

# GREEN AUDIT REPORT (2020-21)



**BABU ANANT RAM JANTA COLLEGE, KAUL (KAITHAL)**

## **Executive Summary**

The quick urbanization and monetary advancement at the neighborhood, territorial and worldwide levels have prompted a few natural and biological emergencies. On this foundation, it gets fundamental to receive the arrangement of the Green grounds for the establishment which will lead for the economical turn of events.

Babu Anant Ram Janta College, Kaul (Kaithal) is profoundly concerned and genuinely accepts that there is a pressing need to address these essential issues and converse the patterns. Being ahead establishment of higher learning, the college has started The Green Campus' program since the initiation of the college that effectively advance the different tasks for climate assurance and supportability.

The reason for the review was to guarantee that the practices continued in the grounds are as per the Green Policy embraced by the organization. The methodology includes: physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. A committee has been constituted for this purpose with the experts in this field. One geographer and one is a prize winner member of the prestigious award 'Green Man'. It takes a shot at the few realities of 'Green Campus' including Water Conservation, Tree Plantation, Waste administration, Paperless work, Alternative Energy and Mapping of Biodiversity. In view of this, the particular goals of the review are to assess the sufficiency of the administration control system of natural supportability just as how much the Departments are in consistence with the pertinent guidelines, arrangements and principles. It can have a gigantic effect on understudy wellbeing and learning college operational expenses and the climate. The measures, techniques and proposals utilized in the review depended on the distinguished dangers.

## **Introduction**

Green Audit can be characterized as orderly distinguishing proof, evaluation, recording, announcing and examination of segments of natural variety. The 'Green Audit' plans to examine natural practices inside and outside the college grounds, which will affect the eco-accommodating mood. It was started with the thought process of reviewing the work directed inside the associations whose activities can make hazard the wellbeing of occupants and the climate. Through Green Audit, one gets a course as how to improve

the state of climate and there are different components that have decided the development of completing Green Audit.

The green audit is assigned to the criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India which declares the institutions as Grade A, B or C according to the scores assigned during the accreditation.

### **About the College**

Babu Anant Ram Janta College, Kaul (Kaithal) is a NAAC accredited co-educational college having six streams i.e. B.A, B.Com, B.SC (Non-Medical), B.Sc (Sports), D.P.Ed and DSPC. The college is situated at Kaul. There are different blocks for different faculties.

The college has adopted the 'Green Campus' system for environmental conservation and sustainability. There are main three pillars i.e. zero environmental foot print, positive impact on occupant health and performance and 100% graduates demonstrating environmental literacy. The goal is to reduce CO2 emission, energy and water use, while creating atmosphere where students can learn and be sound. The college organization takes a shot at the few features of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, and Alternative Energy.

### **Objectives of the Study**

The principle target of the green review is to advance the Environment Management and Conservation in the College Campus. The motivation behind the review is to recognize, evaluate, portray and organize system of Environment Sustainability in consistence with the relevant guidelines, approaches and norms. The primary targets of doing Green Audit are:

- Awareness among the students to real concerns of environment and its secure sustainability.
- Secure the climate and slice down the dangers presented to human wellbeing by examining the example and degree of asset use on the grounds.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
- To draw out a status report on ecological consistence.

## **Methodology**

To play out a green review, the approach included various instruments, for example, an actual examination of the grounds, perception and audit of the documentation, talking with key people and information investigation, estimations and proposals. The study covered the following areas to summaries the present status of environment management in the campus:

- Water management
- Energy Conservation
- Waste management
- E-waste management
- Green area management

## **Observation and Recommendations**

### **Water Use**

This marker tends to water utilization, water sources, water system, storm water, appliances and fixtures. A water review is an on-location study and evaluation to decide the water use and consequently improving the proficiency of its utilization.

### **Observations**

It is observed that submersible pump and government water supply are the main sources of water using in the college. It is used for drinking purpose, toilets, canteen, gardening and Water in laboratories. During the survey no loss of water is noticed, neither by any spillages nor by the flood of water from overhead tanks. The information gathered from all the departments is analyzed and checked.

By and large, the approximately utilization of water in the college is 10,000 L/day, which incorporate 4,800 L/day for homegrown purposes, 5,000 L/day for planting and 200 L/day for various laboratories.

### **Recommendations**

Need for observing, controlling overflow is mandatory and regular monitoring of drill system is required. In the college campus little Scale/medium scale/huge scale reuse and recycle of the water framework is essential.

Minimize wastage of water and utilization of power during the water filtration measure, whenever utilized, for example, RO filtration measure and guarantee that the gear utilized for such use is consistently overhauled and the wastage of water isn't underneath the industry average for such hardware's utilized in a comparable limit.

Ensure that all cleaning items utilized by the college staff have a negligible effect on the climate, i.e. are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations.

### **Energy Conservation**

It includes valuation to energy consumption, energy sources, energy observing, lighting, apparatus, petroleum gas and vehicles. Energy use is plainly a significant part of campus maintainability and along these lines requires no clarification for its consideration in the appraisal.

### **Observations**

It is observed that electricity is the main source of the energy used by all the teaching and non-teaching departments include Library. Total electricity consumption is approximately 12000 KWH/Year by the equipments used in the college campus.

All the departments and common facility centers are using fluorescent tube lights but the tube lights are replacing with LED lights as and when they need to replace. CFL are also in counting during survey but they are in less quantity. Equipments like Computers are used with power saving mode. Buildings in the campus are constructed in a manner that the sun light during class time comes directly in the class rooms and library. It is also observed during the survey that shut down of power after occupancy time is one of green practices for energy conservation.

### **Recommendations**

- Installation of LED lamps in place of CFL and Fluorescent Tube Lights.
- Backing sustainable and carbon-neutral electricity choices on any energy buying consortium, with the point of providing all college properties with power that can be ascribed to inexhaustible and carbon-neutral sources.
- Install alternate renewable energy equipments.

- Photovoltaic cells should be installed.

### **Waste Material Management**

It indicates waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, glass, dust etc for recycling. Moreover, strong waste regularly incorporates squandered material assets that could somehow or another be directed into better help through reusing, repair, and recycle. Strong waste can be a threat to everyone if not handled scientifically. The study is based on the current management of the solid waste generated in the campus. The different solid wastes collected from the campus are mentioned above.

### **Observations**

The total strong waste gathered in the grounds is 20 Kg/day. Most of the part of the solid waste generated from tree droppings and lawn management in the campus. Use of plastic articles is banned in the campus. The waste is isolated at the source into Bio-degradable and Plastic waste. Isolation of compound waste created in science labs also in practice. Single-sided utilized papers reused for writing and printing in all divisions. Significant and classified reports/papers are sent for pulping and reusing after fulfillment of their protection period. Extremely less plastic waste (0.1Kg/day) is created by the departments, office and garden so it is neither categorized at point source nor sent for recycling. Metal waste and wooden waste is put away and given to approve scrap agents for further processing. Only a small amount of glass bottles are reused in the laboratories. The food squanders from the canteen is utilized or sent to College vermi composting.

The college has started 2 units of vermiculture fertilizing the soil in culture house on 160 sq. ft. land. The fundamental reason for this is to diminish dispensable waste on the college campus. After the total cycle of vermicomposting, it is utilized as compost in the garden and lawns.

### **Recommendations**

- Reduce the total measure of waste that it produces by the college staff and students.

- Make full utilization of all reusing articles by private providers, including glass, jars, white, shaded and earthy colored paper, plastic containers, batteries, print cartridges, cardboard and paper, plastic furniture.
- Provide adequate, open and very much exposed assortment focuses for recyclable waste, with duty regarding reusing unmistakably designated.
- Single-sided papers to be utilized for rough work and photocopy.
- Important and classified papers after their legitimacy to be sent for making pulp.

### **E-Waste Management**

E-waste can be portrayed as shopper and business electronic hardware that is close or toward the finish of its helpful life. This makes up about 5% of all cities strong waste worldwide however is significantly more dangerous than other waste in light of the fact that electronic parts contain cadmium, lead, mercury, and Polychlorinated biphenyls (PCBs) that can harm human wellbeing and the climate.

### **Observations**

E-waste generated in the campus is very less in quantity. The cartridges of laser printers are refilled outside the college campus. Administration conducts the awareness programs regarding E-waste Management with the help of various departments. The E-waste and defective item from computer laboratory is being stored properly. The institution has decided to contact approved E-waste management and disposal facility in order to dispose E-waste in scientific Manner.

### **Recommendations**

- Electronic items like computers and electrical appliances should be recycle and safely dispose off.
- Always use resources and containers to avoid unnecessary packaging.
- Purchase recycled resources where these are suitable and available.

### **Green Area**

Green area includes the plants, greenery and the building constructed to the norms of green sustainability. Buildings follow the green norms to protect the environment. Environment policy is enacted, enforced and reviewed using various environmental awareness programs.



**Observations**

College campus is located in a peaceful and vicinity of green area having more than 20 types of tree planted in the campus. Every year Tree Plantation program is organised and planted trees in the month of July and August (Sawan) By the NSS unit of the college. NSS college team also planted the trees in the nearby village under the program of Van Mahotsav. These types of programs help in encouraging eco-friendly environment. By this college enrich with pollution free environment. The plantation program includes various types of indigenous species of ornamental and medicinal wild plant species. List of the plants are as follows:

Sr. No	Name of Plants	Quantity
1	Aegle marmelos (Bale Patar)	09
2	Azadirachta indica (Neem)	47
3	<i>Ficus religiosa</i> (Peepal)	05
4	Palm	50



5	Indian gooseberry (Awla)	80
6	Psidium guajava Linn (Amrood)	90
7	Mangifera indica (Mango)	11
8	Bakain (Dek)	05
9	Kamini trees	09
10	Bismarckia Nobilis (Silver Palm)	36
11	Thuja (Vidya)	10
12	Anthurium (Loves Plant)	07
13	Tasmanian blue gum (Safeda)	13
14	Others	40

### **Recommendations**

- Reviews periodically the list of trees planted in the campus, allot numbers to the trees and keep records.
- Make an Environment Policy. Make your Environment Committee to hold the responsibility for the enactment, enforcement and review the environment policy. The environment committee shall be the source of advice and guidance to staff and students on how to implement the policy.
- Create awareness of environmental sustainability through the NSS and NCC students.
- Ensure that every year the environment policy be reviewed and there should be an audit every year and action taken report be followed.
- Celebrate every 5th June as 'Environment Day' and plant more trees on the day in the campus.

### **Conclusions**

Considering the fact this is the graduate college and there is significant environmental research both by the faculty and students. The environmental awareness initiatives are substantial. The maintenance and care of the environment within the campus is

noteworthy. Efforts made by the administration are highly appreciable. Every corner of the campus is used properly as Green Campus. Few recommendations are added to curb the menace of waste management using eco friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus and thus sustainable environment and community development.

As part of the green audit of the college campus, we carried out the environmental monitoring of campus includes Illumination, Noise level, Ventilation and Air quality of the class room and laboratory and library. It was observed that illumination and ventilation is adequate considering natural light and velocity present. Noise level in the campus well within the limit i.e. below 50 dB at day time.



**Noise level Monitoring**

### Acknowledgement

We are thankful to the Management and the Principal of Babu Anant Ram Janta College, Kaul (Kaithal) who have given us the opportunity to conduct this project and allow us to free access to the college campus for Green Audit,

Further, we are thankful to the college staff, especially technical and non- teaching staff for providing us the necessary facilities and extending their support and cooperation to us during this audit. Senior teaching faculty members provided us valuable information regarding the efforts made by them to ensure a clean and green campus.

We hope, this audit will boost the new generation to take care of environment on the campus and its vicinity.

  
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