GREEN AUDIT REPORT

SAMARTH RURAL EDUCATION INSTITUTE'S, SAMARTH COLLEGE OF COMPUTER SCIENCE,

A/P Belhe, Tal: Junnar, Dist: Pune 412 410



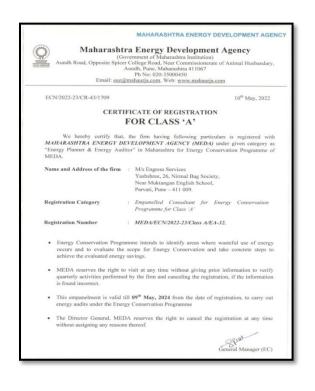
Year: 2023-24

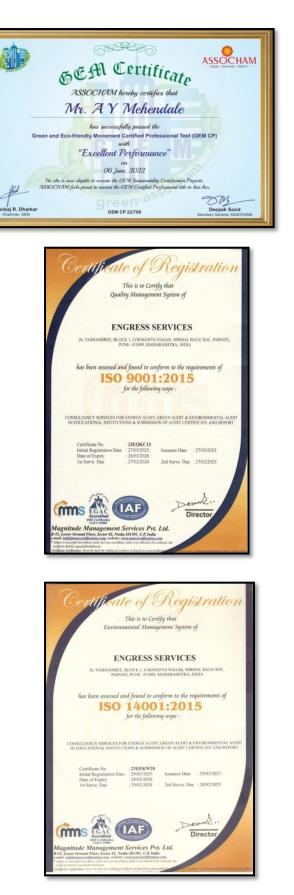
Prepared by:

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795 Email: <u>engress123@gmail.com</u> Registration Certificates: UDYAM, MEDA, ASSOCHAM GEM-CP, ISO: 9001 & 14001:

भारत सरकार Government of India सुरम, लघु एवं मध्यम उद्यम मंत्रालय Ministry of Micro, Small and Medium Enterprises				मूहम, लघु स्टारः, अभ्याः	ULE PLEASE		
UDYAM REC	GIST	RATI	ON C	ERT	IFIC	ATE	
UDYAM REGISTRATION NUMBER	UDYAM-MH-26-0135636						
NAME OF ENTERPRISE			EN	GRESS	SERVIC	ES	
	SNo	o. Classifi	cation Year	Enter	prise Ty	pe Classific	ation Date
TYPE OF ENTERPRISE *	1	20	23-24		Micro	03/02	2/2024
I YPE OF ENTERPRISE	2	20	22-23		Micro	26/00	5/2022
	3	20	21-22		Micro	27/0	7/2021
MAJOR ACTIVITY			1	SERV	ICES		
SOCIAL CATEGORY OF ENTREPRENEUR				GENH	RAL		
NAME OF UNIT(S)	S.No.			Nam	e of Unit(s)	
NAME OF UNIT(5)	1	Engress Ser	vices				
	Flat/Door/Block 26 Name of Premises Building		s/ Yashashr K	ee			
	Villag	ge/Town	Pune		Block	1	
OFFICAL ADDRESS OF ENTERPRISE	Road/Street/Lane		Lokmanya Nagar,Nirmal Baug Soc		City	Pune	
	State		MAHARASHTRA		District	PUNE, P	in 411009
	Mobi	le	8767447244	14 Email:		engress123@gmail.com	
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE							
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS							
	SNo.	NIC 2	Digit	NIC 4	Digit	NIC 5 Digi	l Activity
CLASSIFICATION CODE(S)		70 - Activitie offices; man consultancy	agement	7020 - Managen consultan activities		70200 - Management consultancy activities	Services
DATE OF UDYAM REGISTRATION 27/07/2021							





Sr. No	Particulars	Page No
Ι	Acknowledgement	4
II	Executive Summary	5
III	Abbreviations	6
1	Introduction	7
2	Study of Energy Consumption & CO ₂ Emission	8
3	Study of Usage of Renewable Energy	9
4	Study of Waste Management	10
5	Study of Rain Water Management	11
6	Study of Green & Sustainable Practices	12

INDEX

ACKNOWLEDGEMENT

We at Engress Services, Pune, express our sincere gratitude to the management of Samarth Rural Education Institute's Samarth College of Computer Science, A/P Belhe, Tal: Junnar, Dist: Pune, for awarding us the assignment of Green Audit of their Campus for the Year: 2023-24.

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

EXECUTIVE SUMMARY

1. Samarth College of Computer Science, A/P Belhe, Tal; Junnar, Dist: Pune consumes Energy in the form of **Electrical Energy**; used for various Electrical Equipment, office & other facilities.

2. Present Energy Consumption & CO₂ Emission:

No	Particulars	Value	Unit
1	Annual Energy Consumed	28530	kWh
2	Annual CO ₂ Emissions	26.53	MT

3. Usage of Renewable Energy:

• Installation of 2000 LPD Solar Water Heating System

4. Waste Management:

No	Head	Particulars	
1	Solid Waste	Segregation of Waste at source	
2	Food Waste	Provision of Bio Gas Plant	
3	E Waste	Recommended to dispose of through Authorized Agency	

5. Rain Water Management:

The rain water falling on the terrace is collected and is used to crease the Underground Water Table.

6. Green & Sustainable Practices:

- Maintenance of good Internal Road
- Tree Plantation in the campus.
- Provision of Ramp for Divyangajan
- > Creation of awareness on Energy Conservation Display of Posters

7. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.93 Kg of CO2 into atmosphere
- 2. Energy Consumption is computed based on Load Utilization Factor

8. Reference:

• For CO₂ Emissions: <u>www.ccd.gujarat.gov.in</u>

ABBREVIATIONS

- BEE Bureau of Energy Efficiency
- kWh Kilo Watt Hour
- LPD Liters Per Day
- Kg Kilo Gram
- MT Metric Ton
- CO₂ Carbon Di Oxide
- Qty Quantity

CHAPTER-I INTRODUCTION

1.1 Introduction:

A Green Audit is conducted at Samarth Rural Education Institute's Samarth College of Computer Science, A/P Belhe, Tal: Junnar, Dist: Pune.

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 College Location Image:

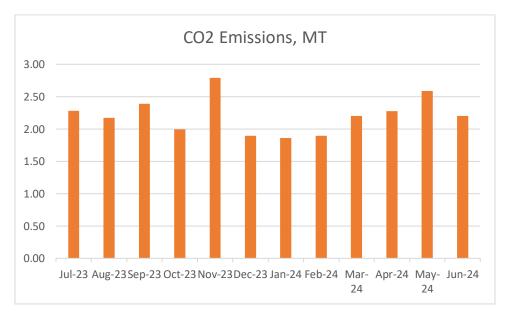


CHAPTER-II STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

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 into atmosphere Table No 1: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jul-23	2450	2.28
2	Aug-23	2336	2.17
3	Sep-23	2569	2.39
4	Oct-23	2145	1.99
5	Nov-23	2998	2.79
6	Dec-23	2036	1.89
7	Jan-24	1998	1.86
8	Feb-24	2036	1.89
9	Mar-24	2369	2.20
10	Apr-24	2445	2.27
11	May-24	2780	2.59
12	Jun-24	2368	2.20
13	Total	28530	26.53
14	Maximum	2998	2.79
15	Minimum	1998	1.86
16	Average	2377.5	2.21

Chart No 1: Month wise CO₂ Emissions:



CHAPTER III STUDY OF USAGE OF RENEWABLE ENERGY

The College has installed Solar Thermal Water Heating System.

The College has yet to install Roof Top Solar PV Plant.

Photograph of Solar Thermal Water Heating System:



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	Waste Collection Bin Image: State Sta	
2	Food Waste	The Food Waste is converted in to Bio gas in a Bio Gas Plant.	Bio Gas Plant:	
3	E Waste	Recommended to dispose of through Authorized Agency.		

CHAPTER-V STUDY OF RAIN WATER MANAGEMENT

The College has installed the Rainwater Management project, the rain water falling on the terrace is used to increase 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	Internal Road:
2	Tree Plantation	Internal Tree Plantation in the Campus	Internal Tree Plantation:

Engress Services, Pune

			Ramp for Divyangajan:
3	Facilities for Divyangajan	Provision of Ramp Structure for Divyangajan	electricite has const reverse
4	Creation of Awareness among Stake Holders	Display of Poster on Energy Conservation	Poster on Energy Conservation:

ANNEXURE-1: LIST OF TREES AND PLANTS:

No	Common Name	Number
1	Poptree	75
2	Jackfruit	1
3	Guava	2
4	Almond	18
5	Umbar	2
6	Ashoka	11
7	Shevari	11
8	Mango	2
9	Kadunimb	8
10	Coconut	8
11	Vad	3
12	Peepal	3
13	Krishnazad	3
14	Chikoo	1
15	Khair	1
16	Shenga	6
17	Kaghalshevari	1
18	Nirgundi	4
19	Sitafal	1
20	Papaya	1
21	Total	162