

GREEN AUDIT REPORT

MAHADEVA LAL SCHROFF COLLEGE OF PHARMACY

Aurangabad, Bihar 824 101



Year: 2023-24

Prepared by:

ENGRESS SERVICES

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Registration Certificates: UDYAM, MEDA, ASSOCHAM GEM-CP, ISO: 9001 & 14001:

UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER: UDYAM-MH-26-0135636

NAME OF ENTERPRISE: ENGRESS SERVICES

TYPE OF ENTERPRISE *	SNo.	Classification Year	Enterprise Type	Classification Date
1	2023-24	Micro	03/02/2024	
2	2022-23	Micro	26/06/2022	
3	2021-22	Micro	27/07/2021	

MAJOR ACTIVITY: SERVICES

SOCIAL CATEGORY OF ENTREPRENEUR: GENERAL

NAME OF UNIT(S)	S.No.	Name of Unit(s)
1	Engress Services	

OFFICIAL ADDRESS OF ENTERPRISE:

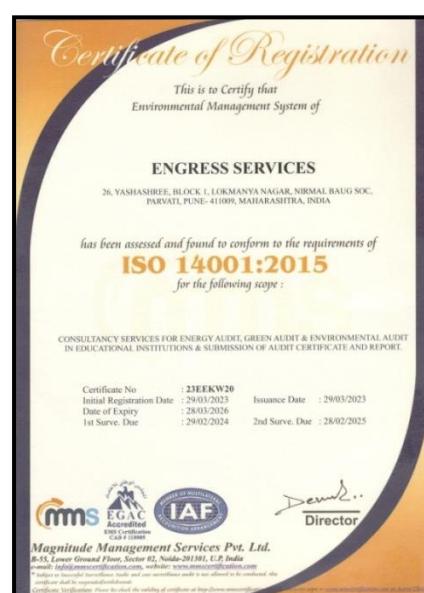
Flat/Door/Block No.	26	Name of Premises/Building	Yashashree
Village/Town	Pune	Block	1
Road/Street/Lane	Lokmanya Nagar,Nirmal Baug Soc	City	Pune
State	MAHARASHTRA	District	PUNE , Pin 411009
Mobile	8767447244	Email:	engress123@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: 13/04/2021

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: 13/04/2021

NATIONAL INDUSTRY CLASSIFICATION CODE(S)	SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	70 - Activities of head offices; management consultancy activities	7020 - Management consultancy activities	70200 - Management consultancy activities		Services

DATE OF UDYAM REGISTRATION: 27/07/2021



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ACKNOWLEDGEMENT

We at Engress Services, Pune, express our sincere gratitude to the management of Mahadeva Lal Schroff College of Pharmacy, Aurangabad, Bihar, for awarding us the assignment of Green Audit of their Campus, for the Academic Year: 2023-24.

We are thankful to all Staff members for helping us during the field study.

EXECUTIVE SUMMARY

1. Mahadeva Lal Schroff College of Pharmacy, Naigaon, Taluka: Bhor, District: Pune
consumes Energy in the form of **Electrical Energy** used for various gadgets, office & other facilities

2. Present Energy Consumption & CO₂ Emission:

No	Particulars	Value	Unit
1	Annual Energy Purchased	17546	kWh
2	Annual CO ₂ Emissions	16.32	MT

3. Usage of Renewable Energy:

The College is in the process of installing a rooftop Solar PV Plant

4. Waste Management:

No	Head	Particulars
1	Solid Waste	Segregation of Waste at source
2	Organic Waste	Provision of Bio Composting Bed
3	Sanitary Waste	Provision of Sanitary Waste Incinerator
4	Lab Liquid Waste	Provision of Soak Bin
5	Chemical Fumes	Provision of a Fumigation Chamber

5. Rain Water Management:

The College has installed Pipes from the terrace and the Rain water falling on the terrace is used for increasing the underground Water Table.

6. Green & Sustainable Practices:

- Maintenance of good Internal Road
- Tree Plantation
- Provision of Ramp for Divyangajan
- Creation of Awareness on Water Conservation, by Display of poster

7. Assumption:

1. **1 kWh** of Electrical Energy releases **0.93 Kg** of **CO₂** into atmosphere

8. Reference:

- For CO₂ Emissions: www.ccd.gujarat.gov.in

ABBREVIATIONS

kWh	Kilo Watt Hour
kWp	Kilo Watt Peak
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
LPG	Liquefied Petroleum Gas

CHAPTER-I

INTRODUCTION

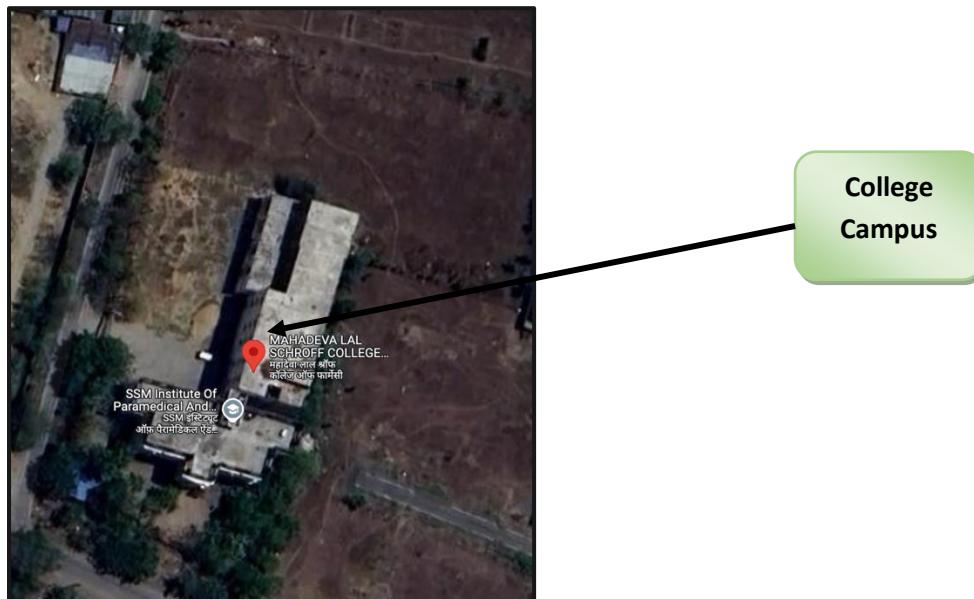
1.1 Introduction:

A Green Audit is conducted at Mahadeva Lal Schroff College of Pharmacy, Aurangabad, Bihar.

1.2 Key Study Points:

No	Particulars
1	Study of Present Energy Consumption & CO ₂ Emission
2	Study of Usage of Renewable Energy
3	Study of Waste Management Practices
4	Study of Rain Water Management
5	Study of Green & Sustainable Initiatives

1.3 Google Earth Image:



CHAPTER-II

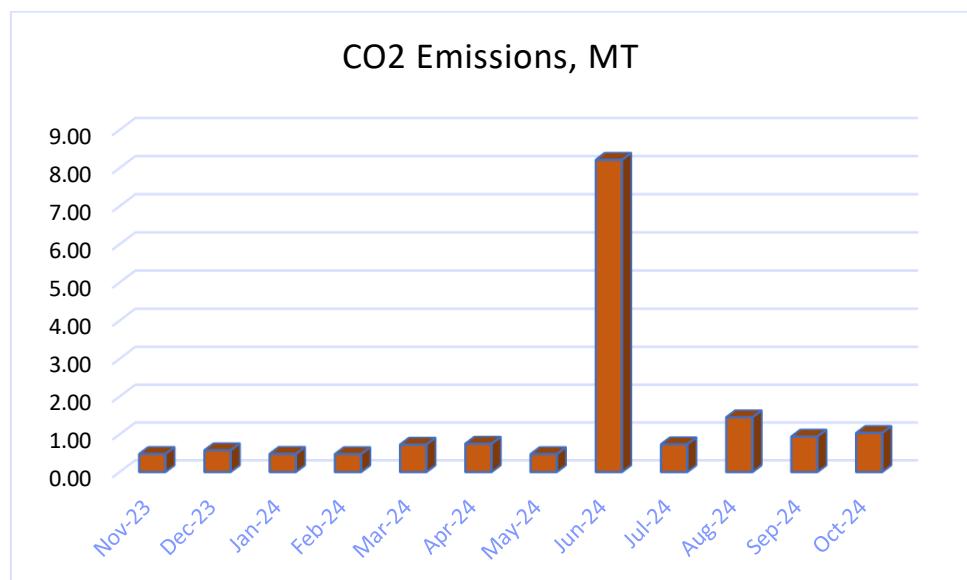
STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. **Basis for computation of CO₂ Emissions:** 1 kWh of Electrical Energy releases **0.93 Kg of CO₂ & 1 Kg** into atmosphere.

Table No 1: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Nov-23	512	0.48
2	Dec-23	618	0.57
3	Jan-24	515	0.48
4	Feb-24	509	0.47
5	Mar-24	780	0.73
6	Apr-24	805	0.75
7	May-24	509	0.47
8	Jun-24	8831	8.21
9	Jul-24	789	0.73
10	Aug-24	1558	1.45
11	Sep-24	1008	0.94
12	Oct-24	1112	1.03
13	Total	17546	16.32
14	Maximum	8831	8.21
15	Minimum	509	0.47
16	Average	1462.17	1.36

Chart No: 1: Study of variation of Monthly CO₂ Emission:



CHAPTER-III

STUDY OF USAGE OF RENEWABLE ENERGY

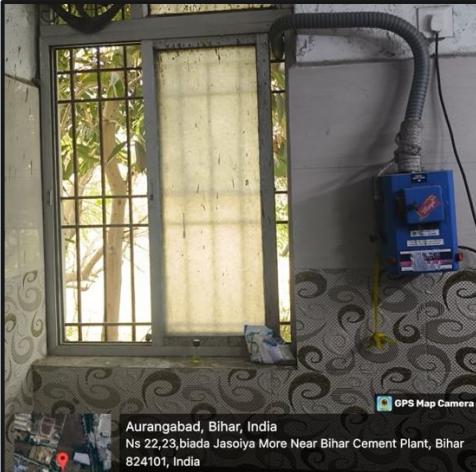
The College is in the process of installing a Rooftop Solar PV Plant

CHAPTER IV

STUDY OF WASTE MANAGEMENT

In this Chapter, we present the Waste Management Practices, followed by the College.

Details of Waste Management Practices:

No	Head	Observation	Photograph
1	Solid Waste	Segregation of Waste at Source: Provision of Waste Collection Bins	<p>Waste Collection Bins:</p>  <p>Aurangabad, Bihar, India Ns 22,23,biada Jasoya More Near Bihar Cement Plant, Bihar 824101, India Lat 24.774175° Long 84.349041°</p>
2	Organic Waste	Provision of Bio Composting Bed: For conversion into Bio Compost	<p>Bio Composting Bed:</p>  <p>Aurangabad, Bihar, India Ns 22,23,biada Jasoya More Near Bihar Cement Plant, Bihar 824101, India Lat 24.773994° Long 84.349127°</p>
3	Sanitary Waste	Provision of Sanitary Waste Incinerator	<p>Sanitary Waste Incinerator</p>  <p>Aurangabad, Bihar, India Ns 22,23,biada Jasoya More Near Bihar Cement Plant, Bihar 824101, India Lat 24.774171° Long 84.349286°</p>

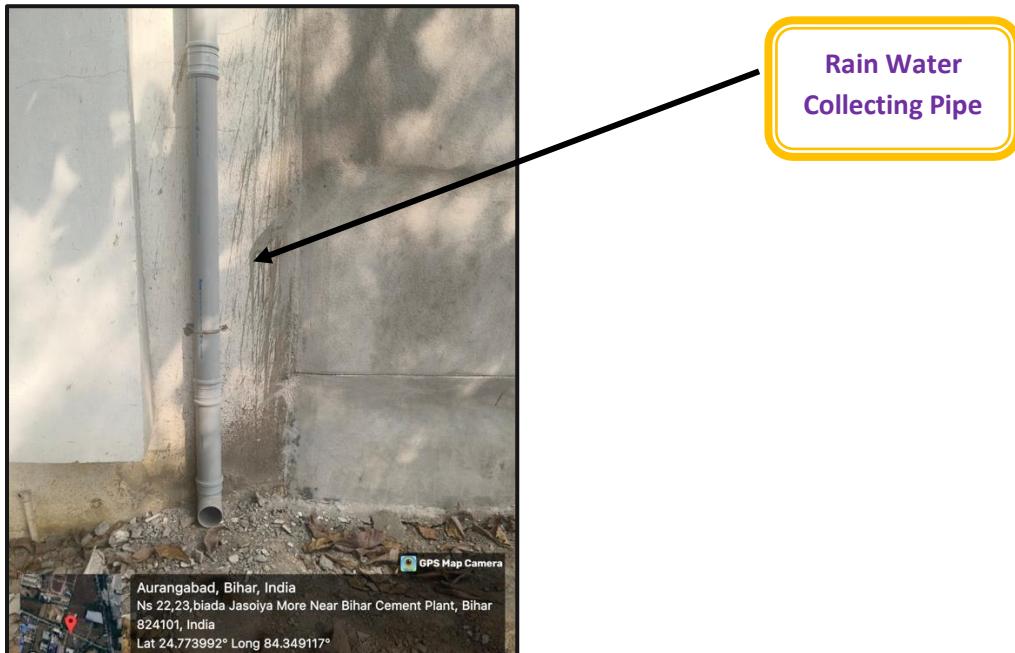
4	Lab Liquid Waste	Installed a Soak Bin for Disposal of Chemical Laboratory Liquid Waste	<p style="text-align: center;">Soak Bin</p>  <p>Aurangabad, Bihar, India Ns 22.23,biada Jasoja More Near Bihar Cement Plant, Bihar 824101, India Lat 24.774205° Long 84.34912°</p>
5	Chemicals' Storage & Fumes	Chemicals are kept away from the reach of students in the fuming Hood	<p style="text-align: center;">Fuming Hood</p>  <p>Aurangabad, Bihar, India Ns 22.23,biada Jasoja More Near Bihar Cement Plant, Bihar 824101, India Lat 24.77436° Long 84.34927°</p>

CHAPTER-V

STUDY OF RAIN WATER MANAGEMENT

The College has installed Pipes from the terrace and the Rain water falling on the terrace is used for increasing the underground Water Table.

Photograph of Rain Water Collecting Pipe:

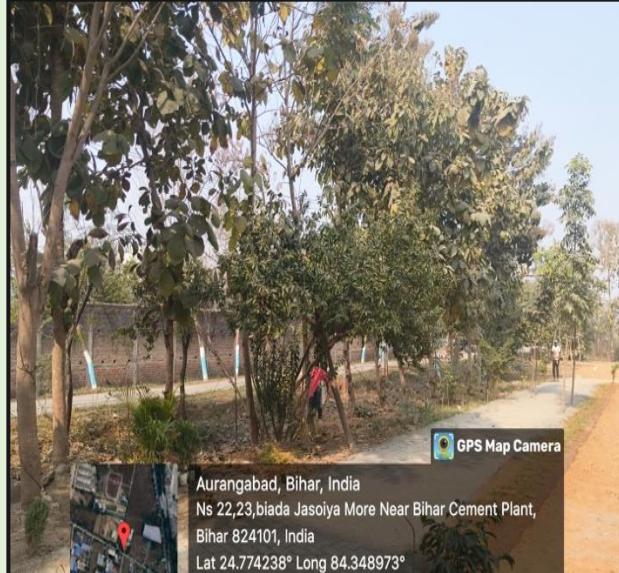


CHAPTER-VI

STUDY OF GREEN & SUSTAINABLE PRACTICES

In this Chapter, we present the Green & Sustainable Practices followed by the College.

Green & Sustainable Practices:

No	Head	Observation	Photograph
1	Easy Movement of Stake Holders	Provision of Good Internal Road within the Campus	<p>Internal Road:</p>  <p>Aurangabad, Bihar, India Ns 22,23,biada Jasoya More Near Bihar Cement Plant, Bihar 824101, India Lat 24.774238° Long 84.348973°</p>
2	Tree Plantation	Internal Tree Plantation in the Campus	<p>Internal Tree Plantation:</p>  <p>Manjuri, Bihar, India Shree Cement Ltd, Grinding Unit, Near Jasoya Mor, Manjuri, Bihar 824101, India Lat 24.774711° Long 84.34913°</p>

3	Facilities for Divyangajan	Provision of Ramp & Lift for Divyangajan	<p style="text-align: center;">Ramp for Divyangajan:</p>  <p style="text-align: center;">Aurangabad, Bihar, India Ns 22,23,biada Jasoiya More Near Bihar Cement Plant, Bihar 824101, India Lat 24.774188° Long 84.349043°</p>
4	Creation of Awareness among Stake Holders	Display of Poster on water conservation	<p style="text-align: center;">Poster on water conservation</p>  <p style="text-align: center;">Manjrahi, Bihar, India Plot- 674, Biada Area, Manjrahi, Bihar 824101, India Lat 24.774266° Long 84.348877° 28/12/24 11:22 AM GMT +05:30</p>

ANNEXURE:
LIST OF TREES & PLANTS IN THE CAMPUS

Name of Trees:

No.	Name of trees	Quantity
1.	Sheesham tree	Approx. 60
2.	Sagwan tree	Approx.130
3.	Guava	Approx. 10
4.	Mango	Approx. 10
5.	Amla	Approx. 10
6.	Lemon	6
7.	Kadhi patta	Approx. 12+
8.	Ashoka	Approx. 10
9.	Pista Almond (Pista badam)	2
10.	Papaya	Approx. 5
11.	Gulmohar (<i>Delonix regia</i>)	Approx. 5
12.	Other variety of trees	Approx. 50

Name of Plants & Herbal Plants:

No.	Name of Plants	Quantity
1.	Hibiscus	Approx.10
2.	Aloe vera	Approx 20+
3.	Tulsi	Approx.15+
4.	Cardamom	2
5.	Ginger	Approx.10
6.	Variety of Roses	Approx.30
7.	Vinca	Approx.16
8.	Jasmine	5
9.	Henna plant	Approx.12
10.	Pomegranate	2
11.	Show plants	Adequate (Approx.60+)
12.	Other herbal plants	Approx. 12

Total trees and plants: Approx.500