

GREEN AUDIT REPORT

Pune Vidyarthi Griha's
**PUNE VIDYARTHI GRIHA'S COLLEGE OF ENGINEERING, TECHNOLOGY &
MANAGEMENT (AN AUTONOMOUS INSTITUTE AFFILIATED TO SPPU),**
Vidyanagari, Parvati, Pune 411 009



Year: 2025-26

Prepared by:

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society
Near Mukhtangan English School, Parvati, Pune 411009
Phone: 09890444795 Email: engress123@gmail.com



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

भारत सरकार
Government of India
सूक्ष्म, नपु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises

UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER: UDYAM-MH-26-0135636

NAME OF ENTERPRISE: ENGRESS SERVICES

S.No.	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

TYPE OF ENTERPRISE: SERVICES

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.	Name of Premises/Building	Village/Town	Block
26	Yashashree	Pune	1

Road/Street/Lane: Lokmanya Nagar/Nirmal Bag Soc
City: Pune
State: MAHARASHTRA District: PUNE, Pin 411009
Mobile: 8767447244 Email: engress12@gmail.com

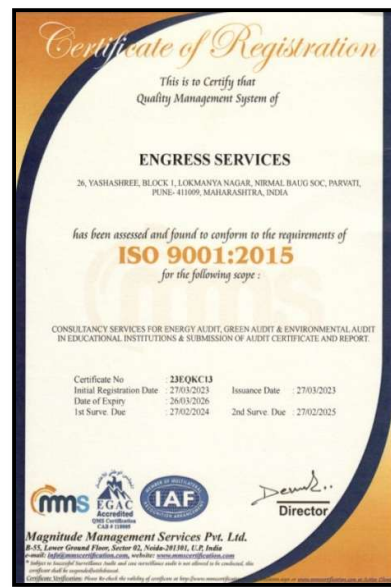
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: 13/04/2021

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

S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	79 - activities of head offices; management consultancy activities	7920 - Management consultancy activities	79200 - Management consultancy activities	Services

NATIONAL INDUSTRY CLASSIFICATION CODE(S):

DATE OF UDYAM REGISTRATION: 27/07/2021



MAHARASHTRA ENERGY DEVELOPMENT AGENCY

Maharashtra Energy Development Agency
(Government of Maharashtra Institution)
Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,
Aundh, Pune, Maharashtra-411067
Ph No: 020-35000450
Email: eee@mahauria.com, Web: www.mahauria.com

ECN/2024-25/CR-02/389 8th October, 2024

CERTIFICATE OF REGISTRATION FOR CLASS 'A'

We hereby certify that, the firm having following particulars is registered with **MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA)** under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.

Name and Address of the firm : M/s Engress Services
Yashshree, 26, Nirmal Bag Society,
Near Muktagang English School,
Parvati, Pune - 411 009.

Registration Category : Empanelled Consultant for Energy Conservation Programme for Class 'A'

Registration Number : MEDA/ECN/2024-25/Class A/EA-22

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till 7th October, 2026 from the date of registration, to carry out energy-audits under the Energy Conservation Programme.
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

General Manager (FC)



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ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Pune Vidyarthi Griha's College of Engineering, Technology & Management (An Autonomous Institute affiliated to SPPU), Vidyanagari, Parvati, Pune 411 009 for awarding us the assignment of Green Audit of their Campus for the Year: 2025-26.

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

EXECUTIVE SUMMARY

1. A Green Audit is conducted at Pune Vidyarthi Griha's College of Engineering, Technology & Management (An Autonomous Institute affiliated to SPPU), Pune.

2. Present Energy Consumption & CO₂ Emission:

No	Particulars	Value	Unit
1	Total Energy Purchased	243858	kVAh
2	Annual CO ₂ Emissions	226.79	tCO ₂ e

3. Usage of Renewable Energy:

- The College has installed Solar PV Vehicle Charging Station.

4. Study of Green Cover:

No	Particulars	Value	Unit
1	Total Green Cover Area	4800	m ²
2	Total Plot Area	16148	m ²
3	% of Green Cover to Total Plot Area	30	%

5. Study of 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	Paper & Plastic Waste	1. MoU with Scrapman Pvt ltd for paper waste and TAA Sagarmitra for plastic waste 2. Mission City Chakra for strategies and projects to reduce and manage waste
5	E Waste	MoU with Karo Sambhav for Disposal of E Waste

6. Study of Water Management:

6.1 Water Sources: The sources of Water are: Municipal Supply, Open Well & Bore well

6.2 Rain Water Management: The College has installed Pipes from the terrace and the Rain water falling is collected through Pipes and is used for stored in an underground Storage Pit; further used for recharging the underground Water Table.

7. Initiatives on Sustainable Development Goals:

Sr No	SDG No	Goal	College's Contribution
1	4	Quality Education	The College has adopted the National Education Policy
2	5	Gender Equality	1. International conference for Gender Equality and Women empowerment 2. Conductance of Program on Self Defense under Nirbhaya Kant Abhiyan
3	6	Clean Water & Sanitation	1. Provision of R O Plant for Water Filtration 2. Installation of Rain Water Harvesting Project
4	7	Affordable & Clean Energy	Installation Solar PV Vehicle Charging Station.
5	8	Decent Work & Economic Growth	The College has a Placement Cell for the Placement of Students.
6	13	Climate Action	1 Internal Tree plantation. 2 The Green Cover of the Campus is about 30 % 3 Visits to study sustainable agriculture techniques and various ecosystems under sustainable development course 4 Conductance of Clean up drives, River Walks and Awareness programs for River Rejuvenation

8. Assumptions:

1. Emission Fator of Electrical Energy: **0.93 Kg of CO₂/kVAh**
2. CO₂ Emissions are computed For **Scope- 2**
3. The Green Cover is calculated from Google Earth Image & value is indicative

9. Reference:

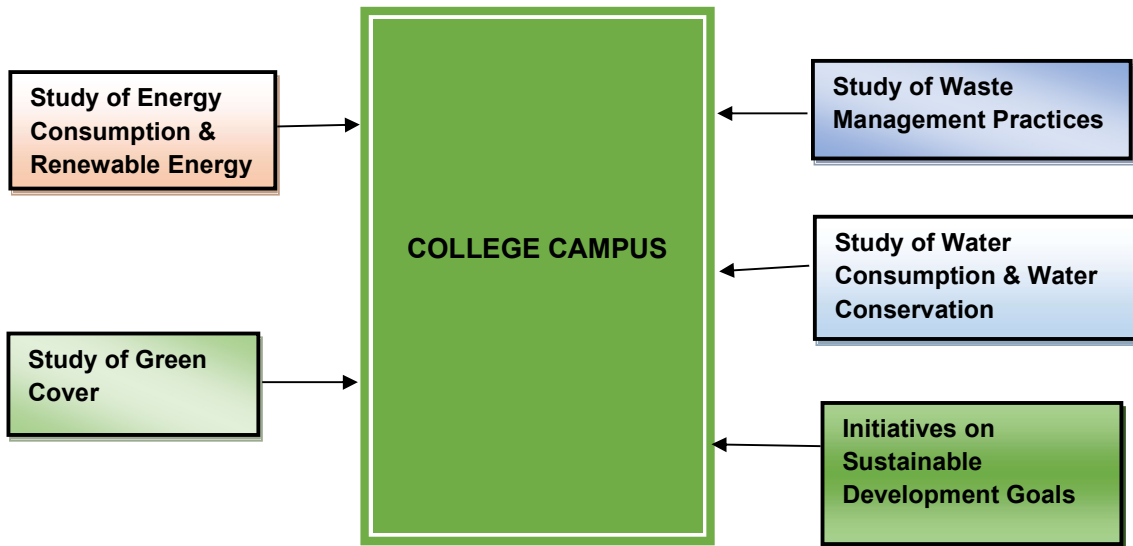
- For CO₂ Emissions: www.ccd.gujarat.gov.in

CHAPTER-I INTRODUCTION

1.1 Introduction:

A Green Audit is conducted at An Energy Audit is conducted at Pune Vidyarthi Griha's College of Engineering, Technology & Management (An Autonomous Institute affiliated to SPPU), Vidyanagari, Parvati, Pune 411 009.

1.2 Key Study Points:



CHAPTER-II STUDY OF ENERGY CONSUMPTION & RENEWABLE ENERGY

2.1 Study of Present Energy Consumption:

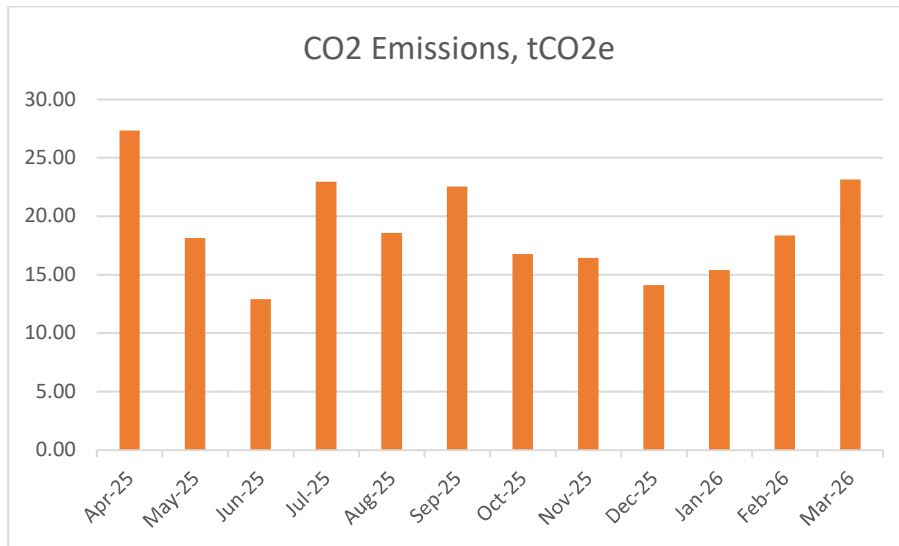
In this Chapter, we present the Energy Consumption, CO₂ Emission and Usage of Renewable Energy & Reduction in CO₂ Emission. A **Carbon Foot print** is defined as the Total Greenhouse Gas emissions, emitted due to various activities. The CO₂ Emission is computed for **Scope-2**

Emission Factor: Emission Fator of Electricity: **0.93 Kg of CO₂ / kVAh**

Table No 1: Month wise CO₂ Emissions: For Scope-2:

No	Month	Energy Purchased, kVAh	CO2 Emissions, tCO ₂ e
1	Apr-25	29413	27.35
2	May-25	19486	18.12
3	Jun-25	13884	12.91
4	Jul-25	24711	22.98
5	Aug-25	19992	18.59
6	Sep-25	24254	22.56
7	Oct-25	18036	16.77
8	Nov-25	17688	16.45
9	Dec-25	15190	14.13
10	Jan-26	16554	15.40
11	Feb-26	19749	18.37
12	Mar-26	24901	23.16
13	Total	243858	226.79

Chart No 1: Month wise CO₂ Emissions:



2.2 Study of Usage of Renewable Energy:

The College has installed Solar PV Vehicle Charging Station.

Photograph of Solar PV Based Vehicle Charging Station:



CHAPTER III STUDY OF GREEN COVER

In this Chapter, we present the **Green Cover** of the Total Campus.

3.1 Green Cover of an Institution is the Ratio of Area covered by Trees to Total Plot Area. To compute the Green Cover, we use the Google Earth Image of the Campus. The Area calculated is approximate.

Schematic of Green Cover:

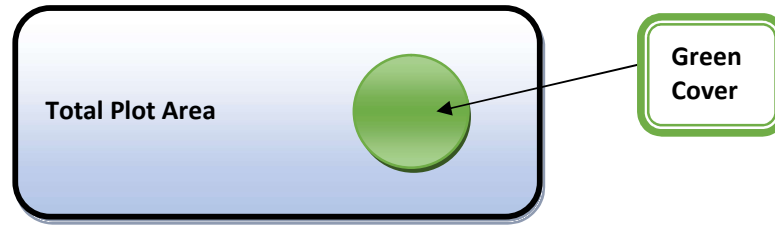


Table No 2: Computation of Green Cover:

No	Particulars	Value	Unit
1	Total Plot Area	16148	m ²
2	Total Green Cover Area	4800	m ²
3	% of Green Cover to Total Plot area	30	%




3.2 College Location Image:



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 at various locations	<p style="text-align: center;">Waste Collection Bin</p>  <p>Pune, Maharashtra, India 44, Shiv Darghan Rd, Nirmal Baug Colony, Shivdarghan 411008, Maharashtra, India Lat 18.4896492 / Long 73.8530566 Sunday 12 April 2026 12:50:44</p>
2	Organic (Leafy Waste)	Provision of Bio Composting Bed	<p style="text-align: center;">Bio Composting Bed</p>  <p>Pune, Maharashtra, India Palaavdan, Nirmal Baug Colony, Shivdarghan Pune, Maharashtra, India 411008, India Lat 18.4896492 / Long 73.8530566 Sunday 12 April 2026 12:50:44</p>
3	Sanitary Waste	Provision of Sanitary Waste Incinerator	<p style="text-align: center;">Sanitary Waste Incinerator</p>  <p>Pune, Maharashtra, India 44, Valsodevi, Shivdarghan, Pune, Nirmal Baug Colony, Shivdarghan Pune, Maharashtra, India 411008, India Lat 18.4896492 / Long 73.8530566 Sunday 12 April 2026 12:50:44</p>
4	Paper & Plastic Waste	1 MoU with Scrapman Pvt Ltd for paper waste and TAA Sagarmitra for plastic waste 2 MoU with Mission City Chakra for strategies and projects to reduce and manage waste	
5	E Waste	MoU with Karo Sambhav for Disposal of E Waste	

CHAPTER-V STUDY OF WATER MANAGEMENT

5.1 Study of Water Sources:

The Main sources of Water are:

1. Municipal Water Supply
2. Open Well
3. Bore well

5.2 Study of Rain Water Harvesting:

The College has installed Pipes from the terrace and the Rain water falling is collected through Pipes and is used for stored in an underground Storage Pit; further used for recharging the underground Water Table.

Photograph of Rain Water Carrying Pipe:



Rain Water
Collection Pipe &
Sand Filter Unit

CHAPTER-VI INITIATIVES ON SUSTAINABLE DEVELOPMENT GOALS

6.1 Introduction:

The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity.

The 17 SDGs are integrated—they recognize that action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability.




Countries have committed to prioritize progress for those who're furthest behind. The SDGs are designed to end poverty, hunger, AIDS, and discrimination against women and girls. The creativity, knowhow, technology and financial resources from all of society is necessary to achieve the SDGs in every context.



As of 2025–2026, India has made significant progress on UN Sustainable Development Goals (SDGs), **ranking 99th out of 167 countries with a score of 67**, marking its first entry into the top 100. Key advancements include poverty reduction, clean water/sanitation (Goal 6), and affordable energy (Goal 7), driven by **NITI Aayog's localization initiatives**.

6.2 United Nation's Sustainable Development Goals:



6.3 Initiatives taken by College for achieving the Sustainable Development Goals:

Sr No	SDG No	Goal	College's Contribution
1	4	Quality Education	The College has adopted the National Education Policy
2	5	Gender Equality	<p>1 Conductance of many programs for Gender Equality including international conference for Gender Equality and Women empowerment</p> <p>2 Conductance of Program on Self Defense under: Nirbhaya Kanya Abhiyan</p> <p>Program on Self Defense:</p> 
3	6	Clean Water & Sanitation	<p>1. Provision of R O Plant for Water Filtration</p> <p>Photo of R O Plant:</p>  <p>2. Installed Rain Water Management Project</p> <p>Photo of Rain Water Carrying point</p> 

<p>4</p>	<p>7</p>	<p>Affordable & Clean Energy</p>	<p>The College has installed Solar PV based Vehicle Charging Station, free for all stake holders</p> <p>Photo of Solar PV Based Vehicle Charging Station:</p> 
<p>5</p>	<p>8</p>	<p>Decent Work & Economic Growth</p>	<p>The College has a Placement Cell for the Placement of Students.</p>
<p>6</p>	<p>13</p>	<p>Climate Action</p>	<p>1 The College has Internal Tree plantation.</p> <p>2 The Green Cover of the Campus is about 30 %</p> <p>3 Visits to study sustainable agriculture techniques and various ecosystems under sustainable development course</p> <p>Visit on Sustainable Agriculture Technique:</p>  <p>4. Conductance of Clean up drives, river walks and awareness programs for river rejuvenation</p> <p>Visit on Importance of Clean River:</p> 