ENVIRONMENTAL AUDIT REPORT

Dnyanoday Prashikshana Sevabhavi Sanstha's, FORESIGHT COLLEGE OF COMMERCE,

Rasta Peth, Pune 411 002



Year: 2023-24

Prepared by:

ENGRESS SERVICES

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Near Muktangan English School, Parvati, Pune 411009
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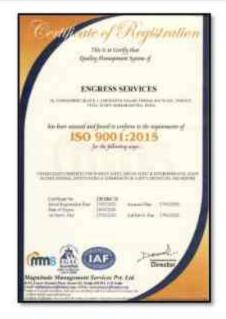


Registration Certificates: UDYAM, MEDA, ASSOCHAM GEM-CP, ISO: 9001 & 14001:











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Environmental Audit Report: Foresight College of Commerce, Pune: 2023-24

ACKNOWLEDGEMENT

We at Engress Services, Pune, express our sincere gratitude to the management of Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce, Pune, for awarding us the assignment of Environmental Audit of their campus for the Year: 2023-24.

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

EXECUTIVE SUMMARY

 Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce, Rasta Peth, Pune 411 002, consumes Energy in the form of Electrical Energy; used for various gadgets, Office & other facilities

2. Pollution due to Institute Activities:

Air pollution: Mainly CO₂ on account of Electricity Consumption

> Solid Waste: Bio degradable Garden Waste, Paper & Plastic Waste

Liquid Waste: Human liquid waste

3. Present Energy Consumption & CO2 Emission:

No	Particulars	Value	Unit
1	Annual Energy Consumed	4864	kWh
2	Annual CO ₂ Emissions	4.52	MT

4. Usage of Renewable Energy:

The College has yet to install Solar PV Plant.

5. Indoor Air Quality Parameters:

No	Parameter/Value	AQI	PM-2.5	PM-10
1	Maximum	80	48	60
2	Minimum	70	42	53

6. Indoor Lux & Noise Level Parameters:

No	Parameter/Value	Lux Level	Noise Level, dB
1	Maximum	241	47
2	Minimum	216	41.2

7. Waste Management:

No	Head	Particulars
1	Solid Waste	Segregation of Waste at source
2	E Waste	Recommended to dispose of through Authorized Agency

Environmental Audit Report: Foresight College of Commerce, Pune: 2023-24

8. Rain Water Management:

The College is in process of installing the Rainwater Harvesting Project.

9. Environment Friendly Initiatives:

- Tree Plantation in the campus.
- Creation of awareness on Energy Conservation by Display of Posters

10. Assumption:

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

11. References:

- For CO₂ Emissions: www.ccd.gujarat.gov.in
- For Various Indoor Air Parameters: www.ishrae.com
- For AQI Quality Standards: www.cpcb.com

ABBREVIATIONS

Kg : Kilo Gram

MSEDCL : Maharashtra State Distribution Company Limited

MT : Metric Ton kWh : kilo-Watt Hour LPD : Liters per Day

LED : Light Emitting Diode
AQI : Air Quality Index

PM-2.5 : Particulate Matter of Size 2.5 Micron
PM-10 : Particulate Matter of Size 10 Micron
CPCB : Central Pollution Control Board

ISHRAE : The Indian Society of Heating & Refrigerating & Air Conditioning Engineers

CHAPTER-I INTRODUCTION

1. Important Definitions:

1.1. Environment: Definition as per environment Protection Act: 1986

Environment includes water, air and land and the inter-relationship which exists among and between Water, Air, Land and Human beings, other living creatures, plants microorganism and property

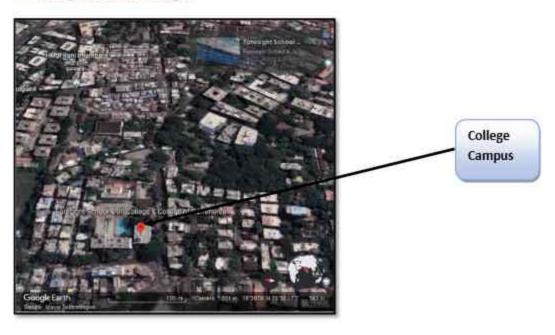
1.2. Environmental Audit: Definition:

According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment

1.3 Key Study Points:

No	Particulars
1	Study of Present Resource Consumption & CO2 Emission
2	Study of Usage of Renewable Energy
3	Study of Indoor Air Quality
4	Study of Indoor Lux & Noise Level
5	Study of Water Management
6	Study of Waste Management Practices
7	Study of Environment Friendly Practices

1.4 College Location Image:

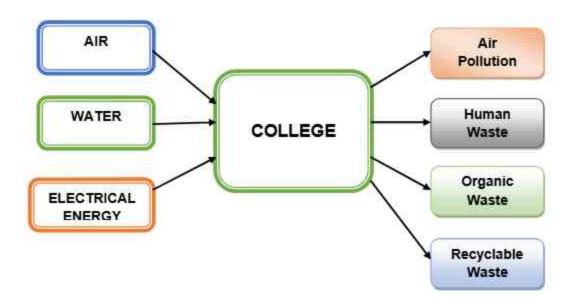


CHAPTER-II STUDY OF RESOURCE CONSUMPTION & CO₂ EMISSION

The Institute consumes following basic/derived Resources:

- 1. Air
- Water
- 3. Electrical Energy

We try to draw a schematic diagram for the Institute System & Environment as under. Chart No 1: Representation of Resource Requirement & Waste of a Institute:



Now we compute the Generation of CO₂ on account of consumption of Electrical Energy. The basis of Calculation for CO₂ emissions due to Electrical Energy is as under.

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

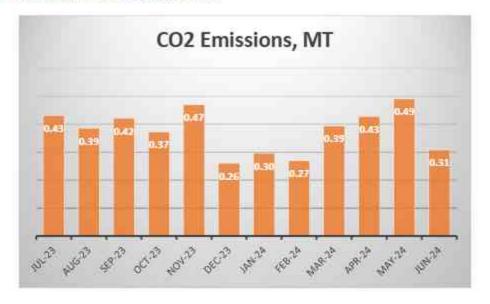
Table No 1: Study of Consumption of Electrical Energy & CO2 Emissions: 23-24:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jul-23	463	0.43
2	Aug-23	414	0.39
3	Sep-23	453	0.42
4	Oct-23	400	0.37
5	Nov-23	505	0.47
6	Dec-23	280	0.26
7	Jan-24	318	0.30
8	Feb-24	290	0.27
9	Mar-24	423	0.39

Environmental Audit Report: Foresight College of Commerce, Pune: 2023-24

40	Apr 24	460	0.43
10	Apr-24		
11	May-24	527	0.49
12	Jun-24	331	0.31
13	Total	4864	4.52
14	Maximum	527	0.49
15	Minimum	280	0.26
16	Average	405.33	0.38
	The state of the s		

Chart No 2: Month wise CO2 Emissions:



Environmental Audit Report: Foresight College of Commerce, Pune: 2023-24

CHAPTER III STUDY OF USAGE OF RENEWABLE ENERGY

The College has yet to install Roof Top Solar PV Plant

CHAPTER IV STUDY OF INDOOR AIR QUALITY

- Air: The common name given to the atmospheric gases used in breathing and photosynthesis.
- Air quality is a measure of the suitability of air for breathing by people, plants and animals
- Air Quality Index: Air Quality Index (AQI) is a number used by government agencies to measure the Air Pollution levels and communicate it to the population.

In this Chapter, we present three important Parameters: AQI- Air Quality Index, PM-2.5-Particulate Matter of Size 2.5 micron and PM-10- Particulate Matter of Size 10 micron

Table No 2: Indoor Air Quality Parameters:

No	Location	AQI	PM2.5	PM10
1	Classroom	75	45	54
2	Office	76	46	56
3	IQAC	80	48	60
4	Exam Strong Room	70	42	53
5	Principal Office	71	43	53
	Maximum	80	48	60
	Minimum	70	42	53

Table No 3: Air Quality Index Values & Concentration of PM 2.5 & PM10: (By CPCB):

No	Category	AQI Value	Concentration Range, PM 2.5	Concentration Range, PM 10
1	Good	0 to 50	0 to 30	0 to 50
2	Satisfactory	51 to 100	31 to 60	51 to 100
3	Moderately Polluted	101 to 200	61 to 90	101 to 250
4	Poor	201 to 300	91 to 120	251 to 350
5	Very Poor	301 to 400	121 to 250	351 to 430
6	Severe	401 to 500	250 +	430 +

Conclusion:

From the above measured values, we conclude that the observed values of AQI, PM-2.5 & PM-10 are in the Satisfactory Range, as per the guidelines given by Central Pollution Control Board.

CHAPTER V STUDY OF INDOOR LUX & NOISE PARAMETERS

In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit. The Parameters include: Lux Level and Noise Level.

Table No 4: Study of Indoor Lux Level and Noise Level Parameters:

No	Location	Lux Level	Noise Level dB
1	Classroom	241	43.6
2	Office	219	41.2
3	IQAC	226	42
4	Exam Strong Room	216	45.6
5	Principal Office	232	47
	Maximum	241	47
	Minimum	216	41.2

Recommended Lux & Noise Level: As per BEE & ISHRAE Guidelines:

No	Location	Noise Level Range, dB
1	Offices	45-50
2	Occupied Class Room	40-45
3	Libraries	35-40
J	Libraries	55-40
200	eference Lux Level, Lum	******
200		******

Conclusion:

From the above measured values, we conclude that:

- · The Noise Level is within the prescribed Limit
- The Lux Level at various locations is Okay

Environmental Audit Report: Foresight College of Commerce, Pune: 2023-24

CHAPTER VI STUDY OF RAIN WATER MANAGEMENT

The College is in a process of installing the Rainwater Harvesting Project.

CHAPTER-VII STUDY OF WASTE MANAGEMENT

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

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: Ges Hap Counts Pune, Maharashtra, Inicia Pune, Maharashtr
2	E Waste	Recommended to dispo	se of through Authorized Agency.

CHAPTER-VIII STUDY OF ECO-FRIENDLY PRACTICES

In this Chapter, we present the Eco-Friendly Practices, followed by the Institute.

Details of Eco-Friendly Practices:

No	Head	Observation	Photograph
į	Tree Plantation	Internal Tree Plantation in the Campus	Internal Tree Plantation: Compared to the C
2	Creation of Awareness among Stake Holders	Display of Poster on Energy Conservation	Poster on Energy Conservation: SAVE ENERGY SAVE THE PLANET OW A PROPERTY OF THE PROPERTY OF THE PLANET OWN A PROPERTY OF THE PROPERTY OF THE PLANET A PROPERTY OF THE PROPERTY OF THE PLANETY OF TH

ENGRESS SERVICES

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UDYAM Regn. No: UDYAM-MH-26-0135636, MEDA Regn. No: ECN/2023-24/CR-43/1709 ISO: 9001-2015 Certified (Cert No: 23EQKC13), ISO: 14001-2015 Certified (Cert No: 23EEKW20)



Date: 14/7/2024

ENVIRONMENTAL AUDIT CERTIFICATE

Certificate No: ES/DPSSFCC/23-24/03

This is to certify that we have conducted Environmental Audit at Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce, Rasta Peth, Pune 411 002in the year 2023-24.

The College has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Fittings
- Maximum Usage of Day Lighting
- Segregation of Waste at source
- Tree Plantation in the campus
- Creation of awareness on Energy Conservation by Display of Posters

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Eco Friendly.

For Engress Services,

AMphandel

A Y Mehendale,

B E- Mech, M Tech-Energy, Certified Energy Auditor, EA-8192 ASSOCHAM GEM Certified Professional: GEM: 22/788







ENERGY AUDIT REPORT

Dnyanoday Prashikshana Sevabhavi Sanstha's, FORESIGHT COLLEGE OF COMMERCE,

Rasta Peth, Pune 411 002



Year: 2023-24

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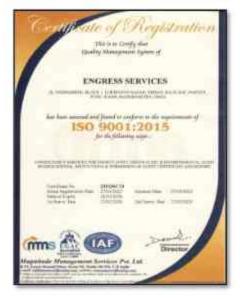
REGISTRATION CERTIFICATES: BEE, UDYAM, MEDA, ISO-9001 & 14001:











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Energy Audit Report: Foresight College of Commerce, Pune: 2023-24

ACKNOWLEDGEMENT

We at Engress Services, Pune, express our sincere gratitude to the management of Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce, Pune, for awarding us the assignment of Energy Audit of their campus for the Year. 2023-24.

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

EXECUTIVE SUMMARY

- Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce, Rasta Peth, Pune 411 002, consumes Energy in the form of Electrical Energy; used for various gadgets, Office & other facilities.
- 2. Present Connected Load & Energy Consumption:

No	Particulars	Value	Unit
1	Total Connected Load	12.435	kW
2	Annual Energy Consumed	4864	kWh

3. Per Capita Energy Consumption:

No	Particulars	Value	Unit
1	Total Annual Energy Consumed	4864	kWh
2	Total No of Students	706	Nos
3	Per Capita Energy Consumption= (1) / (2)	6.89	kWh/Annum

4. Study of % Usage of LED Lighting:

No	Particulars	Value	Unit
1	% of Usage of LED Lighting to Total Lighting Load	90	%

5. Renewable Energy & Energy Efficiency Projects:

- Usage of Energy Efficient LED fittings
- Usage of BEE STAR Rated Equipment

6. Assumption:

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

7. References:

- Audit Methodology: www.mahaurja.com
- Energy Conservation Building Code: ECBC-2017: www.beeindia.gov.in
- For CO₂ Emissions: www.ccd.gujarat.gov.in

ABBREVIATIONS

LED : Light Emitting Diode

MSEDCL : Maharashtra State Electricity Distribution Company Limited

BEE : Bureau of Energy Efficiency

ECBC : Energy Conservation Building Code

MEDA : Maharashtra Energy Development Agency

PV : Photo Voltaic Kg : Kilo Gram

kWh : kilo-Watt Hour CO₂ : Carbon Di Oxide

MT : Metric Ton

CHAPTER-I INTRODUCTION

1.1 Introduction:

An Energy Audit is conducted Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce YMCA Complex, Rasta Peth, Pune

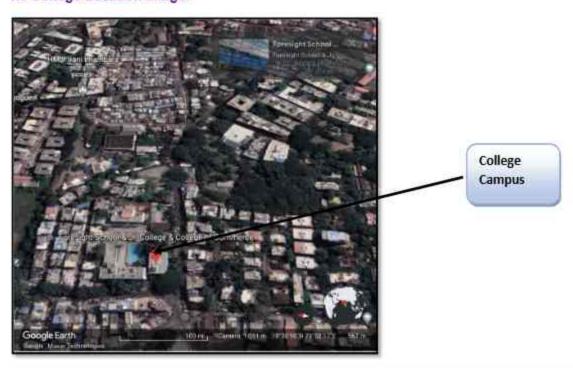
The guidelines followed for conducting the Energy Audit are:

- BEE India's Energy Conservation Building Code: ECBC-2017
- Maharashtra Energy Development Agency (<u>www.mahaurja.com</u>)
- Tata Power, www.tatapower.com

1.2 Key Study Points:

No	Particulars
1	Study of Present Connected Load
2	Study of Present Energy Consumption
3	Study of Per Capita Energy Consumption
4	Study of Lighting
5	Study of Energy Efficiency & Renewable Energy

1.3 College Location Image:



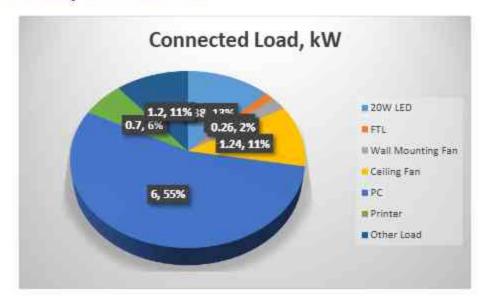
CHAPTER-II STUDY OF CONNECTED LOAD

The major contributors to the connected load of the Institute include:

Table No 1: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	20W LED	69	20	1.38
2	FTL	4	40	0.16
3	Wall Mounting Fan	5	52	0.26
4	Ceiling Fan	19	65	1.235
5	PC	50	150	7.5
6	Printer	4	175	0.7
7	Other Load	6	200	1.2
8	Total			12.435

Chart No 1: Study of Connected Load:



CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy Consumption.

Table No 2: Electrical Energy Consumption Analysis- 2023-24:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jul-23	463	0.43
2	Aug-23	414	0.39
3	Sep-23	453	0.42
4	Oct-23	400	0.37
5	Nov-23	505	0.47
6	Dec-23	280	0.26
7	Jan-24	318	0.30
8	Feb-24	290	0.27
9	Mar-24	423	0.39
10	Apr-24	460	0.43
11	May-24	527	0.49
12	Jun-24	331	0.31
13	Total	4864	4.52
14	Maximum	527	0.49
15	Minimum	280	0.26
16	Average	405.33	0.38

Chart No 2: Monthly Energy Consumption Details:



CHAPTER-IV STUDY OF PER CAPITA ENERGY CONSUMPTION

Per Capita Energy Consumption Index: Per Capita Energy Consumption Index of an educational Institute/Institute is its Annual Energy Consumption in Kilo Watt Hours per student studying in the Institute/Institute.

It is determined by:

Per Capita Energy Consumption Index = (Annual Energy Consumption in kWh)
(Total No of students studying)

Table No 3: Computation of Per Capita Energy Consumption:

No	Particulars	Value	Unit
1	Total Annual Energy Consumed	4864	kWh
2	Total No of Students	706	Nos
3	Per Capita Energy Consumption= (1) / (2)	6.89	kWh/Annum

CHAPTER-V STUDY OF LIGHTING

Terminology:

- 1. Lumen is a unit of light flow or luminous flux. The lumen rating of a lamp is a measure of the total light output of the lamp. The most common measurement of light output (or luminous flux) is the lumen. Light sources are labeled with an output rating in lumens.
- Lux is the metric unit of measure for illuminance of a surface. One lux is equal to one lumen per square meter.
- Circuit Watts is the total power drawn by lamps and ballasts in a lighting circuit under assessment.
- 4. Installed Load Efficacy is the average maintained illuminance provided on a horizontal working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square metre (lux/W/m²)
- Lighting Power Density: It is defined as Total Lighting Load in a room divided by the Area of that Room in square meters.

In this Chapter we compute the percentage usage of LED Lighting to total Lighting Load of the Institute

Now, we compute the usage of LED Lighting to Total Lighting Load, as under.

Table No 4: Percentage Usage of LED Lighting to Total Lighting Load:

No	Particulars	Value	Unit
1	40 W FTL Fitting	4	Nos
2	Demand of 40 W FTL Fitting	40	W/Uni
3	Load of 40 W FTL Fitting	0.16	kW
4	20 W LED Fitting	69	Nos
5	Demand of 20 W LED Fitting	20	W/Uni
6	Load of 20 W LED Fitting	1.38	kW
7	Total Lighting Load =3+6	1.54	kW
8	Total LED Lighting Load = 6	1.38	kW
9	% of Usage of LED to Total Lighting Load = 8*100/7	90	%

CHAPTER-VI STUDY OF RENEWABLE ENERGY & ENERGY EFFICIENCY

6.1 Usage of Renewable Energy:

The College has yet to install Roof Top Solar PV Plant

6.2 Energy Efficiency Measures adopted:

- · The Institute has Energy Efficient LED Fittings.
- Usage of BEE STAR Rated Equipment

Photographs of LED Lighting:



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The College has adopted following Energy Efficient Practices:

- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.

For Engress Services,

thehordal

A Y Mehendale,

B E-Mechanical, M Tech- Energy BEE Certified Energy Auditor, EA-8192







GREEN AUDIT REPORT

Dnyanoday Prashikshana Sevabhavi Sanstha's, FORESIGHT COLLEGE OF COMMERCE,

Rasta Peth, Pune 411 002



Year: 2023-24

Prepared by:

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Green Audit Report: Foresight College of Commerce, Pune: 2023-24

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2. Present Energy Consumption & CO2 Emission:

No	Particulars	Value	Unit
1	Annual Energy Consumed	4864	kWh
2	Annual CO ₂ Emissions	4.52	MT

3. Usage of Renewable Energy:

The College has yet to install Solar PV Plant.

4. Waste Management:

No	Head	Particulars
1	Solid Waste	Segregation of Waste at source
2	E Waste	Recommended to dispose of through Authorized Agency

5. Rain Water Management:

The College is in process of installing the Rainwater Harvesting Project.

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 by Display of Posters

7. Assumption:

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

8. Reference:

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

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

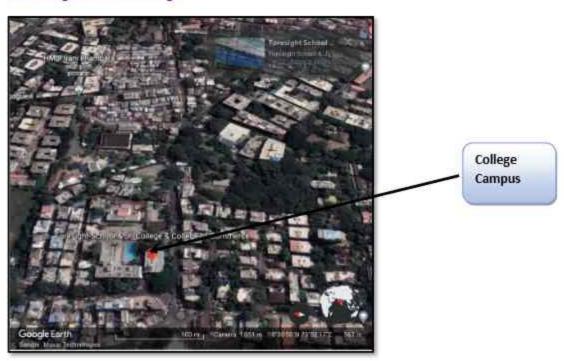
1.1 Introduction:

A Green Audit is conducted at Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce YMCA Complex, Rasta Peth, 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:



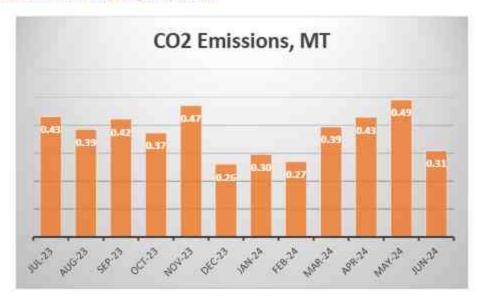
CHAPTER-II STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

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	463	0.43
2	Aug-23	414	0.39
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Chart No 1: Month wise CO2 Emissions:



Green Audit Report: Foresight College of Commerce, Pune: 2023-24

CHAPTER III STUDY OF USAGE OF RENEWABLE ENERGY

The College has yet to install Roof Top Solar PV Plant

CHAPTER IV STUDY OF WASTE MANAGEMENT

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

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: GPK Nap Carriers Pure And County Pure And Pure And County Pure And Pure And Pure And Pure And Pure And And Pure And And Pure And
2	E Waste	Recommended to dispos	se of through Authorized Agency.

Green A	udit Report: Foresight College of Commerce, Pune: 2023-24
СНА	PTER-V
STU	DY OF RAIN WATER MANAGEMENT
The Co	ollege is in a process of installing the Rainwater Harvesting Project.

CHAPTER-VI STUDY OF GREEN & SUSTAINABLE PRACTICES

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

Green & Sustainable Practices:

No	Head	Observation	Photograph
1	Easy Movement of Stake Holders	Provision of Good Internal Road within the Campus	Internal Road: Ges top Condes Pure, Materialities, India Pure, Constanting, India Pure, Indi
2	Tree Plantation	Internal Tree Plantation in the Campus	Fune, Maharachtra, India Thick Company, Ad., Van Januarian, Counter Transport, Land Street, Land



ANNEXURE-1: LIST OF TREES & PLANTS IN THE CAMPUS:

No	Common Name of Tree/Plant		
1	Ticoma		
2	Hibiscus		
3	Audumbar		
4	Curry Leaves		
5	Peace Lily		
6	Papaya		
7	Agelia		
8	Ceditica		
9	Aloe Vera		
10	Neem		
11	Rohdea		
12	Coconut		
13	Mango		
14	Palm		
15	Moneyplant		
16	Coleus		
17	Umberella Palm		
18	Bahava		
19	Morpankhi		
20	Ashoka		
21	Cow's Foot		
22	Ticoma		
23	Hibiscus		
24	Audumbar		
25	Curry Leaves		
26	Peace Lily		
27	Papaya		

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com

UDYAM Regn. No: UDYAM-MH-26-0135636, MEDA Regn. No: ECN/2023-24/CR-43/1709 ISO: 9001-2015 Certified (Cert No: 23EQKC13), ISO: 14001-2015 Certified (Cert No: 23EEKW20)



Date: 14/7/2024

GREEN AUDIT CERTIFICATE

Certificate No: ES/ DPSSFCC /23-24/02

This is to certify that we have conducted Green Audit at Dnyanoday Prashikshana Sevabhavi Sanstha's Foresight College of Commerce, Rasta Peth, Pune 411 002in the year 2023-24.

The College has adopted following Green & Sustainable Practices:

- Usage of Energy Efficient LED Fittings
- Maximum Usage of Day Lighting
- Segregation of Waste at source
- Good Internal Road
- Tree Plantation in the campus
- Provision of Ramp for Divyangajan
- Creation of awareness on Energy Conservation by Display of Posters

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Engress Services,

Amehande

A Y Mehendale,

B E- Mech, M Tech-Energy, Certified Energy Auditor, EA-8192 ASSOCHAM GEM Certified Professional: GEM: 22/788





