



SETH RL SAHARIA GOVERNMENT PG COLLEGE, KALADERA JAIPUR, RAJASTHAN

Affiliated to University of Rajasthan, Jaipur
www.https://hte.rajasthan.gov.in/college/gckaladera

Policy Document on Environment and Energy Usage

Seth RL Saharia Government PG College, Kaladera, Jaipur, Rajasthan is committed to creating environmental awareness and making concerted efforts to pitch in its bit for environmental conservation. One crucial factor/ component in this is usage and management of energy. The dependence on energy in this technological era is enormous and therein lies the need for a conscious and consistent management of energy usage and tapping of alternate sources. And the college has formulated a policy which aims at a clean, green, plastic free, pollution free and reduced carbon footprint campus.

Besides the NSS, Rovers, Rangers, Anandam students, there is a Committee on Environment, an official platform devoted to the cause of environmental awareness and to undertake green initiatives.

OBJECTIVES & SCOPE

- Make the campus as well as the activities in college environmentally sustainable.
- Be eco-friendly and safe while not compromising on the essence and experience of student and academic life.
- Create green events and inculcate a more aware and sustainable attitude among the students.
- Reduce the amount of waste generated.
- Promote and utilize digital methods.
- To make the energy consumption of college more efficient.
- To ensure the hygiene and sanitation requirements in campus are maintained.
- To encourage awareness campaigns and promote greener attitudes through physical displays and educational curriculum.

प्राचार्य

सेठ आर एल सहरिया राजकीय पी.जी. महाविद्यालय
कालाडरा, जयपुर

Policies and Implementation

- To reduce CO₂ emissions generated by means of transportations- vehicles.
- Turn off unnecessary lights and use daylight instead.
- Use LED or compact fluorescent bulbs as much as possible.
- Switch off lights, fans in conference rooms, classrooms, lecture halls when they are not in use.
- Use the fans only when they are needed.
- Whenever possible, shut down computers rather than logging off.
- To develop systematic waste management mechanism.
- To develop rain water harvesting unit.
- To plant trees.
- To reduce local air pollution emission using bicycles, public transportation and use of pedestrian – friendly roads.
- To encourage use of advanced technology to minimize energy consumption, atmospheric emissions and noise, particularly from our vehicle fleets.
- Promote and encourage car pools.
- To engage in dialogue with the government agencies and actively work with the local organizations in the areas of environment, energy efficiency and sustainable development.
- To strengthen the staff 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 which contribute to environmental protection.

This policy will be communicated to the students and employees through formal and informal means 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 college.

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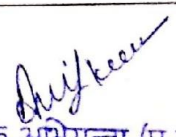
ENERGY AUDIT

Date of energy audit:	
Department/Building/Area covered:	Seth R. L. Saharia Government P.G.College, Kaladera (Administrative office Building ,Science Building, B.Ed. Block , New Block RUSA, Old Building, Library, Hostel)
Persons conducting audit:	Anil Kumar Garhwal Assistant Engineer (Civil) JVVNL
Normal occupancy hours of building:	10.00 AM to 5.00 PM (7.00 Hours)
Cleaning times:	9.00 AM to 10.00 AM

ENERGY AUDIT

1. Lighting

Are any tungsten lights present? Can they be replaced with compact fluorescents (energy saving bulbs) or LEDs? Look particularly in store rooms, uplighters, desk lamps etc.	Tungsten lights are present in some classrooms, corridors of old building, Science building, Hostel and Library. They can be replaced with CFL or LED. However newly constructed buildings like new building RUSA, NSB etc. are fitted with CFL, LED or tube lights. College is planning to replace tungsten lights with CFL/LED.
If there are several light switches, can they be labeled to make it more obvious which switches relate to which lights?	Almost all the light switches are labeled with permanent marker as T, B, F for tube light ,bulb, fan respectively to make it more obvious for user.
Can lights be switched off to make use of daylight? (e.g. lights parallel to windows or in corridors)	Yes, there is no need of lights in almost all the rooms of college in the daytime. Rooms have designed in such a way that maximum utilization of day light can be done.
If space is intermittently occupied (e.g. store rooms, toilets, kitchen areas, copying rooms, corridors) is there scope for automatic lighting controls?	Yes, automatic lighting controls can be used.
Are any external lights on during daylight hours?	There is no need of external lights during daylight hours in college.
Can the main lighting ever be switched off and desk lamps used instead?	Desk Lamps are not used in the college.


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Do any light fittings need cleaning?	Light fittings are cleaned regularly.
Do windows and skylights need cleaning to allow in more natural light?	Windows and skylights are cleaned on regular basis to receive more natural light.

2. Heating

What is the actual temperature in the space?	January is the coldest month in the Kaladera with an average temperatures of 15.5 C . So heating system is not necessary during college time.
Does the temperature vary much during the day?	
Are external doors and windows closed when heating is on?	
Are any window panes cracked or broken?	
If there is a roof space, is it insulated?	
Are blinds closed at the end of the day during winter to cut down on heat loss?	
Is heating or air conditioning on in unused spaces, such as cupboards, corridors?	

3. Cooling and ventilation

If there is air conditioning with local controls, make sure it is only on when necessary. Is it obvious how to control it? What temperature is it set to?	Temperature of a.c.s is usually set to 24-26 C to save energy.
Could the building make better use of the sun/shade to heat/cool the building? Perhaps by closing blinds or fitting reflective film to windows which reduce solar gain? Remember, unnecessary lights and electrical equipment also produce heat.	Glass pan of windows and ventilations are covered with papers or reflecting film during the summer to reduce solar gain.
Are all external doors and windows closed when air conditioning is on?	Doors and windows are made closed when air conditioners are on.
Are you making the most of natural ventilation? Opening windows overnight in the summer, where it doesn't present a security risk, will help cool the building down and reduce the need for air conditioning.	Due to security reasons windows does not left open during the night but to cool down the rooms windows and doors are made open at least one hour before the use of a.c.

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Is heating or air conditioning on in unused spaces, such as cupboards, corridors?	All the a.c.s are installed in used spaces i.e. rooms.
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4. Electrical equipment

Are computers, printers, photocopiers and other equipment switched off at the end of the day?	Yes, all computers, printers, photocopiers and other equipments are switched off at the end of the college time.
Can screens and other equipment be switched off during the day?	Computers, printers and other equipments are switched off when they are not in use during the day.
Can computers be programmed to 'power down' mode?	Yes
Can standby settings be avoided? (e.g. TVs, LCD projectors, printers etc.)	Yes
Are photocopiers, fax machines and other equipment on 'Energy Saver' mode during the day?	Photocopiers and other equipments are usually run on 'Energy Saver' mode.
Are photocopiers in a well ventilated area - not where there is air conditioning?	Photocopiers are placed in ventilated areas.
Is the office fridge/freezer defrosted regularly?	Office fridge/ freezer defrosted regularly.
Is the fridge thermostat working and set to the right temperature (2-4 °C)?	Fridge thermostat is in working condition and is being set to the right temperature.
Are microwaves switched off at the plug after use?	N/A
Is equipment clearly labeled so that staff know how to activate energy saving features or switch it off?	Yes

5. Water use

Is there any evidence of water leaks? (e.g. wet pathways on a dry day)	There is no evidence of water leaks. College regularly monitor water leaks and repair immediately if found.
Are taps left running? Are there any dripping taps? Do taps need maintenance?	No

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GREEN AUDIT FRAMEWORK AND DETAILED FINDINGS

The following audit framework is used for conducting Green Audit in 2021-22. The framework also lists the findings and observations for every criterion

Control objective.	Control(s)	Audit Observation
WATER MANAGEMENT	<p>Repair sources of water leakage, such as dripping taps.</p> <p>Regular checking and maintenance of pipelines are done to control water wastage. Minimize wastage of water and use of electricity during water filtration process, if used, such as Aqua guard filter</p>	<p>Yes, the college has aqua guard filters and RO installed at different sites and use efficient and hygienic water storage.</p> <p>Encourage to decrease excess water usage.</p> <p>Though water is used nominal in the college, but to ensure a further minimal rate, placards and warnings are set</p>
ENERGY MANAGEMENT	Look in to the possibility of on-site micro-generation of renewable electricity	The college also has ecofriendly generators for the supply of emergency electricity to save our ecosystem.
	Look in to the possibility of on-site micro-generation of renewable electricity.	The college has two KWA SOLAR PANNEL PLANT of 10.5 KW each.
	Give preference to the most energy efficient and environmentally sound appliances available, this includes only using energy-saving light bulbs	The college is using LED lights as much as practicable. Solar lights are installed as street lights in the campus.
	Encourage staff students and conference guests to save energy through visible reminders	Yes, the college has put several posters and reminder notes in classrooms and other relevant places to turn off electric appliances when not in use.
	Ensures that all electronic and electrical equipments, such as computers, are switched off when not in use and is generally configured in power saving mode when such option is available	Yes it is practiced

GREEN CAMPUS	Establish a Garden in the campus.	College already has a well maintained garden.
	Encourage the faculties and students to plant trees in the garden.	The college celebrates "Vriksharopan Mahotsv", an annual tree plantation program in the campus where students and teachers plant trees in the campus.
	Minimize the use of fertilizers and pesticides in college grounds, opting for the use of vermin compost produced on site wherever possible	Under The Krishi Vandan program moderate amounts of organic -fertilizers are used in the college and organic pesticides are also used.
	Dispose the chemical waste generated from the laboratories in a scientific manner	Non- toxic chemicals are included in institution's practical curriculum. Most of the waste generated is water-soluble and ultimately disposed through normal sewage system, diluted largely so biomagnifications is negligent.
WASTE MANAGEMENT	Compost, or cause to be composted, all organic waste, green waste and non-recycled collected from kitchens, gardens, offices and rooms.	The college has set up a vermi-compost plant that ensures proper treatment of all organic wastes.
	Recycle or safely dispose of dry wastes, computers and electrical appliances.	All dry wastes (paper, metal, glass, other dry waste, e-waste, etc.) are separated in different bins in the college and resell to the local vendor.
	Make specific arrangements for events, such as community events, seminars and conferences in order to both arise consciousness among students and others and also to minimize the waste produced and maximize what is recycled/reused	The college organized several seminar and community program by the departments, NSS, NCC, SCOUTS etc. to ensure both consciousness and awareness among students and community members.

	Dispose all waste, whether solid or otherwise, in a scientific manner and ensure that it is not released directly to the environment	Yes, the college disposes all wastes, whether solid or otherwise, in a scientific manner and ensures that it is not released directly to the Environment.
	To recycle and reuse of kitchen wastes (from canteen and hostels) and garden waste.	Kitchen wastes and garden wastes commonly are recycled to form nutrient rich quality organic manure for agricultural purpose.
Carbon Footprints	Ensure use of eco -friendly transport option	About 70% of the students and teaching and non teaching staff of the college use bicycle, public transport or pool vehicles as the main mode of transport. The college also encourages transport by bicycle to students.

Recommendations by the Committee:-

1. Proper monitoring of water management by providing Dust Bins to all the Departments and campus(Separate for dry and wet waste.
2. There should be permanent/ temporary plumber to make sure that there is no leakage in water pipes.
3. We have to make aware our students ,faculty / office staff to shut off lights after use.

Committee Members :

Dr. Rajni Meena, Head, Dept. of Chemistry

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Dr. H. L. Maurya. Head, Dept. of Geography

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Dr. Prenita Gupta, Head, Dept. of Botany

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Dr. Renu Singh , Asso. Prof. Botany

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Dr. Ruby Sharma , Asso. Prof. Chemistry

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Dr. Aparna Pareek, Dept. of Botany, UOR, Jaipur (University Representative)

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