




Green, Energy, & Environment Audit Report



**Raja Lakhamgouda Law College,
Belagavi**



PREPARED BY
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Green, Energy and Environment Audit Report

Raja Lakhamgouda Law College, Belagavi



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(An ISO 9001:2015, ISO 14001:2015 Firm)

GREEN, ENERGY AND ENVIRONMENT AUDIT CERTIFICATE

This Certificate is Presented To

Raja Lakhamgouda Law College, Belagavi.

Our team of Environmental Engineers visited the campus and analyzed Green, Energy and Environment practices followed by the college.

PRADEEP NAGAMALLI

B.E., M.TECH. (ENV. ENGG.)

NISARGA CONSULTANTS



Anita
Principal
R.L. Law College
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ISO 9001:2015 CERTIFICATE NO. 305022101038Q
ISO 14001:2015 CERTIFICATE NO. 305022101039E



Ref. No.: NC/2021-22/0801/GA

To,
The Principal,
Raja Lakhamgouda Law College,
Belagavi

Sub: Submission of Green, Energy and Environment Audit Report for your campus.

Respected Sir,

As per your request for Green, Energy and Environment Audit Raja Lakhamgouda Law College, Belagavi, our team of Environmental Engineers visited the above said premises on 13.08.2022. We have analyzed and taken all the necessary data required for Audit of the campus. After assimilated study of all the data and analysis, we hereby submit the 'Green, Energy and Environment Audit Report'.

Please feel free to contact us for any clarification. We expect a long term, healthy association with your institution in the future.

Thanking You, Assuring you of our best service always,

Pradeep Nagamalli
14/9/2022

Pradeep Nagamalli
B.E., M.Tech. (Env. Engg.)

Nisarga Consultants
Date: 14.09.2022



Amrta
Principal
Raja Lakhamgouda Law College
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Certificate

This is to certify that Nisarga Consultants, Belagavi has conducted '**Green, Energy and Environment Audit**' at Raja Lakhamgouda Law College, Belagavi on 13.08.2022. Our team of Environmental Engineers visited the campus and analyzed green practices followed by the college. Observations made during our visit and recommendations have been discussed with the college staff. Details of the same has been mentioned in the 'Green, Energy and Environment Audit Report'.

Pradeep Nagamalli

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Date: 14.09.2022



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Acknowledgement

We express our gratitude for calling upon us for this audit, mainly the Principal Prof. Dr. A. H. Hawaldar, who was the driving force. We also thank the team members, mainly Dr. Samina Baig and others, who were ever helpful and supported us with all the inputs needed for this entire audit.

Green Audit Team

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Sr. Environmental Engineer

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Sr. Environmental Engineer

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Associate Engineer

Mr. Kartik A., B.E., M.B.A.
Project Executive

Mr. Sadanand M., B. Sc.
Draftsman



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About the Institute

R. L. Law College has contributed the most competent personalities both to the Bench and the Bar. It has done yeoman service to the cause of legal education in this part of the country. It was started with a view, inter alia, to diffuse knowledge of law in the general public and to train graduates in law.

Within a short period, the college built up its reputation so well that students from many parts of the country sought admission to this College.

It was initially affiliated to the Bombay University, and after the establishment of Karnatak University, R. L. Law College was affiliated to the Karnatak University, Dharwad. It is now affiliated to the Karnatak State Law University, Hubballi. R. L. Law College is imparting education in the Three-Year Law Degree Course (LL.B.). And for Five-Year Law Degree Courses (B.A., LL.B. and B.B.A., LL.B.).

The College has also achieved excellence in academic and extra-curricular activities. Passing percentage of the students of R. L. Law College has always been significantly great compared that of the Karnatak State Law University. The College sportsmen and women have represented the University at Inter-University level and have exhibited their talents.

The College is situated in a spacious campus in Tilakwadi, a suburb of Belagavi. Teaching staff of the College is highly qualified, efficient, experienced and dedicated.



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Mission

To provide quality education and promote excellence of performance.

Vision

To provide law professionals with sound knowledge fit to face the challenge of this millennium.

Goals and Objectives

- To provide value-based professional education.
- To turn out disciplined law graduates of high proficiency.
- To enhance the status of legal profession.
- To undertake the activities incidental to the above objectives.



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Introduction to Green Audit

The green audit assists in analyzing environmental practices implemented within the educational campuses, which will result in achieving sustainable goals. Green audit comprises of systematic identification, quantification, recording, reporting and analysis of elements of environmental conditions in the premises.

Need for Green Auditing

Green auditing is the mode in analyzing and determining whether the institutions' day to day activities are environmentally friendly and sustainable for future generations. Primarily, we are good and efficient users of resources available naturally. Subsequently, excess use of energy, water, have become habitual to everyone.

Green audit provides an approach to check whether

- Our processes are consuming more resources than required?
- Whether we are handling resources carefully?


Continuous monitoring of such processes regulates and gives an efficient way of natural resource utilization.

Recent issues such as drastic climatic changes and depletion of non-renewable resource are of greater concern. To combat such issues at institute/college level, it is needed to check the processes and change them into greener and cleaner one. Green audit also increases overall consciousness among the people working in the institution towards a sustainable environment.

Goals of Green Audit

Our team has conducted a green audit with specific goals, such as:

- Recognizing and documenting of green practices followed by the institute.
- Note strength and weakness in green practices presently followed.
- Analyze and suggest solution for the drawbacks identified.
- Evaluate facility of different types of waste management.
- Increase environmental awareness throughout campus.


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- Inspire staff for optimized sustainable use of available resources.

Objectives of Green Audit

- To inspect the current practices, which can impact the environment.
- To recognize and analyze significant environmental issues.
- Establish and implement Environment Management in various departments.
- Continuous evaluation for betterment of performance in this regard.

Benefits of Green Audit to Educational Institutions

There are many advantages of green audit to an Educational Institution:

- It would help to protect the environment in and around the campus.
- Empower the organization to frame a better environmental performance.
- It portrays good image of institution through its clean and green campus.


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Executive Summary

A Green Campus or an Eco-friendly Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. It is a campus which is sustainable because of its resource utilization and minimum waste discharge into the environment. Green Audit or Environmental Audit is an assessment of the extent to which an organization is observing practices which minimize harm to the environment. It assesses the campus performance in complying with applicable environmental laws and regulations. This audit report comprises of observations and recommendations for improvement of environmental conditions in the campus. It mainly focuses on the environmental management plan in the campus with environmental factors like quality of water, ventilation, vegetation, waste management practices, consumption of energy, harmful radiations of the campus, etc.,

For this purpose, to assess the quality of the different environmental factors, samples were analyzed at different places in the campus, viz., water quality, light intensity, air quality, noise pollution and electro-magnetic radiation. The data which was collected were assorted, scrutinized, analyzed and documented. Campus related preliminary interviews with the concerned staff were conducted. Student interaction also was carried out for this purpose. A report based on all these studies with regards to an environmental management plan at the campus with recommendations for further improvement is prepared.


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Objectives and Scope

The purpose of this audit was to note that the campus follows environmental friendly approaches in its regular routine. The implementation of these methods are done in the campus, across all departments, administrative bodies and students and were analyzed.

Following issues were noted during our visit:

- Present conditions at the campus.
- Environmental education through systematic environmental management approach.
- Improving environmental standards.
- Benchmarking for environmental protection initiatives.
- Sustainable use of natural resource in the campus.

Based on the available data, sampling and information provided by the college staff and officials, this report has been prepared and recommendations for betterment of campus environment are provided.

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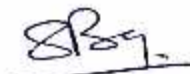
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Summary of Findings

The main findings of the audit show that, all the students are aware about the need for environmental protection at a general level. It was also observed that a number of best practices such as water conservation, cleanliness, waste segregation, e-waste management, plantation, etc., are followed in the campus. There is also NSS unit, actively involved in environment related activities.

However, on detailed review, it was observed that, the college is following green practices at various levels. But certain processes could benefit from further review in order to improve their efficiency, fairness and consistency.


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Infrastructure and college details

- The college has sufficient infrastructure for curricular and co-curricular activities.
- Rooms - classrooms, auditorium, moot court, library, computer labs, staffrooms, ladies' rooms, gym, etc.,
- Sufficient reading materials for students.
- Administrative block such as principal chamber, office room.
- Green cover area with leaf compost area and so on.
- Underground and overhead water tanks.
- Computers with internet facilities in office, principal chamber, computer labs and library.


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Waste Management:

Anthropogenic activities generate waste, and it is the way these wastes are managed and disposed of, which can cause risks to the nature and to health. Waste generated causes pollution which is unpleasing and results in large amounts of litter which in turn cause environmental problems. Solid waste is generally classified into three categories: bio-degradable, non-biodegradable and hazardous waste.

Bio-degradable wastes include food wastes, canteen waste, wastes from toilets, etc.

Non-biodegradable wastes include what is usually thrown away in homes and schools such as plastic, tins and glass bottles, etc.,

Hazardous waste is waste that is likely to be a threat to health or the environment like chemicals from research labs, batteries, etc.


Improper handling of these wastes such as dumping in pits or burning them, may cause harmful discharge of contaminants into soil and water supplies. Special attention should be given to the handling and management of such waste generated in the institutions.

Observations:

In this campus, the waste generated is managed as mentioned below:

Bio-degradable Waste:

- Dry leaves from plants and trees are collected in a dry leaf compost area. The dry leaves turn into compost, this compost is used in the campus for plants and trees.
- Bio-degradable waste (sewage) from toilets is connected to City Corporation UGD.
- E-waste is collected at the institute in designated boxes.


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Non-Bio-degradable Waste:

- Paper is sent for recycling.
- Plastics generated by the campus is collected by the waste collection vehicle of the City Corporation.

Lab/E-Waste:

- E-Waste is sent to the parent society. A central pickup system by the Karnataka Law Society is followed.

Recommendations:

Based on the observations made during our site visit, following recommendations have been made by us:

- More educational posters related to water conservation, waste minimization, waste segregation can be added in the campus to create awareness.
- Scientific method of composting of dry leaves is needed.
- E-waste can be sent to a certified recycler.
- More dust bins shall be placed.

Sl. No.	Details	Remarks
1	Wastewater Source	Toilets and canteen
2	Use of waste water	No
3	Fate of waste water from labs	NA
4	Weather waste water from labs is mixed with other wastewater sources	NA
5	Any treatment for lab waste?	NA

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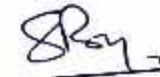
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To educate about proper disposal of menstrual waste and promote the Swachh Bharat Mission, sanitary pad vending machines and incinerators are installed in ladies room.


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Energy Management:

Energy management is an important aspect in institutions. Saving of electric power is a major part to minimize the greenhouse gas emissions to the environment. This can be achieved by using 5 star electrical appliances. Renewable energy can be harvested and be used in the campus.

Sl. No.	Month	Course	Units Consumed	Total Bill (Rs.)
1	Sept. 21 to Nov. 21	3 yr law	150	3938.00
		5 yr law	461	11767.00
2	Dec. - 21 to Mar. 22	3 yr law	132	13203.00
		5 yr law	1803	43444.00

Observations:

- Solar water heaters have been installed in Ladies hostel.
- LED bulbs and lights have been installed at various places.

Recommendations:

- Solar panels can be installed on rooftop to harvest solar power.
- More LED lamps can be added to save energy.


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Diesel Generators for power backup

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Solar water heaters have been installed at Ladies Hostel

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Location	Tube Light	Fan	Switch	LED Bulb /Tube	Plug Points	Projector	AC
Administrative Block-Ground Floor	1	2	20	27	14	0	2
Administrative Block-First Floor	13	9	16	2	6	0	
Administrative Block-Second Floor	13	9	15	2	5	0	
Main Building - Hall No 1	12	7	19	0	4	1	
Main Building - Hall No 2	13	6	19		4	1	
Main Building - Hall No 3	13	6	19		4	1	
Main Building - Hall No 4	13	6	20		5	1	
Main Building - Hall No 5	9	4	13		3		
Main Building - Hall No 6	7	4	10		3		
Main Building - Hall No 7	7	4	10		3	1	
Main Building - Hall No 8	8	4	12		3		
Library Stack Room	23	13	35	4	23		
Library Reading Room	30	16	38		49		
Library Hall No 9	6	5	11	1	3	1	
Library Hall No 10	6	5	11	1	4	1	
Library Record Room	16	10	25		10		
Library -Toilet	4		1	1	6		
Gym							
PJB - Staff Rooms	0	23	291	72	235		
PJB - Hall No. 29						1	
PJB - Hall No. 30						1	
PJB - Hall No. 31						1	
PJB - Hall No. 32						1	
Generator 25 KV - 1							
Total	194	133	585	110	384	11	2

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Water Management

Quality and Quantity of water is one of the most important parameters in a Green Campus. Water Quality and Quantity differs from place to place depending on the condition of the water source from which it is drawn. Presence of contaminants in the water can lead to health issues of the consumers. Basic monitoring of the quality of water is necessary from the health point of view of the campus occupants. Meticulous Water Management plan of the water available is also imperative for sustainable resource utilization.

Observation:

1. The main source of water for the campus is bore well and city corporation water supply with sufficient water for the college throughout the year. The water is taken to the underground tank, then pumped to overhead tanks situated on the top floor of the building and then supplied. Drinking water sample from the Filter cum Cooler was tested for TDS, temperature and pH.
2. Roof Top Rainwater harvesting is done for further sustainability of water in the campus. Rain water recharge pit is constructed in garden area of the institution.


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Sample	Inlet			Outlet		
	TDS (ppm)	pH	Temperature (°C)	TDS (ppm)	pH	Temperature (°C)
1	250	7.2	27	110	7.1	24
2	245	7.2	27	100	7.1	24
3	240	7.3	26	110	7.2	23
4	250	7.1	27	110	7.1	24

Recommendations:

- Periodic inspection of water filters has to be carried out.
- Periodic inspection of rainwater harvesting pit has to be done.


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Sl. No.	Details	Remarks
1	Source of water	Borewell and city corporation water supply
2	No. of Wells/Borewells	1 borewell
3	No. of motors used	Yes
4	Depth of open well -Total	200 feet
5	Any water wastage?	No
6	Water usage for gardening	Yes
7	Availability of drinking water filters	Yes
8	Rain water harvesting available?	Yes
9	No. of units and amount of Rain water harvested	1 recharge pit
10	Any leaky taps	No
11	Are there any signs reminding peoples to turn off the water?	No


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Borewell, Source of water



Underground water tank

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RO Drinking water filter



Rainwater harvesting plot

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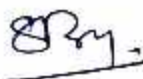
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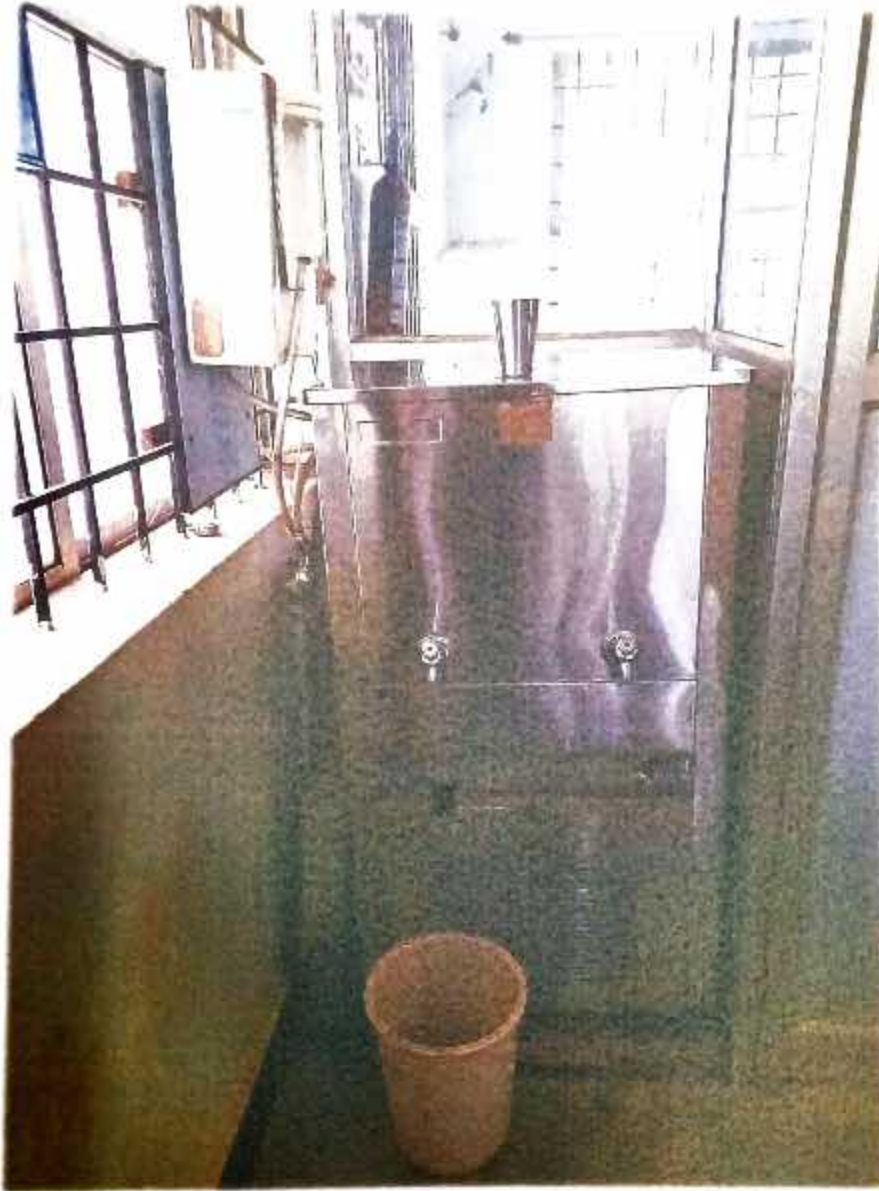

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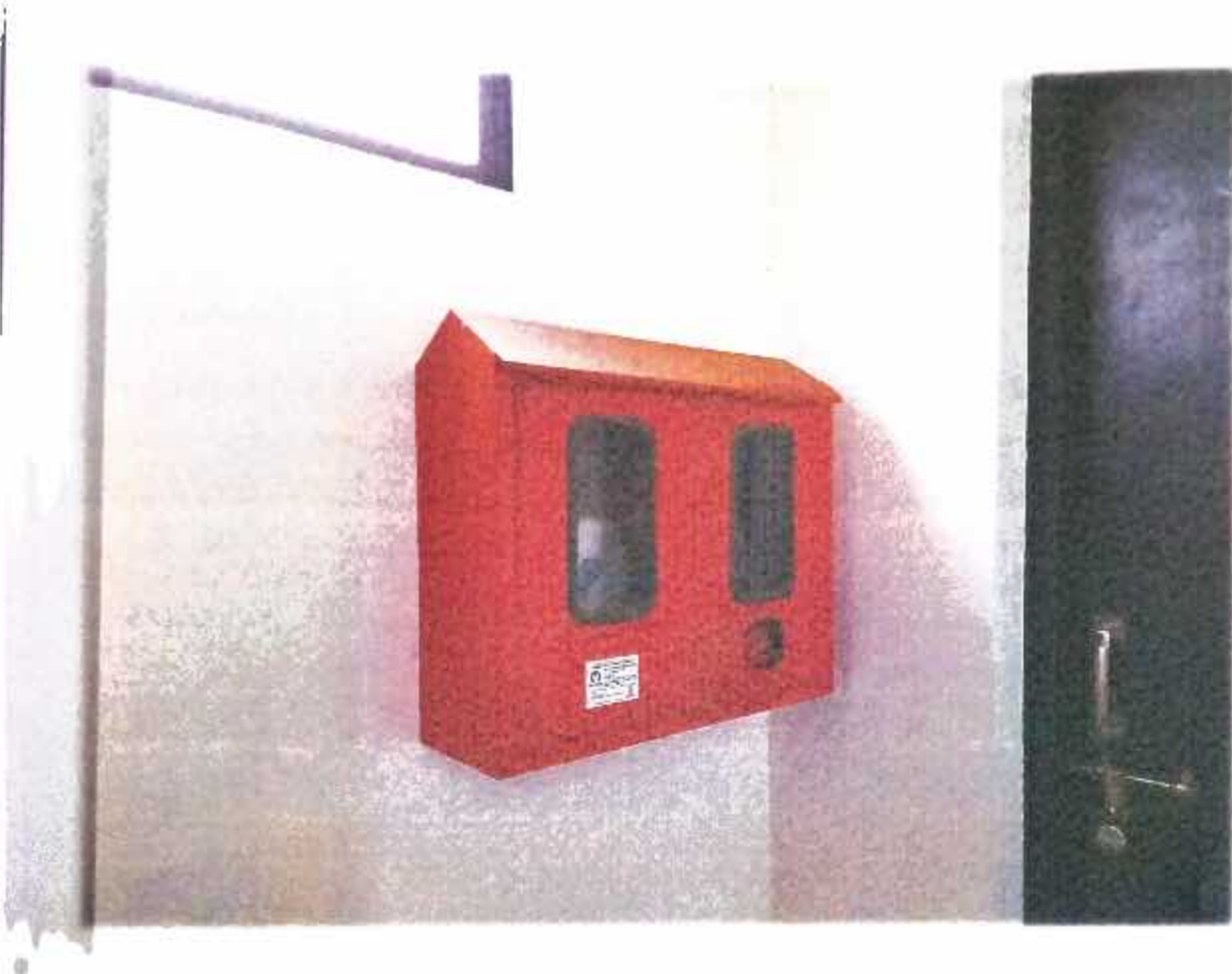
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Firefighting hose pipe

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Green Cover

Plants and trees are essential for any educational institution. Green cover makes the campus aesthetically pleasing and also helps in providing good environment for the students. Planting saplings and maintaining the same has to be done periodically.

Observations:

This campus has a green area with various plants and trees of different species. The NSS unit of the college have been moving a step towards creating a greener campus with different programs and plantation activities. The campus is rich in biodiversity.


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The list of few trees/plants is as follows:

Sl. No.	Name	Botanical Names	Number
1.	Mango	Mangifera Indica	2
2.	False Ashoka	Polyalthia Longifolia	2
3.	Banana	Musa Species	3
4.	Rain tree	Albizia saman	1
5.	Bottle Palm	Hyophorbe Lagenicallus	1
6.	Aboli	Crossandra infundibuliformis	2
7.	Jack fruit	Artocarpus heterophyllus	1
8.	Cashew	Anacardium occidentale	1
9.	Ornamental ficus	Ficus benjamina	4
10.	Hibiscus	Rosa sinensis	3
11.	Sandal wood	Santlaum album	1
12.	Bakul	Mimusops elengi	1
13.	Sps 2 bigger palm ornamental		2
14.	Golden palm		14
15.	Banyan	Ficus benghalensis	1


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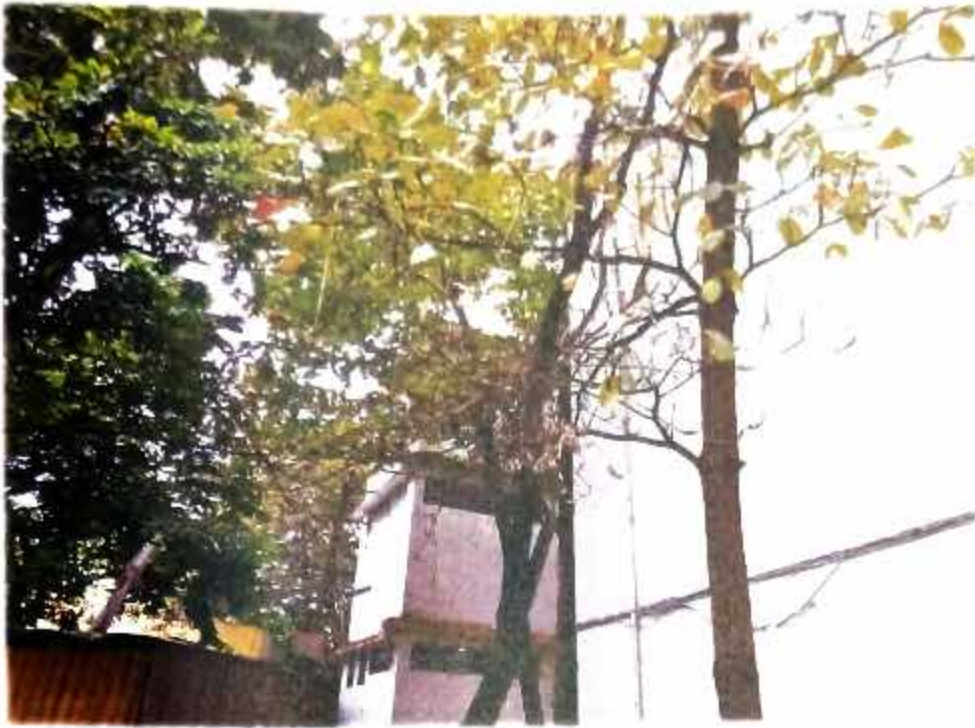
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Air Quality

Air quality plays a major role in day to day life. People spend more time indoors. Indoor air quality is the air quality within and around buildings and structures. Indoor air quality is known to affect the health, comfort, and well-being of building occupants. Poor indoor air quality has been linked to sick building syndrome, reduced productivity, and impaired learning in schools and colleges.

Observations:

Particulate matter was measured in all the classrooms, staff rooms and library, etc., It was observed that the concentrations of PM 1, PM 2.5 and PM 10 were found to be negligible at that instant.

Sl. No.	Room			
		PM 1	PM 2.5	PM 10
1	Principal Chamber	6	9	13
2	Office	8	12	14
3	Ladies room	4	7	15
4	Record room	4	8	15
5	Classroom	5	10	12
6	Classroom	4	9	11
7	Classroom	4	8	15
8	Classroom	3	9	14
9	Classroom	4	7	11
10	Classroom	3	8	16
11	Classroom	3	9	15
12	Classroom	3	9	14
13	Library block	4	10	13
14	Seminar room	4	11	12
15	Old books store room	4	12	15
16	Reading room	3	8	18


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17	Library stack room	4	8	19
18	Gym	5	8	19
19	Basement	4	9	19
20	Staffroom	4	9	11
21	Moot court hall	3	9	14
22	Classroom	4	9	14
23	Classroom	5	10	15
24	Classroom	5	10	15
25	Classroom	5	10	13
26	Auditorium	4	9	13
27	Classroom	3	9	15
28	Classroom	3	8	14
29	Classroom	3	7	14
30	Classroom	4	8	15

The readings mentioned above are measured at that instant.


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Light

The main part of the learning process is visual. The classroom is an arena for many activities, such as reading and writing, student or teacher presentations, tests, etc., hence, light plays a major role in classrooms. Well lit classrooms are utmost essential in colleges. Working desks of the students require a minimum of light of 200 lux. Further, there may be certain zones that require specialized lighting. For example, the area in front of the board should have proper and separately switched presentation lighting.

Observations:


It was observed that all the Classrooms are well lit. The light intensity was observed to be ranging from 250 lux to 350 lux.

Sl. No.	Room	Light intensity in lux
1	Principal Chamber	270
2	Office	270
3	Ladies room	280
4	Record room	330
5	Classroom	310
6	Classroom	320
7	Classroom	300
8	Classroom	320
9	Classroom	310
10	Classroom	300
11	Classroom	290
12	Classroom	295
13	Library block	325
14	Seminar room	315
15	Old books store room	250


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16	Reading room	350
17	Library stack room	310
18	Gym	290
19	Basement	250
20	Staffroom	300
21	Moot court hall	300
22	Classroom	310
23	Classroom	305
24	Classroom	315
25	Classroom	325
26	Auditorium	330
27	Classroom	310
28	Classroom	320
29	Classroom	320
30	Classroom	330


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Noise

Noise is unwanted sound considered unpleasant, loud or disruptive to hearing. Unwanted sound is not preferred in any classroom. The Noise levels in the class room should be below 35 dB in an unoccupied classroom. Higher levels of noise in the classroom may distract the students.

Observations:

Noise levels were measured in the classrooms and were found to be in the range of 30 dB to 55 dB in an unoccupied classroom. The noise levels in classrooms with students were ranging about 55 dB to 85 dB.

Sl. No.	Room	Noise in decibel	
		Minimum	Maximum
1	Principal Chamber	60	65
2	Office	65	75
3	Ladies room	80	70
4	Record room	50	55
5	Classroom	60	65
6	Classroom	60	65
7	Classroom	55	60
8	Classroom	60	65
9	Classroom	65	75
10	Classroom	50	65
11	Classroom	55	65
12	Classroom	60	75
13	Library block	50	60
14	Seminar room	65	70
15	Old books store room	65	75
16	Reading room	50	60


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17	Library stack room	40	60
18	Gym	45	55
19	Basement	50	60
20	Staffroom	60	70
21	Moot court hall	65	85
22	Classroom	55	60
23	Classroom	50	55
24	Classroom	55	65
25	Classroom	45	60
26	Auditorium	55	70
27	Classroom	45	65
28	Classroom	40	55
29	Classroom	30	45
30	Classroom	40	60


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Electro Magnetic Radiations

Electromagnetic radiation (EMR) consists of waves of the electromagnetic (EM) field, propagating through space, carrying electromagnetic radiant energy. EMR is generated by electronic devices and constant exposure to EM radiations is not advisable.

Observations:

Electromagnetic radiations were measured in all the classrooms, staff rooms, and library. It was observed that the Electromagnetic radiations were zero in all these places.


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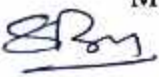
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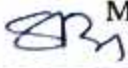


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NSS Activities

NSS wing of the college conducted various activities related to environment throughout the year.



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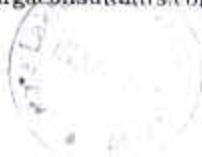

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