

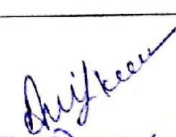
**ENERGY AUDIT**

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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