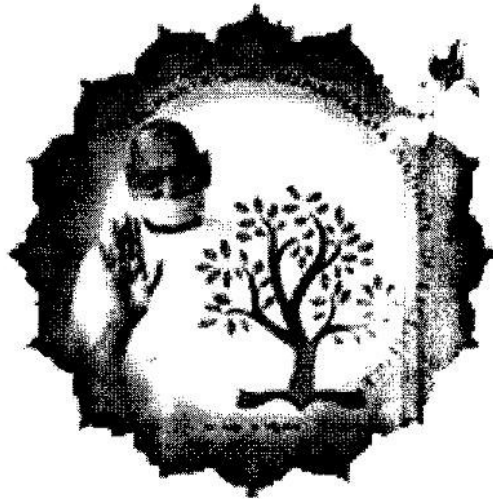


Acharya Shri Mahapragya
Institute of Excellence
Asind, Bhilwara



7.1.3 ENERGY AUDIT

Certificate no. - 172

27.5.24



ENERGY AUDIT CERTIFICATE

This is to certify that the Energy Audit of
Acharya Shri Mahapragya Institute of Excellence, Asind,
Bhilwara, Rajasthan, for the year 2023-24 was
Undertaken and completed by Govt. College Asind.

Dr. Pooja
Convener

Dr. Pooja Sukhwal

आशीन्द जिला- भीलवाड़ा (राज०)

Sh. Manzoor
Member

Sh. Manzoor Afshan

जिला- भीलवाड़ा (राज०)



Acharya Shri Mahapragya Institute of Excellence

(Affiliated to MDS University- Ajmer, NCTE, New Delhi & Approved by Govt. of Rajasthan)

20/05/2024



POLICY DOCUMENT ON ENERGY AND ENVIRONMENT USAGE

Introduction

The college is committed to sustainable development in all its segments, especially in the way of energy and environmental usage. Through its policy, it implements the various means to be used on the campus and beyond it.

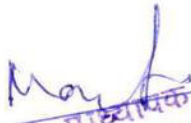
Objectives

- Encourage green practices such as plantation within and beyond the campus.
- Develop awareness among the students and staff.
- To motivate the students and staff to create a pollution-free and healthy environment.
- To reduce waste protection on and beyond campus.
- Initiate various means of energy, water, and environment conservation.

Plan and practices

1. Proper waste management for all types of waste generators in the institution.
2. To use alternative sources of energy for energy conservation.
3. To install and use LED bulbs and tube lights in all areas of the campus to save energy.
4. Use of the four 'R' policies reduce, reuse, recycle, and refuse strictly on the campus.
5. Motivate students and staff and even society for environment conservation through various promotional activities.
6. Maintenance of water tanks, taps, R.O. plant, etc to conserve water.
7. The students are motivated to throw the garbage in the dustbins and say 'NO' to the use of plastic. The volunteers work beyond the college campus to keep the adopted village clean and make the people aware of the importance of health and hygiene.


प्राचार्य
राजकीय महाविद्यालय
आसीन्द जिला-भीलवाडा (राज०)


प्राचार्य
राजकीय महाविद्यालय आसीन्द
जिला-भीलवाडा (राज०)


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ELECTRIC APPLIANCES IN COLLEGE (ROOM WISE)

S.NO.	FLOOR	ROOM NO.	TUBELIGHT	CFL TUBE.	LED BULB	FAN	WALL FAN	COMPUTER (LED+CPU)	CAMERA	AC	EXHAUST FAN	SMART BOARD	REMARKS
1st Floor													
1		201	4	0	0	6	0	0	2	0	0	0	
2		202	1	0	0	4	0	0	1	0	0	0	
3		203	0	0	0	1	0	0	0	0	0	0	
4		204	1	0	0	6	0	0	1	0	0	0	
5		205	3	0	0	6	0	0	1	0	0	0	
6		206	0	0	1	1	0	0	0	0	0	0	
7		207	0	18	0	0	7	0	1	1	0	0	
8		208	0	0	0	2	0	0	0	0	0	0	
9		209	1	0	0	8	0	0	1	0	0	0	
10		210	2	0	0	8	0	0	1	0	0	0	
11		211	0	0	0	2	0	0	0	0	0	0	
12		212	6	0	0	6	0	0	1	0	0	0	
13		213	1	0	0	2	0	0	0	0	0	0	
14		214	3	0	0	6	0	0	1	0	0	0	
15		215	1	0	0	6	0	0	1	0	0	0	
16		216	0	0	0	1	0	0	0	0	0	0	
17		217	1	0	0	4	0	0	1	0	0	0	
18		218	2	0	0	6	0	0	1	0	0	0	

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ACHARYA SHRI MAHAPRAGYA INSTITUTE OF EXCELLENCE, ASIND

ELECTRIC APPLIANCES IN COLLEGE (ROOM WISE)

S.NO.	FLOOR	ROOM NO.	TUBELIGHT	CFL TUBE.	LED BULB	FAN	WALL FAN	COMPUTER (LED+CPU)	CAMERA	AC	EXHAUST FAN	SMART BOARD	REMARKS
19	Ground Floor	219	0	0	0	2	0	0	0	0	0	0	
20		Corridor	0	26	0	0	0	0	2	0	0	0	
21		Girls Toilet	0	0	0	0	0	0	0	0	1	0	
22		Boys Toilet	1	0	0	0	0	0	0	0	0	0	
23		101	1	2	1	2	1	0	0	1	0	0	
24		102	4	0	2	4	0	0	0	0	0	0	
25		103	3	0	1	3	0	0	0	0	0	0	
26		104	0	0	1	1	0	0	0	0	0	0	
27		105	2	0	0	6	0	0	1	0	0	0	
28		106	4	0	0	6	0	0	1	0	0	0	
29		107	1	0	0	1	0	0	0	0	0	0	
30		108	4	0	0	6	0	0	1	0	0	0	
31		109	1	0	0	2	0	5	1	0	0	0	
32		110	2	0	0	8	0	0	1	0	0	0	
33	111	0	24	0	0	6	21	1	1	0	0		
34	112	0	0	0	2	0	0	0	0	0	0		
35	113	5	0	0	6	0	0	0	0	0	0		
36	114	1	0	1	1	0	0	0	0	0	0		

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ELECTRIC APPLIANCES IN COLLEGE (ROOM WISE)

S.NO.	FLOOR	ROOM NO.	TUBELIGHT	CFL TUBE.	LED BULB	FAN	WALL FAN	COMPUTER (LED+CPU)	CAMERA	AC	EXHAUST FAN	SMART BOARD	REMARKS	
37	Gr	115	2	0	0	6	0	0	1	0	0	0		
38		116	3	0	0	6	0	0	1	0	0	0		
39		117	1	0	0	1	0	0	0	0	0	0		
40		118	4	0	1	4	0	0	0	0	0	0		
41		119	4	2	3	6	1	6	1	0	0	0		
42		Coridor	0	28	5	5	0	0	0	4	0	0	0	
43		Girls Toilet	2	0	0	0	0	0	0	0	0	1	0	
44		Boys Toilet	1	0	0	0	0	0	0	0	0	0	0	
45		Outside Building	0	0	0	0	0	0	0	4	0	0	0	
46		Guard Room	1	0	0	1	0	0	0	0	0	0	0	
		TOTAL	73	100	16	154	15	32	32	3	2	0	0	


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ACHARYA SHRI MAHAPRAGYA INSTITUTE OF EXCELLENCE, ASIND

APPROX POWER CONSUMPTION BY ELECTRIC APPLIANCES

S.No.	Particular	Nos of Appliances in Institution	Avg Nos of Appliances Daily Used	Electricity Consumption (in Watt)	Total Energy Consumption By Appliances (in Watt)	Avg Uses Daily (in Hour)	Avg Power Consumption Per Day (in Watt)	Total Power Consumption (in Unit) per day
Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9
1	TUBELIGHT	73	20	36	720	2	1440	1.44
2	CFL TUBELIGHT	100	15	18	270	2	540	0.54
3	LED BULB	16	6	12	72	4	288	0.29
4	CEILING FAN	154	50	48	2400	4	9600	9.60
5	WALL FAN	15	10	53	530	4	2120	2.12
6	STAND FAN	6	6	53	318	4	1272	1.27
7	COMPUTER-CPU	32	25	70	1750	4	7000	7.00
8	COMPUTER-LED	32	25	20	500	4	2000	2.00
9	LAPTOP	1	1	65	65	4	260	0.26
10	CAMERA	32	32	12	384	24	9216	9.22
11	AC (1.5 TON)	3	1	1640	1640	1	1640	1.64
12	EXHAUST FAN	2	2	35	70	6	420	0.42
13	SMART BOARD	1	1	150	150	4	600	0.60
14	ELECTRIC BELL	1	1	12	12	1	12	0.01
15	WATER COOLER	2	2	1500	3000	4	12000	12.00
16	PRINTER (CANON)	3	2	259	518	6	3108	3.11
17	SCANNER (EPSON)	2	1	11	11	6	66	0.07
18	WI-FI PRINTER (EPSON)	1	1	14	14	6	84	0.08
19	FRIDGE (LG)	1	1	230	230	24	5520	5.52
20	CCTV NVR (hikvision)	6	6	40	240	24	5760	5.76
21	MODEM	2	2	10	20	24	480	0.48
22	BIOMETRIC - Staff	1	1	3.5	3.5	24	84	0.08
23	BIOMETRIC - Student	2	2	3.5	7	6	42	0.04
24	WATER PUMP (2 HP)	1	1	1492	1492	2	2984	2.98
25	WATER PUMP (1.5 HP)	1	1	1119	1119	2	2238	2.24


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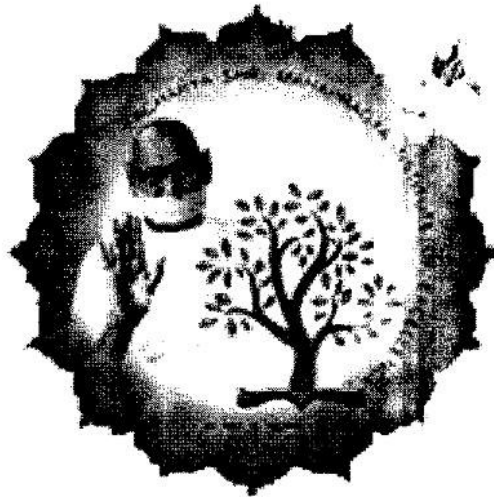
APPROX POWER CONSUMPTION BY ELECTRIC APPLIANCES

S.No.	Particular	Nos of Appliances in Institution	Avg Nos of Appliances Daily Used	Electricity Consumption (in Watt)	Total Energy Consumption By Appliances (in Watt)	Avg Uses Daily (in Hour)	Avg Power Consumption Per Day (in Watt)	Total Power Consumption (in Unit) per day
Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9
26	WATER PUMP (1 HP)	2	1	1492	1492	4	5968	5.97
27	PROJECTOR (EPSON)	2	1	291	291	1	291	0.29
28	PROJECTOR (HP)	1	1	230	230	1	230	0.23
29	LED TV	1	1	75	75	8	600	0.60
30	BLOWER	1	0	1500	0	1	0	0.00
31	GEYSER	2	0	1500	0	0	0	0.00
32	ELECTRIC CATTLE	1	0	1500	0	0	0	0.00
APPROXIMATE POWER CONSUMPTION PER DAY (IN UNIT)								75.86


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Institute of Excellence
Asind, Bhilwara



7.1.3 - GREEN AUDIT

Certificate no. - 178

27.5.24



GREEN AUDIT CERTIFICATE

This is to certify that the Green Audit of

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Bhilwara, Rajasthan, for the year 2023-24 was

Undertaken and completed by Govt. College Asind.


Dr. Divyanshu Sukhwal
आसीन्द जिला-भीलवाडा (राजो)


Sh. Anshuman
जिला-भीलवाडा (राजो)



Acharya Shri Mahapragya Institute of Excellence

(Affiliated to MDS University, Ajmer and Approved by Govt. of Rajasthan)

Mahapragya Nagar, Asind (Bhilwara) Ph. 01480-221101, 221102, 221103)

Website : www.asmie.in

Email : asmie2012@gmail.com

क्र. - ASMIE/2023-24/SPL-02

17/12/2024

श्री मंजूर अली खान,
सहायक आचार्य, राजकीय महाविद्यालय,
आसींद, भीलवाड़ा।

विषय :- महाविद्यालय में हरित व उर्जा अंकेक्षण (Green and Energy Audit) हेतु।

महोदय जी,

सादर निवेदन है कि महाविद्यालय में हरित व उर्जा अंकेक्षण (Green and Energy Audit) किया जाना है, इस हेतु आप निरीक्षण अधिकारी के रूप में महाविद्यालय में पधारकर उक्त कार्य को सम्पादित करने की कृपा करें।

साभार।

Wated
Manf.
प्राध्यापक

राजकीय महाविद्यालय आसीन्द
जिला-भीलवाड़ा (राज०)

17/12/2024
प्राचार्य

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(Affiliated to MDS University, Ajmer and Approved by Govt. of Rajasthan)

Mahapragya Nagar, Asind (Bhilwara) Ph. 01480-221101, 221102, 221103)

Website : www.asmie.in

Email : asmie2012@gmail.com

क्र. - ASMIE/2023-24/SPL-01

17/02/2024


डॉ. दिनेश सुखवाल,
प्राचार्य, राजकीय महाविद्यालय,
आसींद, भीलवाड़ा।

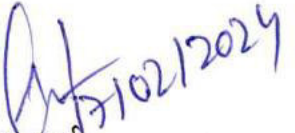
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साभार।


राजकीय महाविद्यालय
आसींद त्रिसा-भीलवाड़ा (राज०)


17/02/2024
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20/03/2024



Green and Environment Audit

INTRODUCTION:

The green audit aims to analyze environmental practices within and outside the university campuses, which will have an impact on the eco-friendly atmosphere. Green audit can be defined as the systematic identification, quantification, recording, reporting, and analysis of components of the university environment. It was initiated with the motive of inspecting the efforts within the institutions whose exercises can cause a threat to the health of inhabitants and the environment. Through the green audit, a direction as to how to improve the structure of the environment and there are include several factors that have determined the growth of carried out the green audit.

NEED FOR GREEN AUDITING:

Green auditing is the process of identifying and determining whether institutions' practices are eco-friendly and sustainable. Traditionally, we are good and efficient users of natural resources. But over the period excess use of resources like energy, and water, are became habitual for everyone especially, in common areas. Now, it is necessary to check whether our processes are consuming more than the required resources. Whether we are handling resources carefully? Green audit regulates all such practices and gives an efficient way of natural resource utilization. In the era of climate change and resource depletion, it is necessary to verify the processes and convert them into green and clean ones. Green audit provides an approach to it. It also increases overall consciousness among the people working in institutions towards an environment.

GOALS OF GREEN AUDIT:

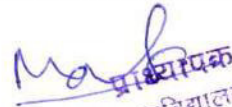
Acharya Shri Mahapragya Institute of Excellence has conducted a green audit with specific goals:

1. Identification and documentation of green practices followed by the university.
2. Identify strengths and weaknesses in green practices.
3. Analyze and suggest solutions for problems identified.
4. Assess facility of different types of waste management.
5. Increase environmental awareness throughout campus
6. Identify and assess environmental risk.
6. Motivates staff for optimized sustainable use of available resources.
7. The long-term goal of the environmental audit program is to collect baseline data on environmental parameters and resolve environmental issues before they become problems.


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आसीन्द जिला-भीलवाड़ा (राज.)


राजकीय महाविद्यालय आसीन्द
जिला-भीलवाड़ा (राज.)


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OBJECTIVES OF GREEN AUDIT:

1. To examine the current practices, that can impact the environment such as resource utilization, waste management, etc.
2. To identify and analyze significant environmental issues.
3. Set up a goal, vision, and mission for green practices on campus.
4. Establish and implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in green

BENEFITS OF GREEN AUDIT TO EDUCATIONAL INSTITUTIONS:

There are many advantages of green audit to an Educational Institute:

1. It would help to protect the environment in and around the campus.
2. Recognize the cost-saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. It portrays a good image of the institution through its clean and green campus. Finally, it will help to build a positive impression through green initiatives during the upcoming NAAC visit.

OBJECTIVE AND SCOPE:

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

1. Environmental education through a systematic environmental management approach
2. Improving environmental standards
3. Benchmarking for environmental protection initiatives
4. Sustainable use of natural resources on the campus.
5. Financial savings through a reduction in resource use
6. Curriculum enrichment through practical experience
7. Development of ownership, personal and social responsibility for the College campus and its environment
8. Enhancement of College profile
9. Developing an environmental ethic and value systems in young people

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राजकीय महाविद्यालय
आसीन्ड जिला-भीलवाड़ा (राज०)

प्राध्यापक
राजकीय महाविद्यालय आसीन्ड
जिला-भीलवाड़ा (राज०)

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20/05/2024

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 audit report contains observations and recommendations for the improvement of environmental consciousness.

DETAILS OF TREES AND PLANTS IN CAMPUS

Sr No	Botanical Name	Common Name
1	Azadirachta indica	Neem
2	Ficus benghalensis	Bargad
3	Monoon longifolium	Ashapala
4	Dalbergia sissoo	Sheesham
5	Terminalia arjuna	Arjun
6	Ficus religiosa	Peepal
7	Phyllanthus emblica	Amala
8	Cascabela thevetia	Kaner
9	Citrus limon	Neembu
10	Vachellia nilotica	Babul
11	Millettia pinnata	Karanji
12	Aegle marmelos	Bilva
13	Annona squamosa	Sitaphal
14	Punica granatum	Annar

Jey
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Dr. Arjun

Mr. Arjun

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20/05/2024



15	Syzygium jambolana	Jamun
16	Plumeria	Champa
17	Cordia Dichotoma	Gunda
18	Hyophorbe lagenicaulis	Bottle Palm
19	Delonix regia	Gulmohar
20	Cassia fistula	Amaltas
21	Senna siamea	Lam
21	Bauhinia variegata	Kachnar
22	Alstonia scholaris	Saptaparni
23	Nyctanthes arbor-tristis	Parijat
24	Hibiscus	Gudhal
25	Murraya koenigii	Meetha Neem
26	Melia azedarach	Bakayan
27	Ficus racemosa	Gular
28	Adansonia digitata	Kalpabriksh

Air Quality Index			
Sr No	Particulate Matter	Measure (Inside)	Measure (Outside)
1	PM10	71.65 µg/M ³	71.65 µg/M ³
2	NO2	1 µg/M ³	1 µg/M ³

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प्रतिनिधि
राजकीय न. विद्यालय
आसीन्द जिला-भीलवाडा (राज.)

मार्ग
राजकीय न. विद्यालय आसीन्द
जिला-भीलवाडा (राज.)

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20/05/2024



3	O3	121.58 µg/M ³	121.44
4	PM2.5	28.61 µg/M ³	28.61 µg/M ³
5	SO2	1.84 µg/M ³	1.84 µg/M ³

CONCLUSION

From the green audit following are the conclusions, which can be taken for improvement in the campus.


1. All departments generate paper waste. Especially, in academic buildings using more than one paper for printing and writing is good practice.
2. Food waste generated on campus is mostly from is collected from dining areas. The food waste is diverted to nearby farms.
3. E-waste is segregated, handled and disposed of properly in an eco-friendly manner.
4. Reducing the use of one-time-use plastic bottles, cups, folders, pens, bouquets, and decorative items will be useful in solving the problem of plastic pollution to some extent.
5. Wear Mask Signages are provided in the facility.
6. 6) Rainwater is collected from the rooftop to recharge the groundwater level table.
7. The air quality index is moderate inside and outside of the college.

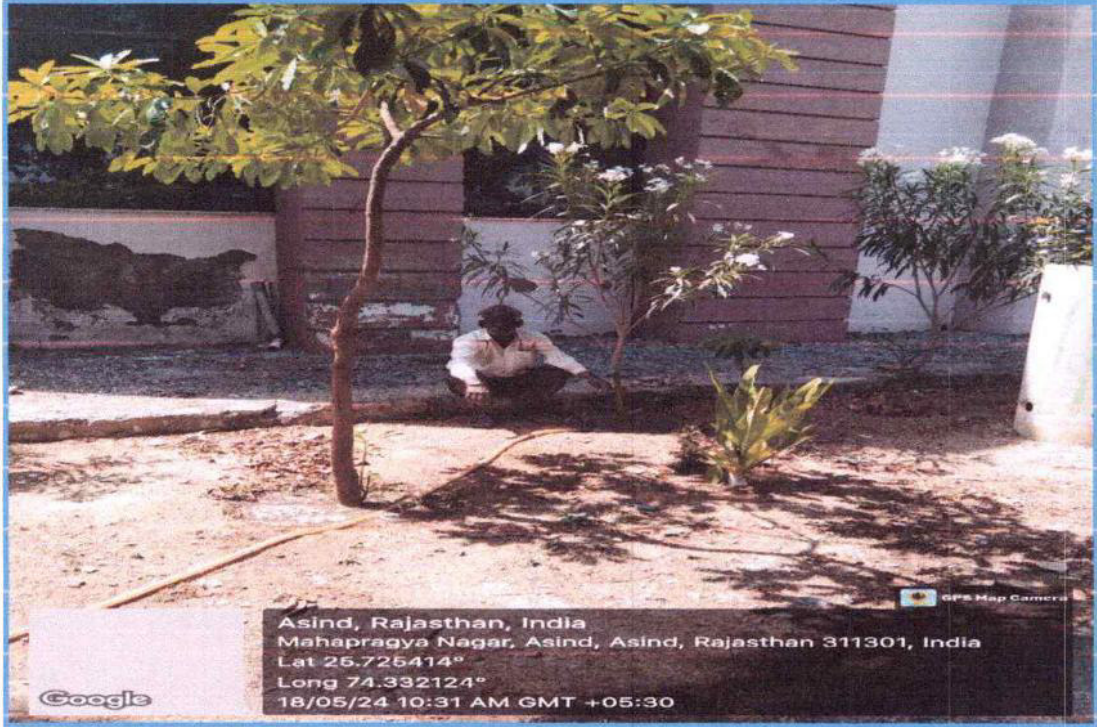
RECOMMENDATIONS

Following are some of the key recommendations for improving the campus environment:

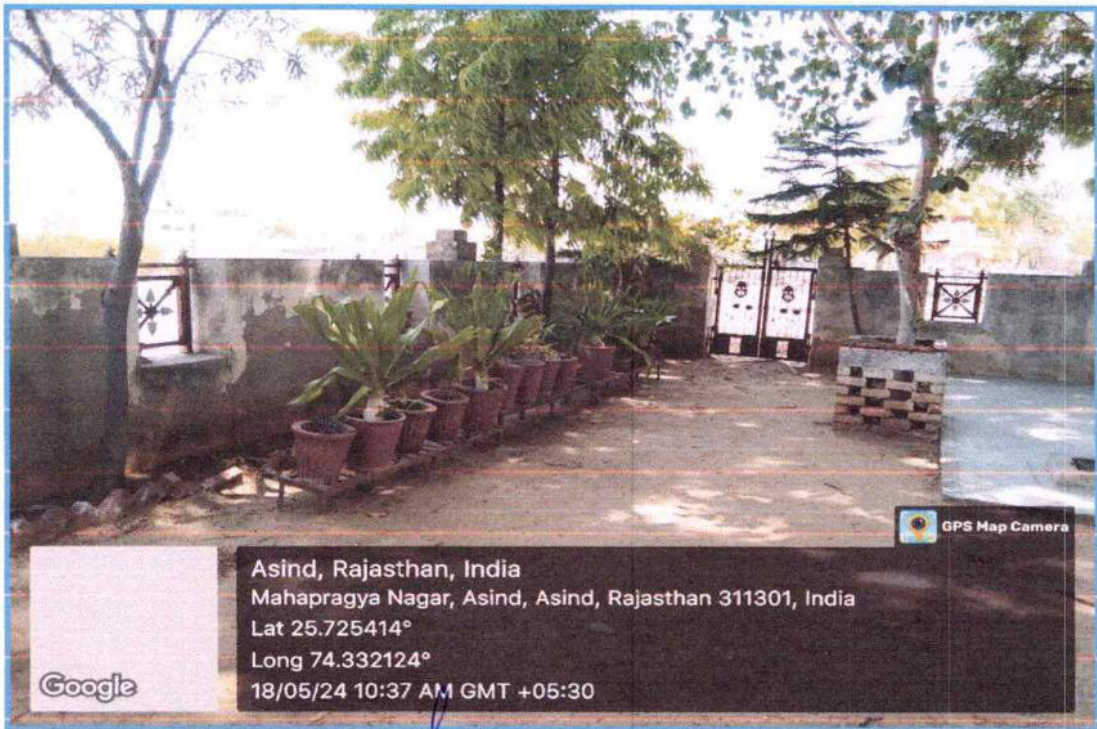
- 1) An environmental policy document has to be prepared with all the recommendations and current practices carried out by ASMIE.
- 2) A frequent visit should be conducted to ensure that the generated waste is measured, monitored, and recorded regularly and information should be made available to administration.
- 3) The solid waste should be reused or recycled at the maximum possible places.
- 4) Install a water meter to record water usage in the college ASMIE premises.
- 5) Provide boundary to the college campus


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Lat 25.725414°
Long 74.332124°
18/05/24 10:31 AM GMT +05:30



Asind, Rajasthan, India
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जिला-भीलवाडा (राज०)

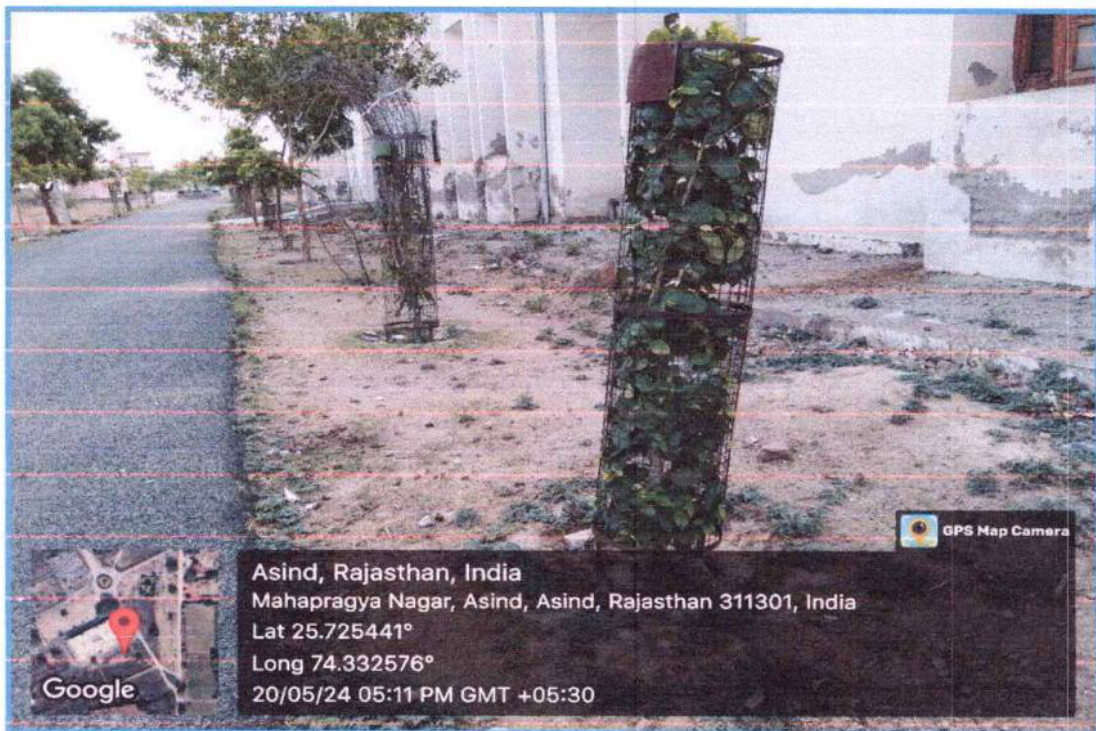
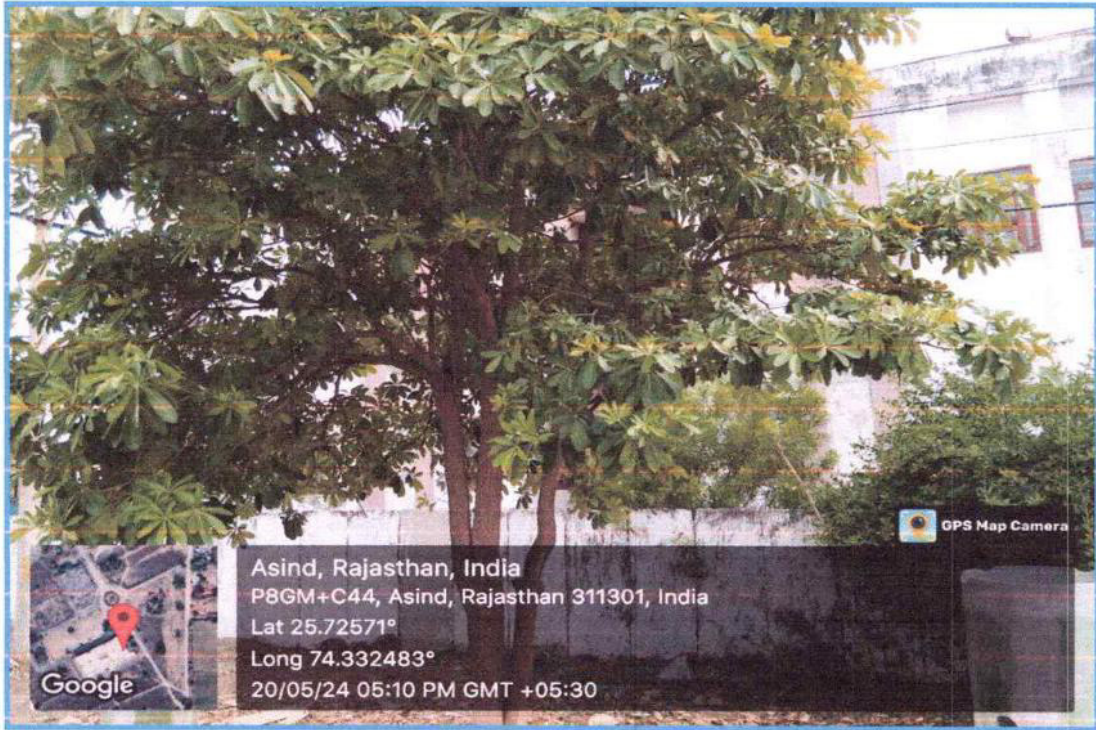
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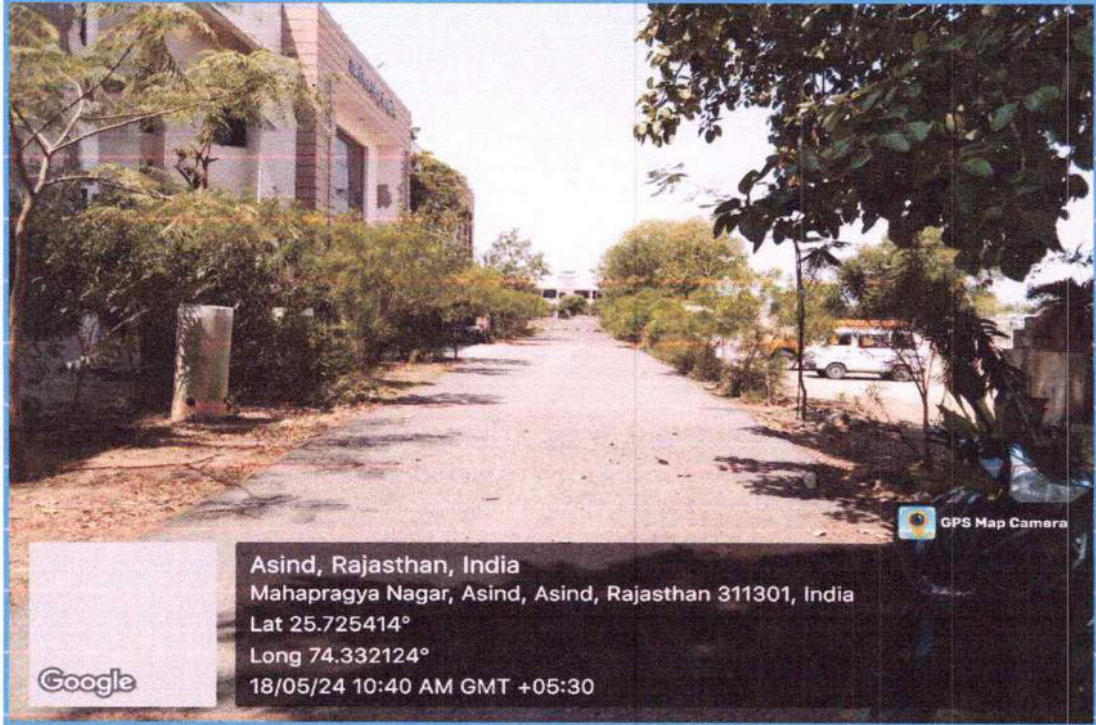


11. ANNEXURE



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महेश्वर
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जिला-भीलवाडा (राज.)
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