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An energy audit is recommended to determine the energy consumption associated with a facility and the potential savings associated with that energy consumption.

From a general point of view, an energy audit provides enormous benefits in different areas.

Objectives of Energy Audit

- \rightarrow To reduce energy costs.
- \rightarrow To reduce the dependency on energy sources.
- ➔ To reduce environmental damage and pollution.
- \rightarrow To increase the security of energy supply.
- → To reduce damage to the environment associated with the exploitation of resources.
- → To reduce the impact of greenhouse gas emissions.

Steps of Audit

- 1. Audit was planned in the IQAC meeting along with Green Audit held on: 22/10/2020
- 2. Audit Team: Anitha M Patil, Umesha, Shankrayya and Divya

Background information

- Energy consuming devices: 161
- Built up area:795.122sqmt
- Total no of employees:25
- Total no of students: 495
- Electricity bill summary: Rs2500/ Month

Energy Audit: Energy Consumption and Cost

S No.	Particulars	Findings		
1.	Energy consuming devices			
	→ Light bulbs			
	LED BULBS	05		
	• LED Tube lights	76		
	→ Fans	55		
	→ Computers	13		
	→ Printers	03		
	→ Projectors	03		
	→ laptops	02		
	→ Electric water Pumps	1		
	→ Biometric Equipment	1		
	Others Wi-Fi Routers	02		
2.	Average monthly electricity bill	Rs2500		
3.	Rooms get enough natural light	Poor Good Excellent √		

Measures initiated

To save energy, the college is using LED Tube lights. Energy consuming bulbs are not used in the college. All the staff and students are instructed to switch off the fans, computers, bulbs, water pumps, biometric when not in use. Students are strictly instructed to do proper usage of energy and energy saving measures.

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Principal Govt. First Grade College Irakalgada - 583287 Koppal Dist. Karnataka



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An Environmental Audit is an independent assessment performed to ensure organizations are complying with environmental policies. It examines the amount of harm or risk of injury that may be posed by the assessed entity and determines the types of pollution being produced by looking at a broad range of locations, activities, and procedures. The information compiled from these factors to determine what changes would need to be installed for compliance. Environmental Audits play a significant role in sustainability.

Objectives of Audit Environment

- To implement environment management policies.
- To control pollution.
- To improve safety and health conservations.
- To ensure waste prevention and reduction.
- To ensure internal as well as external value.

Steps of Audit

- Environment Audit was planned in the IQAC meeting along with Green Audit held on: 22/10/2020
- 2. Audit Team: Anitha M Patil, Umesha, Shankrayya and Divya

Background information

- Industries around 25 km
- Local drainage system
- Number of trees grown
- Vehicle free campus
- Waste management

Environment Audit:		
S No.	Particulars	Findings
1.	Factors for Healthy Environment	
	→ Industries near by	Around 25 km
	→ Well built drainage system	Yes
	→ Distanced from main road	150 meters
-	→ Trees Grown	66
	→ Air quality	Good
	→ Sound pollution	No
	→ Waste Management	Yes
	→ Automobile Free Campus	Yes
	→ Plastic Free Campus	Yes

Measures initiated

The college is placed 15 kms away from the district and also distanced from the main road which benefits and safe from the sound and air pollution. The college instructed for automobile and mobile free campus. A very good waste management has been followed using municipality van to have the clean surroundings. A very good green campus built for healthy air and also college took the oath of plastic free campus. The students, staff and principal office supervise and committed to the college instructions to ensure good environment.

Govt. First Grade College Irakalgada - 583287 Koppal Dist. Karnataka



Government of Karnataka Department of Collegiate Education GOVT FIRST GRADE COLLEGE Irakalagada-583287 Koppal District

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Green Audit 2020-21

The green audits are tools that organizations use to identify their environmental impacts and assess their compliance with applicable laws and regulations, as well as with the expectations of their various stakeholders. It also serves as a means to identify opportunities to save money, enhance work quality, improves employee health, safety and morale, reduce liabilities and achieve other form of business values.

Objectives of Green Audit

- 1. Understand the surrounding environment and find out the ways of co-existing in harmony.
- 2. To cut down the harmful effects on the quality of environment by the human activities.
- 3. To minimize the effects and sources of pollution.
- 4. To find out the best practices to promote the sustainability.
- 5. To increase the self-sufficiency.
- 6. Promote renewable energy usage and find out cost saving methods.
- 7. To suggest measures to improve biodiversity within the college campus.
- 8. To monitor the energy consumption pattern of the college.

Steps of Audit

- 1. Audit was planned in the IQAC meeting held on:22/10/2020
- 2. Audit Team: Anitha M Patil, Umesha, Shankrayya and Divya
- 3. Background information
 - Total Campus Area: 2.05Acres
 - Built up area: 795.122 sq mt
 - Total no of employees: 25
 - Total No of students: 495

Target Areas

- 1. Proper usage of water
- 2. Air quality
- 3. Energy consumption
- 4. Waste Management Techniques
- 5. Greenery

Audit Methodology

- On-site survey

Audit report on air quality and greenery

Sl.No	Particulars		Finding	<u></u> s
1.	No of plants			
	-trees	06		
	-medium	10		
	-Small	50		
2.	Carbon dioxide emitting sources			
	1. Vehicles			
	□ Four wheeler	01		
	□ Two wheeler	20		
	2. Incineration (burning)			
	Waste	Nil		
	3. Power back-up units	07		
	Others			
3.	Ventilation of rooms for quality indoor air	Poor	Good	Excellent $$

Measures initiated:

The NSS unit of our college has planted more than 60 saplings in the campus. The institution is planning to plant 50 more plants in the campus.

Sl. No	Particulars	Findings
1.	Water sources available in the campus	
	Wells	nil
	Bore wells	02
	Tanks	01
	Tap water	yes
2	Total no of taps	34
3	Leaking taps	Nil
4	Tank overflow is controlled by	CPVC pipe which is diverted to the plants.
5	Rain water harvesting adopted Roof top water harvesting Bunds Well recharge others	Roof top water harvesting
6	Water purifiers	00
7	Waste water outlets Wash room/toilet Kitchen Others	07
8	Waste water is Treated Untreated Recycled Diverted to plants others	Diverted to plants
9	Is the waste water of the campus polluting any water body?	No
1 0	Stagnant water leading to mosquito breeding?	No

Measures initiated:

The institution has made it mandatory for all faculties and students to save water and avoid the waste of precious resource. Care has been taken to ensure that there is no leakage in the taps.

Sl No	Particulars	Findings
1.	Energy consuming devices	
	Light bulbs	
	• LED	05
	LED Tube lights	76
	Bulbs	Nil
	□ Fans	55
	Computers	13
	Printers	03
	□ laptops	02
	\Box AC	Nil
		Nil
	OthersWi fi Routers	02
2.	Avg monthly electricity bill	Rs 2500
3.	Renewable energy sources utilised	-
4.	Rooms get enough natural light	PoorGoodExcellent $$ $$

Energy Consumption and Cost:

Measures initiated

To save energy, the college is using LED Tube lights. Energy consuming bulbs are not used in the college. All the staff and students are instructed to switch off the fans, computers, bulbs when not in use. Students are strictly instructed to do proper usage of energy and energy saving measures.

Waste Management

Sl. No	Particulars	Finding
1.	Waste generating points	
		Yes
	Classrooms	Yes
	□ Toilet	Yes
	□ Kitchen/pantry	Nil
	Laboratories	-
	□ Library	-
	□ Garden	Yes
	Outdoor	Yes
2.	Types of waste generated	
	□ Wet	Yes
		Yes
	Biodegradable	Yes
	Biomedical	Nil
	🗆 e-waste	Yes
3.	Disposal methods of waste	
	□ Wet	The wet waste generated in
		the toilet, wash basin is
		disposed
		in the drainage.
		Collected and put in the pit
	Biodegradable	Collected and put in the pit.
	Biomedical	Nil
	□ e-waste	There is no much electronic
		over to the vendor

Measures initiated:

Paper waste is sold to the vendor for the recycling purposes. Wet waste from the toilet disposed through drainage.

Observations:

Our college campus is having good number of different trees and still the efforts have been made to increase the number of trees. We are continuously planting various plants. There are no major polluting sources in the campus. The building has sufficient ventilation and light. The college has both bore well and taps water sources. No major e-waste is generated. The college needs to promote renewable energy usage. The college campus is center of attraction in the Irakalgada village.

Action Taken:

The college is making efficient utilization of water sources. The waste water from the institute is not polluting any water body. Major Steps have been taken that water is not stagnated in the campus. NSS unit is taking care of all the activities of green and clean campus. The institution has taken steps to save energy by using CFL bulbs. Students have dedicated themselves to serve voluntarily to make green campus initiatives and energy saving efforts.

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