

GREEN AUDIT REPORT
of
Yashaswi Education Society's,
International Institute of Management Studies,
Chinchwad, Pune 411 033



Year: 2021-22

Prepared by:

ENGRESS SERVICES

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



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@mahaurja.com, Web: www.mahaurja.com

ECN/2021-22/CR-43/441

8th February, 2022

**CERTIFICATE OF REGISTRATION
FOR CLASS 'B'**

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 Muktangan English School,
Parvati, Pune - 411 009.

Registration Category : *Empanelled Consultant for Energy Conservation Programme for Class 'B'*

Registration Number : *MEDA/ECN/2021-22/Class B/EA-07.*

- 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 February, 2024** 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 (EC)



Engress Services

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

Ref: ES/YESIIMS/21-22/02

Date: 14/4/2022

CERTIFICATE

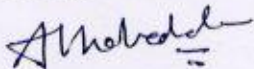
This is to certify that we have conducted Green Audit at Yashaswi Education Society's International Institute of Management Science, Chinchwad, Pune, in the Year: 2021-22.

The Institute has adopted following **Energy Efficient and Green** practices:

- Usage of Energy Efficient LED Lighting
- Maximum usage of Day Lighting
- Segregation of Waste at source
- Good internal Road within the campus
- Internal Tree Plantation in the campus
- Provision of Ramp for Divyangajan

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,



A Y Mehendale,
Certified Energy Auditor
EA-8192



INDEX

Sr. No	Particulars	Page No
I	Acknowledgement	5
II	Executive Summary	6
III	Abbreviations	8
1	Introduction	9
2	Study of Present Energy Consumption	10
3	Carbon Foot Printing	12
4	Study of Usage of Renewable Energy	14
5	Study of Waste Management	15
6	Study of Rain Water Harvesting	16
7	Study of Green & Sustainable Practices	17
	Annexure	
I	List of various Plants in the Institute campus	19

ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Yashaswi Education Society's International Institute of Management Science, Chinchwad, Pune 411 033, for awarding us the assignment of Green Audit of their Chinchwad Campus, for the Year: 2021-22.

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



EXECUTIVE SUMMARY

1. Yashaswi Education Society's International Institute of Management Science Chinchwad consumes Energy in the form of Electrical Energy used for various gadgets, office & other facilities.

2. Present Energy Consumption & CO₂ Emission:

No	Parameter/ Value	Electrical Energy Consumed, kWh	CO ₂ Emissions, MT
1	Total	46067	41.46
2	Maximum	5542	4.99
3	Minimum	0	0.00
4	Average	3838.92	3.46

3. Energy Conservation projects already installed:

- Usage of Energy Efficient LED fittings
- Usage of BEE STAR Rated Equipment
- Maximum Usage of Day-Lighting

4. Usage of Renewable Energy:

The Institute has yet to install Roof Top Solar PV Plant. It is recommended to install the same as early as possible.

5. Waste Management:

5.1 Segregation of Waste at Source:

The recyclable waste, like paper, board and plastic waste is segregated at source. There are bins for collection at various locations and is handed over for further for recycling.

5.3 E-Waste Management:

The E-waste is disposed of through Authorized Agency.

6. Rain Water Harvesting:

The Institute has implemented Rain Water Harvesting Project, wherein the Rain Water from terrace is collected and is used to increase the underground Water Table.

7. Green Initiatives:

- Good internal roads for easy movement of commuters
- Maintenance of Internal Garden in the campus
- Provision of Ramp for Divyangajan



8. Assumption:

1. 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere

9. Reference:

- For computation of CO₂ Emissions: www.tatapower.com



ABBREVIATIONS

BEE	Bureau of Energy Efficiency
YES	Yashaswi Education Society
kWh	Kilo Watt Hour
kWp	Kilo Watt Peak
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
LPD	Liters per Day
LPG	Liquefied Petroleum Gas



CHAPTER-I INTRODUCTION

1.1 Objectives:

1. To study present level of Energy Consumption
2. To study the present CO₂ emissions
3. To study usage of Renewable Energy
4. To study Waste Management: Solid, Liquid and E-waste.
5. To study Rain Water harvesting
6. To study Green and Sustainable Initiatives.

1.2 Table No 1: General Details of the Institute:

No	Head	Particulars
1	Name of Institution	Yashaswi Education Society's International Institute of Management Science
2	Address	S.No.169/1A,Chichwad-Akurdi Link Road, Chinchwad, Pune 411033
3	Year of Establishment	2008
4	Affiliation	Savitribai Phule Pune University

CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of last year's Energy Consumption.

Table No 2: Study of Electrical Energy Consumption: 2021-22:

No	Month	Energy Consumed, kWh
1	Apr-21	0
2	May-21	5524
3	Jun-21	4264
4	Jul-21	3966
5	Aug-21	3604
6	Sep-21	3423
7	Oct-21	3952
8	Nov-21	3894
9	Dec-21	4241
10	Jan-22	3358
11	Feb-22	4299
12	Mar-22	5542
13	Total	46067
14	Maximum	5542
15	Minimum	0
16	Average	3838.92

Chart No: 1: To study the variation of Monthly Electrical Energy Consumption:

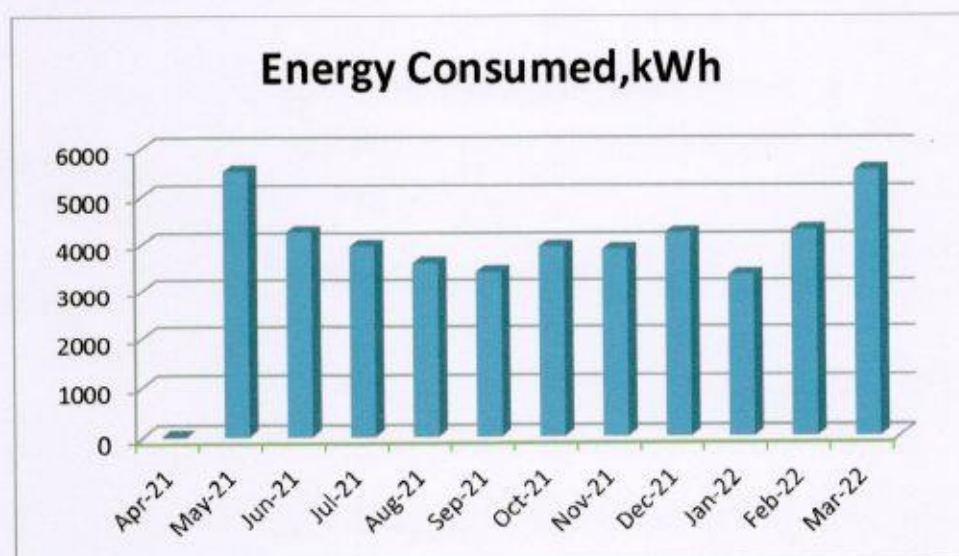


Table No 3: Variation in Important Parameters:

No	Parameter/ Variation	Electrical Energy Consumed, kWh
1	Total	46067
2	Maximum	5542
3	Minimum	0
4	Average	3838.92

CHAPTER-III CARBON FOOTPRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the Institute for performing its day to day activities

The Institute uses Energy in the form of Electrical Energy for various Electrical gadgets.

Basis for computation of CO₂ Emissions:

The basis of Calculation for CO₂ emissions due to Electrical Energy is as under

- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere

Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the Institute due to its Day to Day operations

Table No 4: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emission, MT
1	Apr-21	0	0.00
2	May-21	5524	4.97
3	Jun-21	4264	3.84
4	Jul-21	3966	3.57
5	Aug-21	3604	3.24
6	Sep-21	3423	3.08
7	Oct-21	3952	3.56
8	Nov-21	3894	3.50
9	Dec-21	4241	3.82
10	Jan-22	3358	3.02
11	Feb-22	4299	3.87
12	Mar-22	5542	4.99
13	Total	46067	41.46
14	Maximum	5542	4.99
15	Minimum	0	0.00
16	Average	3838.92	3.46

Chart No 2: Representation of Month wise CO₂ emissions:

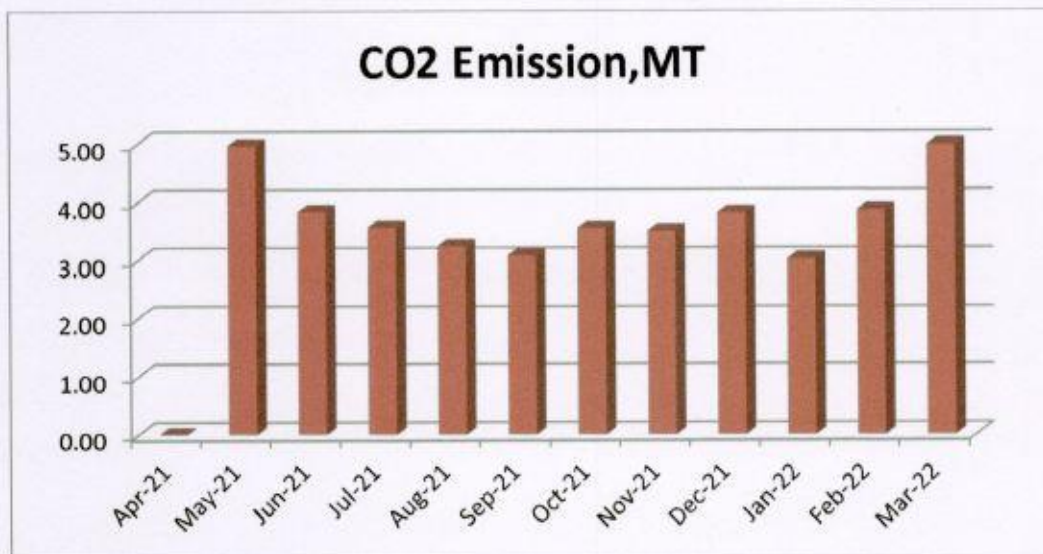


Table No 5: Important Parameters:

No	Parameter/ Value	Energy Consumed, kWh	CO2 Emissions, MT
1	Total	46067	41.46
2	Maximum	5542	4.99
3	Minimum	0	0.00
4	Average	3838.92	3.46



CHAPTER-IV

STUDY OF USAGE OF RENEWABLE ENERGY

The Institute has yet to install Roof top Solar PV Plant. It is recommended to install Roof Top Solar PV Plant.

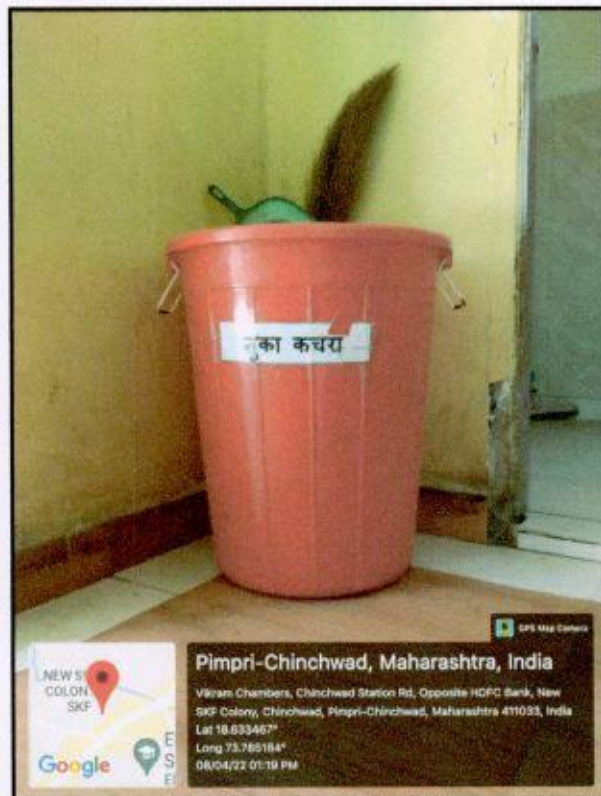


CHAPTER V STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

The recyclable waste, like paper, board and plastic waste is segregated at source. There are separate bins for collection at various locations and is handed over for further for recycling.

Photograph of Separate Waste Collection Bins for Dry and Wet Waste:



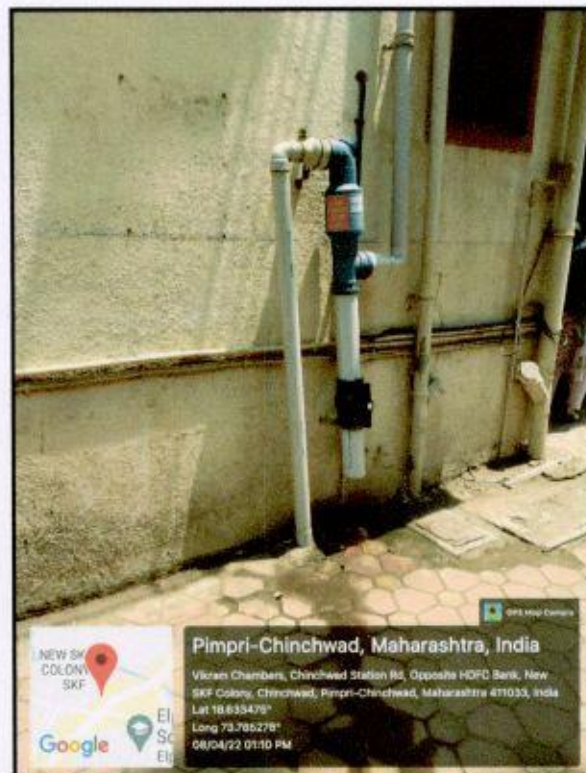
5.2 E-Waste Management:

The E-waste is disposed of through Authorized Agency.

CHAPTER-VI STUDY OF RAIN WATER HARVESTING

The Institute has implemented the Rain Water Harvesting Project. The Institute has installed Pipes from the terrace and the Rain water falling on the terrace is gathered, filtered and is used to increase the underground water table.

Photograph of Rain water Harvesting Pipe and Filter section:

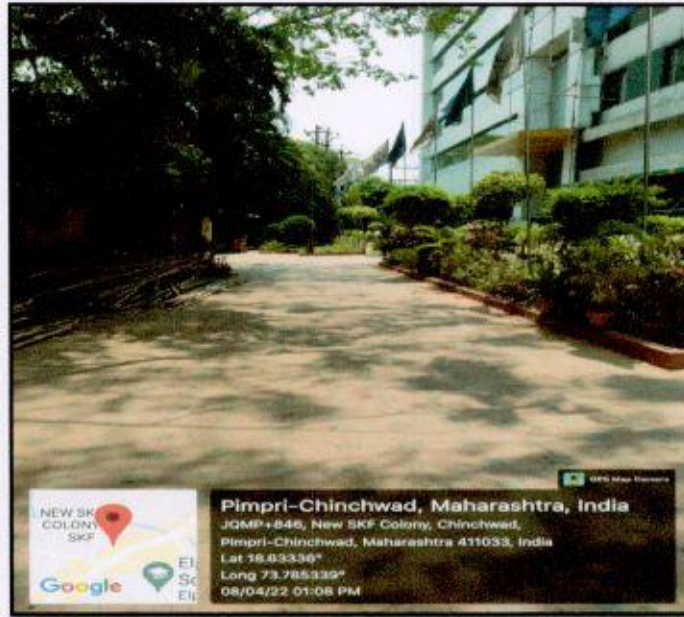


CHAPTER-VII STUDY OF GREEN & SUSTAINABLE PRACTICES

7.1 Pedestrian Friendly Internal Road:

The Institute has well defined pedestrian foot paths as to facilitate the easy movement of the students within the campus.

Photograph of internal road in the campus:



7.2 Internal Tree Plantation:

The Institute has well maintained garden in the campus. The Institute has also medicinal plant garden in the campus.

Photograph of Internal Garden/Tree Plantation:



7.3 Provision of Ramp for Divyangajan:

In order to facilitate the movement of Divyangajan, a ramp is constructed at the ground floor. Also there are dedicated wash rooms for those students.

Photograph of Ramp:



ANNEXURE-I

LIST OF VARIOUS MEDICINAL PLANTS IN THE CAMPUS

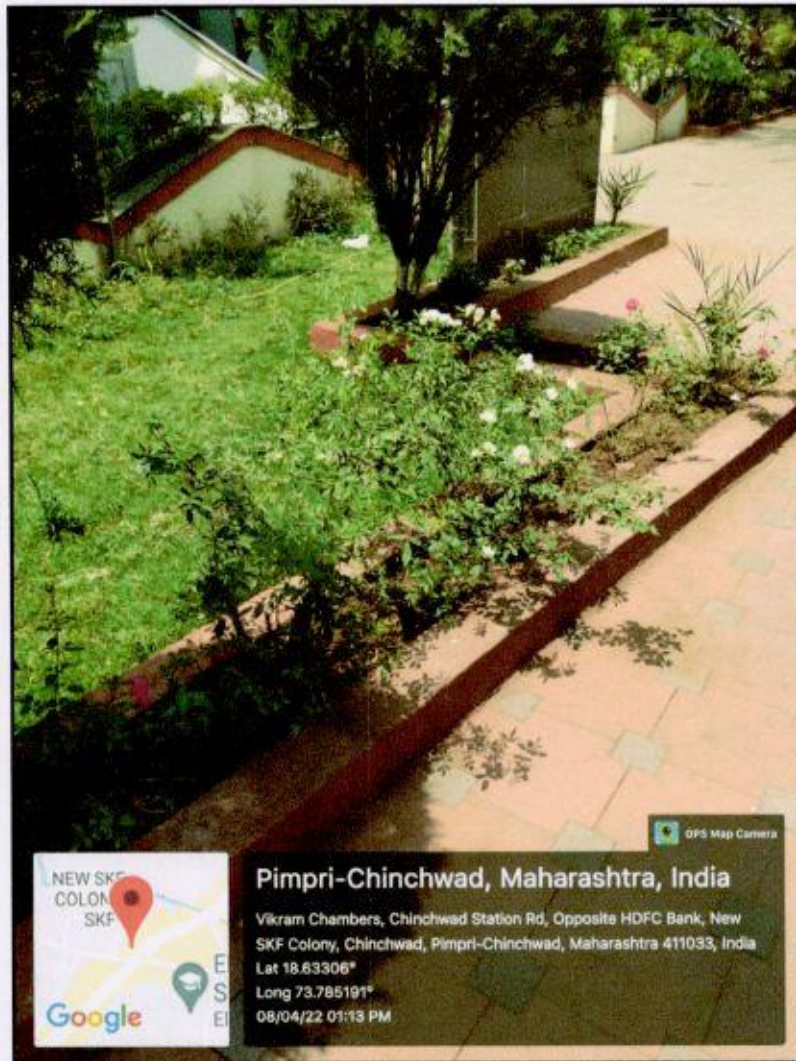
1. Details of Trees in the Campus:

No	Common Name of Tree	Quantity
1	Audumbar	1
2	Papaya	1
3	Phycus	6
4	Ashoka	10
5	Rubber	2
6	Mango	1
7	Gulmohor	2
8	Peepal	1
9	Palm	28
10	Total	52

2. Details of Ornamental Plants in the Campus:

No	Common Name
1	Tagar
2	Vinca
3	Rose
4	Drecena
5	Duranto
6	Nagchampa
7	Morpankhi
8	Tulsi
9	Song of India
10	Sonchampa

Photograph of Ornamental Plants:



GREEN AUDIT REPORT

of

Yashaswi Education Society's,
INTERNATIONAL INSTITUTE OF MANAGEMENT STUDIES,
Chinchwad, Pune 411 033



Year: 2022-23

Prepared by:

ENGRESS SERVICES

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



ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School,
Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com
MEDA Registration No: ECN/2022-23/CR-43/1709
ISO: 9001-2015 Certified (Cert No: 23EQKC13),
ISO: 14001-2015 Certified (Cert No: 23EEKW20)

GREEN AUDIT CERTIFICATE

Certificate No: ES/YESIIMS/22-23/02

Date: 25/5/2023

This is to certify that we have conducted Green Audit at Yashaswi Education Society's International Institute of Management Science, Chinchwad, Pune, in the Year: 2022-23.

The Institute has adopted following Green & Sustainable Practices:

- Usage of Energy Efficient LED Lighting
- Maximum usage of Day Lighting
- Segregation of Waste at source
- Implementation of Rain Water Management Project
- Good internal Road within the campus
- Internal Tree Plantation in the campus
- Provision of Ramp for Divyangajan

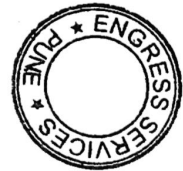
We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Engress Services,



A Y Mehendale,

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



REGISTRATION CERTIFICATES

MAHARASHTRA ENERGY DEVELOPMENT AGENCY

Maharashtra Energy Development Agency
 (An Autonomous Body of Government of Maharashtra)
 Anand Bhau Opposite, Shivajinagar, Road No. 1, Kharadi, Pune - 411 004
 Tel: 020-2602 1111, 2602 1112
 Fax No: 2602 1113
 Email: energydev@maheda.gov.in

LETTER NO. ME/REG/19/ 06 May 2022

**CERTIFICATE OF REGISTRATION
FOR CLASS 'A'**

We hereby certify that the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY under Green and Eco-friendly Movement (GEM) as per the following details:

Name and Address of the firm: M+ Energy Services
 Yashwantrao Chavan Marg, Sector 22,
 Shivajinagar, Pune-411004

Registration Category: Empowered Certified for Energy Conservation Programme (Class 'A')

Registration Number: ME/REG/EN/2022-23/Class 'A'/032

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to address the scope for Energy Conservation and take concrete steps to reduce the wasteful energy systems.
- MEEDA reserves the right to visit at any time without giving prior intimation to verify whether work is performed by the firm and cancel the registration if the information is found to be incorrect.
- The certificate is valid till 06th May, 2024 from the date of registration. It covers all operations conducted by the Energy Conservation Programme.
- The Director General, MEEDA reserves the right to cancel the registration at any time if the firm is not complying with the conditions.

(Signature)
Pankaj R. Dharkar
 Chairman, GEM
 General Manager (C)

ASSOCHAM

GEM Certificate

ASSOCHAM hereby certifies that
Mr. A Y Mehendale
 has successfully passed the
Green and Eco-friendly Movement Certified Professional Test (GEM CP)
 with
"Excellent Performance"
 on
06 June, 2022

*He/she is now eligible to execute the GEM Sustainability Certification Projects
 ASSOCHAM feels proud to award the GEM Certified Professional title to him/her*

(Signature)
Pankaj R. Dharkar
 Chairman, GEM

(Signature)
Deepak Sood
 Secretary General, ASSOCHAM

GEM CP 22/768

MEDA REGISTRATION CERTIFICATE

Certificate of Registration

This is to Certify that
Quality Management System of

ENGRESS SERVICES
 S. VASHANSHIL BLOCK, 1, JYOTIRANANAGAR, NIRMAL BAG, PUNE
 PIN - 411004, MAHARASHTRA, INDIA

has been assessed and found to conform to the requirements of
ISO 9001:2015
 for the following scope:

CONSULTANCY SERVICES FOR ENERGY AUDIT, GREEN AUDIT & ENVIRONMENTAL AUDIT
 PUBLIC RELATIONS, INSTITUTIONS & SUBMISSIONS OF ALL GOVERNMENT AND PRIVATE

Certificate No.	22HQK13	Issue Date	27/02/2023
Initial Registration Date	26/01/2026	1st Surve. Due	27/02/2024
2nd Surve. Due	27/02/2024	2nd Surve. Due	27/02/2025

(Signature)
Director

MMS **EGAC** **IAF**

Magnitude Management Services Pvt. Ltd.
 B-11, Lower Ground Floor, Sector 02, Nanda 201101, G. B. Road
 Pune-411004, Maharashtra, India. Tel: 020-26021111, 26021112
 Email: info@mmss.com, reg@mmss.com, cert@mmss.com
 Website: www.mmss.com

ISO: 9001-2015 CERTIFICATE

ASSOCHAM GEM CP CERTIFICATE

Certificate of Registration

This is to Certify that
Environmental Management System of

ENGRESS SERVICES
 S. VASHANSHIL BLOCK, 1, JYOTIRANANAGAR, NIRMAL BAG, PUNE
 PIN - 411004, MAHARASHTRA, INDIA

has been assessed and found to conform to the requirements of
ISO 14001:2015
 for the following scope:

CONSULTANCY SERVICES FOR ENERGY AUDIT, GREEN AUDIT & ENVIRONMENTAL AUDIT
 PUBLIC RELATIONS, INSTITUTIONS & SUBMISSIONS OF ALL GOVERNMENT AND PRIVATE

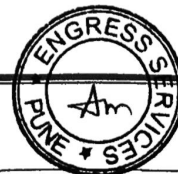
Certificate No.	22EEKW20	Issue Date	29/06/2023
Initial Registration Date	29/06/2023	1st Surve. Due	29/06/2024
2nd Surve. Due	29/06/2024	2nd Surve. Due	28/02/2025

(Signature)
Director

MMS **EGAC** **IAF**

Magnitude Management Services Pvt. Ltd.
 B-11, Lower Ground Floor, Sector 02, Nanda 201101, G. B. Road
 Pune-411004, Maharashtra, India. Tel: 020-26021111, 26021112
 Email: info@mmss.com, reg@mmss.com, cert@mmss.com
 Website: www.mmss.com

ISO: 14001-2015 CERTIFICATE



INDEX

Sr. No	Particulars	Page No
I	Acknowledgement	5
II	Executive Summary	6
III	Abbreviations	7
1	Introduction	8
2	Study of Energy Consumption & CO ₂ Emission	9
3	Study of Usage of Renewable Energy	10
4	Study of Waste Management	11
5	Study of Rain water Management	12
6	Study of Green & Sustainable Practices	13
	Annexure	
I	List of Trees & Plants	15

ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Yashaswi Education Society's International Institute of Management Science, Chinchwad, Pune 411 033, for awarding us the assignment of Green Audit of their Chinchwad Campus, for the Year: 2022-23.

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



EXECUTIVE SUMMARY

1. Yashaswi Education Society's International Institute of Management Science Chinchwad 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 Consumed	53346	kWh
2	Annual CO ₂ Emissions	48.01	MT

3. Usage of Renewable Energy:

The Institute has yet to install Roof Top 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 Institute has implemented Rain Water Management Project, wherein the Rain Water from terrace is collected and is used to increase 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 Water Conservation Display of Posters

7. Assumption:

1. 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere

8. Reference:

- For CO₂ Emissions: www.tatapower.com

ABBREVIATIONS

BEE	Bureau of Energy Efficiency
YES	Yashaswi Education Society
kWh	Kilo Watt Hour
kWp	Kilo Watt Peak
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
LPD	Liters per Day
LPG	Liquefied Petroleum Gas

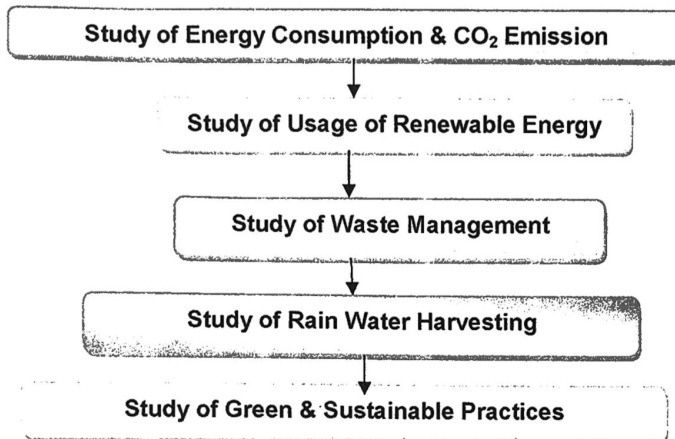


CHAPTER-I INTRODUCTION

1.1 Introduction:

A Green Audit is conducted at Yashaswi Education Society's International Institute of Management Science, Chinchwad, Pune.

1.2 Audit Procedural Steps:



1.3 Institute Location Image:



Institute
Campus

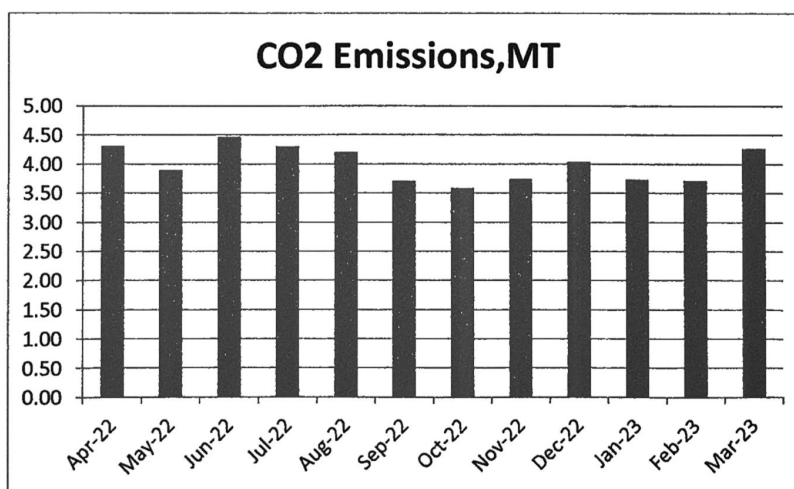
CHAPTER-II STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

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 0.9 Kg of CO₂ into atmosphere.

Table No 1: Month wise Energy Consumption & CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Apr-22	4798	4.32
2	May-22	4336	3.90
3	Jun-22	4968	4.47
4	Jul-22	4785	4.31
5	Aug-22	4669	4.20
6	Sep-22	4125	3.71
7	Oct-22	3991	3.59
8	Nov-22	4161	3.74
9	Dec-22	4486	4.04
10	Jan-23	4149	3.73
11	Feb-23	4129	3.72
12	Mar-23	4749	4.27
13	Total	53346	48.01
14	Maximum	4968	4.47
15	Minimum	3991	3.59
16	Average	4445.5	4.00

Chart No 1: Month wise CO₂ Emissions:



CHAPTER-III

STUDY OF USAGE OF RENEWABLE ENERGY

The Institute has yet to install Roof top Solar PV Plant.

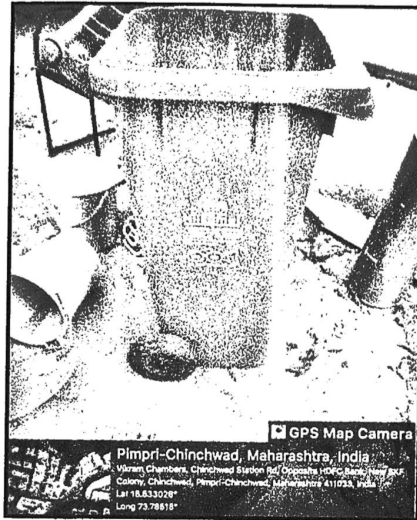


CHAPTER IV STUDY OF WASTE MANAGEMENT

4.1 Segregation of Waste at Source:

The recyclable waste, like paper, board and plastic waste is segregated at source. Waste Collection Bins are kept at various locations.

Photograph of Waste Collection Bin:



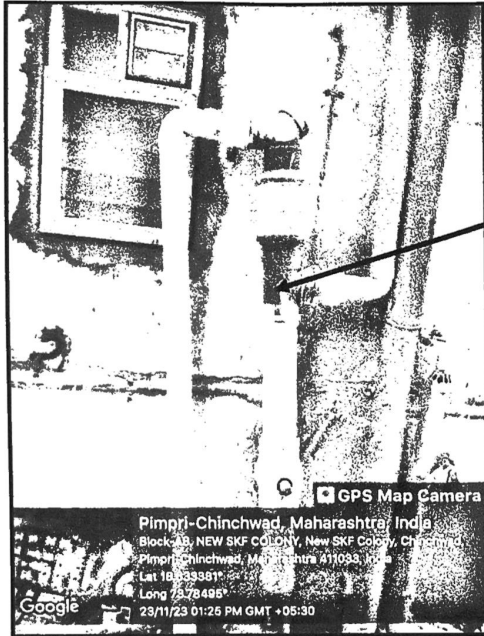
4.2 E-Waste Management:

It is recommended to dispose of the E-waste through Authorized Agency.

CHAPTER-V STUDY OF RAIN WATER MANAGEMENT

The Institute has implemented the Rain Water Management Project. The Institute has installed Pipes from the terrace and the Rain water falling on the terrace is gathered, filtered and is used to increase the underground water table.

Photograph of Rain water Carrying Pipe and Filter Unit:



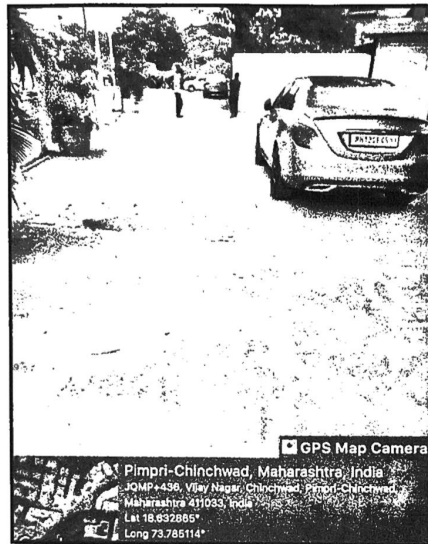
Rain Water
Carrying pipe
& Filter Unit

CHAPTER-VI STUDY OF GREEN & SUSTAINABLE PRACTICES

6.1 Pedestrian Friendly Internal Road:

The Institute has well defined pedestrian foot paths as to facilitate the easy movement of the students within the campus.

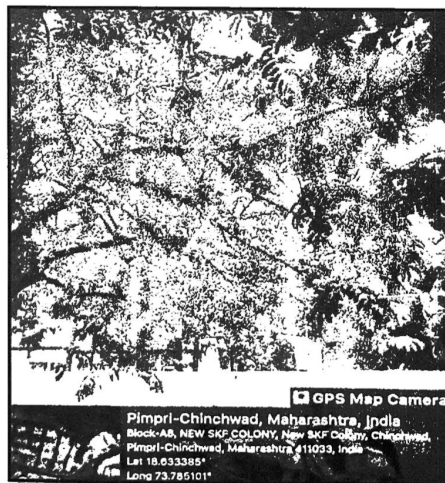
Photograph of internal road in the campus:



6.2 Internal Tree Plantation:

The Institute has well maintained garden in the campus.

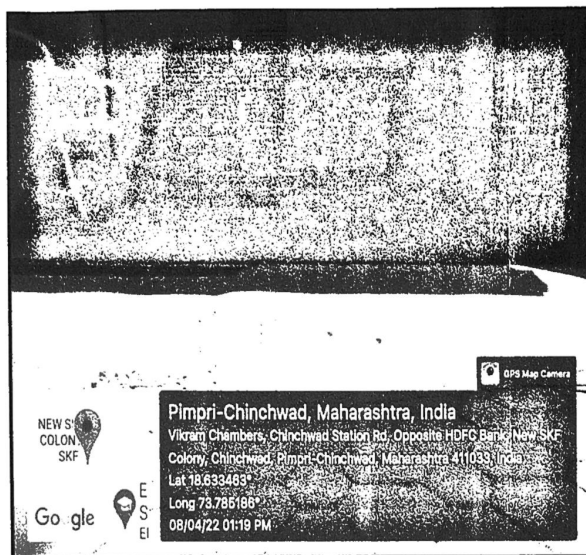
Photograph of Internal Garden/Tree Plantation:



6.3 Provision of Ramp for Divyangajan:

In order to facilitate the movement of Divyangajan, a ramp is constructed at the ground floor. Also there are dedicated wash rooms for those students.

Photograph of Ramp:



ANNEXURE-I LIST OF VARIOUS TREES & PLANTS IN THE CAMPUS

1. Details of Trees in the Campus:

No	Common Name of Tree	Quantity
1	Audumbar	1
2	Papaya	1
3	Phycus	6
4	Ashoka	10
5	Rubber	2
6	Mango	1
7	Gulmohor	2
8	Peepal	1
9	Palm	28
10	Total	52

2. Details of Ornamental Plants in the Campus:

No	Common Name
1	Tagar
2	Vinca
3	Rose
4	Drecena
5	Duranto
6	Nagchampa
7	Morpankhi
8	Tulsi
9	Song of India
10	Sonchampa

GREEN AUDIT REPORT

Yashaswi Education Society's,
INTERNATIONAL INSTITUTE OF MANAGEMENT STUDIES,
Chinchwad, Pune 411 033



Year: 2023-24

Prepared by:

ENGRESS SERVICES

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



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

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

MAJOR ACTIVITY: SERVICES

SOCIAL CATEGORY OF ENTREPRENEUR: GENERAL

NAME OF UNIT(S): 1. Engress Services

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

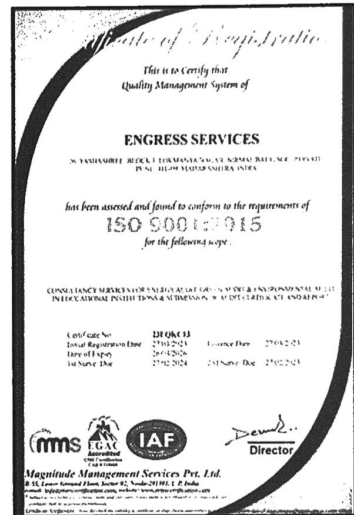
Flat/Block No.	26	Name of Premises/Building	Vishakhare
Village/Town	Pune	Block	1
Road/Street Lane	Lokmanya Nagar/Normal Bag	City	Pune
State	MAHARASHTRA	District	PUNE, Pin 411009
Mobile	8767447244	Email:	engress123@gmail.com

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

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

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

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 Commemorative of Animal Husbandary
Aundh, Pune, Maharashtra 411067
Ph. No. 020-25989400
E-mail: vee@maheda.gov.in, Web: www.maharajya.com

F.C.N. 7022-2/14 R-4/1/1709 10th May, 2022

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.

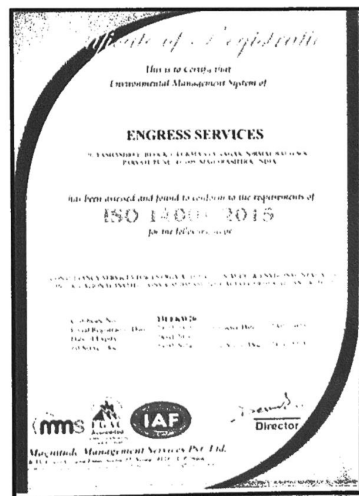
Name and Address of the firm: M/s Engress Services, Vishakhare, 26, Normal Bag Society, Near Malkang and English School, Parvati, Pune, 411 009.

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

Registration Number: MEDA/F.C.N.7022-2/Class A/A-1/1.

- 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 certificate is valid till 09th May, 2024 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 therefor.

General Manager (E.C.)



INDEX

Sr. No	Particulars	Page No
I	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
	Annexure	
I	List of Trees & Plants	14

ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Yashaswi Education Society's International Institute of Management Science, Chinchwad, Pune 411 033, for awarding us the assignment of Green Audit of their Chinchwad Campus, for the Year: 2023-24.

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

EXECUTIVE SUMMARY

1. Yashaswi Education Society's International Institute of Management Science Chinchwad 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 Consumed	113048	kWh
2	Annual CO ₂ Emissions	105.13	MT

3. Usage of Renewable Energy:

The Institute has yet to install Roof Top 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
3	Organic Waste	Recommended to follow Bio Composting Route

5. Rain Water Management:

The Institute has implemented Rain Water Management Project, wherein the Rain Water from terrace is collected and is used to increase the underground Water Table.

6. Green & Sustainable Practices:

- Maintenance of good Internal Road
- Tree Plantation in the campus.
- Provision of Sloopy Structure & Lift for Divyangajan
- Creation of awareness on Energy Conservation Display of Posters

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

BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
Qty	Quantity

CHAPTER-I INTRODUCTION

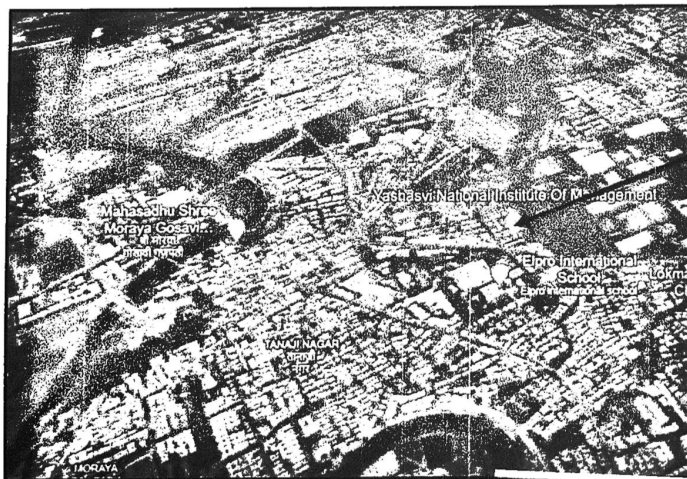
1.1 Introduction:

A Green Audit is conducted at Yashaswi Education Society's International Institute of Management Science, Chinchwad, 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 Institute Location Image:



Institute
Campus

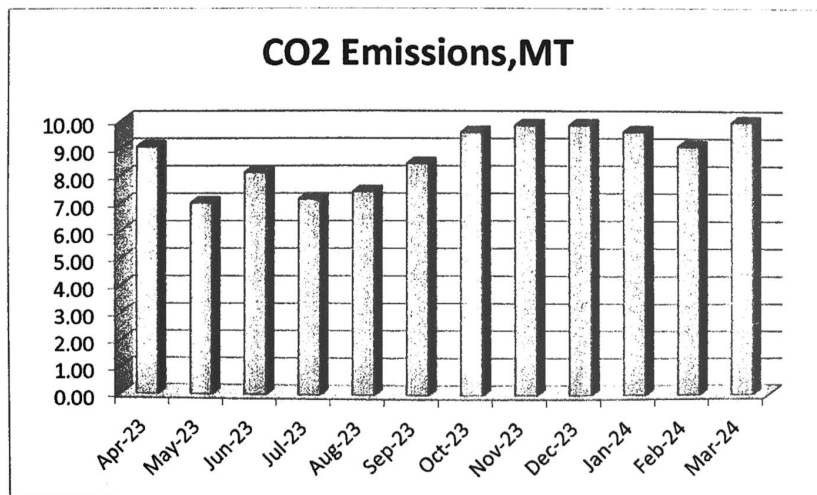
CHAPTER-II STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

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 Energy Consumption & CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Apr-23	9746	9.06
2	May-23	7542	7.01
3	Jun-23	8741	8.13
4	Jul-23	7694	7.16
5	Aug-23	7985	7.43
6	Sep-23	9087	8.45
7	Oct-23	10304	9.58
8	Nov-23	10575	9.83
9	Dec-23	10583	9.84
10	Jan-24	10325	9.60
11	Feb-24	9750	9.07
12	Mar-24	10716	9.97
13	Total	113048	105.13
14	Maximum	10716	9.97
15	Minimum	7542	7.01
16	Average	9420.67	8.76

Chart No 1: Month wise CO₂ Emissions:



CHAPTER III


STUDY OF USAGE OF RENEWABLE ENERGY

The Institute 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.

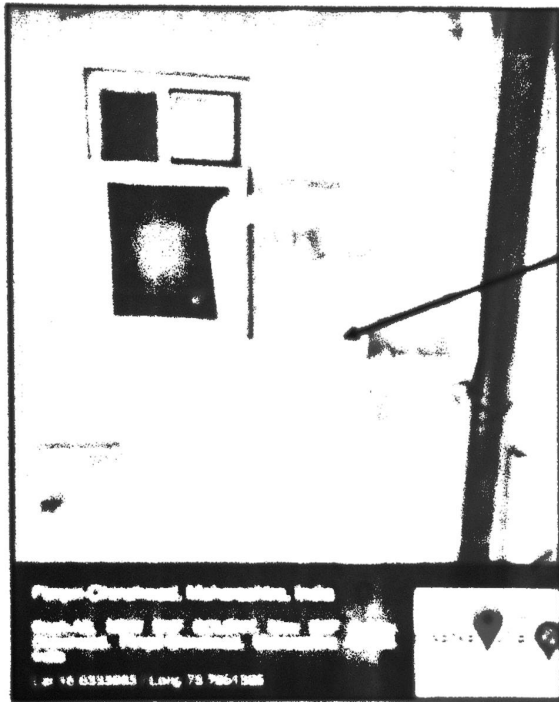
Details of Waste Management Practices:

No	Head	Observation	Photograph
1	Solid Waste	Segregation of Waste at Source: Provision of Waste Collection Bins	<p>Photo of Waste Collection Bin:</p> 
2	E Waste	Recommended to dispose of through Authorized Agency	
3	Organic Waste	Recommended to follow Bio Composting Route	

CHAPTER-V STUDY OF RAIN WATER MANAGEMENT

The Institute has implemented the Rain Water Management Project. The Institute has installed Pipes from the terrace and the Rain water falling on the terrace is gathered, filtered and is used to increase the underground water table.

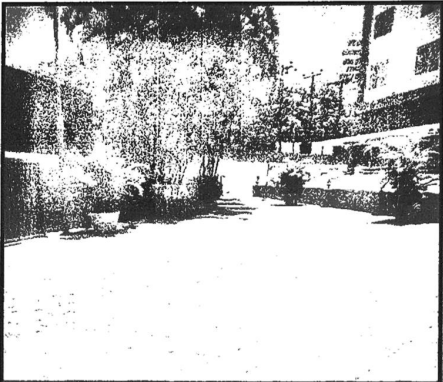

Photograph of Rain water Carrying Pipe and Filter Unit:

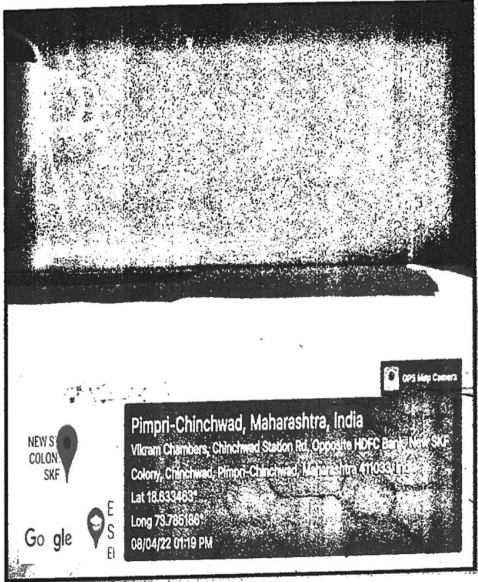
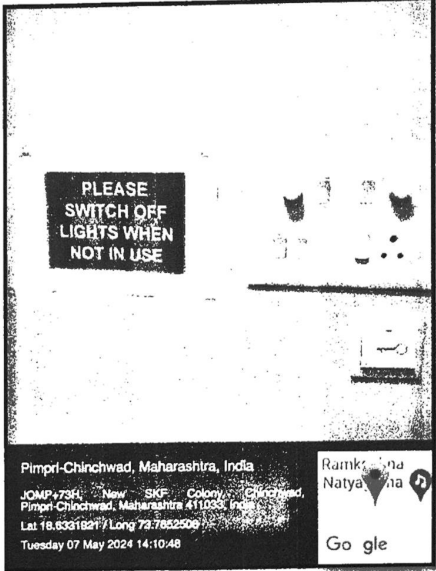


Rain Water
Carrying pipe
& Filter Unit

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	<p style="text-align: center;">Photo of Internal Road:</p>  <p>Pimpri-Chinchwad, Maharashtra, India Block-AR, NEW, SKE, Chinchwad, Pimpri-Chinchwad, Maharashtra 411033 Lat: 18.8331531, Long: 73.785227 Tuesday 07 May 2024 12:53:27</p> <p>Ramkrishna Natyadha Go gle</p>
2	Tree Plantation	Internal Tree Plantation in the Campus	<p style="text-align: center;">Photo of Internal Tree Plantation:</p>  <p>Pimpri-Chinchwad, Maharashtra, India Block-AR, NEW, SKE, Chinchwad, Pimpri-Chinchwad, Maharashtra 411033 Tuesday 07 May 2024 13:37:27</p> <p>Ramkrishna Natyadha Go gle</p>

<p>3</p>	<p>Facilities for Divyangajan</p>	<p>Provision of Sloopy Structure & Lift for Divyangajan</p>	<p>Sloopy Structure for Divyangajan:</p> 
<p>4</p>	<p>Creation of Awareness among Stake Holders</p>	<p>Display of Poster on Energy Conservation</p>	<p>Poster on Energy Conservation:</p> 

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

1. Details of Trees in the Campus:

No	Common Name of Tree	Quantity
1	Audumbar	1
2	Papaya	1
3	Phycus	6
4	Ashoka	10
5	Rubber	2
6	Mango	1
7	Gulmohor	2
8	Peepal	1
9	Palm	28
10	Total	52

2. Details of Ornamental Plants in the Campus:

No	Common Name
1	Tagar
2	Vinca
3	Rose
4	Drecena
5	Duranto
6	Nagchampa
7	Morpankhi
8	Tulsi
9	Song of India
10	Sonchampa