



**7.1.3 *Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives
Green Audit Reports & certificate***

Index

SN	Details
1	Green / Environment Audit <ul style="list-style-type: none">• Green Audit,• Environment Audit• Energy Audit Report,• Audit Certificates• AQI Index
2	Clean & Green campus initiatives <ul style="list-style-type: none">• Tree Plantations• Lush Green Campus• Vehicle free zone• Green Campus Policy• Pedestrian friendly Pathway



Green Audit Report & Certificate.....

ENGRESS SERVICES

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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/IIMHRD/22-23/02

Date: 15/4/2023

This is to certify that we have conducted Green Audit at International Institute of Management & Human Resource Development (W), Nere Dattawadi, Near Hinjawadi IT Park, Pune 411 033, in the Year 2022-23.

The Institute has adopted following Green & Sustainable Practices:

- > Usage of Energy Efficient LED Fittings
- > Maximum usage of Day Lighting
- > Installation of 5 kWp Roof Top Solar PV Plant
- > Segregation of Waste at source
- > Provision of Septic Tank, for liquid Waste Management
- > Good Internal Road
- > Internal Tree Plantation
- > Creation of Awareness in respect of 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,

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



GREEN AUDIT REPORT

**INTERNATIONAL INSTITUTE OF MANAGEMENT & HUMAN
RESOURCE DEVELOPMENT (W),**
New Dattawadi, Near Hingewadi IT Park, Pune 411 003

Year: 2023-24

Prepared by:

ENGRESS SERVICES

Yashwantrao, 26, Nirmal Durg Society
Near Muktajee English School, Parvat, Pune 411 005
Phone: 9890444795 Email: engress123@gmail.com



Registration Certificates: UYMM, MEDA, ASSOCHAM GEN CP, ISO: 9001 & 14001

Category	Score	Weightage
Environmental Management	85.00	100%



INDEX

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ACKNOWLEDGEMENT

We, Eggeston Services, Pune, express our sincere gratitude to the management of International Institute of Management & Human Resource Development (IIM), Near Oldland, Near Hingurud (E) Park, Pune-411 002 for assisting 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

- International Institute of Management & Human Resource Development (IIM), Pune consumes Energy in the form of Electrical Energy; used for various Electrical Equipment.
- Present Energy Consumption & CO₂ Emission:

No	Particulars	Value	Unit
1	Annual Energy Purchased	38796	kWh
2	Annual CO ₂ Emissions	26.81	MT

- Usage of Renewable Energy & Reduction in CO₂ Emission:

No	Particulars	Value	Unit
1	Annual Energy generated by Solar PV Plant	4080	kWh
2	Annual Reduction in CO ₂ Emissions	5.58	MT

- Waste Management:

No	Issue	Particulars
1	Solid Waste	Segregation of Waste at source
2	Organic Waste	Provision of Bio Gas Unit
3	Liquid Waste	Provision of Septic Tank & periodic Cleaning

- Rain Water Management:

The Institute has yet to install Rain Water Management project.

- Green & Sustainable Practices:

- Maintenance of good Internal Road
- Tree Plantation in the campus.
- Creation of awareness on Water Conservation Display of Posters.

- Assumptions:

- 1 kWh of Electrical Energy releases 0.93 Kg of CO₂ into atmosphere
- Energy Consumption is computed based on Load Utilization Factor
- Solar Energy generated: 4 kWh/kWp, Annual Generation Capax: 380 Kwh

- References:

- For CO₂ Emissions: www.co2.gubnet.gov.in
- For Solar Energy Generation: www.internatio.org.in

ABBREVIATIONS

DEC	Degree of Energy Efficiency
kWh	Kilo Watt Hour
LFD	Liter 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 International Institute of Management & Human Resource Development (W), 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:



CHAPTER-II

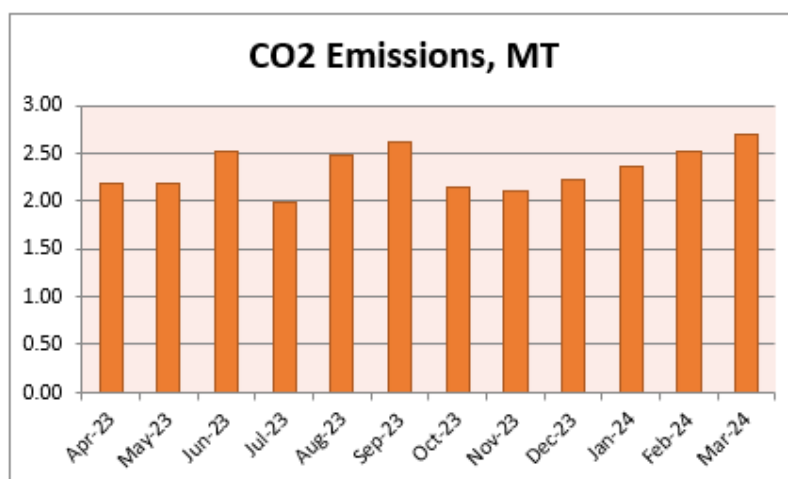
STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

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 Purchased, kWh	CO ₂ Emissions, MT
1	Apr-23	2345	2.18
2	May-23	2350	2.19
3	Jun-23	2705	2.52
4	Jul-23	2136	1.99
5	Aug-23	2668	2.48
6	Sep-23	2806	2.61
7	Oct-23	2314	2.15
8	Nov-23	2265	2.11
9	Dec-23	2398	2.23
10	Jan-24	2536	2.36
11	Feb-24	2698	2.51
12	Mar-24	2895	2.69
13	Total	30116	28.01
14	Maximum	2895	2.69
15	Minimum	2136	1.99
16	Average	2509.67	2.33

Chart No 1: Month wise CO₂ Emissions:



CHAPTER III

STUDY OF USAGE OF RENEWABLE ENERGY

The Institute has installed Roof Top Solar PV Plant of Capacity 5 kWp.

In this Chapter, we compute the reduction in CO₂ Emissions on account of Usage of Solar Energy.

Table No 2: Computation of Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Solar PV Plant	5	kWp
2	Average Energy Generated by Solar PV Plant	4	kWh/kWp
3	Annual Generation Days	300	Nos
4	Total Solar Energy Generated= $2*3*4$	6000	kWh
5	1 kWh of Electrical Energy is equivalent to	0.9	Kg of CO ₂
6	Reduction in CO ₂ Emissions in 22-23 = $4*5/1000$	5.4	MT



Photograph of 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>Waste Collection Bin:</p>  <p>Pimpri-Chinchwad, Maharashtra, India 54, Hinjawadi - Karamba Rd, Hinjawadi, Pimpri-Chinchwad, Pune, Maharashtra 411057, India Lat 18.616466 / Long 73.705393 Thursday 04 April 2024 13:06:32</p>
2	Organic & Food Waste	Provision of Bio Gas Unit for conversion of Food Waste	<p>Bio Gas Unit:</p>  <p>Pune, Maharashtra, India 993+046, Pune, Maharashtra 410505, India Lat 18.6168719° Long 73.7050394° 08/04/24 12:45 PM GMT +05:30</p>
3	Liquid Waste	Provision of Septic Tank & Periodic Cleaning	

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;">Internal Road:</p>  <p style="font-size: small;">Nere, Maharashtra, India JPW+PSC, Nere, Maharashtra 410506, India Lat 18.0164108 / Long 73.7051877 Thursday 04 April 2024 13:16:43</p> 
2	Tree Plantation	Internal Tree Plantation in the Campus	<p style="text-align: center;">Internal Tree Plantation:</p>  <p style="font-size: small;">Lat 18.0164008 / Long 73.7151828 Thursday 04 April 2024 13:16:13</p> 

3	Creation of Awareness among Stake Holders	Display of Poster on Water Conservation	<p>Poster on Water Conservation:</p>  <p>Pimpri-Chinchwad, Maharashtra, India S4, Hinjewadi - Kharadi Rd, Hinjewadi, Pimpri-Chinchwad, Pune, Maharashtra 411027, India Lat 18.6163812 / Long 73.795307 Thursday 04 April 2024 14:06:09</p>
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7.1.3 Clean & Green Campus Initiatives @ IIMHRD.....

Pedestrian-friendly pathways



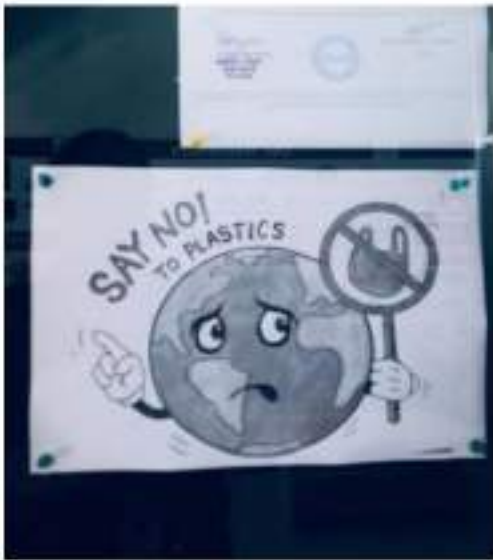
SAIBALAJI EDUCATIONAL SOCIETY

INTERNATIONAL INSTITUTE OF MANAGEMENT & HUMAN RESOURCE DEVELOPMENT

IIMHRD For Women



(Affiliated to University of Pune & Approved by AICTE, Ministry of HRD, Govt. of India)



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



ENERGY AUDIT CERTIFICATE

Certificate No: ES/IIHMRD/23-24/01

Date: 20/4/2024

This is to certify that we have conducted Energy Audit at International Institute of Management & Human Resource Development (W), Nere Dattawadi, Near Hinjawadi IT Park, Pune 411 033, in the Academic year 2023-24.

The Institute has adopted following Energy Efficient Practices:

- Usage of Energy Efficient LED Fittings
- Installation of Roof Top Solar PV Plant of Capacity 5 kWp
- 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,

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



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

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ISO: 14001-2015 Certified (Cert No: 23EEKW20)



GREEN AUDIT CERTIFICATE

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

Date: 20/4/2024

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- Usage of Energy Efficient LED Fittings
- Installation of Roof Top Solar PV Plant of Capacity 5 kWp
- Maximum usage of Day Lighting
- Segregation of Waste at Source
- Installation of Bio Gas Unit for conversion of Organic Waste
- Provision of Septic Tank, for Disposal of Liquid Waste
- Good Internal Road
- Tree Plantation in the campus
- Provision of Ramp for Divyangajan
- Creation of awareness on Water 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,

A Y Mehendale,

B E- Mech, M Tech-Energy, Certified Energy Auditor, EA-8192

ASSOCHAM GEM Certified Professional: GEM: 22/788



ENGRESS SERVICES

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



ENVIRONMENTAL AUDIT CERTIFICATE

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

Date: 20/4/2024

This is to certify that we have conducted Environmental Audit at International Institute of Management & Human Resource Development (W), Nere Dattawadi, Near Hinjawadi IT Park, Pune 411 033, in the Academic year 2023-24.

The Institute has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Fittings
- Installation of Roof Top Solar PV Plant of Capacity 5 kWp
- Maximum usage of Day Lighting
- Segregation of Waste at Source
- Installation of Bio Gas Unit for conversion of Organic Waste
- Provision of Septic Tank, for Disposal of Liquid Waste
- Good Internal Road
- Tree Plantation in the campus
- Creation of awareness on Water 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 & Eco Friendly.

For Engress Services,

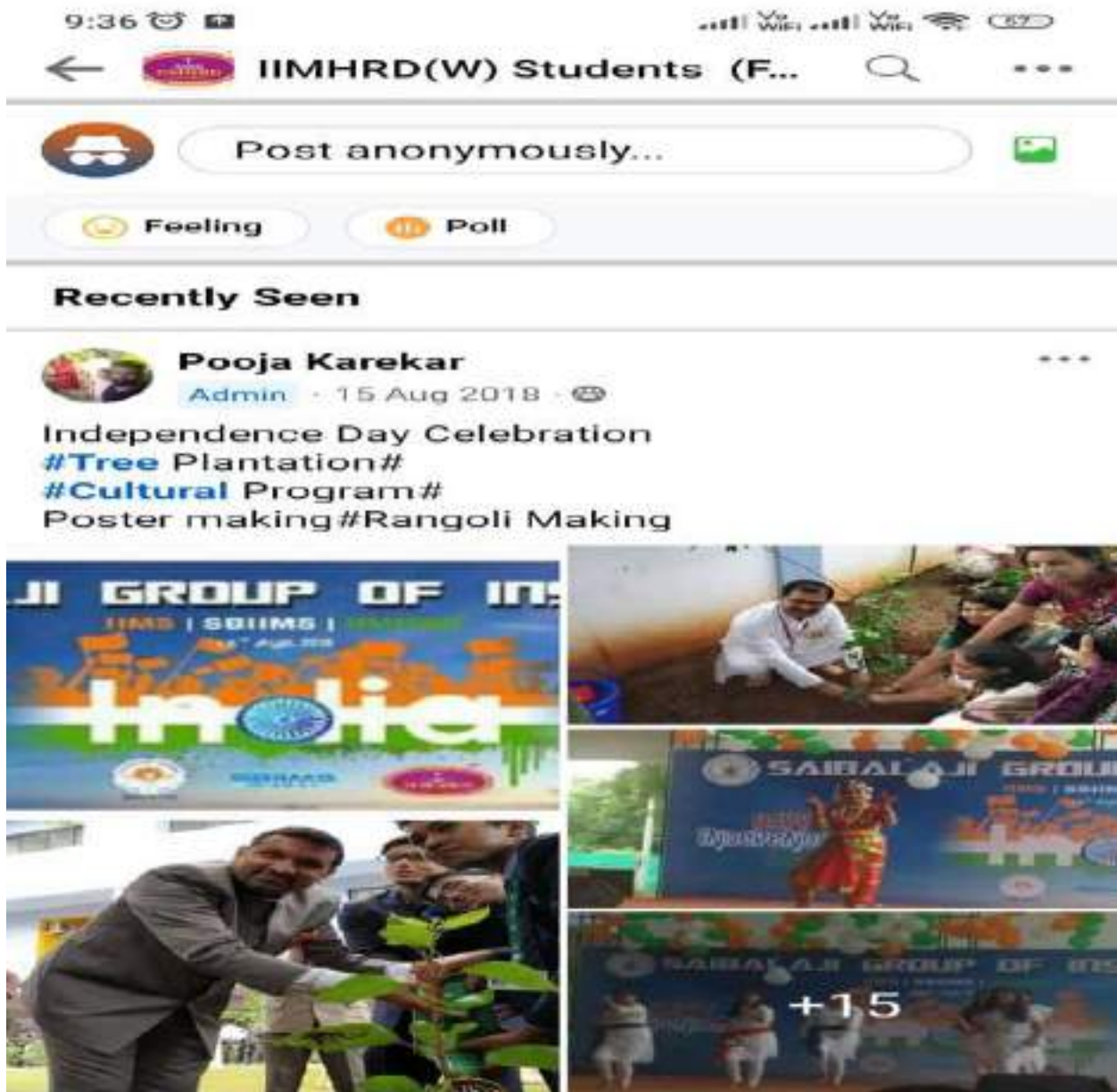
A Y Mehendale,

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





7.1.3 Environment Promotion Activities





9:32

IIMHRD(W) Students (F...

Post anonymously...

Feeling Poll

Recently Seen

Sakshi Shinde
5 Jun 2019

Warm Rotaract Greeting!!

World Environment Day (WED) is celebrated on the 5th of June every year, and is the United Nation's principal vehicle for encouraging awareness and action for the protection of our environment. First held in 1974, it has been a flagship cam... See more

15 Like Comment Send

Most relevant

Aditi Gupta



Sai Balaji Education Society Celebrates WORLD ENVIRONMENT DAY.🌍
World Environment Day is celebrated across the globe to honour and recognize
the significance of nature, environment, and ecology
This World Environment Day, let's bring the change in ourselves before it's too
late. 🌱

Live green, Breathe Green, Go Green 🌳


DIRECTOR
IIMHRD (W)
PUNE





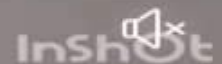
Pranjal Bhojar



5 Jun 2020 · 🌐

🌍 World Environmental Day 🌍

The environment that we live in, is very important not only for our health but for our survival, so there is a huge need for us to protect it 🌻 We would not be able to survive if we do not have clean air and water and land to live on, so on June 5 o... See more



👍❤️ 44

2 comments

👍 Like

💬 Comment

📞 Send

Most relevant






DIRECTOR
IIMHRD (W)
PUNE






DIRECTOR
IIMHRD (W)
PUNE



Global warming is a man made disaster working like a slow poison and ruining the natural environment gradually. The natural driving force behind climate change is the greenhouse effect at work in our world's climate.

It is very necessary to increase awareness about it among the common public living in the society. Awareness regarding global warming can be enhanced in society by communicating to the society directly.

It was a great pleasure to represent our Rotaract Club of IIMHRD(W) in Thailand and conduct this activity of spreading knowledge amongst people about global warming and climate change.

*Regards,
Rotaract club, IIMHRD(W)*



"Let's nurture the nature so that we can have a better future"

This celebrates awareness among the masses about the protection of nature and our beautiful environment.

Rotaract Club of Saibalaji Education Society wishes all "Happy Environment Day 2021"



Sai Balaji Education Society Celebrates WORLD ENVIRONMENT DAY.🌍

World Environment Day is celebrated across the globe to honour and recognize the significance of nature, environment, and ecology

This World Environment Day, let's bring the change in ourselves before it's too late. ❤️

Live green, Breathe Green, Go Green 🌳




**DIRECTOR
IIMHRD (W)
PUNE**







Global warming is a man made disaster working like a slow poison and ruining the natural environment gradually. The natural driving force behind climate change is the greenhouse effect at work in our world's climate.

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Regards,
Rotaract club, IIMHRD(W)


DIRECTOR
IIMHRD (W)
PUNE





SAI BALAJI EDUCATION SOCIETY
International Institute of Management & Human
Resources Development (W)



Let's Protect The Environment!

It is our responsibility to preserve nature and prevent climate change!

THINGS YOU CAN DO:



Plant more trees to help save energy & clean the air

Try to use more reusable plastic bags when you go for shopping



Lend a hand to save the planet.

We the students of Sai Balaji Education Society feeling so graceful to celebrate World Environment Day. Our planet's alarm is going off, and it is time to wake up and take action.


DIRECTOR
IIMHRD (W)
PUNE





Pune, MH, India
Mulshi, Pune, 410506, MH, India
Lat 18.616422, Long 73.705141
06/05/2023 02:24 PM GMT+05:30
Note : Captured by GPS Map Camera



Pune, MH, India
Mulshi, Pune, 410506, MH, India
Lat 18.616451, Long 73.705147
06/05/2023 02:19 PM GMT+05:30
Note : Captured by GPS Map Camera



Tree Plantation" 🌱 -IIMHRD

Greetings From SaiBalaji Education Society's -International Institute of Management and Human Resource Development

On this significant occasion of "World Environment Day"

Let us pledge to unite in our efforts to safeguard our precious planet and create an even more better living future "


DIRECTOR
IIMHRD (W)
PUNE








**DIRECTOR
IIMHRD (W)
PUNE**






**DIRECTOR
IIMHRD (W)
PUNE**





Inaugural and Orientation Batch:2020-22

" Tree plantation"

"When we plant trees, we plant the seeds of peace and seeds of hope,"

A Good start for a new journey and many more to come ahead


DIRECTOR
IIMHRD (W)
PUNE





If you cut a tree, you kill a life. If you save a tree, you save a life.
If you plant a tree, you plant a life."


DIRECTOR
IIMHRD (W)
PUNE



7.1.3 : Policy Document on Environment & Energy Audit Certification and Usage

Introduction

IIMHRD recognizes its responsibility as a leading educational institution to promote environmental stewardship and contribute to a sustainable future. We believe that fostering environmental consciousness and adopting responsible energy practices are crucial for the well-being of our planet and the communities we serve. This policy outlines IIMHRD's commitment and strategies towards achieving these goals.

Environmental Consciousness

- **Curriculum Integration:** Embedding sustainability principles, resource management, and environmental ethics throughout the MBA curriculum.
- **Educational Initiatives:** Organizing workshops, seminars, and awareness campaigns to educate students, faculty, and staff on environmental issues and best practices.
- **Waste Reduction:** Implementing a comprehensive waste management system that minimizes waste generation, prioritizes recycling and composting, and discourages single-use plastics through readily available alternatives and educational programs.

Green Procurement

- **Sustainable Practices:** Prioritizing environmentally friendly products and services during procurement. This includes considering factors such as recyclability, energy efficiency, and eco-certifications.
- **Supplier Partnerships:** Collaborating with suppliers who demonstrate a commitment to sustainability and environmental responsibility.

Biodiversity Conservation

- **Green Campus Development:** Preserving and enhancing existing green spaces on campus to foster biodiversity, provide opportunities for environmental education, and promote recreation.
- **Local Ecosystem Support:** Actively supporting initiatives aimed at the conservation of local ecosystems and wildlife.

Energy Management

- **Efficiency Measures:** Implementing energy-efficient technologies and practices throughout campus facilities. This includes conducting regular energy audits to identify areas for improvement and implement targeted measures.

- Renewable Energy Integration : Exploring and investing in renewable energy sources like solar, wind, or hydroelectric power to supplement campus energy needs. This policy encourages partnerships with renewable energy providers and investigates onsite generation possibilities.

Behavioural Change

- Awareness Campaigns: Promoting energy conservation behaviours among students, faculty, and staff through targeted campaigns and incentive programs.
- Resource Optimization: Encouraging the use of energy-efficient appliances and equipment within campus buildings and residences.

Monitoring and Reporting

- Performance Tracking: Establishing a robust monitoring system to track energy usage and key environmental performance indicators (KPIs) regularly.
- Transparency and Accountability: Publishing annual reports on energy consumption, greenhouse gas emissions, and progress towards established sustainability goals.

Implementation and Review

This policy comes into effect on June 5th, 2022, coinciding with World Environment Day. IIMHRD will conduct periodic reviews and evaluations to assess the effectiveness of the implemented initiatives under this policy.

Conclusion

IIMHRD is firmly committed to fostering a culture of environmental consciousness and responsible energy usage within its community. Through unwavering adherence to the principles outlined in this policy, collaboration with stakeholders, and continuous improvement efforts, IIMHRD aspires to make a significant contribution to a sustainable future for all.


**DIRECTOR
IIMHRD (W)
PUNE**

