

 REVOLUTIONARY CONSULTANTS	REVOLUTIONARY CONSULTANTS GREEN AUDIT ASSESSMENT REPORT	
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Name of the Organization	Nehru Memorial Govt. College	
Address	Barnala Road, Distt. Mansa, Punjab - 151505, India	
Site Address (If any)	--	
No. of Employees	Total 36; including 21-teaching staff & 15-non-teaching staff	
No. of Shift	01-General	
E mail id	nmgcmansa786@gmail.com , enquirynmgc@gmail.com	
Contact Person	Dr. Lovleen (Principal)	
Website	http://www.nmgcmansa.ac.in	
Telephone/Fax	01652-232074	
Scope	"PROVIDING QUALITY EDUCATION PROMOTE RESEARCH, INNOVATION AND ENTREPRENEURSHIP. TRAINING THROUGH VARIOUS PROGRAMS IN THE FIELD OF MANAGEMENT, INFORMATION TECHNOLOGY, E-GOVERNESS AND AGRICULTURAL"	
Exclusion	--	
Audit Team	Lead Assessor: Vinay Kumar Jham Auditor: Ankur Singla Technical Expert: NA	No of Man-days : 02
Starting Date of Audit	25.08.2023	
End Date of Audit	25.08.2023	
Brief about the organization	It was to realize India's first Prime Minister Pandit Jawaharlal Nehru's dream of an educationally rich and vibrant India that Advocate, Late Sh. Des Raj, former Health Minister, Punjab and Member, Punjab Public Service Commission, and some of his friends established this institution of	

Vinay Kumar Jham

 Lead Assessor

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	<p>higher learning in 1965 in Pandit Nehru's memory.</p> <p>Lovingly known as Babu Des Raj to one and all, he was a visionary fired with missionary zeal to dispel the darkness of ignorance by spreading the light of knowledge. His untiring efforts and those of his friends, who shared his ideas and his concern for the people of this predominantly rural area, bore fruit in the form of this College.</p> <p>The foundation stone of the College building was laid by Late Comrade Ram Kishen, the then Chief Minister of Punjab, on 18th August 1965. The old building had a small administrative block, three laboratories, and five classrooms; out of these five, one doubled as a library also.</p> <p>Mansa, then a Tehsil of Bathinda, was educationally one of the most impoverished areas of the Malwa region of Punjab. Under the able guidance of founder President of the College Managing Committee Babu Des Raj, and very competent leadership provided by Sh. B. P. Mohan, the founder Principal of the College, Nehru Memorial College happened to be the first coeducational College which catered to the educational needs of the area for about three decades before being taken over by the Govt. of Punjab on March 18, 1994; it was then rechristened as Nehru Memorial Government College. The taking over of the College by the Punjab Govt. was a defining moment for the College in many ways.</p> <p>Late Sardar Beant Singh, the then Chief Minister of Punjab, who was largely instrumental in the Punjab Govt. taking over the College, graced the College with his presence at a function marking the inauguration of the College as Govt. College on 21st March, 1994. Sensing the growing needs of the College, liberal grants were sanctioned by the Punjab Govt. from time to time. Sardar Parkash Singh Badal, the then Chief Minister of Punjab, laid the foundation stone of the new (present) building on 7th August, 1997</p>
Purpose of Audit	<ol style="list-style-type: none"> 1) To verify the implementation of the Green Audit Management System as per the Standards Requirement. 2) Verification of Documented information of each process for the effective implementation. 3) Meeting all Regulatory Compliances.

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Green Audit Report
March-2023



GREEN
AUDIT



Submitted to:
Nehru Memorial Govt. College,
Barnala Road, Mansa, Punjab
Pin-151505, India



Submitted by:
Revolutionary Consultants
SCO 97, Bhattan Street, Nabha
Pin-147201, Punjab, India



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ACKNOWLEDGEMENT

REVOLUTIONARY CONSULTANTS, Patiala, Punjab takes this opportunity to appreciate & thank the management of Nehru Memorial Govt. College for giving us an opportunity to conduct green audit for the Following buildings of the college.

- ↓ Arts & Commerce-Graduation & Post Graduation
- ↓ Science
- ↓ Canteen, Library, Toilets & Water Works
- ↓ Park, Parking, Admin Block, Class Rooms, Smart Class Rooms,
- ↓ Multipurpose Sports Stadium &
- ↓ Gymnasium Hall

We are indeed touched by the helpful attitude and co-operation of all faculties and technical staff, who rendered their valuable assistance and co-operation the course of study.

Green Audit Team:

Name: Vinay Kumar Jham (Lead Assessor)
Qualification: -BSc Hons Chemistry – Delhi University
-Msc in Chemistry in 1972 – Delhi University
-PG Diploma Sales & Marketing 1973 FMS, Delhi University
Experience: -Worked in PSU – Andrew Yule & Company from 1972 till 2007
-After retirement; completed Lead Auditor Course in ISO standards 9001, 14001, 45001, 21001.
-Completed 2000 man- days as second- & third-party auditor Also a Lead tutor for auditing process and auditing awareness.

Name: Ankur Singla (Auditor)
Qualification: -B.tech (M.E.) – PTU, Jalandhar
Experience: -Working in ISO systems from 01 decade
-LA in ISO 9001, 14001, 45001, 21001, ISO 50001
-Completed 1000 man- days as second- & third-party auditor

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Lead Assessor Declaration (Tick or cross Each Column as per applicability)	
✓	Auditing is based on a sampling basis of the available documented information
✓	Audit is combined, joint or integrated. – Integrated
✓	The effectiveness of corrective actions are verified as raised in Internal audit & management review meetings.
✓	Nonconformities are verified, now closed.
✓	Outcomes are effective and complying.
✓	The internal audit and management review process are effective and complying with the requirements.
✓	The scope of certification is appropriate.
✓	The capability of the management system to meet applicable requirements and expected
✓	The audit objectives has been fulfilled and achieved.

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NEHRU MEMORIAL GOVT. COLLEGE,
MANSA



Green Audit report
August 2023



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We help you grow...!

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ATTENDANCE SHEET:

NAME OF PERSON	DESIGNATION
Mr. Vinay Kumar Jham	Lead Assessor
Mr. Ankur Singla	Auditor
Mr. Ravinder Singh	Professor
Mr. Baljit Singh	Professor
Ms. Jyoti	Professor
Ms. Sonam	Professor
Mr. Ambesh Bhardwaj	Professor
Mr. Jaskaran Singh	Professor

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Executive Summary:

The rapid urbanization and Economic Activities at local, regional and Global Level has given rise to Environmental Issues. The concept of Environment & Green Audit was formulated looking into seriousness of these issues to implement at the university campuses and colleges. This will also lead to sustainable Development.

Nehru Memorial Govt. College also took this initiative to have green policy with protection of Environment in their philosophy. The purpose of audit was to ensure good practices are Initiated and maintained in the areas of Energy saving, Water management and clean air to mention few. This will ultimately impact the health of students.

The recommendations/ conclusions are arrived on the basis of Data submitted by the process owner on the basis of present scenario, looking into management controls implemented so far and identified risks for all the activities of campus.

1. Introduction

Green Audit is a systematic process of identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. Green audit was initiated with the beginning of 1970s with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment.

Globalization with rapid urbanization has led to socio economic and environmental crises. To tackle these issues and impart awareness among generations, it is highly important to adopt the system of the Green Campus for the institutes. This may lead for sustainable development and at the same time reduce a sizable amount of atmospheric greenhouse gases from the environment.

The aim of the Green Audit is to review the overall environment management systems. The objective and benefits of this green audit is:

- a) Environmental Parameters awareness
- b) Improve Environment standards of the institute
- c) To reduce Depletion of resources
- d) Disposal of Hazardous and Non-Hazardous wastages.

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d) CSR for improving the Environments of entire campus and to involve neighborhood

Organizations now recognize the importance of environmental matters and accept that their environmental performance should be scrutinized to understand its impact and to take remedial measures to lessen it.

Environmental auditing is used to

- Investigate
- Understand and
- Identify

These are then used to help in improving existing human activities, with the aim of reducing the adverse effects of these activities on the environment.

An environmental auditor studies an organization's environmental effects in a systematic and documented manner and produces an environmental audit report.

Green audit for the university has examined the following systems

- Water Management
- Waste Management
- Health and safety management
- Sanitation management
- Adopted Green practices
- Biodiversity

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1.1 About the College:

PRINCIPAL'S MESSAGE
ਸੰਦੇਸ਼

ਪਿਆਰੇ ਵਿਦਿਆਰਥੀਓ !

ਜੁਵਾ ਸ਼ਕਤੀ ਕਿਸੇ ਵੀ ਕੌਮ ਦੀ ਸਭ ਤੋਂ ਵੱਡੀ ਤਾਕਤ ਹੁੰਦੀ ਹੈ। ਨੌਜਵਾਨ ਵਰਗ ਦੇਸ਼ ਦੇ ਵਿਕਾਸ ਦੀ ਨੀਂਹ ਹੁੰਦਾ ਹੈ। ਜਿਹੜੇ ਨੌਜਵਾਨਾਂ ਦੇ ਦਿਲਾਂ 'ਚ ਅੱਗੇ ਵੱਧਣ ਦੀ ਤਾਂਘ, ਅੱਖਾਂ 'ਚ ਸੁਨਹਿਰੀ ਭਵਿੱਖ ਦੇ ਸੁਪਨੇ, ਮਨ 'ਚ ਇਕਾਗਰਤਾ, ਸੋਚ 'ਚ ਪ੍ਰਗਤੀਸ਼ੀਲਤਾ, ਵਿਚਾਰਾਂ 'ਚ ਨਿਵੇਕਲਾਪਣ, ਸਰੀਰ 'ਚ ਤਾਕਤ, ਹਿੰਮਤ, ਫੁਰਤੀਲਾਪਣ ਆਦਿ ਹੋਣ, ਉਹ ਨੌਜਵਾਨ ਸੁਨਿਸ਼ਚਿਤ ਹੀ ਇੱਕ ਸੁਚੱਜਾ, ਨਰੋਆ ਨਿੱਖਰਿਆ ਅਤੇ ਸਿਹਤਮੰਦ ਸਮਾਜ ਸਿਰਜ ਸਕਦੇ ਹਨ। ਪਰ ਇਹ ਸਭ ਤਾਂ ਹੀ ਸੰਭਵ ਹੈ ਜੇਕਰ ਨੌਜਵਾਨਾਂ ਦੀਆਂ ਸਰੀਰਕ, ਮਾਨਸਿਕ ਭਾਵਨਾਤਮਕ ਅਤੇ ਸਮਾਜਿਕ ਬਿਰਤੀਆਂ ਨੂੰ ਸਹੀ ਦਿਸ਼ਾ ਪ੍ਰਦਾਨ ਕੀਤੀ ਜਾਵੇ। ਇਹ ਸਹੀ ਦਿਸ਼ਾ ਵਿੱਦਿਆ ਰਾਹੀਂ ਹੀ ਸੰਭਵ ਹੈ, ਜਿਸ ਵਿੱਚ ਚੰਗੇ ਵਿੱਦਿਅਕ ਅਦਾਰਿਆਂ ਦੀ ਅਹਿਮ ਭੂਮਿਕਾ ਹੈ।

ਨਹਿਰੂ ਮੈਮੋਰੀਅਲ ਸਰਕਾਰੀ ਕਾਲਜ ਮਾਨਸਾ ਜ਼ਿਲ੍ਹੇ ਦਾ ਅਜਿਹਾ ਹੀ ਇੱਕ ਸਿਰਮੌਰ ਵਿੱਦਿਅਕ ਅਦਾਰਾ ਹੈ, ਜੋ ਲੰਮੇ ਸਮੇਂ ਤੋਂ ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਸਰਵਪੱਖੀ ਵਿਕਾਸ ਲਈ ਪ੍ਰਗਤੀਸ਼ੀਲ ਰਿਹਾ ਹੈ। ਇਸ ਸੰਸਥਾ ਨੇ ਉੱਚ ਕੋਟੀ ਦੇ ਪ੍ਰੋਫੈਸਰ, ਪੱਤਰਕਾਰ, ਅਧਿਆਪਕ, ਡਾਕਟਰ, ਵੀਕਲ, ਖਿਡਾਰੀ, ਕਲਾਕਾਰ, ਨੇਤਾ ਅਤੇ ਸਮਾਜ ਸੇਵੀ ਸਮਾਜ ਦੀ ਖੋਲੀ ਪਾਏ ਹਨ। ਇਹਨਾਂ ਵੱਖ ਵੱਖ ਪੱਦਵੀਆਂ ਤੇ ਸੁਸੈਭਿਤ ਵਿਦਿਆਰਥੀਆਂ ਨੇ ਜਿੱਥੇ ਸੰਸਥਾ ਦਾ ਨਾਂ ਰੋਸ਼ਨ ਕੀਤਾ ਹੈ, ਉਥੇ ਇਹ ਵਿਦਿਆਰਥੀ ਆਪਣੀਆਂ ਅਗਲੀਆਂ ਪੀੜ੍ਹੀਆਂ ਤੇ ਨਵੇਂ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਚੰਗੇ ਮਾਰਗ ਦਰਸ਼ਕ ਅਤੇ ਆਦਰਸ਼ ਬਣੇ ਹੋਏ ਹਨ।

ਅੱਜ ਦੀ ਤੀਬਰ ਰਫ਼ਤਾਰ ਅਤੇ ਕਠਿਨ ਮੁਕਾਬਲੇ ਦੇ ਦੌਰ 'ਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਆਤਮ-ਨਿਰਭਰ ਕਾਬਲ ਅਤੇ ਯੋਗ ਬਣਾਉਣ ਲਈ ਅਤੇ ਉਹਨਾਂ ਦੇ ਸਰਵਪੱਖੀ ਵਿਕਾਸ ਲਈ ਇਹ ਕਾਲਜ ਅਧੁਨਿਕ ਵਿਸ਼ਿਆਂ ਦੀ ਸਿੱਖਿਆ, ਖੇਡਾਂ, ਸੱਭਿਆਚਾਰਕ ਅਤੇ ਸਾਹਿਤਿਕ ਗਤੀਵਿਧੀਆਂ, ਐਨ.ਐਸ.ਐਸ, ਯੁਵਕ ਭਲਾਈ ਗਤੀਵਿਧੀਆਂ, ਲੀਗਲ ਲਿਟਰੇਸੀ, ਰੈਡ ਕਰਾਸ, ਕੈਰੀਅਰ ਗਾਈਡੈਂਸ, ਕੰਪਿਊਟਰ ਸਿੱਖਿਆ ਅਤੇ ਅਨੇਕਾਂ ਹੋਰ ਉਸਾਰੂ ਸਰਗਰਮੀਆਂ ਦਾ ਪਲੇਟਫਾਰਮ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ। ਆਪਣੇ ਭਵਿੱਖ ਪ੍ਰਤੀ ਸੁਚੇਤ, ਈਮਾਨਦਾਰ, ਮਿਹਨਤੀ ਤੇ ਲਗਨ ਵਾਲੇ ਵਿਦਿਆਰਥੀ ਸਮਾਜ 'ਚ ਅਹਿਮ ਸਥਾਨ ਅਤੇ ਪਹਿਚਾਣ ਬਣਾ ਲੈਂਦੇ ਹਨ ਅਤੇ ਸਫਲਤਾ ਦੇ ਸਿਖਰਾਂ ਤੀਕ ਉਡਾਰੀਆਂ ਲਾਉਂਦੇ ਹਨ।

ਮੈਨੂੰ ਪੂਰੀ ਉਮੀਦ ਹੈ ਕਿ ਇਸ ਕਾਲਜ ਦੇ ਵਿਦਿਆਰਥੀ ਕਾਲਜ ਦੇ ਨਿਯਮਾਂ ਦਾ ਪਾਲਣ ਕਰਦੇ ਹੋਏ ਅਨੁਸ਼ਾਸਨ ਵਿੱਚ ਰਹਿਕੇ ਆਪਣੇ ਸਰਵਪੱਖੀ ਵਿਕਾਸ ਲਈ ਹਮੇਸ਼ਾ ਯਤਨਸ਼ੀਲ ਰਹਿਣਗੇ ਅਤੇ ਕਾਲਜ ਦਾ ਨਾਂ ਰੋਸ਼ਨ ਕਰਨਗੇ। ਮੈਂ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸਫਲਤਾ ਅਤੇ ਸੁਨਹਿਰੀ ਭਵਿੱਖ ਲਈ ਦੁਆ ਕਰਦਾ ਹਾਂ।



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Nehru Memorial Govt. College, embarked on its mission in the field of Technical Education. It is going for NAAC assessment and is affiliated to Punjabi University; Patiala. And spread over 50,395 square meters of area and has a green area of 7459 sq. meters. It is located on the prominent location at Sirsa Barnala Road, Mansa, Punjab & Surrounded by Clean and Green area. College offering post graduate & undergraduate programs in Arts, Commerce, Science etc.

The college has number of faculty like Computer Science & Information Technology, Commerce Management, Arts. The college has excellent Infrastructure Like a Big Library, Sport facilities and Labs. The location is in the vicinity of various schools and colleges. There is no of industries across the road away from institute, ideal place for Higher Studies. They have a Placement Departments

Total strength of students is over 1400, 21 Teaching and 15 non-Teaching Staff. Most of the Professors are Doctorate in their disciplines It has total 10 labs in IT including 3 labs in computer & IT, 3 labs in science, 3 smart lecture theatres, 1 canteen & etc.

College Buildings and other allied Facilities: -

Sr. No.	Particulars	Space
1	Administration Department	Spacious
2	Accounts Department	Spacious & Creative
3	English Department	Spacious and Creative
4	Punjabi & Hindi Department	Spacious
5	Commerce Department	Spacious and Creative
6	Math, Economics & History Department	Spacious and Creative
7	Computer Department	Spacious
8	Political Science Department	Spacious

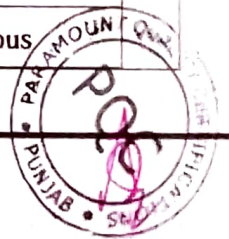
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9	Physical Education Department	Spacious
10	Library & Canteen facility	Very Spacious
11	Toilet Blocks	Spacious
12	Parking Area	Spacious
13	Open Air Theatre	Spacious
14	Auditorium	Spacious
15	Lecture Theatre	Well maintained
16	Computer & Science Labs	Spacious and Creative

The Mission:

To impart Holistic Education aiming to make students Market relevant Globally, Competent Morally Upright and Socially Responsible Citizens.

Vision: Strive for Perfection and Settle for Excellence.

Objectives: Soft Skills, Train, To Foster an Environment Conducive to Pursuit of Knowledge.

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Areas Assessed:

- Waste Management,
- Greening of Campus,
- Energy Management,
- Water management,
- Clean Air,
- Animal Welfare &
- Environmental Legislatives.

Assessment of building infrastructure

Sr. No.	Particulars	Space	Ventilation	Natural Light	Cleanliness	Remark
1	Administration & Management Department	Spacious	Good	Good	Good	Comparatively Good cross ventilation
2	Arts Department	Spacious	Good	Good	Good	
3	Admission & Placement Dept.; Accounts & Registrar Department	Spacious	Good	Good	Good	
4	Commerce Department	Spacious	Good	Good	Good	

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5	Library facility	Library Less Spacious	Good	Good	Good	
6	Canteen	Spacious	Good	Good	Good	
7	Toilet Blocks	Spacious	Good	Poor	Good	
8	Parking Area	Spacious	Good	Good	Good	
9	Staircases	Spacious	Good	Good	Good	
10	Science Department	Spacious	Good	Good	Good	

Reference attached images in Annexure-I

2. Objectives of the Green Audit Study:

The objective and benefits of this ECO/Green Audit is to:

- a) Improve Environmental awareness amongst all interested parties in the campus.
- b) Improve Environment standards by awareness.
- c) Reduce loss of resources and wastages that is a national wastage.
- d) Implement CSR for improving the Environments of entire campus and to involve neighborhood.
- e) Ensure all these objectives shall ultimately improve the image and goodwill of the Educational institute and Campus.
- f) To determine usage/wastage of energy or water or other resources;
- g) Implement changes to ascertain optimum usage of resources and make savings.
- h) To promote health consciousness and environmental awareness, values and ethics among stake holders of organization.

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3. Methodology:

As per the audit plan the audit criteria is to study the Waste, water, energy management and find the ways to achieve this objective including Clean Air and Green environments.

ASSESSMENT COMMENTARY & ASSESSMENT OBJECTIVE EVIDENCE

Executive Summary: Satisfactory

This is the green audit of the College which is applying for NAAC. The college is doing their bid towards environmental protection and environmental awareness at local and global front.

Audit criteria is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.

4. Observations and Recommendations

4.1 Waste Minimization and Re-cycling

A. Waste generation & Management

1. Waste water Generation and Treatment

Sr. No.	Waste category	Method of disposal
1	From toilets	Closed drainage system
2	From Canteens & other buildings	Closed drainage system

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B. Solid Waste

Sr. No.	Waste category	Method of disposal
1	Dry Waste	Disposed off in bins and taken away by MC.
2	Wet waste and Garden waste	Composting pits in the campus
3	Biomedical waste	Not Applicable.
4	E waste	Following the higher education departments guidelines.

Observations:

- 1) They Generate Dry Waste leaves from the trees. Thew wet waste as generated by Canteen is converted to Compose while the dry waste is daily lifted by Municipality.
- 2) E Waste from Computer Department is also disposed to the vendor authorized by Pollution Board.
- 3) Additionally, Bio degradable items like leaf, food residues are kept in separate pits at many locations.
- 4) Interaction is done with the community in the nearby villages to create awareness and a message to recycle the waste.
- 5) The solid waste is kept in different color bins.

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6) Used Oil as developed during service of DG set = Reused in Shuttering and other metal surfaces to prevent rusting.

Recommendations:

- 1) To formulate the SOP for collection and disposal with Roles & Responsibility and target date.
- 2) To determine the specific objective of minimization of waste wherever possible.
- 3) No Composter = Presently Collected in Ditch and used for horticulture. = Needs better and upgraded method.
- 4) Two categories of Dust Bins = Dry & Wet = needs identification and proper color code.

Reference attached images in Annexure-II.

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4.2 Greening

As discussed, there is a number of trees and other plants in the premises. There is various types of plants including fruit plants, medicinal plants, shady plants & ornamental plants as described below

List of plants at college; Mansa

S. No.	Fruit plants	Medicinal plants	Shady plants	Ornamental plants
1	<i>Mangifera indica</i> Mango - 1	<i>Ocimum tenuiflorum</i> (Tulsi) -10	<i>Azadirachta indica</i> Neem -200	<i>Saraca asoca</i> Ashoka - 30
2	<i>Psidium guajava</i> Guava - 1	<i>Terminalia chebula</i> (harad)-1	<i>Terminalia arjuna</i> Arjun -500	<i>Hyphorbe lagenicaulis</i> Bottale palm -10
3	<i>Syzygium cumini</i> Jamun - 20	<i>Phyllanthus emblica</i> (Amla) -100	<i>Melia azedarach</i> Dek-500	Hibiscus - 50
4	<i>Musa balbisiana</i> Banana - 3	<i>Carissa carandas</i> (Krona/Karanda)-2	<i>Tectona grandis</i> Teak (Sagwan) -8	<i>Dyopsis lutescens</i> Erica palm-10
5	<i>Prunus avium</i> Cherry-5	<i>Moronia oleifera</i> (Drumstick tree) 400	<i>Neolamarckia cadamba</i> Kadam tree - 11	<i>Casurina equisetifolia</i> Casurina-1
6	<i>Manilkara zapota</i> Sapota-5	<i>Bauhinia variegata</i> (Kachnar) -400	<i>Cassia fistula</i> Golden shower -7	<i>Clerodendrum splendens</i> Pgodal-6
7	<i>Citrus limon</i> Lemon-500	<i>Punica granatum</i> Pomegranate -1	<i>Delonix regia</i> Flame of forest -100	<i>Bamboosa bamboosa</i> Bamboo plant - 10
8	<i>Ziziphus zuzuba</i> Ber-2	<i>Murraya koenigii</i> (Curry tree) -10	<i>Swietenia mahgoni</i> American mahogany-19	<i>Callistemon spp.</i> Bottle Brush-3
9	Bil-1	<i>Nyctanthes arbour-tristis</i> Tree of sadness-1	<i>Polyalthia longifolia</i> Mast tree - 6	<i>Alstonia scholaris</i> Satpatia-15
10		<i>Terminalia bellirica</i> (Bahera plant)-400	<i>Ficus religiosa</i> Pipal-20	<i>Chukrasia tabularis</i> Chukrasia-12
11		<i>Sapindus mukorossi</i> (Reetha plant) -1	<i>Dalbergia sissoo</i> Shisham-(Tahli) -10	<i>Mimusops elengi</i> Monsari- 12

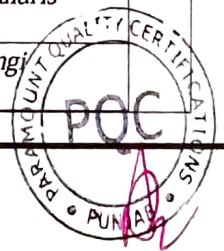
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12		<i>Mimosa pudica</i> Touch me not- 2	<i>Ficus bengalensis</i> Bohar-10	<i>Delonix regia</i> Gulmohar-20
13			<i>Eucalyptus terreticornis</i> Safeda- (200)	<i>Cassia fistula</i> Amaltas-20
14			<i>Carissa opacca</i> Garna-10	<i>Jacaranda mimosifolia</i> Jacaranda -10
15			Dhak-100	
Total	538	1328	1701	209

TOTAL – 3776

List of plants in front of College Building; Mansa

S. No.	Fruit plants	Medicinal plants	Shady plants	Ornamental plants
1	<i>Mangifera indica</i> Mango -2	<i>Azadirachta indica</i> Neam 15	<i>Melia azedarach</i> Dek 16+10	<i>Alstonia scholaris</i> Satpatia-6
2	<i>Psidium guajava</i> Guava – 3+3	<i>Murraya koenigii</i> (Curry tree) -1	<i>Morus alba</i> Toot 3+3	<i>Cassia fistula</i> Amaltas-1
3	<i>Syzygium cumini</i> Jamun – 4	<i>Ficus carica</i> Anjeer-1	<i>Carissa opacca</i> Garna-6	<i>Adhatoda indica</i> Bans-45
4	<i>Coleus ambonicus</i> Bil-1	<i>Grewia asiatica</i> Phalsa-1		<i>Ficus benjamina</i> Ficus-8
5	<i>Prunus avium</i> Cherry-1	<i>Carissa carandas</i> Karonda-2		<i>Hibiscus indica</i> China Rose-1
6	<i>Manilkara zapota</i> Sapota-1	<i>Phyllanthus emblica</i> (Amla) -2		<i>Jasmine spp.</i> Jaismin-1



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7	<i>Citrus limon</i> Lemon-2	<i>Moringa oleifera</i> Sohanjna-1		<i>Saraca asoca</i> Ashoka -76
8	<i>Ziziphus zuzuba</i> Ber-2			<i>Cestrum nocturnum</i> Night blooming-1
9	Pomegranate-3			<i>Hyphorbe lagenicaulis</i> Bottale palm -3
10	Peach-1			<i>Araucaria heterophylla</i> <i>chrismis tree</i> 5
11	<i>Citrus spp.</i> Kinno 2			<i>Rosa indica</i> Rose 17
12	<i>Eribotrya japonica</i> Loquat 2			
Total	27	12	38	164

TOTAL – 241

Organization has various types of trees including: -

ਆਮਲਾ 100

ਅਰਜਨ 500

ਬਹੇੜਾ 400

ਬੇਰੀ 150

ਕਾਲੀ ਸਰੀਂਹ 25

ਦੇਸੀ ਕਿੱਕਰ 200

ਢੱਕ 100

ਲਸੂੜਾ 100

ਮਹਿੰਦੀ 75

ਜਾਮਣ 600

ਜੰਡ 200

ਜੰਗਲ ਜਲੇਬੀ 200

ਕਚਨਾਰ 400

ਸੁਖਚੈਨ 600

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ਖੇਰ 25

ਮੌਲਸਰੀ 50

ਵਣ 100

ਨਿੰਮ 200

ਪਿੱਪਲ 20

ਪਿਲਖਨ 50

ਰਜੈਣ 600

ਰੇਰੂ 25

ਰਹੜਾ 100

ਸੇਹੰਜਨਾ 400

ੜੜ 25

ਕਨੇਰ ਪੀਲੀ 25

ਹਮੇਲੀਆਂ 25

ਡੇਕ 500

Observations:

- 1) Natural Vegetation covering the whole campus.
- 2) Students can use the lawn for relaxation and studying in peaceful environments. They are also involved in Plantation Drive.
- 3) There is more than 10, 000 plants and trees as per the geography of Campus. Every year they add new trees to maintain the survival rate which is more than 90%. There is various medicinal plants like Harar Amaltas, Bahera and also No. Of fruits trees like Jamun Total 43 medicinal, 203 shaddy neem, arjun, ornamental 460 and 260 fruits to mention few.
- 4) A Separate committee with 07 senior personnel to ensure the greenery in the campus.
- 5) The trees and plants are also planted by Students, Villagers as per ownership programme once a year. The College has adopted 5 villages including Khera, Sikhera, Kandola, Kandauli & Lakhan Who have briefing for protection of Environment, Rallies for env. Protection like the practice of Stubble Burning is held twice a year.

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6) Beauty and Eco park is developed in the entire campus like Temple & parks in the college.

Recommendations:

- 1) More villages can be involved in plantation drive, a future plan to be decided as per annual calendar.
- 2) The specified number of plants and the type of plants eg; of medicinal values and needs to be targeted in the start of academic year.

Reference attached images in Annexure-III.

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4.3 Energy Conservation

Observations:

- 1) Energy is used in the campus by Lights, Fans, AC, Computers, water distribution, Equipments installed for running the various activities.
- 2) Power saving mode is worked out in running streetlights by alternate switching. Also, similar mode is used for AC, Computer while not in use. Solar Panel and lights are installed in the common
- 3) Stand by arrangements to run AC, TV, computer in the different Facility is through DG Set.
- 4) Energy saving drills are done to involve security staff.
- 5) Replaced 980 LED tubes, 57 LED panel light, 72 LED flood lights and 23 solar lights. This is an ongoing process.
- 6) Canteen, pharmacy all labs are running over PNG provided by IGL. All residential facilities are going to use PNG in future.

Recommendations:

- 1) Periodic monitoring needs to be done for Lux values at various locations to identify the possible areas for saving of energy.
- 2) The energy audit needs to be done once a year to get the exact picture of saving. The data of Electric Consumption need to be documented.
- 3) The targets and objectives need to be specific & measurable to monitor the performance.

Reference attached images in Annexure-IV.

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4.4 Water Conservation

Observations:

- 1) Water is used for drinking, washing, laboratory use, watering in plants In the entire campus.
- 2) The water is stored in Underground Tanks
- 3) Water leakage is stopped by periodic maintained pipes.
- 4) College has a water works operated by the seaways board to provide the water
- 5) Water Harvesting is done through Rain Water Harvesting Means Refer Photos.

Recommendations:

- 1) The readings in water meter needs effective comparison for the population using with specific parameters.
- 2) The NOC needs to be taken from Ground water Authority.
- 3) SOP needs to be defined with measurable Objectives.
- 4) Test certificates needed for STP with the usage of treated water.
- 5) Periodic testing needs to be done for drinking water.
- 6) To reduce water consumption in toilets taps and flushing Aero Control device may be installed.
- 7) Needs to put up slogan for Water Saving.

Reference attached images in Annexure-V.

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4.5 Clean Area

Observations:

- 1) Room Windows Floor Ratio is 40%. All the rooms are fully Ventilated and have Natural Lights.
- 2) Types of vehicles in the college are Students, Personal and Official. Separate Parking are identified for Staff and Others. These are either petrol or Diesel and electric driven
- 3) DG set is installed with regular checks and maintenance is done by company engineers. DG set details are as follows: -
- 125 KVA- 01 Nos
- 4) No student has any respiratory problem as per medical checkup.
- 5) Entire walking area is green and well laid.

Recommendations:

- 1) This needs to be followed with effective air quality monitoring at the identified locations.
Eg: Parking area, DG set area, Chemical Labs. In future possibility of Electric or CNG operated vehicles need to be explored.
- 2) Health Checkup camps may be organized for Villagers.

Reference attached images in Annexure-VI.

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4.6 Animal Welfare

In the campus there is various types of flies and other insects as described as follows:

List of insects at College Premises

Sr. No.	Common Name	Scientific Name
Butterflies		
1	Mottled Emigrant	Catopsilia pyranthe
2	Common Crow	Euploea core
3	Common tiger	Danaus genutia
4	Common Pierrot	Castalius rosimon
5	Common grass yellow	Eurema hecabe
6	Lemmon Pancy	Junonia lemonias
Flies		
1	Ditch Jewell	Brachythemis contaminata (Fam - Libillulidae)
2	Ruddy marsh skimmer	Crocothemis servilia (Fam - Libillulidae)
3	Wandering glider / Common Globe skimmer	Pantala flavescens (Fam - Libillulidae)
4	Crimson marsh glider	Trithemis aurora (Fam - Libillulidae)



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5	Slender blue skimmer	Orthetrum luzonicum (Fam – Libellulidae)
Millipede		
1	Yellow spotted millipede	Harpaghe haydeniana (Fam – Xystodesmidae)

List of reptiles at College Premises:

Sr. No.	Common Name	Scientific Name
1	Common Indian Skink	Lampropholis guichenoti
2	Common garden lizard	Calotes versicolor

List of mammals at College Premises

Sr. No.	Common Name	Scientific Name
1	Three striped Palm Squirrel	Funambulus palmarum
2	Indian flying fox (Vatavaghul)	Pteropus giganteus

Observations:

- 1) Domestic animals are only Birds and Few Pet Dogs.
- 2) College has put up birds Nest on the big and Short trees.

Recommendations:

- 1) More Birds houses can be placed on trees to attract them.

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- 2) As a long-term vision opening of a mini zoo or a fish pond can be thought of.
- 3) Butterfly Park may be developed.

Reference attached images in Annexure-VII.

4.7 Environmental Legislative

Observations:

- 1) Housekeeping is in house and scheduled.
- 2) No certified First aiders at present. Needs to improve Emergency Preparedness systems.
- 3) Air/Noise/Lux/Waste data to be monitored periodically.

Recommendations:

- 1) Consent of Air, Water, and noise from PB-PCB needs to be taken.
- 2) Air emission monitoring data needs to be generated for DG sets.
- 3) Fire NOC is also needed.

Reference attached images in Annexure-VIII.

General Practices:

Observations:

- 1) The roles to maintain green environments is given to various departments like a) Horticulture for plantation b) Maintenance department for Energy, water, management.

Additionally, any special drive of plantation is done involving students.

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2) The overall management of these departments and maintenance of Utilities Is done by the Administration department headed by the Dean and Principal

Recommendations:

- 1) The institute needs to develop SOP's for the green audit with effective Roles Responsibility.
- 2) The institute needs effective monitoring of all parameters on waste, water management and conservation of energy considering past trends and the objectives to be achieved in Environment management.
- 3) The green policy to be displayed at prominent locations along with slogans related to saving of resources.
- 4) Air Quality Monitoring needs effective implementation.
- 5) Noise, Lux monitoring needs to be introduced as no evidence is available presently.
- 6) Housekeeping schedule needs to be introduced with checklist due to Covid.
- 7) Energy Audit needs to be done at least once a year.
- 8) Aspect/impact study and Mock drills for emergency preparedness needs to be introduced. These need proper calendar and findings.

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5. Conclusions:

The Institute has already done work on Green Technology and committed to save the environment and resources. The OFI/Recommendations as mentioned under each activity in the report needs to be closed.


It is recommended to issue the certificate of Green/Environment Audit subject to the action plan for gaps.

6. Photographs of Environmental Consciousness:

The photographs are also a part of Report. This covers green area, utilities installed in the campus, Solar panels, Greenery, Safety Slogans, Environment Awareness Slogans, Green Policy, Infrastructure, Outsourced process, Sports Facilities & etc.

7. Acknowledgement

Acceptance By the College

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8. Confirmation

Provide confirmation on accomplishment of Audit Criteria and Audit Objective

The Audit is completed as per objective and audit criteria.

Assessment of Other Shifts (if applicable) or Review of Other Shift Records

NA

Capture Temporary Site Details with proper Objective Evidence
(Can be a part of Production sheet as well)

NA

ASSESSMENT COMMENTARY

Positive points:

- 1) The personnel involved in green audit are well conversant with the subject.
- 2) The infrastructure of the Institute is Excellent.
- 3) Enough greenery is observed in the College campus.
- 4) Top Management is committed to implement all the recommendations
- 5) The college has done lot of work on events management to sustain Environmental awareness.
- 6) Good idea to involve Villages to increase awareness.
- 7) Vertical Garden is a good concept.

Mr. Vinay Kumar Jham
25.08.2023

Principal

Mr. Ankur Singla
25.08.2023

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