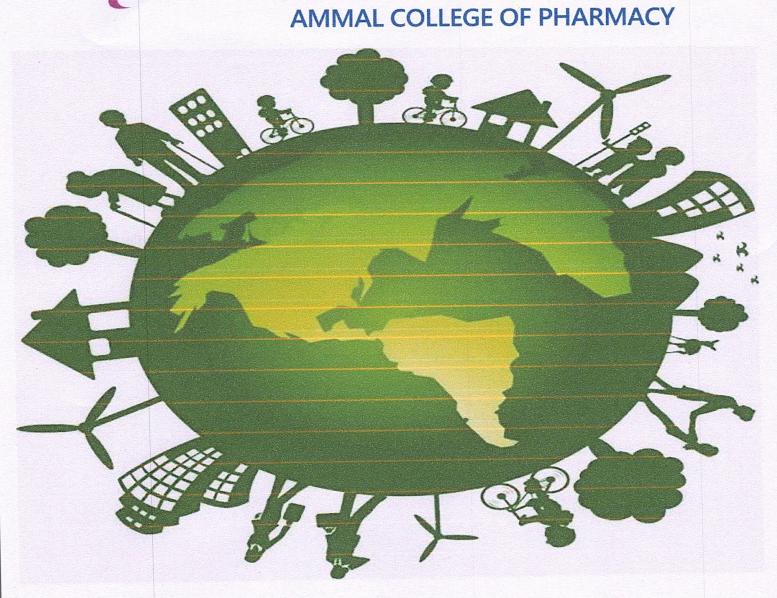


GREEN AUDIT REPORT FOR JKKMMRF'S - ANNAI JKK SAMPOORANI



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Namakkal (Dt), Tamil Nadu

Green Audit Report No: GA05112024



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Acknowledgment

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to JKKMMRF's - Annai JKK Sampoorani ammal College of Pharmacy, Tamil Nadu for entrusting the task of conducting green audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.



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Site Information

Name of College	JKK Munirajah Medical Research Foundation's – Annai JKK Sampoorani Ammal College Of Pharmacy		
College Address	Ethirmedu, B.Komarapalayam, Namakkal (Dt) – 638 183, Tamilnadu.		
Execution Partner	ELION Technologies & Consulting Pvt Ltd		
Communication Address	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi, 110018		
Date of Audit	05 th November 2024		
Year of Audit	2024 – 2026		
Total Covered Area of College	2.72 Acres		
Total Green Area	0.54 Acres		



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Overview of Institute

JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam. The institution offers D. Pharm., B. Pharm., Pharm. D., M. Pharm. (in7 specializations), Ph.D., and Certificate courses. The undergraduate and post graduate programs are approved by Pharmacy Council of India (PCI), New Delhi, All India Council for Technical Education (AICTE), New Delhi and affiliated to The Dr.MGR Medical University, Chennai, Tamil Nadu.

The Faculty and Students of the College of Pharmacy will be innovators and leaders in transforming healthcare to create positive patient outcomes through the discovery and Research.

Our Mission is to advance societal health through leadership in Pharmacy Education, Research, Community engagement and Patient care.

List of courses offered by the institute:

- B. Pharm
- · Pharm D
- M. Pharm



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Introduction

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyses environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students' better understanding of green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus, it is imperative that the college evaluate its own contributions toward a sustainable future. 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.

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO2 from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

Advantages of Green Audit:

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Some main advantages of green Audit are:

- It helps to shield the environment.
- Minimizing the waste and managing the cost.
- Authenticate conformity with the implemented laws.
- Minimizing the energy consumptions and focus on green and clean energy.
- Ambient Environmental Condition.
- Awareness and Training on Sustainability for Students.
- Awareness about environmental guidelines and duties.

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Environment Setting

The land use around the campus is mainly comprised of Greenland and highways.



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Location of JKKMMRF's - Annai JKK Sampoorani ammal College of Pharmacy

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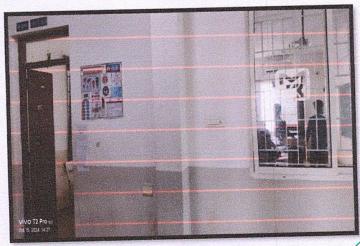
Green Audit

For Green Audit following 13 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Efficiency
- f) On-site Energy Generation
- g) Temperature and Acoustic Control
- h) Paper Waste Management
- i) E-Waste Management
- j) Canteen and Solid Waste Management
- k) Universal Access and Efficient Operation and Maintenance of Building
- I) Green Belt
- m) Green Programs (Green initiatives)

3.1 Good Daylight Design and Ventilation

- a) Corridors are wide with good ceiling height. All the corridors receive good daylight.
- b) Classrooms, Labs and Library have large windows. Adequate daylight is received through the windows during daytime.
- c) Classroom walls, corridors and labs are white-washed, this enhances the daylight received.
- d) Washrooms are provided with exhaust fans to disperse heat, fumes and odors.
- e) Stair cases receive daylight through windows provided at various levels.
- f) Curtains are provided on some of the windows to avoid glare.



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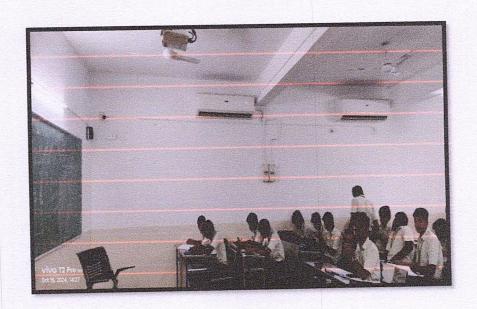
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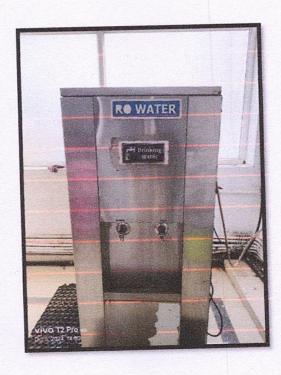


3.2 Water Efficiency:

- a) Ground water supply is the main source for water supply in the campus.
- b) Ground water is stored in various overhead and underground tanks, list is given below:

Location	Tank Capacity	Type (Underground/Overhead	
North east corner	20000 Lit	Underground	
South west corner	20000 Lit.	Underground	
Main Block	25000 Lit.	Overhead	
PG Block	10000 Lit.	Overhead	
UG Block	10000 Lit.	Overhead	
Hostel	15000 Lit.	Overhead	

- c) Water coolers are used for drinking purposes.
- d) Normally mops are used for floor cleaning.
- e) Normal taps are used for handwash purpose, it is recommended to install water efficient taps.
- f) Dual flushing system is provided in the washrooms.
- g) Signages are provided in washrooms emphasizing water conservation.
- h) Water from air conditioning unit and reject water from water purifiers is used for watering the plants.



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3.3 Wastewater Management:

a) Sewage treatment plant is not available in the campus.

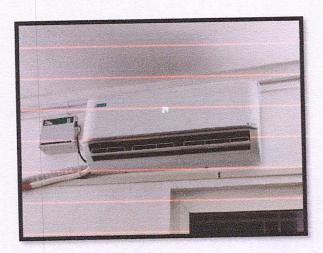
3.4 Indoor Air Quality;

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutants are listed as below:

- Molds and other allergens This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.
- Carbon monoxide Sources of carbon monoxide are incomplete combustion of fossil fuels.
- Volatile organic compounds (VOCs) VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.
- Carbon dioxide Due to human respiration
- Particulate matter Due to construction and maintenance activities

Major observations under indoor air quality are as below:

a) In classrooms the mode of ventilation is natural (through windows) and is enhanced by fans. Air conditioners are used in some of the rooms.





b) Indoor plants are seen in the College. Indoor plants can be plotted not only for the

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aesthetic appearance but also for health benefits. Refer Annexure 1 for details.

- c) Exhaust fans are provided in the washrooms and labs.
- d) Green belts have been set up in campus area.
- e) Indoor Air Quality tests have not been carried out. Same needs to be carried out at least once a year.

3.5 Energy Efficiency:

Electricity:

Power is supplied by Tamil Nadu State Electricity Distribution Co. Ltd. The major electricity consuming equipment installed in the campus are Windows and Split AC, Submersible Motor, Motors, Desktop, Printer, Fan, Tube light, LED Bulb etc.

Following are details of energy consumption:

It was observed that:

- a) Campus has air conditioners which are in good working condition.
- b) Energy efficient LED lights are installed in campus which helps in reducing the energy consumption. And LED bulbs are being replaced with the dysfunctional conventional tube lights and bulbs by the Institute.
- c) The Institute is significantly moving towards other source of energy and installed a solar energy system in the Campus to fulfil its requirement. The purpose is to limit the use of conventional energy resources such as electricity and Diesel.
- d) The Institute have control over uses of ACs and limit the use during transition period of seasons.

3.6 On Site Energy Generation (usage of LPG/ Natural Gas):

- a) LPG is provided in the canteen for cooking.
- b) Multiple DG sets are available (120 KVA) for the backup supply, Average running 40 hours per month.



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3.7 Temperature and Acoustic Control

- a) White washed rooms & corridors and white/ off-white flooring improve the lighting conditions.
- b) The entire campus has green area some specific locations are near main gate, garden area and around college.
- c) The campus has done tree plantation all around which helps in reducing temperature.
- d) There is no noise pollution around the campus.





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3.8 Paper Waste Management:

Being academic institution, waste paper is the main solid waste generated in the premises. The College has taken steps to minimize and avoid paper usage.

It was observed that:

- a) Prints and photocopies are taken on both sides of the pages to avoid excess paper usage. Rather than photocopy, digitalization (scanning) is practiced.
- b) Papers are kept for a reasonable time before being sliced and disposed through vendors.
- c) Faculty and administration staff uses old papers and envelops for internal usages as rough work, file markers, page separators etc.
- d) Mostly, the internal communication is done through WhatsApp groups. The college has created a domain mail for all its faculty and staff. The paper notices are used with an intention of documenting the files as per the requirements of the University, NAAC and NBA.



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3.9 E-Waste Management:

- a) The campus is digitalized to a large extent. This includes classrooms, library, internal mails etc.
- b) E-waste Policy is available in the campus.

3.10 Solid Waste Management:

It was observed that:

- a) We have ensured that every classroom contains a dustbin, so as to enable the students to throw the litter into them.
- b) Wet waste and dry waste segregation is practiced in the premises. Separate bins are provided for wet biodegradable and dry recyclable waste.
- c) The waste generated is disposed of by composting.



3.11 Universal Access and Efficient Operation and Maintenance of Building:

It was observed that:

- a) College is easily accessible. Staircase and ramps are provided for staff and students.
- b) Since staircases are uncluttered, it is possible to have a safe evacuation during emergency.
- c) Fire Fighting equipment's (Fire Hydrant, Hose Reel and Fire Extinguishers) are provided for emergency. They are inspected and serviced by fire protection Service Company annually.
- d) Directional exit signages and floor markings are present on every floor of the campus.
- e) Regular Fire Safety Trainings is given to staff of the college on regular basis.

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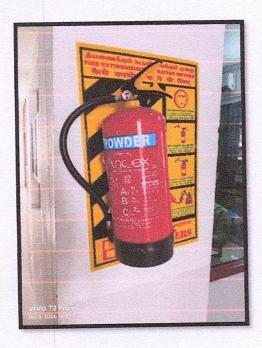
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3.12 Green belt/ Landscaping:

a) Large trees and plants are planted in the premises. Plantation also helps maintaining lower temperatures of the area.

3.13 Green Initiatives:

a) College is regularly celebrating cultural programs along with Environment Day, Yoga Day, Earth Day etc.





Cultural programs





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Environment day





Yoga Day

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Earth day

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Recommendations/Suggestions

For Improving Energy Consumption:

- a) Every classroom and lab with central switch board can have a diagram linking location of a tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.
- b) Installation of automatic lights with sensors can be considered.
- c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing. Equipment with star rating, using eco-friendly materials; with safe disposal policy to be preferred. Policy of returning equipment at the end of life span to the supplier to be preferred.
- d) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.
- e) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.
- f) If possible, computers should be switched off from main power connections.
- g) Notices/signages can be put up/displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use.
- h) Control sensors can help to reduce consumption by automatically dimming lights when people are not around, and keeping blinds open to use natural light & reduce energy consumption.
- i) Raise awareness:
 - Encourage students to help in monitoring energy consumption & implement corrective actions.
 - Integrate energy education into classroom learning.

Water Conservation:

- a) Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- b) Dry sweep or use a sponge broom, when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- c) Minimize/ reduce water usage by installing water saving faucets such as pressmatic taps, tap aerators, jet sprays etc.
- d) Installation of waterless urinals can be considered to reduce water consumption.
- e) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.

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Paper and other Solid Waste Reduction:

- a) Inventories of all solid waste generated in the premises must be maintained.
- b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.
- c) Standard Operating Procedures (SOP) for Solid and E-waste management and for recycling of waste should be prepared & practiced. The SOP's may include collection, segregation and reuse of different types of wastes, if any (e.g. biodegradable waste for composting). This will help in safe disposal of waste to recycle agencies.
- d) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin.
- e) The college can introduce online app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.
- f) Paper usage shall be monitored to understand the impact of digitization in the facility.

Others:

- a) Water from air conditioning unit and reject water from water purifiers is not used anywhere, same should be utilized.
- b) Indoor Air Quality tests have not been carried out. Same needs to be carried out at least once a year.
- c) Environmental advisory committee could be formed. The discussions/ information sharing among different departments can generate lot of ideas and awareness on green issues.
- d) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.
- e) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc.). Short 30 second pop up can be displayed on computer screens when they are on standby mode. Or wallpapers informing students about environment conservation can be created.
- f) Consider detailed energy audit (energy consumption, thermal emission, visual comfort) and water audit.
- g) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.

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Annexure 1 – Indoor Gardening Details

Indoor plants are commonly used for their aesthetics benefits but they also have vital role reducing airborne pollution. The right choice of plants can be an excellent way of improving indoor air quality and general health. Local landscape contractor can be contacted for supply and rotation of these plants.

Plants	VOC it removes	Indoor source of VOC's	Plant care
Aloe Vera	Formaldehyde, Trichloroethylene and Benzene	Chemical based cleaners and paints	Easy to grow with enough sunlight
Bamboo Plant	Formaldehyde, Trichloroethylene and Benzene	Paints, Plastics, Wood products etc.	Thrives under low light conditions as well as easy to maintain
Chinese Evergreen	Benzene	Paints	Low maintenance plant that prefers low light conditions.
English Ivy	Formaldehyde, Benzene, Air borne fecal matter particles	Wood, Paper products, Air borne fecal – matter particles from pests	Easy to maintain

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Janet Craig	Formaldehyde, Benzene and Trichloroethylene	Paints, Plastics, Wood products etc.	Medium to low light tolerant plant. Requires little water for growth.
Golden Pothos or Devils Ivy	Formaldehyde, Cleanses air	Exhaust fumes, carpeting materials, panelling and furniture products made with particle board	Extremely easy to maintain under low to bright light conditions. Fast growing and grows well under Fluorescent light.
Mass Cane	Formaldehyde, benzene and trichloroethylene	Paints, Plastics, Wood products etc.	Medium to low light tolerant plant. Requires little water for growth.
Snake plant	Formaldehyde and trichloroethylene	cooking fuels, wood products, facial tissues, personal care products and waxed papers	Drought resistant and Tolerates a variety Of light conditions. Hard to damage or kill.

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Peace Lily	Formaldehyde, benzene and trichloroethylene	Paints, Plastics, Wood products etc.	Relatively easy to maintain. Survives in low light conditions.
Red-edged Dracaena	Formaldehyde and trichloroethylene	cooking fuels, wood products, facial tissues, personal care products and waxed papers	Drought resistant and Tolerates a variety of light conditions. Hard to damage or kill.
Spider Plant	Formaldehyde, benzene, carbon monoxide and xylene	cooking fuels, wood products, Printing	Easy to maintain under medium to bright light condition.
Parlor Palm	Purifies indoor air	-	Easy to maintain

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Namakkal (Dt), Tamil Nadu

Energy Audit Report No: ENEA05112024



Acknowledgement

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to JKKMMRF's - Annai JKK Sampoorani ammal College of Pharmacy, Tamil Nadu for entrusting the task of conducting energy audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.



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Namakkal (Dt), Tamil Nadu

Energy Audit Report No: ENEA05112024



Site Information

Name of College	JKK Munirajah Medical Research Foundation's – Annai JKK Sampoorani Ammal College Of Pharmacy		
College Address	Ethirmedu, B.Komarapalayam, Namakkal (Dt) – 638 183, Tamilnadu		
Execution Partner	ELION Technologies & Consulting Pvt Ltd		
Communication Address	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi, 110018		
Date of Audit	05 th November 2024		
Year of Audit	2024 – 2026		
Main Energy Consuming Machines/Equipment's considered for Energy Audit	 Lighting & Fans Air Conditioners Motors & Pumps Desktops & Printers 		



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Executive Summary

JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam. The institution offers D. Pharm., B. Pharm., Pharm. D., M. Pharm. (in7 specializations), Ph.D., and Certificate courses. The undergraduate and post graduate programs are approved by Pharmacy Council of India (PCI), New Delhi, All India Council for Technical Education (AICTE), New Delhi and affiliated to The Dr.MGR Medical University, Chennai, Tamil Nadu.

The Faculty and Students of the College of Pharmacy will be innovators and leaders in transforming healthcare to create positive patient outcomes through the discovery and Research.

Our Mission is to advance societal health through leadership in Pharmacy Education, Research, Community engagement and Patient care.

List of courses offered by the institute:

- B. Pharm
- Pharm D
- · M. Pharm

The energy audit included detailed data collection, analysis of data and identification of specific energy saving proposals.



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Chapter 01: Introduction

JKKMMRF's - Annai JKK Sampoorani ammal College of Pharmacy, Tamil Nadu evinced interest in availing the services of Elion Technologies and Consulting Pvt Ltd for conducting energy audit of their premises.

Elion Technologies and Consulting Pvt Ltd team conducted the Detail Energy audit on 05th November 2024.

This report is on the energy audit carried out in JKKMMRF's - Annai JKK Sampoorani ammal College of Pharmacy, Tamil Nadu. The detailed energy audit comprised of the following activities:

- Data collection of power consuming equipment's.
- A brief session on energy management was conducted to seek more inputs from the personnel engaged in operation and maintenance of electro mechanical services.
- Analysis of collected data.
- Discussion with the officials on the identified proposals.
- Discussion and reporting of the findings of energy audit with the Engineers and management staff.

All the identified energy savings proposals have been discussed with the executives concerned before finalizing the projects.

The contents of the report are based solely on the data provided by JKKMMRF's - Annai JKK Sampoorani ammal College of Pharmacy, Tamil Nadu officials during the energy audit.

The management should implement the suggestions made in the report after verifying requisite safety aspects.

Methodology for Energy Audit:

The following is a list of general procedure and information undertaken during the energy audit:

- · General information of the site.
- Baseline energy description.
- · Past energy consumption bills which include electricity bills.

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- On site data collection
- Energy analysis of different sectors.
- Recommendation of energy conservation measures.

The primary goal of the energy audit was to identify sources and areas of potential energy savings and cost saving throughout the Plant by measures of optimization, replacement, retrofitting, and on the other hand, to also provide recommendations on operational and maintenance practices improvements.



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Chapter 02: Energy Consumption Details

List of equipment present in the campus:

Rating of Transformer (in KVA)	250KVA
Year of installation of the Transformer	-
Rating of DG Set (in KVA)	150KW
Rating of Capacitor Bank (if present)	- -
Capacity of Solar Power Plant (if installed)	15 KW

The main areas of energy consumption as observed during the audit are as follows:

- Air Conditioners
- Lighting & Fans
- Motors & Pumps
- Desktops & Printers

The main sources of energy to meet the required consumptions are as follows:

- Electricity supply from Tamil Nadu State Electricity Distribution Co. Ltd.
- DG sets of rating 150 KW.
- Solar power plant of capacity 15KW.

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Chapter 03: Lighting System

The lighting inventory of the colleges present in the university were collected and following is the summary:

Type- LED/CFL/Conventi onal -Bulb/Tube Light	Location	Rating	Qty	Number of Hours being turned on
LED	Principal Room	22 W	10	5
LED	Board Room	22 W	12	3
LED	Office	22 W	14	5
LED	V.P Room	22 W	2	4
LED	Reception Hall	22 W	1	1
CFL AND LED	All Toilets	20 W CFL 22 W LED	4 CFL +8 LED	6
LED	Store Room	22W	2	5
LED	All Class Room (12 Nos)	22 W	44	Avg 3 Hours
LED	Library	22 W	7	5
LED	All Corridors (3 Nos)	22 W	29	Avg 3 Hours
LED	All Staff Room (16 Nos)	22W	16	Avg 5 Hours
LED	Computer Lab (01 No)	22W	10	Avg 4 Hours
LED	All Steps (3 Nos)	22 W	8	Avg 3 Hours
LED	ALL New Lab (2 Nos)	22 W	30	Currently No use
LED	ALL labs	22 W	7	Avg 3 Hours
LED	Exam Hall	23 W	21	Only during exams 8 Hours)
Tube Light	All Labs (7Nos)	40 W	46	Avg 4 Hours
Tube Light	All class Room(3 Nos)	40 W	12	Avg 4 Hours
Tube Light	ALL HOD Room (5)	40 W	5	Avg 5 Hours

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Tube Light	All Staff Room (6 Nos)	40 W	6	Avg 5 Hours
Tube Light	Seminar Hall	40 W	4	Only during Seminars and functions 8 Hours)
Tube Light	All Corridors (3 Nos)	40 W	. 8	If necessary
	All Labs (10Nos)	40 W	71	
Tube Light	Staff Room	40 W	3	
Tube Light	ALL HOD Room (2)	40 W	2	
Tube Light	All Corridors (3 Nos)	40 W	6	

Observation:

- LED Lights along with conventional lights such as CFL are installed in the campus.
- Campus management has started replacing old conventional lights with energy efficient LED lights in a phased manner.

Recommendation:

- Occupancy sensors can be installed in cabins and spaces where continuous lighting is not required.
- Sticker to SWITCH OFF LIGHT and SAVE ENERGY to be displayed.
- Regular cleaning of light fixtures to be done to get maximum lux level.



PLEASE TURN OFF
THE LIGHTS.
HELP SAVE
ENERGY!

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Chapter 04: Pumps and Motors

Pump is generally used for pumping of ground water to the water tank. The details of the pumps are given below:

Name of Pump and Make	Name Plate Details					
	Running Hours	Any VFD	Rated Capacity in HP	Flow Rate (LPM)	Head (m)	RPM
Pump 1	10	No	10.0	1500	-	1500
Pump 2	10	No	7.5	1050	-	1500
Pump 3	10	No	5.0	720	-	1500

Name of Motor and Make	Name Plate Details						
	Running Hours	Any VFD	Rated Capacity in KW	Efficiency	Ampere	RPM	
Motor 1	<u>-</u>	No	0.7	-	5	2000	
Motor 2	-	No	0.7	-	5	2000	
Motor 3	-	No	0.7	-	5	2000	
Motor 4	-	No	0.7	-	5	2000	

Observation:

All pumps and motors are functioning properly and well maintained.

Recommendation:

Proper maintenance and upkeep of pump and motor to be done.

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Chapter 05: Air Conditioning

Split ACs are used in facility for air conditioning. Following is the list of ACs present in the campus:

Type Windows/Split/Package and Location	Capacityin Ton	Whether any star rating available	Set temperature	Running Hours	Whether AC performance is satisfactory Yes/No
Principal Room - Split AC (1 No)	3	5	23 – 25	8	Yes
Board Room (2 Nos of Split Ac)	3	5	23 – 25	8	Yes
12 Class Room (22 Nos of Split Ac)	3	5	23 – 25	6	Yes
Computer Lab (02 Nos of Split Ac)	3	5 .	23 – 25	4	Yes
Seminar Hall (03 Nos of Split Ac)	2	3	23 – 25	-	Yes
Labs (4 Nos)	2	3	23 – 25	-	Yes
Labs (1 Nos)	2	3	23 – 25	-	Yes

Observation:

- All air conditioners are found to be functioning properly and well maintained.
- Most of the air conditioners used are 3-star & 5-star which is a good practice.

Recommendation:

- All doors to be kept closed while using the air conditioners and regular annual service of AC's should be carried out.
- Set Temperature of Air Conditioner shall be maintained at 26°C.
- A reduction in 1°C set point temperature, the energy cost comes down by 5%. By carefully selecting the seasonal temperature in different areas as per requirement considerable saving on account of power consumption can be achieved.

 Whenever Air Conditioners are replaced in future, BEE 5 star rated air conditioners shall be considered which are energy efficient.

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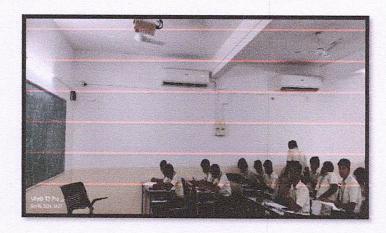
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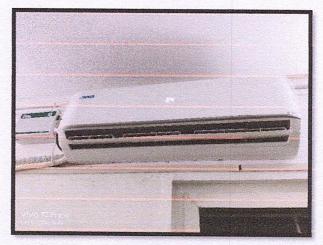
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 Management should consider installation of programmable microprocessor-based energy saver for air conditioners to achieve savings up to 30%.







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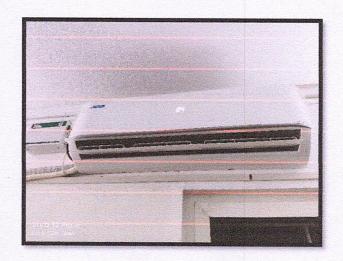
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Chapter 06: Photographic Evidence





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FOR JKKMMRF'S - ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY



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Acknowledgement

Elion Technologies and Consulting Pvt Ltd thanks the management of JKKMMRF's - Annai JKK Sampoorani ammal College of Pharmacy, Tamil Nadu for assigning this important work of Environmental Audit. We appreciate the co-operation to our team for completion of study.

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.



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Site Information

Name of College	JKK Munirajah Medical Research Foundation's – Annai JKK Sampoorani Ammal College Of Pharmacy
College Address	Ethirmedu, B.Komarapalayam, Namakkal (Dt) – 638 183, Tamilnadu
Execution Partner	ELION Technologies & Consulting Pvt Ltd
Communication Address	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi, 110018
Date of Audit	05 th November 2024
Year of Audit	2024 – 2026
Total Covered Area of College	2.72 Acres
Total Green Area	0.54 Acres



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Concept

The term 'Environmental audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Environmental Audit, many leading companies/ institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

The European Commission, in its proposed regulation on environmental auditing, has also adopted the ICC definition of Environmental Audit.



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Introduction

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance. This innovative scheme is user-friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations.



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Overview of Campus

JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam. The institution offers D. Pharm., B. Pharm., Pharm. D., M. Pharm. (in7 specializations), Ph.D., and Certificate courses. The undergraduate and post graduate programs are approved by Pharmacy Council of India (PCI), New Delhi, All India Council for Technical Education (AICTE), New Delhi and affiliated to The Dr.MGR Medical University, Chennai, Tamil Nadu.

The Faculty and Students of the College of Pharmacy will be innovators and leaders in transforming healthcare to create positive patient outcomes through the discovery and Research.

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List of courses offered by the institute:

- B. Pharm
- · Pharm D
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Audit Objectives

The broad aims/ benefits of the eco-auditing system would be -

- Environmental education through systematic environmental management approach
- Improving environmental standards
- · Benchmarking for environmental protection initiatives
- · Reduction in resource use
- · 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
- · Enhancement of university profile
- Developing an environmental ethic and value systems in young people



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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.

This is second environmental audit of campus for NACC affiliation; QS Program and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion 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.



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Environmental Audit - Questionnaire

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

- I. Waste Minimization and Recycling
- II. Greening
- III. Energy Conservation
- IV. Water Conservation
- V. Clean Air
- VI. Animal Welfare
- VII. Environmental Legislative
- VIII. General Practices

Is any Environmental Audit conducted earlier? Yes, (2022-2024)

What is the total permanent population of the Campus?

	Male	Female	Total	
Students	611	267	878	
Teachers	25	33	58	
Non-Teaching Staff	5	39	44	
Sub Total	641	339	980	
Approximate Number of Visito	ors (Per day)		15	
What is the total number of working days of your campus in a year?				

Where is the campus located?

Ethirmedu, Thattankuttai Panchayat, B.Komarapalayam Taluk, Namakkal District – 638183, Tamilnadu.

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Which of the following are available in your campus?

1	Garden area	Yes
2	Playground	Yes
3	Kitchen	Yes
4	Toilets	Yes
5	Garbage Or Waste Store Yard	Yes
6	Laboratory	Yes
7	Canteen	Yes
8	Hostel Facility (Numbers)	Yes (3 Hostels)
9	Guest House	Yes

Which of the following are found near your campus?

1	Municipal dump yard	Yes
2	Garbage heap	Yes
3	Public convenience	Yes
4	Sewer line	Yes
5	Stagnant water	Yes
6	Open drainage	Yes
7	Industry – (Mention the type)	No
8	Bus / Railway station	Available
9	Market / Shopping complex / Public halls	Yes

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I - WASTE MINIMIZATION AND RECYCLING

1.	Does your institute generate any waste? If so, what are they?	Yes. Paper & Carton Boxes etc.,
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	5 Kg per day.
3.	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	Composting
4.	Do you use recycled paper in institute?	No
5.	Do you use reused paper in institute?	No
6.	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	No
7.	Can you achieve zero garbage in your institute? If yes, how?	No

II - GREENING THE CAMPUS

1.	Is there a garden in your institute?	Yes	
2.	Do students spend time in the garden?	Yes	
3.	Total number of Plants in Campus	55 Plants	

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4.	Provide some names of trees	Neem, Eucalyptus, Amala tree, Mango Tree,		
	and plants in the campus.	Coconut tree etc.,		
5.	Is the university campus have any Horticulture Department?	No		
	If yes, number of Staff working in Horticulture Department?	NA		
6.	Number of Tree Plantation Drives organized by School per annum.(If Any)	3		
7.	Number of Trees Planted in Last year.	1500		
	Survival Rate	60%		
8.	Plant Distribution Program for Students and Community	Yes		
9.	Plant Ownership Program	Yes		

III - ENERGY

1.	List down ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	Electricity, LPG, Firewood etc.,
2.	Are there any energy saving methods, equipments, techniques employed in your institute? If yes, please specify. If no, suggest some	Yes. LED lights, Automatic Sensor etc.,
3.	Give an estimate of number of lights installed in your campus along with numbers?	400

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4.	Are any alternative energy sources employed/ installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	Yes. Solar Energy
5.	Do you run "switch off" drills at institute?	Yes
6.	Are your computers and other equipment's put-on power-saving mode?	Yes
7.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	Yes. 5 Hrs.

IV - WATER CONSERVATION

1.	List all the uses of water in your institute?	Drinking, Washing, Cleaning, Irrigation etc.,
2.	How does your institute store water? (mention tanks with capacity) Are there any water saving techniques followed in your institute?	Overhead Tank 60000 Lit. Underground Tank 40,000 Lit.
3.	If there is water wastage, specify why and how can the wastage be prevented/ stopped?	Not necessarily
4.	Locate the point of entry of water and point of exit of waste water in your institute. Entry- Exit-	Entry from sump Exit through drainage
5.	Write down few ways that could reduce the amount of water used in your institute?	Button type taps & Sensor Tape

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6.	Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.	Yes. Recorded
7.	Does your institute harvest rain water? (Please explain the method and uses)	Yes ground water tank & reuse.
8.	Is there any water recycling System.	Yes

V - CLEAN AIR

1.	Are the Rooms in Campus are Well Ventilated?	Yes				
2.	Number of windows per room (aggregate value to be provided)	4				
3.	What is the ownership of the vehicles used by your school? (Please Tick Donly one)	✓	Yes			
			Operat	or-owned	l vehicles	
		✓	School-owned vehicles			
				oination o and oper s		
4.	Provide details of school-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	4	2	2	2	10
	No. of vehicles more than five years old	2	<u>-</u>	2	2	6
	No. of Air conditioned vehicles	-	2	-	-	2
	PUC done	✓	✓	✓	✓	
5.	Specify the type of fuel used by your school's vehicles:	Buses	Car	rs V	'ans	Other
	Diesel	✓			✓	
	Petrol		✓			

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	CNG		✓	
	LPG			
	Electric		✓	
6.	Air Quality Monitoring Program (If Any)	No		
7.	Students suffer from respiratory ailments? (If Any)	Nil		
8.	Details of Diesel/Gas Generator. (Rating & Make)	Kirloskar	Power Generato	r - Diesel

VI - ANIMAL WELFARE

1.	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.) (if any)	Squirrels, Birds, Insects, etc
2.	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	Nil
3.	Does your institute have a Biodiversity Programme or a KARUNA CLUB?	No.

VII - ENVIRONMENTAL LEGISLATIVE COMPLIANCE

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your institute have any rules to protect the environment? List possible rules you could include.	By using public transport, planting a tree, using natural products, reducing meat consumption, avoiding single-use plastics, conserving water, and educating students about the environment
3.	Does Environmental Ambient Air Quality Monitoring conducted by the Institute?	No

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4.	Does Environmental Water and Wastewater Quality monitoring conducted by the Institute?	Yes
5.	Does stack monitoring of DG sets conducted by the Institute?	Yes
6.	Is any warning notice, letter issued by state government bodies?	No
7.	Does any Hazardous waste generated by the Institute? If yes explain its category and disposal method.	No
8.	Does any Bio medical waste generated by the Institute? If yes explain its category and disposal method.	Yes Animal waste, Using incinerator and burial

VIII - GENERAL

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your institute have any rules to protect the environment? List possible rules you could include.	By using public transport, planting a tree, using natural products, reducing meat consumption, avoiding single-use plastics, conserving water, and educating students about the environment
3.	What is the housekeeping schedule of garden and common areas in your institute?	Once in two days
4.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes. Involve students in classroom maintenance Reduce energy consumption plant program
5.	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. celebrated in your Campus?	Yes. World Environment Day celebration

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6.	Does Institute participated in National and Local Environmental Protection Movement?	Yes. Local Environmental Protection Movement.
7.	Does Institute has any Recognition/certification for environment friendliness?	Yes.
8.	Does Institute using renewable energy?	Yes. Solar Energy
9.	Does Institution conducts a green/environmental audit of its campus?	Yes.
10.	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	NAAC



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Recommendations

- Air Quality monitoring Programme should be implemented and Indoor air Quality Tests shall be carried out yearly.
- Environmental Water and wastewater quality monitoring shall be carried out yearly.
- Water efficient taps shall be used in the campus for saving the water.
- Paper shall be used reused in the campus.
- Old and conventional lights such as CFL, Fluorescent lights shall be replaced with energy efficient LED lights.



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Conclusion

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. Overall, large amount of campus is for landscaping. The audit has identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for university campus team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but recommendation is made in this report which would further strengthen the goal to achieve 100% environment friendly campus.



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- The Environment [Protection] Act 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 The Petroleum Rules: 2002
- · The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
- Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control of Pollution] Act 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Water [Prevention & Control of Pollution] Cess Act-1977 (Amended 2003) and Rules- 1978
- The Air [Prevention & Control of Pollution] Act 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules 2016 (Replaces the Gas Cylinder Rules 1981
- · E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement)
 Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices

End of Report

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ENERGY AUDIT REPORT FOR FOR JKKMMRF's - ANNAI JKK SAMPOORANI

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It is found that sustainable measure are taken by the campus in reduction in energy consumption. Several measures are taken by college management for promoting energy efficiency. In-house solar power plant is also installed.

Audit Date - 05/11/2024 Valid Up to - 04/11/2026 **Audit Officer**

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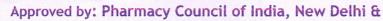
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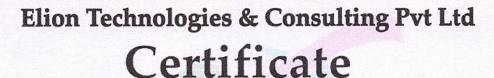




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College has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified. The efforts taken by the college towards environment and sustainability is highly appreciated and commendable.

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Campus has submitted necessary data and credentials for scrutiny. The college has ample amount of greenery and plantation which helps in maintaining the good quality air all around the campus and also helps in preventing soil erosion.

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