

Environmental Auditors
Jogesh Kannan TS
A.Sampath Kumar



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104



ENVIRONMENT AUDIT REPORT

Christ the King Engineering College Campus

Onnipalayam Road, Karamadai, Coimbatore – 641104

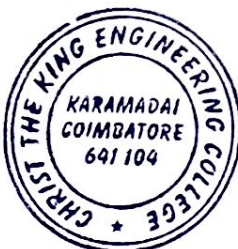
Auditors

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Audit Date: 29-05-2024

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1.0 ACKNOWLEDGEMENT

The Audit Team thanks the management of **Christ the King Engineering College** for assigning us this important work of Environmental Audit. We appreciate the co-operation to our team for completion of study.

Our special thanks are due to:

- Principal of the college, Dr M Jeyakumar
- Father Rev.Fr.S. Xavier Manoj MMI
- Head of Departments

For giving us necessary inputs to carry out this very vital exercise of Environment Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

2.0 DISCLAIMER

Audit Team has prepared this report for **Christ the King Engineering College** based on input data submitted by the representatives of college complemented with the best judgment capacity of the expert team.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

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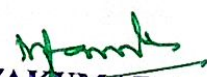
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3.0 SCOPE

Environment Audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc., being implemented by the College Management. The concept, structure, objectives, methodology, tools of analysis, objectives of the audit are mentioned below.



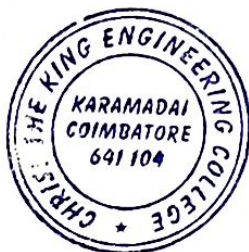
4.0 ABOUT THE COLLEGE

Christ the King Engineering College, Karamadai is a self-financing engineering college situated in the Karamadai, Coimbatore, India. It was established in 2010. It offers degree level courses in different disciplines of Engineering Sciences. The college is established by Rev.Fr.Dr.J.E.Arulraj. MMI and managed by Father Rev.Fr.S. Xavier Manoj MMI of DMI. The college is approved by AICTE, New Delhi and Government of Tamil Nadu, and is affiliated with Anna University, Chennai.

5.0 OBJECTIVES


The broad aims/benefits of the Environment Auditing would be

- Improving environmental standards.
- Benchmarking for environmental protection initiatives.
- Sustainable use of natural resource in the campus.
- Financial savings through a reduction in resource use.
- Curriculum enrichment through practical experience.
- Development of ownership, personal and social responsibility for the College campus and its environment.
- Developing an environmental ethic and value systems in young people.



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6.0 EXECUTIVE SUMMARY

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. Forms & checklists are used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.

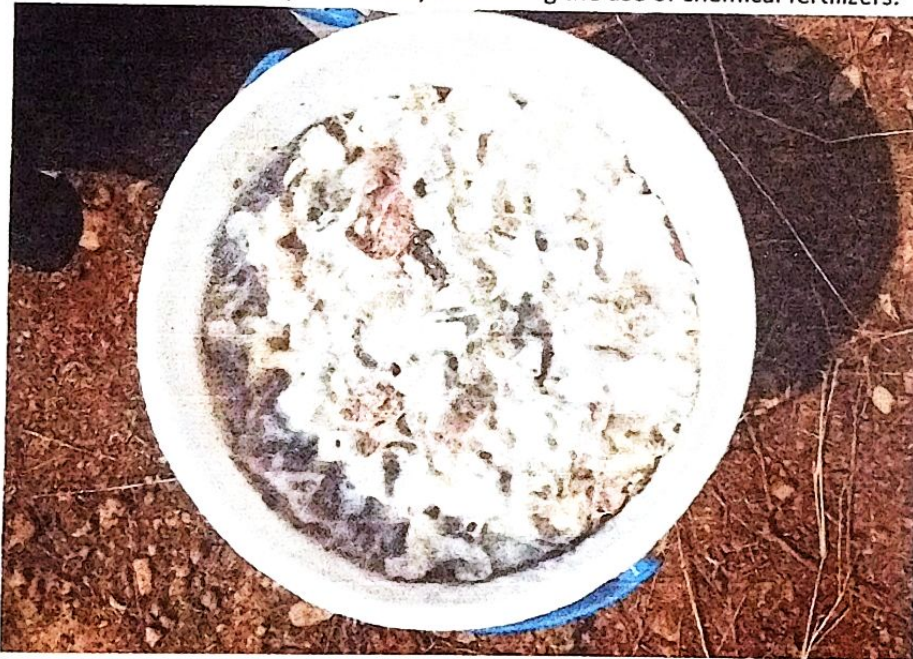
7.0 AREAS OF IMPROVEMENT

Awareness campaign to reduce plastic usage in campus

8.0 BEST PRACTICES/INITIATIVES TOWARDS GREEN CAMPUS

A. Waste Management

College has successfully undertaken a DST, Government of India sponsored project to convert food waste from canteen and hostel mess into manure by a process called 'Bokashi Composting'. This process converts organic waste into rich manure using fungal growth. The organic manure thus generated is used internally in their garden and the excess is distributed free of cost to local people, there by decreasing the use of chemical fertilizers.



There is system of collecting e-waste generated in the college premises. It is sent to the authorized recyclers for adequate disposal.



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B. Biodiversity Conservation

Flora and fauna conservation: The College is located in a pristine area with plenty of lush green trees which provides habitat to various species of birds.

C. Tree Plantation Drives

Periodic Tree Plantation and maintenance is undertaken at Campus. It has multiple variety of trees totalling 180 numbers.



E. Solid Waste Management

Lifting of non-biodegradable garbage from campus is done on a regular basis and a mechanism for proper disposal and recycling is in place.

F. Awareness

General Environmental awareness campaigns like 'No Plastic Bags' are conducted in the campus.

G Conservation

College is moving towards energy efficient lighting like LED tube lights from florescent tube lights. Water Conservation efforts like push taps for toilets are installed to avoid wastages.

9.0 RECOMENDATIONS

1. Formation of Environment Policy and communicated to all faculties and other staff members.
2. Periodic Environmental Monitoring i.e. Ambient Air Quality monitoring, water monitoring need to be conducted.
3. Reduction in use of paper work by go digital system.
4. Increase in Environmental promotional activities for spreading awareness at campus.
5. Install LED tubes, BLDC fans, Inverter A/cs wherever applicable.



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10.0 CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The College has Environmental Club to spread awareness among students & staff. The audit has identified several observations for making the campus premise more environmental friendly. The recommendations are also mentioned with observations for campus team to initiate actions. The audit team opines that the overall site is maintained well from environmental perspective. There is no major observations but few things are important to initiate urgently are waste management records by monthly inventory of plastic waste and periodic inspection of buildings housekeeping and environment policy.



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Annwexure 1

Ambient Air Quality Monitoring Readings

SN	Building name	HCHO (mg/m ³)	TVOC (mg/m ³)	PM1.0 (µg/m ³)	PM2.5 (µg/m ³)	PM10 (µg/m ³)	Humidity (%)	Noise (dB)
1	Entrance	0.131	0.564	005	007	008	50	53.2
2	St. Alphonsa Block			006	007	010	50	47.4
3	Administration Block	0.237	1.071	008	007	009	52	52.9
4	Xavier's Bloc	0.142	0.814	006	007	009	56	57.3
5	Canteen	0.161	0.583	006	007	010	54	44.8
6	Mother Virgin Auditorium	0.140	0.899	005	007	009	51	64.2
7	Gym	0.132	0.672	005	007	008	52	53.2
8	St. Joseph Boys Hostel	0.165	0.686	006	008	009	61	57.5
9	St. Sebastian's Hostel	0.159	0.927	005	007	008	54	39.7
10	St. Mary Girls Hostel	0.214	0.779	006	007	010	60	58.6

Note:

HCHO: mg/m³ of Formaldehyde

TVOC: mg/m³ of Total Volatile Organic Compounds

PM: Particulate matter measured in µg/m³

Humidity: The amount of water vapor in the air.

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