nature as well as to earn economic values.
- The campus is also equipped with color-coded bins for the collection of dry and wet waste products.

- The food wastes being disposed of are collected by a local authority to be used as animal feed in poultry farms.
- A portable compost/ Vermi compost system has been introduced by the institution for the purpose of turning organic wastes into high quality fertile manure to be used in our own gardens.
- DIY's, a recent trend of the 21st century, has inspired us to turn non-biodegradable waste items into something useful. As a result the broken basins, water closets (toilet) and similar items are re-used and replaced with plant pots. The reused materials have infused into the campus garden so well.
- For disposing of the used-up pens and refills we have installed pen boxes.

3. Water Conservation:

As rightfully said, "Water is a precious commodity", In order to conserve the water and ensure the sustainable usage of water resources, the institution has taken certain practical steps:

- Warnings and caution labels for educating the students to reduce the excess usage of water has been stuck on in the vicinity of every water source.
- A regular maintenance of the pipelines to avoid leakage of taps and faucets is carried out by the institution to overcome the issue of wasting water.
- Rain water harvesting techniques have been followed by the institution to preserve and make use of the rainwater. To collect the run-off water we have adopted methods namely, digging pits and groundwater recharge systems.

- The B.voc department of our institution has implemented precision farming for the purpose of their field work which in turn helps in reducing the overuse of water.

4. Green Campus Initiatives

As part of the Green Campus scheme the institution has strived hard to turn the campus into an eco-friendly campus. We have made all the possible alterations to make this campus a green hub of education centre. For the purpose of going all green, the institution started off with introducing gardens. The institution has focused on maintaining green landscapes by constructing

- Vertical garden
- Butterfly garden
- Herbal garden
- Botanical garden.
- Lotus and water plants Garden
- Miyawaki forest constructed within the Campus

With the initiative of the Botany department, the trees and plants of our campus are labeled with their botanical names with the sole purpose of educating the students and visitors about our rich flora.

- In order to please our mother nature, the campus adopted the scheme of social forestry, wherein we have raised a man-made forest.

- As part of being a plastic-free eco-friendly campus, the institution has made strict rules regarding the disposal of plastic wastes.
- The institution has also introduced aquaponic gardening with the ultimate aim of reducing the wastage of water by 90%. The overflowed water from the tanks are used for fish cultivation and the residual waste from the fish tanks are pumped out and released into the Herbal Garden.
- Having acknowledged the role of bees in our ecosystem the campus has been practicing Apiculture. The practice of rearing honey bees, efficient pollinators of our food crops as well as for wild flora, is a step towards balancing our complex ecosystem.
- Car pooling is also being practiced regularly by faculty.
- The corridors and open spaces are beautified with various plants.

The NSS, Bhoomithra Sena, Social Forestry Club and Botany Department organized distribution of tree saplings and institutional planting of trees. Awareness programmes on Bio Framing and environmental protection are carried out in the neighboring communities.
