



**Re-accredited by NAAC with "B" Grade**

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K. Z. S. SCIENCE COLLEGE , BRAMHANI**

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## Green Campus Policy

### Perspective on Green campus

The Green campus initiative has gained importance and is vital for institutions to ensure self assessment. This self assessment would reveal the actual role of the institution in minimizing the problems regarding environment. Green campuses have worked on lowering their impact in damaging the atmosphere by offering sustainable environment for living. Such places promote green living amongst students by lowering use of energy & water resources.

Ever since the establishment of the KZS Science College everyone has put efforts to keep our campus green, clean and eco-friendly. Daily inspection, monitoring and assessment are carried out. But now an effort has been made to document these extracurricular activities done by the college.

KZS Science College was established in August 1992 by few learned people of Kalmeshwar who felt the need of quality higher education in Science. The college was named as 'Science College' then, offered a graduation course with core subjects: Physics, Chemistry & Mathematics (PCM group) for the students of nearby vicinity. Later in 1994, other subjects offering biology group with Botany and Zoology (CBZ group) were introduced. Soon after appropriate arrangements, in 2001, subject Computer science was introduced to keep pace with the growth and development of these rural students. The college affiliated to Nagpur University was run smoothly with all scholarly faculty members. In 2003, the Science College shifted to current premises at Bramhani as land for infrastructure development of college was received from one of the eminent personality from Kalmeshwar. The college is established on an agricultural land with an area of 18300 sq m = 4.5 Acres approximately. The total built-up area is around 2726,5874 sq m which includes college building, indoor stadium, women's hostel & gymnasium. A huge area (15573.4126 sq m) is left in its natural form and acts as a natural habitat for biodiversity and a large variety of species of grasses, herbs, shrubs and trees.


### Extent of Policy

All the three important aspects have considered for the extent of the policy which refers to The Green Campus, Energy conservation and Environmental consciousness. Such practices encourage students to take the lead in creating positive change for sustainable development.

The focus areas of this policy are:

- Clean Campus Initiatives
- Landscaping Initiatives
- Clean Air Initiatives
  - ✓ Smoking Free Campus
- Infrastructure
  - ✓ Installation of Solar Panels
  - ✓ Installation of Energy Efficiency Equipment
  - ✓ Water Conservation through Rainwater Harvesting System



  
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- Waste Management processes
  - ✓ Solid Waste Management
  - ✓ Liquid Waste Management
  - ✓ E-Waste Management
- Awareness Initiatives
- Environment-centric Student Societies and Department Activities
- Green Audit
- Energy Audit
- Plastic-Free Campus

### The main objectives of the Policy

- ✓ We at KZS aspire to protect and conserve ecosystems and resources around our area
- ✓ To ensure sensible use of environmental resources to meet the needs and aspirations of the present and future generations.
- ✓ To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- ✓ To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- ✓ To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- ✓ To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- ✓ To make the campus plastic free.
- ✓ To conduct environmental and energy audits from time to time.
- ✓ To minimize the use of paper in administration through having policy for E-governance.

### Policy:


#### Clean Campus Initiatives

At KZS we assure to actively coordinate cleanliness activities in the college and beyond the campus in harmony with the vision of Swachh Bharat Abhiyan.

We entrust with this Programme and ensure the following:

- ✓ Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives.
- ✓ The idea is to motivate them to contribute in a proactive manner.
- ✓ Activities under 'Swachh Bharat Abhiyan' will be a key component of all the community work being done by NSS volunteers of the college.
- ✓ Staff Members will be encouraged to participate in the cleanliness drive in the college campus.
- ✓ Events such as poster and slogan competitions, essay writing, spoken word poetry, speeches, skits on 'Swachh Bharat' will be organised.
- ✓ Rallies on themes connected with 'Swachh Bharat Abhiyan' in and around the college campus will be conducted to create mass awareness.
- ✓ Remove all kinds of waste material like broken furniture, unusable equipment etc.
- ✓ Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
- ✓ Conduct workshops on the 3Rs: Reduce, reusing and recycling of waste.
- ✓ Commit to manage waste and maintain clean campus especially during college events.



  
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## Green Landscape Initiatives

- ✓ Infrastructure building has its prime importance. Therefore, to ensure its value we at KZS keep the premises clean, green and healthy by offering tidy space for study, playground for outdoor events. Developing green campus landscapes improves its aesthetic value.
- ✓ Here tree plantations and medicinal plants have been mentioned to maintain the greenery of the college campus.
- ✓ With this we reach up to standards of 33 % green belt that helps in ensuring the Environmental Policy.
- ✓ The college campus is located on the State Highway 250 on a non-agricultural land about 4.5 Acres.
- ✓ Overall campus is located in an area of existing plant species enlisted approximately 48 types (species) trees. Plantation of these plants was done during construction of college building.
- ✓ Sapling plantation programs are being organized during the month of July and August in college campus and neighboring villages by NSS unit.
- ✓ This practice is continued every year which increases the greenery and restores indigenous species of the area.
- ✓ It is encouraging for the students and motivational for people of the village.
- ✓ Such eco-friendly environment helps to improve the air quality of the area with increased amounts of oxygen.
- ✓ A medicinal plant garden is developed with the help of Department of Botany. There are about 22 species of medicinal plants (26 species).
- ✓ Medicinal plants saplings are made for culturing. Thus creating a campus rich in biodiversity.
- ✓ The college commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by organizing annual tree plantation drives.
- ✓ Encouraging student societies to hold tree planting events.

## PFC (Pollution Free Campus)-Clean Air Initiatives


At KZS we promote such factors to ensure Pollution Free Campus:

- ✓ Convincing maximum students to deploy bus services & bicycles for commutation
- ✓ Mass transit/metros/carpool. "the sharing of a car ride by more than one person going to the same destination" has been inculcated by most of the employees of the institution
- ✓ Plan in action to encourage each one to observe one Sunday as 'No use of vehicle that day' in support of green environment.
- ✓ We do not include any smoking zone in our college premises.

## Infrastructural Initiatives

- ✓ Renewable Sources of Energy: The college believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy in the campus.
- ✓ Energy Saving and Energy Efficient Equipment such as solar lamps (installed on the ground)
- ✓ We have installed solar panels for environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies.
- ✓ Water Conservation through Rainwater Harvesting System
- ✓ To replenish the groundwater table, we have rainwater harvesting system. This practice helps in the replenishment and recharge of the groundwater.
- ✓ Waste Management Processes: Waste created like waste paper, spoiled food particles, plastic bags, chips packets, construction waste like cement waste, broken glassware, dust etc., such waste cannot be restored through reprocess and reuse.
- ✓ Hence solid waste generation and its management becomes a topic of concern to all.
- ✓ Proper handling of solid waste decreases the threats to everyone.



  
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✓ There has to be a minimal impact on the environment and is dedicated to reduce and manage the waste generated by the college campus.

❖ Solid Waste Management : With its aim to provide holistic education that also has a positive impact on the environment, the college will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- ✓ Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).
- ✓ Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- ✓ Reduce use of paper by supporting digitization of attendance and internal assessment records.
- ✓ Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- ✓ Encourage the students and teachers to use emails for assignment submissions.
- ✓ Take initiatives to spread awareness amongst students about Food wastage and ways of minimizing it.
- ✓ Minimizing the use of packaged food
- ✓ The habit of reusing and recycling non-biodegradable products
- ✓ Organizing workshops for students on solid waste management.
- ❖ Liquid Waste Management
- ✓ Maintain leak proof water fixtures.
- ✓ Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- ✓ Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc. liquid waste in the municipal drainage system by use of Grease trap mechanism.

❖ E-Waste Management

At KZS we ensure that its usage of technology and generation of e-waste does not impact the environment. For this purpose, the college plans to strive towards:

- ✓ More provisions for the disposal of the institutional e-waste.
- ✓ Collaboration with e-waste recycling companies to get electronic waste recycled.
- ✓ Awareness amongst students about reduction of e-waste and environment friendly disposal practices for e-waste.
- ✓ Encouraging department and society level activities pertaining to e-waste management.

### Conduct Green Audit

- ✓ The college aims to regularly conduct a Green Audit of KZS college campus to assess our strengths and weaknesses to further our goals of long-term sustainability.
- ✓ A green audit is a useful tool to determine how and where most energy or water or resources are being used.
- ✓ The college can then consider how to implement changes and make savings. It can determine the type and volume of waste.
- ✓ Recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of eco-friendly practices on campus.
- ✓ Green auditing will promote financial savings through reduction of resource use. It is imperative that the college evaluate its own contributions toward a sustainable future.



  
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### Conduct Energy Audit

- ✓ An Energy Audit is required to further reduce its carbon footprint.
- ✓ The importance of reducing energy consumption cannot be overstated.
- ✓ Installation of LED lights instead of Tube light to conserve the energy.
- ✓ More use of photovoltaic cells in the college premises.
- ✓ Sharing of equipments on the departmental level to conserve energy.
- ✓ Yearly servicing of Inverters, Generators and Water pumps is necessary.
- ✓ The energy audit, with its specialized tools will identify wastage of energy.
- ✓ Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the college will not be able to detect.
- ✓ These flaws often have easy and affordable solutions and provide significant savings.

### Plastic-Free Campus

- ✓ We at KZS intend to be Plastic Free but due to huge campus and students it is difficult but we find it as our duty to reduce this plastic waste. By inspection and cleaning the premises we have made our campus plastic free significantly. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus'.



  
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