

REGISTRAR
THE ICFAI FOUNDATION FOR HIGHER EDUCATION
(Deemed-to-be-University Under Section 3 of the UGC ACT, 1956)



**The ICFAI Foundation for Higher
Education, Hyderabad.
GREEN AUDIT REPORT (ENVIRONMENT)**



**Ela Green Buildings
& Infrastructure
Consultants Pvt. Ltd.**
Design | Certification | Training

For Ela Green Buildings & Infrastructure Consultants Private Limited,

Sriram Krishnamurthy, Certified Energy Auditor (EM – 4268)

51, Officers Lane, Cantonment, Pallavaram, Chennai - 600043



CERTIFICATE

This is to certify that **The ICAI Foundation for Higher Education, Hyderabad** has conducted Environmental Audit as a part of Environmental Green Audit for their campus and has submitted necessary data & credentials for scrutiny for the period, June 1, 2020-May 31, 2021. The activities and measures carried out the by the college have been verified and was found to be **satisfactory**. The efforts taken by the faculty & students towards environment & sustainability is highly appreciated and commendable.

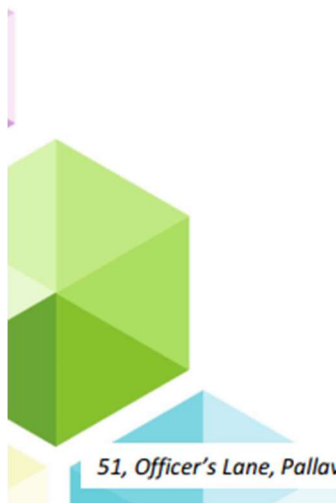
For Ela Green Buildings & Infrastructure Consultants Private Limited,

Sriram Krishnamurthy

Certified Energy Auditor

EM-4268

15-06-2021



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Title	The ICFAI Foundation for Higher Education, Hyderabad.
Consultant	Ela Green Buildings & Infrastructure Consultants Pvt. Ltd.
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Audit Team

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About Us

We are a one-stop solution for all your sustainability, green design, and energy-efficiency needs. With more than ten years of experience in sustainability & energy industry, we offer holistic turnkey solutions for making your project truly sustainable.

Team

An enviable mix of multi-disciplinary team consisting of veterans, experienced professionals, to the young crops with a diverse technical background including; architects, sustainability engineers from civil, electrical, mechanical domains.

Key Strengths

- Technical know-how – Most of our employees have master's degree in sustainability & related fields. We also possess various coveted "Accredited Professionals" tag from leading bodies including LEED, GRIHA, IGBC, EDGE & WELL
- Ethics & professionalism – Our company value-system and experience in scaling numerous learning curves ensures timely delivery of projects
- Network & Relationship – Our reputation amongst the certification bodies and our contacts with vendors, manufacturers of green products & services

Services

- Green Building Certification – LEED, GRIHA, IGBC, WELL, EDGE etc. across all types of buildings ranging from commercial, residential, factories, metro stations, IT data-centres etc.
- Simulation services: Energy modelling, Daylight analysis, CFD analysis etc.
- Energy audits, HVAC commissioning, TAB, ECBC compliance
- Impact assessment, sustainability reports, feasibility studies, capacity-building and training

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Foreword

A nation's growth starts from its educational institutions, where the ecology is thought as a prime factor of development associated with environment. A clean and healthy environment aids effective learning and provides a conducive learning environment. Present day educational institutions are becoming more sensitive to environmental factors and more concepts, measures and technology are being introduced to make them sustainable.

To preserve the ecology inside the campus, various viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the energy savings, recycle of waste, water reduction, water harvesting etc. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

Green audit is defined as an official examination of the effects a college has on the environment. As a part of such practice, internal environmental audit (Green Audit) is conducted to evaluate the actual scenario at the campus. Green audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. Green auditing and the implementation of mitigation measures is a win-win situation for all the college, the learners and the planet.

It provides staff and students better understanding of green impact on campus. Green auditing promotes financial savings through reduction of resource use. It gives an opportunity for the development of ownership, personal and social responsibility for the students and teachers.



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Executive Summary

The main findings of the audit show that, in general, all the departments and students at The ICFAI Foundation for Higher Education ¹ are aware about the need for environmental protection at a general level. It was also observed that a number of best practices such as central rainwater harvesting pond, roof top solar system etc. are being followed in the campus.

Also, on a detailed review, it was observed that the college is implementing some of the best practices in terms of facility improvements, ease of learning, energy savings measures, and water conservation activities. Many eco-friendly measures followed in the institution and in certain processes, it could benefit from further review in order to improve their efficiency, fairness and consistency.

About The ICFAI Foundation for Higher Education (IFHE), Hyderabad

ICFAI was established in 1984 as a not-for-profit society with the broad objective of empowering citizens through world class quality education. ICFAI launched a high end, innovative professional program in financial analysis in 1985. The Program was first-of-its-kind in India, aimed at equipping students and working professionals with cutting-edge knowledge in contemporary areas of finance.

ICFAI has established 11 Universities across India. The ICFAI Universities are located at Jaipur, Hyderabad [The ICFAI Foundation for Higher Education (IFHE), which is a Deemed University], Dehradun, Tripura, Dehradun, Jharkhand, Raipur, Himachal Pradesh (Baddi), Sikkim, Mizoram, Meghalaya and Nagaland.

The ICFAI Foundation for Higher Education is a deemed-to-be-University established under section 3 of UGC Act, 1956. IFHE's comprehensive student-centric learning approach provides relevant knowledge, imparts practical skills and inculcates a positive attitude among the students.

Today, IFHE is one of the largest multi-disciplinary universities in the country. The Faculty of Management, Faculty of Science and Technology and Faculty of Law are the three main building blocks of the university. The University is a member of the Association of Indian Universities (AIU) and Association of Commonwealth Universities (ACU).

The college has been inculcating the most pragmatic and idealistic education to more than 8,000 students in the current year. The courses provide are in the wide spectrum of Science & Technology, Management & Law taught in English medium. The campus is Ranked 2nd among private universities in Telangana - Education World - University Rankings, 2019 with 30 programs over 5 disciplines.

Vision & Mission

Vision of The ICFAI Foundation for Higher Education, Hyderabad is to emerge as an Institution of Excellence known for research, teaching, and practice.

The Mission of the University is 'Learning for Leadership'. It aims at developing a cadre of professionals possessing specialized skills having a sense of social and moral responsibility and the ability to address problems from a broader perspective.

¹ Will henceforth be referred to as IFHE Campus in this report

Introduction

The intention of conducting a Green Audit is to upgrade the environment condition in and around the campus. Various audits tasks like waste management, energy, water and others are carried out to bench mark the performance and improve the respective sustainability parameters.

Ela Green Buildings & Infrastructure Consultants have conducted a green audit at IFHE campus in June 2021.

Table 1 Basic Information

Site Name	The ICFAI Foundation for Higher Education (IFHE), Hyderabad
Address	IFHE Campus, Donthanapally, Shankarapalli Road, Hyderabad – 501203.
Name & Contact Info	Mr. N V Sarma - General Manager nvsarma@icfaiuniversity.com Mr. Mahendra: University Engineer Email: mahender@ifheindia.org Mr. P Sai Krishna: Maintenance Engineer Email: saikrishna.p@ifheindia.org Mr. Gopichand Y: Junior Engineer Email: gopichand.y@ifheindia.org Mr. Krishna A: Junior Engineer Email: krishna.a@ifheinfia.org
Year Built	Year of establishment: 1995
Population Breakdown	Students: 8,000 per year Faculty: 300 Maintenance Personnel: 100
Hours of operation	Institutional Buildings: 9 AM to 6 PM
Month per year of operation	10 months
Built-up area	18,00,000 sq. ft (approx.) encompassing residential, academic, administrative, dormitory buildings
Site Area	91 acres (approx.)

Scope & Methodology

The specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards.

During the planning of the audit, an analysis was conducted in order to identify, evaluate and prioritize the practices, facility operation; academic best practices that are with compliance. The methodology used included physical inspection of the campus, review of the relevant documentation, and interviews.

Scope of Green Audit in this report involves the following elements:

- Environmental Audit

Recommendations were provided to the project team² (listed at the end of each audit section) based on a detailed analysis of conditions, observing and gathering information during the audit.

Plantation in Campus

The Campus has various trees and plants in their campus. Being in the middle of densely urban area, it is vital to maintain the green cover in the campus. Students and faculty are active participants in numerous plantations drives in the nearby localities. A variety of trees, more of native and adaptive plants which also requires less water are used. Also, a number of medicinal plants has been planted in the campus. As of 15.06.2021, the department boasts of having planted saplings, and different kinds of plants in the college campus. The details are as follows:

Trees in IFHE Campus		
Sl	Name of the Tree	Qty Approx
1	Mango	400
2	Sapota	90
3	Coconut	400
4	Neredu	63
5	Jack Fruit	5
6	Amla (all varieties)	10
7	Musambi	2
8	Orange	3
9	Lemon	3
10	Drum stick	6
11	Tamarind	8

VanMahotsav

Van Mahotsav is an annual pan-Indian tree planting festival, occupying a week in the month of July. During this event millions of trees are planted to counter the fact that deforestation is spreading all over the world, in rural and urban areas. Forests and trees help us to maintain ecological balance and keep the carbon footprint low, but still trees are being felled and burnt without any concern for the ecological damage.

Environment day Campaigns

Students & Faculty of IFHE undertook following activities:

- Create awareness and importance of planting trees to the people in the communities around Hyderabad.
- Inculcate tree consciousness and love of trees amongst the people.
- Popularize the planting and tending of trees in farms, villages, municipal and public lands for their aesthetic, economic and protective needs.
- Cleaning rallies

² Project team refers to personnel at IFHE Campus











Environmental consciousness and Entrepreneurship

The students gained Hands on experience in this workshop. Composting satisfies the proximity principle and is the most sustainable waste management option available for dealing with biodegradable household waste in that the producer is responsible for the segregation, treatment and ultimate end-use of the waste. Compost and organic matter is a renewable and sustainable resource.

Reliance on landfill and negative environmental associations with waste disposal by this method will be reduced. Compost is an effective soil conditioner replacement, which conserves soil organic matter and maintains and improves soil physical properties.

GREEN POLICY

SYNOPSIS

This document intends to outline the basis, measures and methods to successfully implement a green policy in a facility. Sustainable development is not a question of choice between growth and the environment. It is the establishment of a decision-making process which integrates the efficient conversation of resources with concern for long-term environmental consequences. It also refers to quality of process, and most importantly, quality of people. The goal is to prevent adverse environmental and health impacts, reduce wastes and emissions, and promote resource conservation at every stage of the building life cycle. Integrated building design approach to buildings ensures the facility is designed and constructed with the help of green building principles as the guiding thought, but the maintenance of a green building is a continuous process and requires a responsive and collaborative effort. A green policy serves as a guiding document to help the team carry out operations in an efficient manner.

The following document describes the strategies adopted by the ICFAI Foundation for Higher Education to develop and maintain their institution in a way that meets the triple bottom line of development. This school of thought stands to help create a positive impact that directly or indirectly benefits the environment, economy and social equity of the organisation's surroundings. The policy outlines a path for the team to navigate key issues to garner management commitment and support, create a positive and cooperative hierarchy, develop a protocol for routine evaluations and reporting of the performance of the facility and ensure the sustainable goals of the organisation are met.

The process for the accrual of environmental liabilities for the annual report also involves cross-functional integration. Staff from all facets of management meet regularly to discuss present and future environmental liabilities and possible disclosures required to fulfil regulatory requirements. By developing environmental strategies and policies that are oriented toward environmental planning rather than compliance, organisations can substantially reduce environmental impacts through process and product designs. This not only gives a lead to the team in terms of excellence in environmental reporting and performance, but also projects a positive image to their contemporaries which will help push the industry towards environmental responsibility.

A Green policy will guide organisation to successfully plan their stand on the positive impact on the environment, allow for external auditing and reporting of the performance of the organisation and provide avenues to help promote the conversion of waste to products that will help build a circular system of consumption. The adoption of a green policy benefits not only the environment, but also the students and staff members that will help drive social change.

PURPOSE

Green policy highlights the commitment of the organisation to sustainability and environmental management by employing strategies to address and mitigate key environmental issues.

ABOUT

The ICAI Foundation for Higher Education is a deemed University established under section 3 of UGC Act, 1956. It has evolved a comprehensive student-centric learning approach consisting of several stages, designed to add significant value to the learner's understanding in an integrated manner, covering relevant knowledge, practical skills and positive attitude. The organisation further aims to improve its positive impact on the environment through strategies for sustainable development.

GREEN POLICY FRAMEWORK



POLICY STRATEGIES

In order to streamline the process and help the organisation achieve their goal of positive environmental impact, the ICFAI Foundation for Higher Education has adapted the following strategies:

- Ensuring management commitment and support
- Developing a corporate environment policy statement
- Creating an environmental management system
- Preparing an environmental action program
- Establishing an environmental audit program
 - EMS Audit
 - Transactional Audit
- Developing a strategy for external environmental reporting
- Generating revenue through recycling and waste management
- Introducing and marketing "eco-efficient" products and services
- Integrating the principles of sustainable development

(A) ENSURING MANAGEMENT COMMITMENT AND SUPPORT

In order to drive significant change in the organisation, the team will begin to focus their efforts from the executive board to provide the guidance to navigate change without altering the organisation's founding ethos and core values. The organisation will adapt an environmental strategy that exhibits its commitment towards the ultimate cause of sustainability in its operations. Environmental excellence has been given the most priority and drastic measure will be incorporated to meet the desired result as per the organisation's goal. Students and staff members have been clearly instructed about organisation's endeavour. To help quantify and streamline the procedures required, the organisation has developed a separate entity for managing its environmental friendly activities and making key environmental decisions.

PERFORMANCE MANAGEMENT

To help show visible results and quantify the efforts of the team, it is important to evaluate the performance of the organisation at regular intervals and provide key input to help improve the impact of the green policy. Keeping this in mind, the organisation will carry out audits at periodic intervals to find out its current position on environmental issues and identify potential areas for improvement.

(B) DEVELOPING A CORPORATE ENVIRONMENTAL POLICY STATEMENT

To promote the institution's outreach of eco-friendly efforts, the environmental strategies developed as per corporate environmental policy statement are built in organisation's mission, vision and all its core values and beliefs. It will serve as the principal signal for organisation's seriousness about environment to all the internal and external stake holders. Corporate environmental policy statement helps to ensure organisation's consistent approach and commitment in various stages. It will be added to the organisation's mission section of the annual environmental program statement report.

(C) CREATING AN ENVIRONMENTAL MANAGEMENT SYSTEM

Organisation will develop an effective Environment Management System to anticipate the change in regulations, risk associated and social, economic and competitive pressure to the organisation. The following elements are critical to implement the environmental strategy throughout the organisation:

- Policies and Procedures
- Alignment and Integration
- Accountability and Integration
- Managing Information

- Training and Management development

(D) PREPARING AN ENVIRONMENTAL ACTION PROGRAM

To help trickle down the efforts of the executive decisions towards environmental responsibility, action programs are important tools for organisations to develop and implement. It provides direction to transform organisation's goals into targets and prioritize the goals of the corporate environmental plan. It also identifies discrepancies between the company's environmental policy and performance and local deviations and avoidances and optimize it to maintain the credibility of the organisation's overall environmental strategy. The action programs needs to be concise in their structure and precise in their implementation.

(E) ESTABLISHING AN ENVIRONMENTAL AUDIT PROGRAM

It is important to draft a detailed, site-specific audit of the performance of the organisation and its compliance with the desired goal. The team must program periodic audits to address the past, current and future operations of the site that may have potential impacts on land, water and air. It may be prioritized and scheduled in regions with potential risk to environment. The two types of environmental audits are as follows

- EMS Audit
- Transactional Audit

EMS AUDIT

Evaluating management system is a crucial component of any environmental audit. Evolving regulations and directives acknowledge its importance. This is an important tool that can help the organisation get an overview of its performance.

TRANSACTIONAL AUDIT

This tool helps quantify the implications of the policy and it assesses the land or facility before any real estate or business divestiture for environmental risks and extent of liabilities to both buyers and sellers.

(F) DEVELOPING A STRATEGY FOR EXTERNAL ENVIRONMENTAL REPORTING

Organisation is willing to expand coverage of environmental issues in their reports. It will help organisation to secure a competitive position by communicating the organisation's real commitment to continuous improvement. EHS, Legal and Management Accounting team will meet monthly to discuss organisation's present and future environmental liabilities and possible disclosures to fulfil regulatory requirements.

(G) GENERATING REVENUE THROUGH RECYCLING AND WASTE MANAGEMENT

In this strategy pollutants will be withheld from entering the outdoor environment and waste will be reused. It results in the elimination of waste disposal costs, decrease material costs and generation of revenue from saleable waste. The organisation uses a total life-cycle approach which results in significant reduction in volume of packaging and the amount of waste produced.

(H) INTRODUCING AND MARKETING "ECO-EFFICIENT" PRODUCTS AND SERVICES

Organisation will procure materials that will come from sustainable sources of supply. It will find ways to reduce packaging and use more recycled materials. Research and development team will also be commissioned to identify process that use energy more efficiently by methods such as waste to energy and material reuse.

(I) INTEGRATING THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT

Organisation's goal is to eliminate all agitation and prevent adverse environmental and health impacts, reduce waste and emissions and promote resource conservation at every stage of the life cycle. Organisation will report its progress and be very responsive to public.