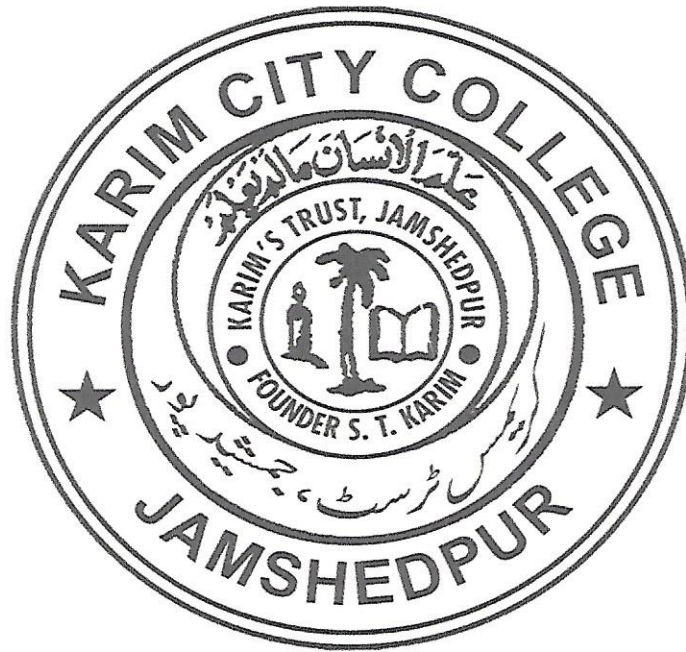


KARIM CITY COLLEGE, JAMSHEDPUR



Policy Document

on

Green Campus, Environment Initiatives, Energy Conservation

& Waste Management

Prepared by

INTERNAL QUALITY ASSURANCE CELL

Policy Document on Green Campus, Environment Initiatives, Energy Conservation & Waste Management

Green Campus Policy

INTRODUCTION:

The concept of green campus is an integration concept in the Education research and community service system in environmental management. Green campus is a combination of the environment and the campus world in its management. The concept of the environment which includes 3R (reduce, reuse, recycle), greening, EMS (Environmental Management System), ISR (Institutional Social Responsibility) and so on are combined with the campus concept which consists of the physical condition of the campus, campus location and the behaviour of campus residents. Basically, it's an eco-friendly practice to make the campus a better place to live in.

OBJECTIVES OF GREEN CAMPUS CONCEPT:

The college pledges to:

- The first step of the Go Green Programme involves establishing a viable Green-Campus Committee, within the organizational structure of the college.
- Hence, to give this initiative more clarity and authenticity, we now roll out a POLICY DOCUMENT spelling out the strategies, plans and other allied tasks to make this program functional officially.
- Greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs, correct disposal handling, purchase of environment friendly supplies and effective recycling program.
- The college has to work out the time bound strategies to implement green campus initiatives. These strategies need to be incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus.
- Our initiative will include working with students, faculty and support staff to foster a culture of self-sustainability and make the entire campus environment friendly. The Green Campus Initiatives (GCI) will enable us to develop the campus as a living laboratory for innovation.

LANDSCAPING INITIATIVE:

- Our college has a scarcity of open land space hence plantation to be carried out within the building area, all to be light weighted so that the college building need not bear additional potting weights.

CLEAN AIR INITIATIVE:

- Our college pledges to play its meagre role in reducing air pollution
- Maintain good green cover to enhance CO2 sequestration from campus.
- No vehicle day in a month to be initiated.

Environment and Energy Usage/Conservation Policy

The Environment and Energy usage/Conservation Policy of the college is to manage energy in such a systematic way so as to minimize its impact on the environment. The policy implies to explore the renewable energy resources to reduce the burden of electricity bills and to find out substitute natural resources as solutions to the energy crisis.

This environment and energy policy is binding for all the components of the institution and applies to all its stakeholders and to the various activities undertaken by the institution. It will help us to embed efficiency and environmental awareness into our everyday activities, thus helping us to realize our responsibilities and commitment to conservation of natural resources and to limit its usage. The Student Platforms of the college namely NCC, NSS, SPArC, Rotaract Club and Women's Cell etc. and even the academic departments, will be devoted to the cause of environmental awareness, to undertake green initiatives, and to conduct green literacy programmes to save energy and to protect the environment.

Policies:

- To assess our energy usage and measure its impact on the environment.
- To count CO2 emissions generated by our means of transportations- vehicles.
- To reduce local air pollution emissions using environment-friendly vehicles, including bicycles, public transportation and use of pedestrian-friendly roads.
- To install photovoltaic solar panels for the generation of alternate energy.
- To install LED bulbs in the complete campus to save energy.

- To develop systematic waste management mechanism.
- To develop rain water harvesting unit.
- To undertake tree plantation drive.
- To take additional measures to continuously improve our energy consumption.
- To develop and maintain an Environment & Energy Management System (EMS).
- To ensure the availability of necessary resources to achieve our objectives.
- To encourage use of advanced technology to minimize energy consumption, atmospheric emissions and noise, particularly from our vehicles.
- To engage in dialogue with the government agencies, municipal corporation, local bodies, NGOs and the affiliating university and actively work with the local organizations in the areas of environment, energy efficiency and sustainable development.
- To monitor and respond to emerging environmental and energy issues. To strengthen our employees' and students' environmental knowledge and skills in order to improve our own environmental performance.
- To provide information and training opportunities on energy saving measures.
- To offer opportunities for employees and students to engage in initiatives those contribute to environmental protection.
- To sensitise and train our employees and students through our Student Platforms or academic departments to make them 'Environment Lovers', 'Go Green Specialists' and partners to plant trees each year.

Karim City College recognizes the imperatives of sustainability in all aspects of its operations. As part of our commitment to environmental stewardship and responsible citizenship, we endeavour to establish and maintain a green campus that fosters ecological balance, resource efficiency, and environmental consciousness among all the stakeholders.

This policy document outlines our objectives, strategies, and guidelines to achieve a green sustainable campus environment.

Objectives

The primary objectives of this Green Campus Policy are as follows:

1. **Reduction of Carbon Footprint:** We aim to minimize greenhouse gas emissions across campus operations through energy efficiency measures, renewable energy adoption, and sustainable transportation initiatives. The college will install LED lights,

latest information technologies as LED display computers in classrooms and offices to reduce the carbon footprints

- 2. **Resource Conservation:** Our goal is to conserve natural resources, including water and energy, through efficient management practices and the promotion of sustainable behaviours among the campus community. The campus is compact yet maintains some green cover.
- 3. **Waste Reduction and Recycling:** We seek to minimize waste generation, maximize recycling rates, and implement responsible waste management practices to reduce the environmental impact of our operations.
- 4. **Biodiversity Preservation:** We are committed to preserving and enhancing the green cover on campus by protecting natural habitats, promoting native flora and fauna, and adopting ecologically sensitive landscaping practices.
- 5. **Education, Outreach Programmes & Environment Based Extension Activities:** Through our Student Platforms (NCC, NSS, SPArC, Rotaract Club, Women’s Cell etc.) and academic departments we strive to educate and engage students, faculty, staff, and visitors on environmental issues, sustainable practices, and the importance of individual and collective action for a greener future.
- 6. **Continuous Improvement:** We pledge to regularly monitor and evaluate our sustainability performance, set targets for improvement, and adapt our strategies to evolving environmental challenges and opportunities.

Strategies:

To achieve our objectives, the college will implement the following strategies:

- 1. **Energy Efficiency:** We implement energy-efficient technologies, upgrade building energy consumption and greenhouse gas emissions. L.E.D lights have to be installed.
- 2. **Renewable Energy:** The college explores and invests in renewable energy sources such as solar, to diversify our energy portfolio and transition towards a as solar based energy supply, to diversify our energy portfolio and transition towards a carbon-neutral campus.
- 3. **Sustainable Transportation:** The college will promote sustainable transportation options such as walking, cycling, public transit, and carpooling among its staff and students.

- 4. **Water Conservation:** We implement water-efficient fixtures, systems, and landscaping practices, monitor water usage, and promote water conservation behaviours to minimize water consumption and protect local water resources.
- 5. **Waste / E-Waste Reduction and Recycling:** The College implements waste reduction initiatives, increases recycling infrastructure, provides education and awareness programs on waste separation and recycling, and explores opportunities for composting organic waste.
- 6. **Education, Outreach & Extension:** We integrate sustainability principles into the curriculum, offer sustainability-focused courses and programmes, organize events and workshops on environmental topics, and engage the campus community through campaigns, competitions, and volunteering opportunities.
- 7. **Partnerships and Collaboration:** We collaborate with local communities, government agencies, non-profit organizations, and industry partners to leverage resources, share best practices, and advance regional sustainability goals.

WASTE MANAGEMENT POLICY

This Policy underlines our commitment with regard to sustainable waste management. It outlines a set of agreed aims and deliverables for all aspects of sustainability, including recycling and waste management.

The college adheres to the following principles of the waste management:

- Prevent - avoid creating waste
- Reduce – minimising the amount of waste produced
- Reuse – repair, refurbish or relocate items
- Recycle – promote segregation of waste to increase the quantity of waste recycled
- Recovery – send non-recyclable waste to energy recovery
- Disposal – this will only be used as a last resort if all other options are exhausted

Solid Waste Management:

- Measures shall be taken for minimal or optimal use of papers: Instead of taking hard copies of documents, keep in digital format as far as possible.
- Strategies to lessen the generation of paper waste are adopted: double-sided printing, printing in reduced font size, printing in "fast draft" mode etc.
- e-billing is promoted to reduce use of paper.
- Use of paperclips (over staples) is encouraged.
- Reusing of envelopes with metal clasps and file folders by sticking a new label over the previous one is promoted.
- Colour coded dustbin system is employed for segregation of solid waste: green dustbins for biodegradable wastes like food; blue dustbins for disposal of plastic wrappers and non- biodegradable wastes.
- Partial Food waste is used to generate fertilizer using the bio-fertiliser plant installed in the campus.
- Cleaning or emptying of dustbins is ensured at regular intervals daily.
- Sanitary napkins to be disposed in incinerators installed in the campus.

Liquid Waste Management: (Chemical Waste Management)

- Implement Lab Pack Service: The lab pack disposal process involves first identifying, categorizing, and segregating each chemical by type (solvent, acid, or base), re-packaging them, then depositing the packaged chemicals into a drum or a tank. (Black bin)
- Academic strategies are taken to reduce the amount of chemical waste generated in the laboratories.
- Promote existing reuse schemes and develop additional recycling schemes to stream more waste at source.
- Communicate effectively with our employees and students to increase engagement and participation in the recycling initiatives across campus

E-waste Management:

- Obsolete electronic & electrical devices are disposed through approved agencies.
- Purchasing of devices with increased life time is encouraged.
- The buyback policy of the retailers will be utilized to purchase new computers and batteries for out-dated computers and laptops.
- MoUs with relevant agencies are renewed time to time.

Guidelines:


To ensure the effective implementation of this policy, the college establishes the following guidelines:

1. **Compliance:** All campus departments, units, and individuals are expected to comply with this policy and actively contribute to its implementation.
2. **Responsibility:** The administration, in collaboration with relevant stakeholders, will oversee the development, implementation, and monitoring of sustainability initiatives and report on progress regularly.
3. **Engagement:** The campus community (students and teachers) are encouraged to actively participate in sustainability efforts through education, advocacy, and behavioural changes towards the eco-friendly activity in the college.
4. **Innovation:** We encourage innovation and creativity in finding sustainable solutions to campus challenges and welcome input and ideas from all members of the community.
5. **Continuous Improvement:** We will regularly review and update this policy to reflect advancements in sustainability practices, changes in regulations, and feedback from stakeholders. The college regularly updates the green and energy audit.


In **conclusion**, the college is committed to creating a green campus that serves as a compact model of environmental responsibility, innovation, and stewardship. Through collective action and collaboration, we will work towards a sustainable future for generations to come. We have

initiated a 'Green Campus Committee' under IQAC this academic year i.e. 2022-2023 to ensure the implementation of these policies on environment.

This policy will be communicated to the students and employees via internal communication channels, and will be made available to all the stakeholders on the institutional website. The Environment and Energy Policy, objectives and targets will be reviewed on a regular basis by the Enviro Club Convener and its members under the guidance of the Principal of the college.


05/12/2022

Assistant Coordinator, IQAC


8-12.22

Coordinator, IQAC


5/12/22

Principal