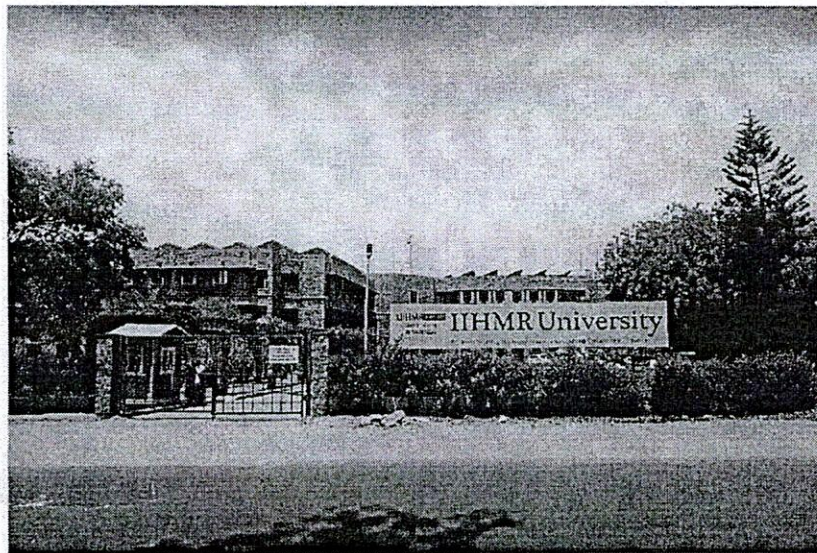
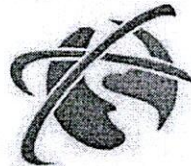


**GREEN AUDIT REPORT
FOR
IIHMR UNIVERSITY
1, Prabhu Dayal Marg, Near Sanganer Airport,
Jaipur, 302029**



**Carried For
Year 2022 - 2023**

Carried Out By



ELION TECHNOLOGIES & CONSULTING PVT LTD

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Certificate

This is to certify that Green Audit at IIHMR University 1, Prabhu Dayal Marg, Near Sanganer Airport, Jaipur, 302029 was carried out for the year 2022 - 2023.

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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Audit Officer

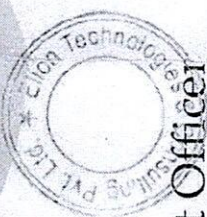
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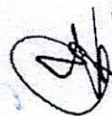
Elion Technologies & Consulting Pvt Ltd

Certificate

This is to certify that Environment Audit at IIHMR University 1, Prabhu Dayal Marg, Near Sanganer Airport, Jaipur, 302029 was carried out for the year 2022 - 2023.

Campus has submitted necessary data and credentials for scrutiny. It is found that college is an oxygen tank. The college also had 100 percent rain water of roofs recharging soil and is helping in maintaining in the campus underground water table.




Audit Officer

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1. INTRODUCTION

The genesis of IIHMR University dates to October 5, 1984, when the Indian Institute of Health Management Research (IIHMR) was established. IIHMR University has been established and incorporated as a postgraduate research university by the Government of Rajasthan vide the IIHMR University, Jaipur Act, 2014 (Act No. 3, of 2014). IIHMR University is UGC recognized, NAAC accredited and ranked 90th NIRF 2022 (Management). IIHMR University has a unique organizational culture that enshrines core values and ethos of autonomy, accountability, openness, and transparency. The multi-disciplinary teams of faculty representing public health, management, economics, statistics, demography, social and behavioral sciences, constitute an enabling environment for learning, professional growth and development. The Ministry of Health and Family Welfare, Government of India identified the university as an 'Institute of Excellence' for its significant contribution in training and capacity building.

IIHMR University has significant contribution towards capacity building of in-service professionals. The University has consistently engaged in capacity building programmes for national and international participants working with government, national and international NGOs, and private sector organizations. We organised Management Development Programmes (MDPs), WHO Fellowship Programmes, Professional Development Courses (PDCs) in Management, Public Health and Health Sector Reforms for District Level Medical Officers of Government of Rajasthan (sponsored by MOHFW-GOI), and Customised Training Programmes for various organizations. We have designed and organised training on Financing Healthcare in Developing Countries for many years. The participants from more than 40 countries were benefitted by our short-duration training programmes. Our programmes focused on developing competencies in leadership and management required for in-service participants working with government and non-government organizations for improving the performance of health systems. We have organised Training on Vaccine Economics in collaboration with Johns Hopkins University, USA and trained more than 100 mid-level professionals working for Universal Immunization Program.

The IIHMR University offers executive degree programmes in emerging and industry specific areas. We offer two-year (four-semester) executive degree programme in MPH (Executive), MHA (Executive). The executive programmes follow Learning Outcome Curriculum Framework (LOCF) as suggested by the


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University Grants Commission (UGC). The executive programmes of the IIHMR University are flexible to suit the needs of executive learning and are aligned to the New Education Policy 2020, Government of India.

IIHMR University offers the following programmes:

- MBA (Hospital and Health Management)
- MBA (Pharmaceutical Management)
- MBA (Development Management)
- Master of Public Health (in collaboration with Johns Hopkins University, USA)
- Master of Public Health in Implementation Science (WHO-TDR Fellowship Program)
- Executive MPH
- Executive MHA
- Ph.D

List of the Facility Building

Total Area: 14.37 Acres

Green Area: 10.05 Acres

List of personal interacted during audit

Name	Designation
Mr. Ashish Sharma	Head Administration
Mr. Rajeev Sharma	Chief Engineer
Mr. Raj Kapoor Raghav	Admin Officer

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2. ENVIRONMENTAL SETTING

The land use around the campus mainly comprises of residential and commercial area. The Jaipur International Airport is adjacent to the campus.



IIHMR University Campus


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Location of IIHMR University

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3. GREEN AUDIT

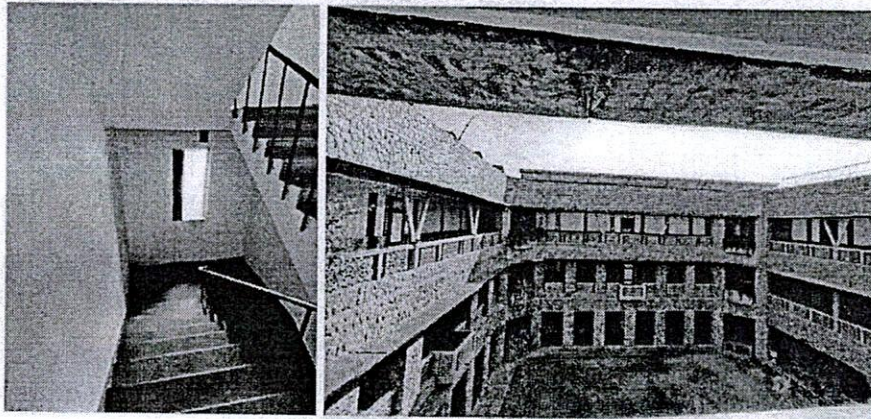
For Green Audit following 13 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- 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
- l) Green Belt
- m) Green Programs (Green initiatives)

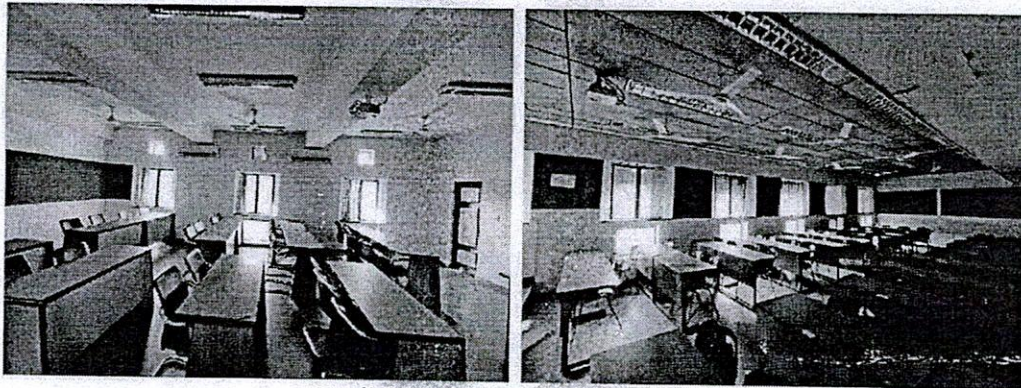
3.1 Good Daylight Design and Ventilation

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

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Daylight in Stairs & Corridors



Daylight in labs and classrooms

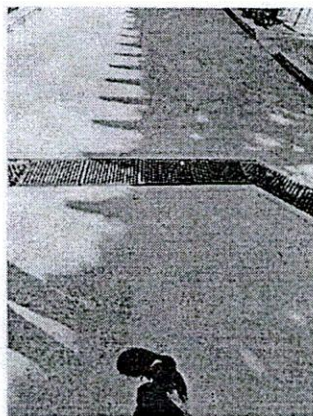
3.2 Water Efficiency:

- a) Bore well is used for water supply in the campus.
- b) Underground & Overhead tanks are used for water storage inside the campus.
- c) For drinking water coolers are available at prominent locations in the campus.
- d) Rain water harvesting system is available in the college campus.
- e) Water conservation faucets are available in the washrooms. Installation of such faucets can save water and will help in minimizing the water footprint of the institute.
- f) Normally mops are used for floor cleaning and hose is used for cleaning once a week
- g) Dual flushing system is provided in some of the washrooms.
- h) Signages are provided in washrooms emphasizing water conservation.
- i) Water from air conditioning unit and reject water from water purifiers is reused within the institute.

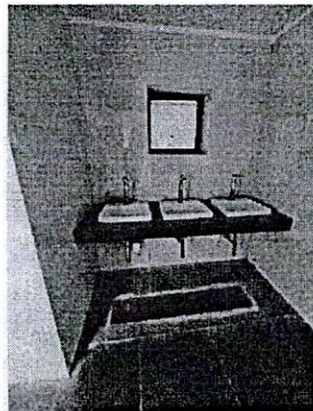
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Water coolers for drinking



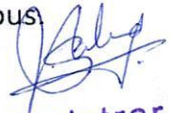
Rain water harvesting drains

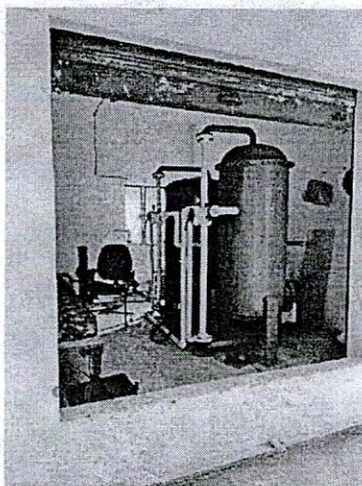


Sensor based taps in canteen

3.3 Wastewater Management:

- a) Sewage Treatment Plant is available in the campus
- b) Water from STP is used for gardening.


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STP

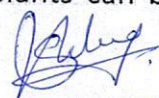
3.4 Indoor Air Quality:

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.
- 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 monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels.
- Carbon dioxide – Due to human respiration
- Particulate matter – Due to construction and maintenance activities

Major observations under indoor air quality are as below:

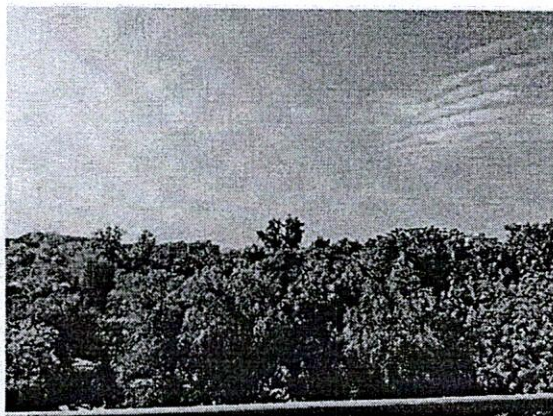
- a) In classrooms the mode of ventilation is natural (through windows) and also classrooms are provided with Air conditioners (Split, Package and Cassette).
- b) Green belts have been set up in campus area and the area is surrounded by lush green environment.
- c) Heating Ventilation and Air Conditioning (HVAC) system does not exist.
- d) Indoor plants are seen in the College. Indoor plants can be plotted not


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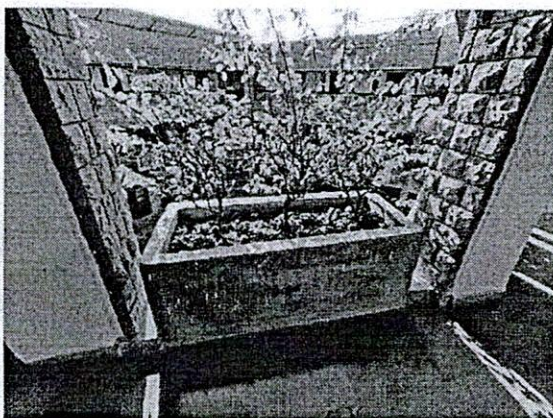


only for the aesthetic appearance but also for health benefits. Refer **Annexure 1** for details.

- e) Exhaust fans are provided in labs and washroom.
- f) IAQ awareness signage was missing in college. Information on sources, impacts and mitigation of indoor air pollution to be displayed within college for increasing awareness about indoor air pollution.
- g) Indoor Air Quality tests have not been carried out.



Green Belts



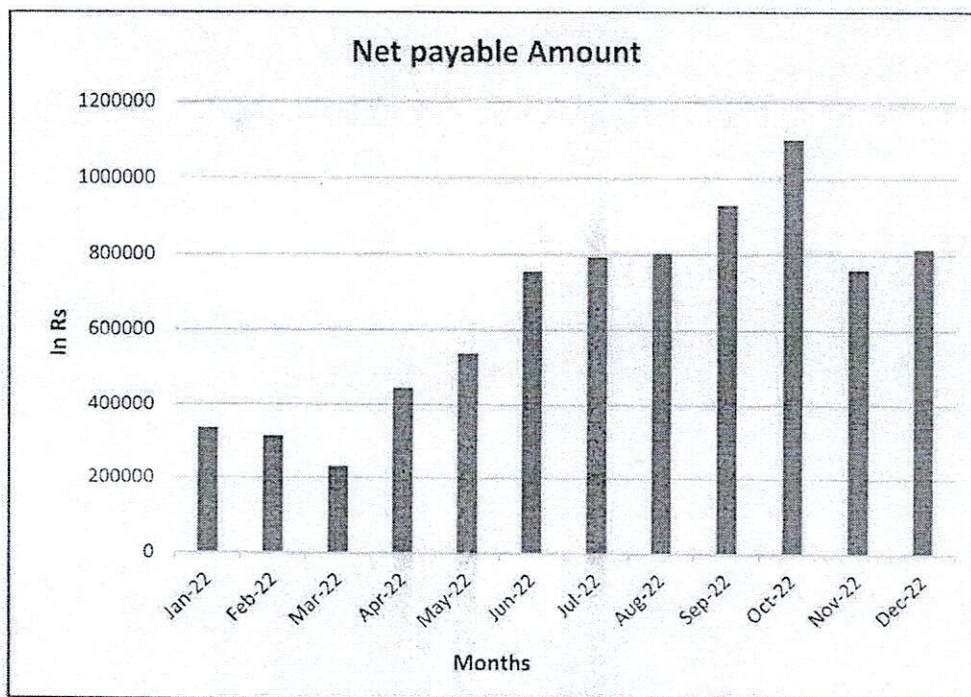
Indoor Plants

3.5 Energy Efficiency:

Electricity:

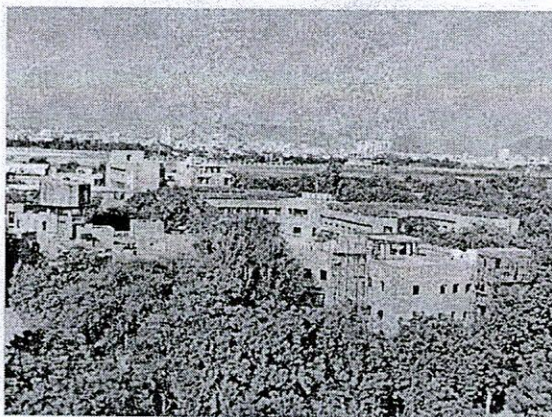
Power is supplied by Jaipur Vidyut Vitran Nigam Limited. The major electricity consuming equipment installed in the campus are Motors, air conditioners, Desktop, Printer, Fan, Tube light, LED Bulb and Street Lights.

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It was observed that:

- a) Solar power plant of capacity 100KW is installed in the campus.

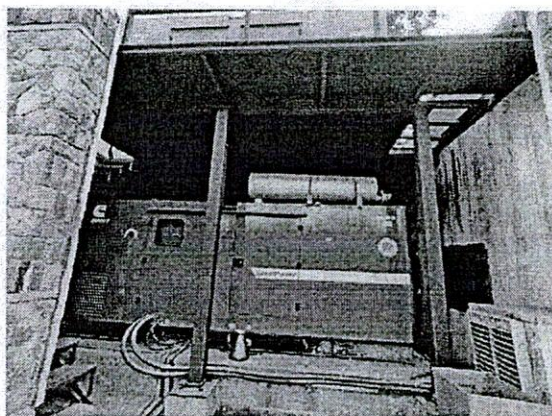


Solar Power Plant

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

- a) LPG is used in canteen and hotel mess for cooking.
- b) Back Up diesel generators are available.


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DG Sets

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.
- c) There is no noise pollution in the campus.

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) Old question papers & answer sheets are stored in the examination cell and a policy for disposal of these papers is under consideration.
- c) Paper notices are displayed on the notice boards.
- d) Internal notices and communications are through E-mail/SMS and paper both.

3.9 E-Waste Management:

- a) Policy for disposal of e-waste exists and there is also certification for e-waste recycling.

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3.10 Solid Waste Management:

It was observed that:

- Wet waste and dry waste segregation is practiced in the premises. Separate bins are provided for wet biodegradable and dry recyclable waste.
- Waste is collected and disposed through Municipality Waste disposal vehicle.



Separate Dustbins

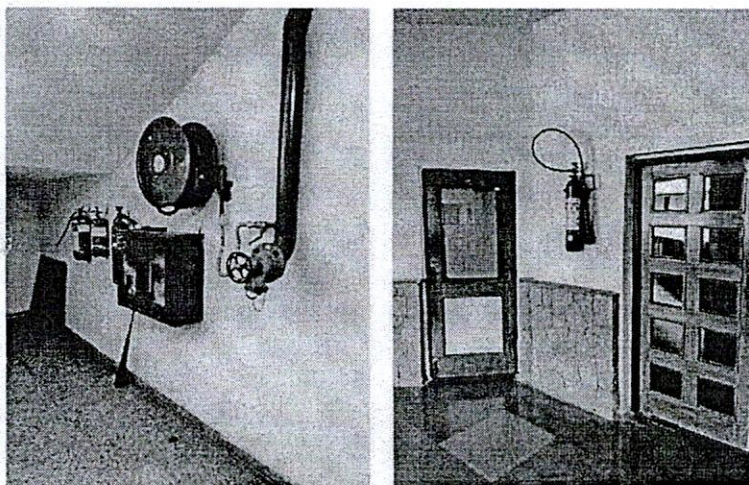

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3.11 Universal Access and Efficient Operation and Maintenance of Building:

It was observed that:

- a) College is easily accessible. Staircase is provided for staff and students.
- b) Ramps are provided for specially abled.
- c) Fire extinguishers and hydrants are provided in the campus.
- d) There are signages for emergency fire exit present. This is of crucial importance during emergency.
- e) Since the access and staircases are wide and uncluttered, it is possible to have a safe evacuation during emergency.
- f) Fire Safety Training is given to the staff regularly.



Fire Hydrants & Fire Extinguishers

3.12 Green belt/ Landscaping:

- a) Large trees are planted in the premises. Plantation also helps maintaining lower temperatures of the area. .
- b) Potted plants are also kept around the campus.
- c) Indoor plants are also kept along the corridors and entrance of the building.

3.13 Green Initiatives:

College is regularly celebrating Environment Day, Yoga Day, Festivals and other Cultural programs.


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4. RECOMMENDATIONS/ SUGGESTIONS

4.1 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) Conduct energy audit every two or three years and determine the lux levels within College. Energy audit can help in reduction in number of light fittings/ energy usage in the College.
- e) 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.
- f) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.
- 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) If possible, computers should be switched off from main power connections.
- i) 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.
- j) Raise awareness:
 - Encourage students to help in monitoring energy consumption & implement corrective actions
 - Integrate energy education into classroom learning.


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4.2 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) Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.
- e) Installation of waterless urinals can be considered to reduce water consumption.
- f) 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.

4.3 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) 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.
- e) Paper usage shall be monitored to understand the impact of digitization in the facility.
- f) 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.

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4.4 Others:

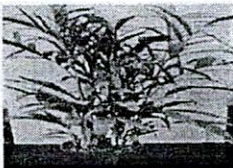
- a) Environmental advisory committee could be formed. The discussions/ information sharing among different departments can generate lot of ideas and awareness on green issues.
- b) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, 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.
- c) 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'.
- d) Consider detailed energy audit (energy consumption, thermal emission, visual comfort) and water audit.
- e) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.



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

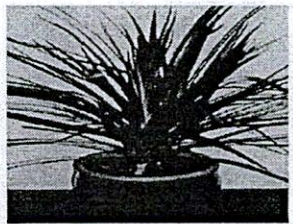
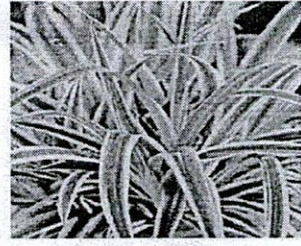
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 Janet Craig	Formaldehyde, Benzene and Trichloroethylene	Paints, Plastics, Wood products etc.	Medium to low light tolerant plant. Requires little water for growth.
 Golden Pothos or Devils Ivy	Formaldehyde, Cleanses air	Exhaust fumes, carpeting materials, 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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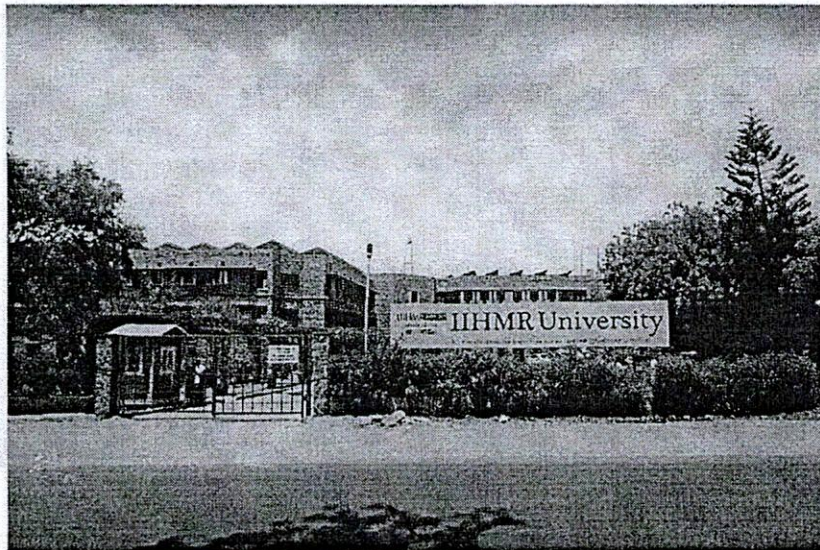


 Peace Lily	Formaldehyde, benzene and trichloroethylene	Paints, Plastics, Wood products etc.	Relatively easy to maintain. Survives in low light conditions.
 Red-edged Dracaena	Formaldehyde and trichloroethylene	cooking fuels, wood products, facial tissues, personal care products and waxed papers	Drought 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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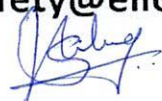


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ACKNOWLEDGEMENT

Elion Technologies and Consulting Pvt Ltd thanks the management of IIHMR University, Jaipur 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.



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.



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.



OVERVIEW OF INSTITUTE

The genesis of IIHMR University dates to October 5, 1984, when the Indian Institute of Health Management Research (IIHMR) was established. IIHMR University has been established and incorporated as a postgraduate research university by the Government of Rajasthan vide the IIHMR University, Jaipur Act, 2014 (Act No. 3, of 2014). IIHMR University is UGC recognized, NAAC accredited and ranked 90th NIRF 2022 (Management). IIHMR University has a unique organizational culture that enshrines core values and ethos of autonomy, accountability, openness, and transparency. The multi-disciplinary teams of faculty representing public health, management, economics, statistics, demography, social and behavioral sciences, constitute an enabling environment for learning, professional growth and development. The Ministry of Health and Family Welfare, Government of India identified the university as an 'Institute of Excellence' for its significant contribution in training and capacity building.

IIHMR University has significant contribution towards capacity building of in-service professionals. The University has consistently engaged in capacity building programmes for national and international participants working with government, national and international NGOs, and private sector organizations. We organised Management Development Programmes (MDPs), WHO Fellowship Programmes, Professional Development Courses (PDCs) in Management, Public Health and Health Sector Reforms for District Level Medical Officers of Government of Rajasthan (sponsored by MOHFW-GOI), and Customised Training Programmes for various organizations. We have designed and organised training on Financing Healthcare in Developing Countries for many years. The participants from more than 40 countries were benefitted by our short-duration training programmes. Our programmes focused on developing competencies in leadership and management required for in-service participants working with government and non-government organizations for improving the performance of health systems. We have organised Training on Vaccine Economics in collaboration with Johns Hopkins University, USA and trained more than 100 mid-level professionals working for Universal Immunization Program.

The IIHMR University offers executive degree programmes in emerging and industry specific areas. We offer two-year (four-semester) executive degree programme in MPH (Executive), MHA (Executive). The executive programmes follow Learning Outcome Curriculum Framework (LOCF) as suggested by the



University Grants Commission (UGC). The executive programmes of the IIHMR University are flexible to suit the needs of executive learning and are aligned to the New Education Policy 2020, Government of India.

IIHMR University offers the following programmes:

- MBA (Hospital and Health Management)
- MBA (Pharmaceutical Management)
- MBA (Development Management)
- Master of Public Health (in collaboration with Johns Hopkins University, USA)
- Master of Public Health in Implementation Science (WHO-TDR Fellowship Program)
- Executive MPH
- Executive MHA
- Ph.D

List of the Facility Building

Total Area: 14.37 Acres

Green Area: 10.05 Acres

List of personal interacted during audit

Name	Designation
Mr. Ashish Sharma	Head Administration
Mr. Rajeev Sharma	Chief Engineer
Mr. Raj Kapoor Raghav	Admin Officer

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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 university campus and its environment
- Enhancement of university profile
- Developing an environmental ethic and value systems in young people



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 environmental audit of institute is 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.



AREA OF IMPROVEMENTS

- Environment Policy shall be adopted by the institute.
- Electrical/Electronic Equipments when not in use should be switched off and should not be on standby modes.
- Use of recycle paper should be encouraged in the campus.
- Events such as "Switch off" drills, Tree plantation etc. shall be conducted in the campus.
- Green and Environment Audits shall be carried out on regular basis.

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ENVIRONMENTAL AUDIT - QUESTIONARE

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

Dose any Environmental Audit conducted earlier?

No, Environment Audit is not conducted earlier.

What is the total permanent population of the Institute?

	Male	Female	Total
Students	258	406	664
Teachers	21	12	33
Non-Teaching Staff	66	28	94
Sub Total	345	446	791
Approximate Number of Visitors (Per day)			10
What is the total number of working days of your campus in a year?			280

Where is the campus located?

The campus is Located in Jaipur, Rajasthan.


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**Which of the following are available in your institute?**

1 Garden area	Yes
2 Playground	Yes
3 Kitchen	Yes
4 Toilets	Yes
5 Garbage Or Waste Store Yard	No
6 Laboratory	No
7 Canteen	Yes
8 Hostel Facility(numbers)	Yes (5 Hostels)
9 Guest House	Yes (1 Guest House)

Which of the following are found near your institute?

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

**I WASTE MINIMIZATION AND RECYCLING**

1.	Does your institute generate any waste? If so, what are they?	Yes Kitchen Waste
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	300Kg/month
3.	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	Disposed to municipality.
4.	Do you use recycled paper in institute?	No
5.	Do you use reused paper in institute?	Yes
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	Over 700
4.	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Trees, Vegetables & Herbs
5.	Is the university campus have any Horticulture Department	Yes
	Number of Staff working in Horticulture Department	7
6.	Number of Tree Plantation Drives organized by Institute per annum. (If Any)	One
7.	Number of Trees Planted in Last FY.	100
	Survival Rate	70%
8.	Plant Distribution Program for Students and Community	No
9.	Plant Ownership Program	No

**III ENERGY CONSERVATION**

1. List ten 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.	1. Electricity. 2. LPG (kitchen). 3. Diesel (DG Set) 4. Solar Power.
2. Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some	Yes Solar Energy, LED bulb, Motion Sensor based lights and Green building using maximum natural sunlight.
3. How many CFL/LED bulbs has your institute Installed?	Over 1000
4. Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	Solar Panel. Solar Heater.
5. Do you run "switch off" drills at institute?	No
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

**IV WATER CONSERVATION**

1.	List four uses of water in your institute	1. Horticulture. 2. Drinking. 3. Kitchen. 4. Domestic Use.
2.	How does your institute store water? Are there any water saving techniques followed in your institute?	1. Underground Tank 2. Overhead Tank STP is available.
3.	If there is water wastage, specify why and How can the wastage be prevented/stopped?	Apparently there is no water wastage.
4.	Locate the point of entry of water and point of exit of waste water in your institute. Entry- Exit-	Entry - Bore well Exit - STP
5.	Write down four ways that could reduce the amount of water used in your institute	1. To use required amount of water 2. To stop overflow 3. To stop wastage of water 4. Rain water harvesting
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.	Not available.
7.	Does your institute harvest rain water?	Yes



- | | | |
|----|--------------------------------------|-------------------------|
| 8. | Is there any water recycling System. | STP plant is available. |
|----|--------------------------------------|-------------------------|

V CLEAN AIR

1.	Are the Rooms in Campus are Well Ventilated?	Yes				
2.	Window Floor ratio of the Rooms	1:2				
3.	What is the ownership of the vehicles used by your institute? (Please Tick ✓ only one)	✓	No			
			Operator-owned vehicles			
			Institute-owned vehicles			
			A combination of campus-owned and operator-owned vehicles			
4.	Provide details of institute-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	-	-	-	-	-
	No. of vehicles more than five years old	-	-	-	-	-
	No. of Air conditioned vehicles	-	-	-	-	-
	PUC done	-	-	-	-	-
5.	Specify the type of fuel used by your institute's vehicles:	Buses	Cars	Vans	Other	
	Diesel	-	-	-	-	
	Petrol	-	-	-	-	
	CNG	-	-	-	-	
	LPG	-	-	-	-	
	Electric	-	-	-	-	
6.	Air Quality Monitoring Program (If Any)	No				
7.	Students suffer from respiratory ailments? (If Any)	No				



8. Details of Genset	2 Gensets (320KVA & 250KVA)
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VI ANIMAL WELFARE

1. List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	1. Dogs 2. Cats 3. Squirrels 4. Birds 5. Insects
2. How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	NA
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.	No
3. Dose Environmental Ambient Air Quality Monitoring conducted by the Institute?	No
4. Dose Environmental Water and Wastewater Quality monitoring conducted by the Institute?	No
5. Dose stack monitoring of DG sets conducted by the Institute?	Yes
6. Is any warning notice, letter issued by state government bodies?	No



7.	Dose any Hazardous waste generated by the Institute? If yes explain its category and disposal method	No
8.	Dose any Bio medical waste generated by the Institute? If yes explain its category and disposal method	No

VIII GENERAL PRACTICES

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.	No
3.	Is there any housekeeping schedule in your campus?	Yes
4.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes
5.	Dose Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes.
6.	Dose Institute participated in National and Local Environmental Protection Movement?	No
7.	Dose Institute has any Recognition/certification for environment friendliness?	No
8.	Dose Institute using renewable energy?	Yes



9.	Dose Institution conducts a Green/Environmental audit of its campus?	No
10.	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	No



RECOMMENDATIONS

- Environment Policy shall be adopted by the institute.
- Electrical/Electronic Equipments when not in use should be switched off and should not be on standby modes.
- Use of recycle paper should be encouraged in the campus.
- Events such as "Switch off" drills, Tree plantation etc. shall be conducted in the campus.
- Green and Environment Audits shall be carried out on regular basis.



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, majority of university campus is for landscaping and greenery. The audit has identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for college team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but few things are important which if implemented would further strengthen the environment setting in the college.

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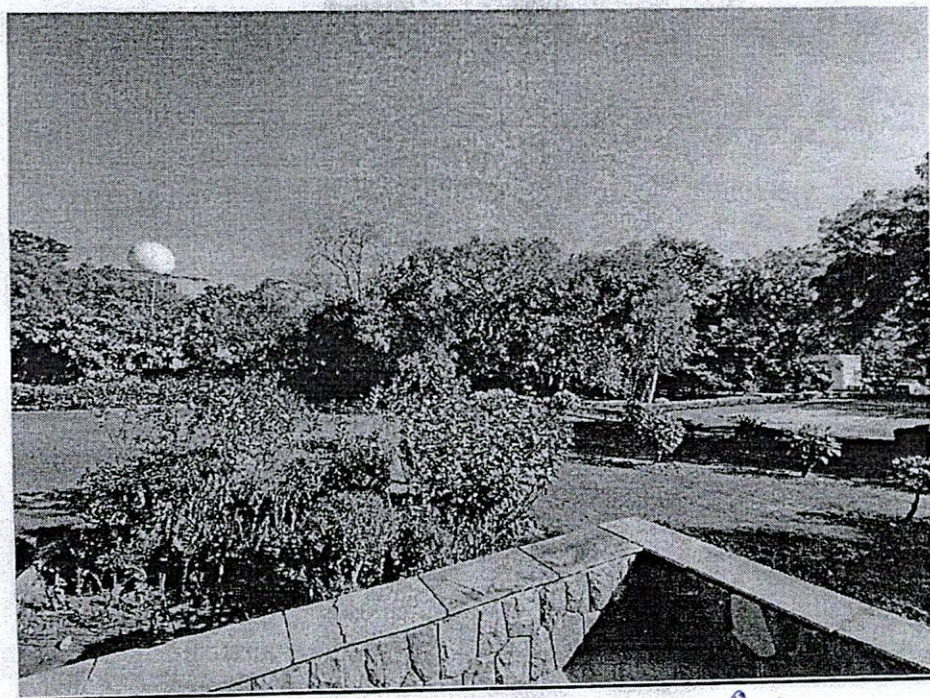


REFERENCE

- 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

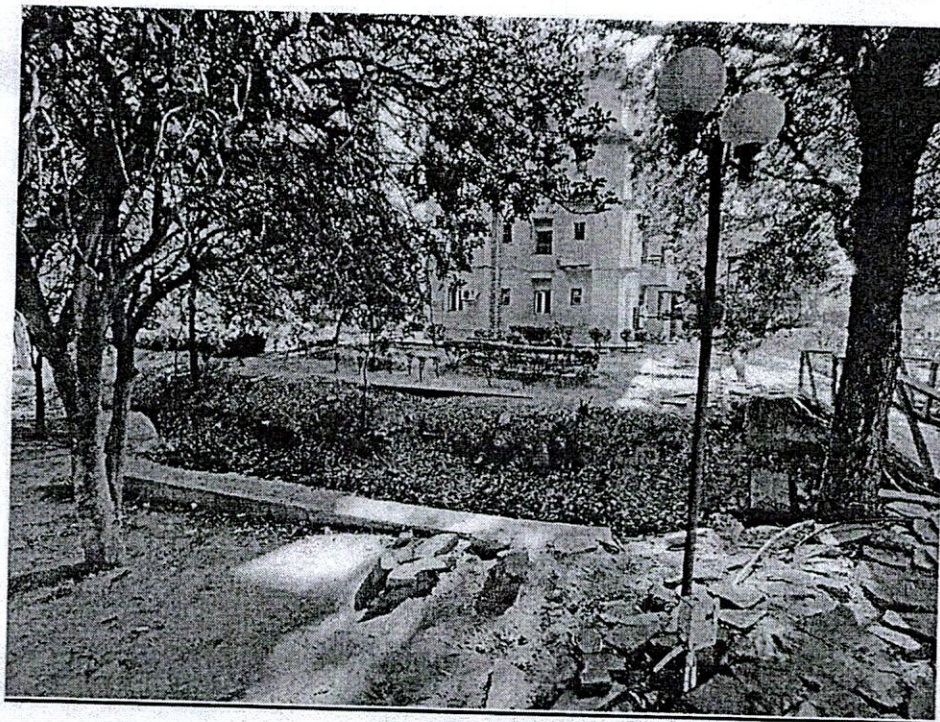
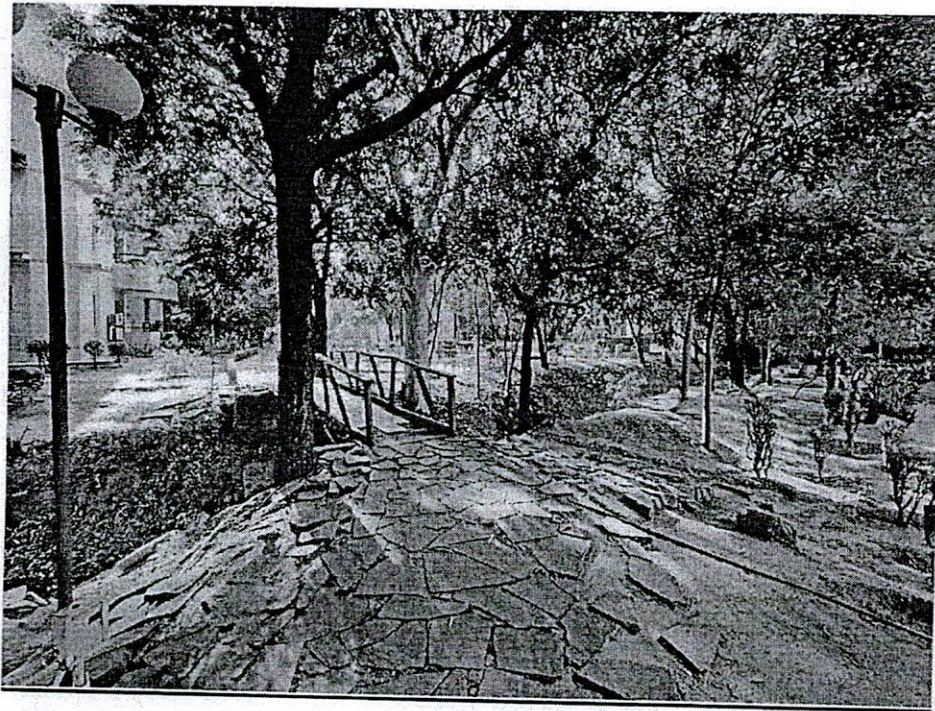


ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS



Green Campus

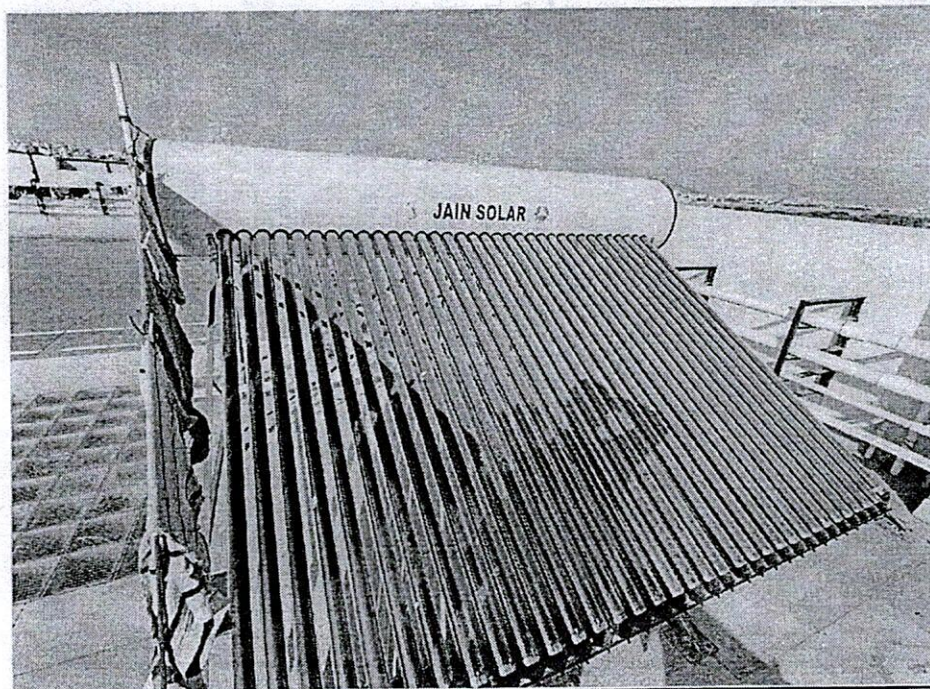
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Tree Plantation



Solar Power Plant



Solar Water Heater