



Jayawant Shikshan Prasarak Mandal's  
**JSPM Narhe Technical Campus**

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Affiliated to Savitribai Phule Pune University. Approved by AICTE New Delhi and DTE Maharashtra.

DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874



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**Prof.(Dr.)T. J.Sawant**  
D.E.E., B.E.(Electrical),Ph.D., MISTE  
Founder - Secretary

**Prof.(Dr.)M.M.Sardeshmukh**  
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)  
DIRECTOR

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## 7.1: Institutional Values and Social Responsibilities

### 7.1.3: Quality audits on environment and energy regularly undertaken by the Institution.

Supporting documents as per SoP:

#### C. Green audit/environmental audit report

Director

# ENVIRONMENTAL AUDIT REPORT

Of

Jayawant Shikshan Prasarak Mandal's,

**NARHE TECHNICAL CAMPUS, NARHE**



**Year: 2022-23**

Prepared by:

## **ENGRESS SERVICES**

Yashashree, 26, Nirmal Bag Society

Near Mukhtangan English School, Parvati, Pune 411009

Phone: 09890444795 Email: [engress123@gmail.com](mailto:engress123@gmail.com)

## ENGRESS SERVICES

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MEDA Registration No: ECN/2022-23/CR-43/1709  
ISO: 9001-2015 Certified (Cert No: 23EQKC13),  
ISO: 14001-2015 Certified (Cert No: 23EEKW20)

## ENVIRONMENTAL AUDIT CERTIFICATE

**Certificate No: ES/JSPMNTC/22-23/02**

**Date: 14/5/2023**

This is to certify that we have conducted Environmental Audit at Jayawant Shikshan Prasarak Mandal's Narhe Technical Campus, Narhe, Pune, in the Academic year 2022-23.

The College has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Light Fitting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Maximum Usage of Day Lighting
- Installation of Roof Top Solar PV Plant of Capacity 10 kWp.
- Segregation of Waste at source
- Installation of Sewage Treatment Plant
- Rain Water Management Project
- Tree Plantation in the campus
- Creation of awareness about 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

## REGISTRATION CERTIFICATES

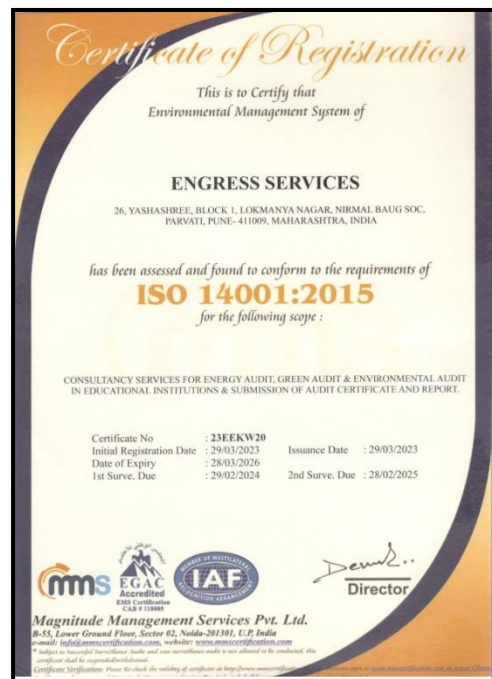


MEDA REGISTRATION CERTIFICATE

ASSOCHAM GEM CP CERTIFICATE



ISO: 9001-2015 CERTIFICATE



ISO: 14001-2015 CERTIFICATE

## **INDEX**

<b>Sr. No</b>	<b>Particulars</b>	<b>Page No</b>
I	Acknowledgement	5
II	Executive Summary	6
III	Abbreviations	8
1	Introduction	9
2	Study of Resource Consumption & CO <sub>2</sub> Emission	11
3	Study of Usage of Renewable Energy	13
4	Study of Indoor Air Quality	14
5	Study of Indoor Comfort Condition Parameters	15
6	Study of Waste Management	16
7	Study of Rain water Management	17
8	Study of Eco Friendly Initiatives	18
	<b>Annexure</b>	
I	Indoor Air Quality, Noise, & Indoor Comfort Standards	19

## **ACKNOWLEDGEMENT**

We Engress Services, Pune, express our sincere gratitude to the management of Jayawant Shikshan Prasarak Mandal's Narhe Technical Campus, Narhe, Pune for awarding us the assignment of Environmental Audit of their Campus for the Academic Year: 2022-23.

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

## EXECUTIVE SUMMARY

1. Jayawant Shikshan Prasarak Mandal's Narhe Technical Campus, Narhe, Pune consumes Energy in the form of **Electrical Energy**; used for various gadgets, office & other facilities

### 2. Pollution due to Institute Activities:

- **Air pollution:** Mainly CO<sub>2</sub> on account of Electricity Consumption
- **Solid Waste:** Bio degradable Garden Waste, Paper & Plastic Waste
- **Liquid Waste:** Human liquid waste

### 3. Present Energy Consumption & CO<sub>2</sub> Emission:

No	Particulars	Value	Unit
1	Annual Energy Purchased	130220	kWh
2	Annual CO <sub>2</sub> Emissions	117.20	MT

### 4. Renewable Energy & Reduction in CO<sub>2</sub> Emissions:

- The Institute has installed Roof Top Solar PV Plant of Capacity **10 kWp**.
- The Energy generated by Solar PV Plant in 22-23 is **12000 kWh**.
- Reduction in CO<sub>2</sub> Emissions in 22-23 is **10.8 MT**

### 5. Indoor Air Quality Parameters:

No	Parameter/Value	AQI	PM-2.5	PM-10
1	Maximum	64	37	46
2	Minimum	55	34	38

### 6. Indoor Comfort Conditions:

No	Parameter/Value	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Maximum	27.2	71	136	45
2	Minimum	26.9	69	105	41

### 7. Waste Management:

No	Head	Particulars
1	Solid Waste	Segregation of Waste at source
2	Liquid Waste	Installed Sewage Treatment Plant
3	E Waste	Recommended dispose of through Authorized Agency

## 8. Rain Water Management

The College has installed the Rainwater Management project; the rain water falling on the terrace is collected in a Water Storage Tank and then used further for domestic purpose, after treatment.

## 9. Environment Friendly Initiatives:

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

## 10. Assumptions:

1. **1 kWh** of Electrical Energy releases **0.9 Kg of CO<sub>2</sub>** into atmosphere
2. Energy generated by Roof Top Solar PV Plant: **4 kWh/kWp per Day**
3. Annual Solar Energy generation Days: **300 Nos**

## 11. References:

- For CO<sub>2</sub> Emissions: [www.tatapower.com](http://www.tatapower.com)
- For Solar PV Energy generation: [www.solarrooftop.gov.in](http://www.solarrooftop.gov.in)
- For Various Indoor Air Parameters: [www.ishrae.com](http://www.ishrae.com)
- For AQI Quality Standards: [www.cpcb.com](http://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

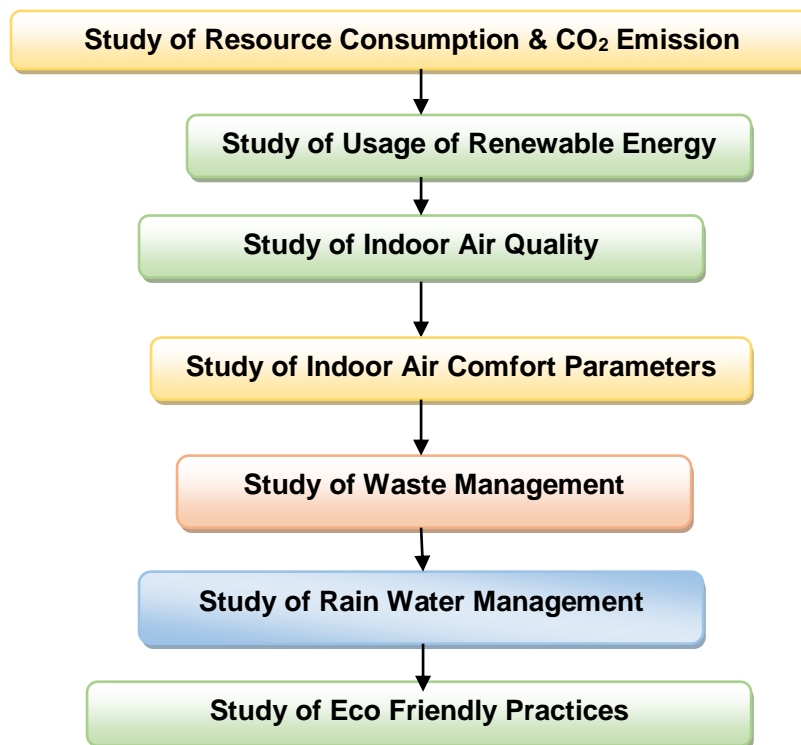
#### 1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are compiled with and adequate care has been taken towards environmental protection and preservation

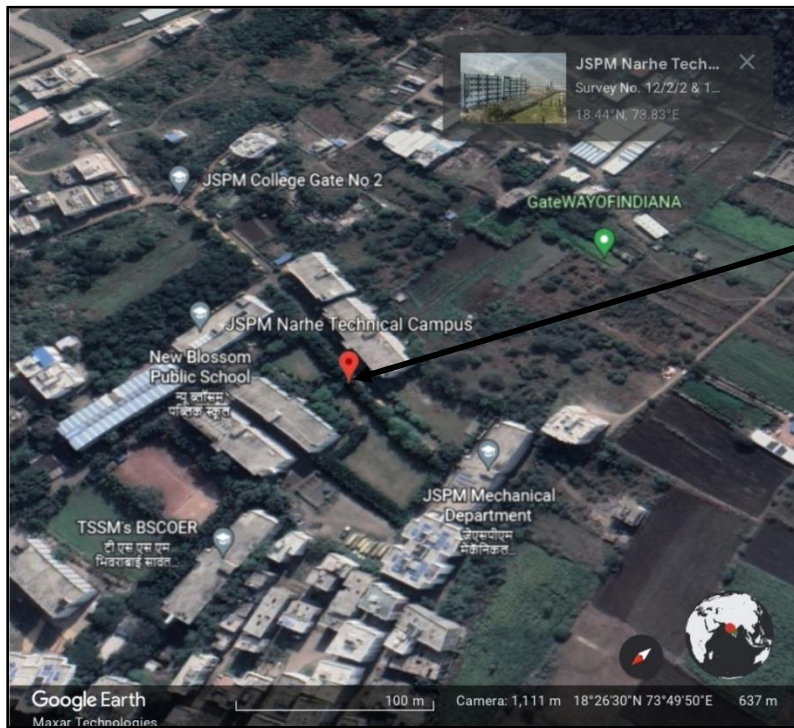
*According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment"*

**1.3. Environmental Pollutant:** means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

#### 1.4 Audit Procedural Steps:



### 1.5 Google Earth Image:



**Institute  
Campus**

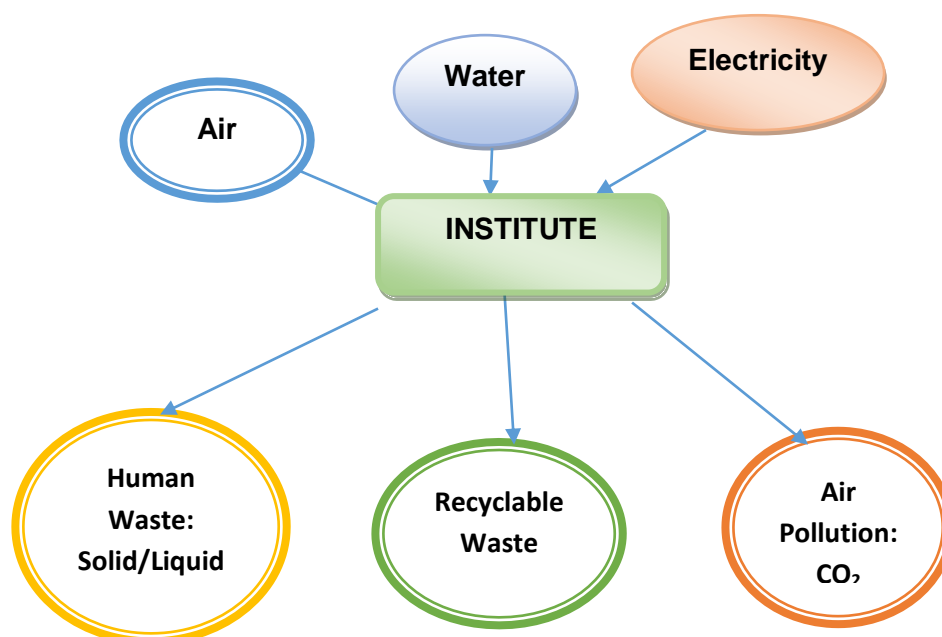
## CHAPTER-II STUDY OF RESOURCE CONSUMPTION & CO<sub>2</sub> EMISSION

The Institute consumes following basic/derived Resources:

1. Air
2. Water
3. Electrical Energy

We try to draw a schematic diagram for the Institute System & Environment as under.

**Chart No 1: Representation of Institute as System & Study of Resources & Waste**



Now we compute the Generation of CO<sub>2</sub> on account of consumption of Electrical Energy. The basis of Calculation for CO<sub>2</sub> emissions due to Electrical Energy is as under.

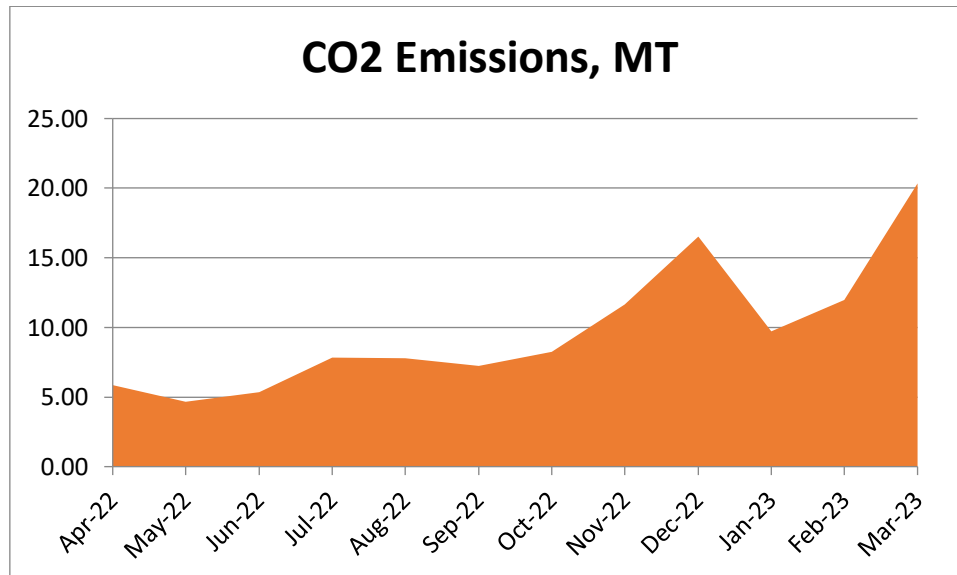
- **1 kWh** of Electrical Energy releases **0.9 Kg of CO<sub>2</sub>** into atmosphere

**Table No 1: Study of Purchase of Energy & CO<sub>2</sub> Emissions: 22-23:**

No	Month	Energy Purchased, kWh	CO <sub>2</sub> Emissions, MT
1	Apr-22	6493	5.84
2	May-22	5180	4.66
3	Jun-22	5948	5.35
4	Jul-22	8678	7.81
5	Aug-22	8641	7.78

6	Sep-22	8060	7.25
7	Oct-22	9146	8.23
8	Nov-22	12963	11.67
9	Dec-22	18382	16.54
10	Jan-23	10812	9.73
11	Feb-23	13317	11.99
12	Mar-23	22601	20.34
13	Total	130220	117.20
14	Maximum	22601	20.34
15	Minimum	5180	4.66
16	Average	10852	9.77

**Chart No 2: Month wise CO<sub>2</sub> Emissions:**



### CHAPTER III STUDY OF USAGE OF RENEWABLE ENERGY

The College has installed Roof Top Solar PV Plant of Capacity **10 kWp**.

In the following Table, we compute the Annual Reduction in CO<sub>2</sub> Emissions due to installation of Roof TOP Solar PV Plant.

**Table No 6: Computation of Annual Reduction in CO<sub>2</sub> Emissions:**

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 22-23	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	<b>Qty of CO<sub>2</sub> Saved by Solar PV Plant = (4)*(5) /1000</b>	<b>10.8</b>	MT of CO <sub>2</sub>

**Photograph of Roof Top Solar PV Plant:**



## CHAPTER IV STUDY OF INDOOR AIR QUALITY

### 4.1 Importance of Air Quality:

**Air:** The common name given to the atmospheric gases used in breathing and photosynthesis.

By volume, Dry Air contains 78.09% Nitrogen, 20.95% Oxygen, 0.93% Argon, 0.039% carbon dioxide, and small amounts of other gases.

On average, a person inhales about **14,000 liters** of air every day. Therefore, poor air quality may affect the quality of life now and for future generations by affecting the health, the environment, the economy and the city's livability.

**Air quality is a measure of the suitability of air for breathing by people, plants and animals.**

### 4.2 Air Quality Index:

An **Air Quality Index (AQI)** is a number used by government agencies to measure the **air pollution** levels and communicate it to the population. As the AQI increases, it means that a large percentage of the population will experience severe adverse health effects.

We present herewith following important Parameters.

1. AQI- Air Quality Index
2. PM-2.5- Particulate Matter of Size 2.5 micron
3. PM-10- Particulate Matter of Size 10 micron

**Table No 4: Indoor Air Quality Parameters:**

No	Location	AQI	PM-2.5	PM-10
1	Office	61	37	44
2	Staffroom	60	36	38
3	Lab	64	37	46
4	Classroom	60	34	39
5	HOD Cabin	55	34	38
	Maximum	<b>64</b>	<b>37</b>	<b>46</b>
	Minimum	<b>55</b>	<b>34</b>	<b>38</b>

## **CHAPTER V STUDY OF INDOOR COMFORT CONDITION PARAMETERS**

In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit.

The Parameters include:

1. Temperature
2. Humidity
3. Lux Level
4. Noise Level.

**Table No 5: Study of Indoor Comfort Condition Parameters:**

<b>No</b>	<b>Location</b>	<b>Temperature, °C</b>	<b>Humidity, %</b>	<b>Lux Level</b>	<b>Noise Level, dB</b>
1	Office	27.1	70	114	45
2	Staffroom	26.9	69	105	42
3	Lab	27.1	69	112	43.6
4	Classroom	27.1	71	126	44
5	HOD Cabin	27.2	70	136	41
	Maximum	<b>27.2</b>	<b>71</b>	<b>136</b>	<b>45</b>
	Minimum	<b>26.9</b>	<b>69</b>	<b>105</b>	<b>41</b>



## CHAPTER VI STUDY OF WASTE MANAGEMENT

### 6.1 Segregation of Waste at Source:

The Waste is segregated at source. Waste Bins are kept at various locations.

#### Photograph of Waste Collection Bin:



### 6.2 Liquid Waste Management:

The College has installed a Sewage Treatment Plant for treatment of the sewage. The treated water is used for gardening purpose.

#### Photograph of Sewage Treatment Plant:



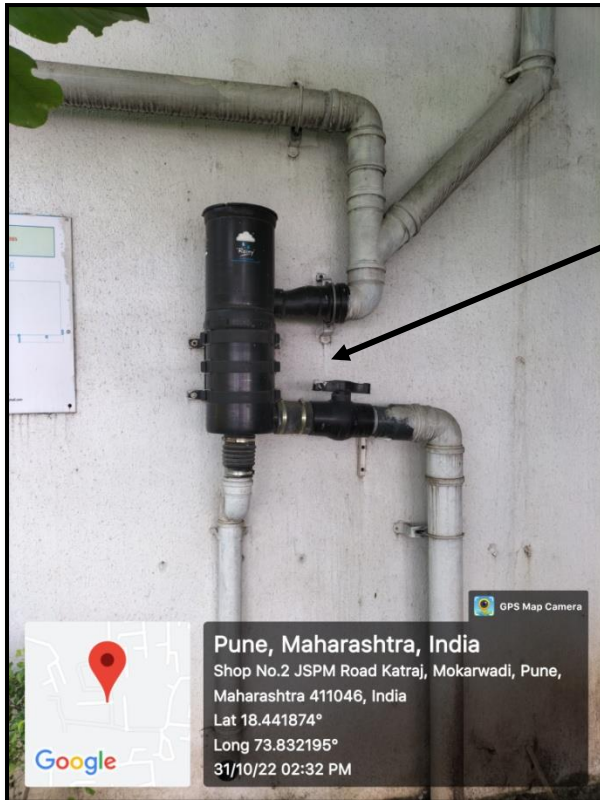
### 6.3 E Waste Management:

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

## CHAPTER-VII STUDY OF RAIN WATER MANAGEMENT

The College has installed the Rainwater Management project; the rain water falling on the terrace is collected in a Water Storage Tank and then used further for domestic purpose, after treatment.

**Photograph of Rain water Carrying Pipe:**



Rain Water Pipe  
and Sand Filter  
Unit

## CHAPTER-VIII STUDY OF ECO FRIENDLY INITIATIVES

### 8.1 Internal Tree Plantation:

The College has well maintained landscaped garden in the campus.

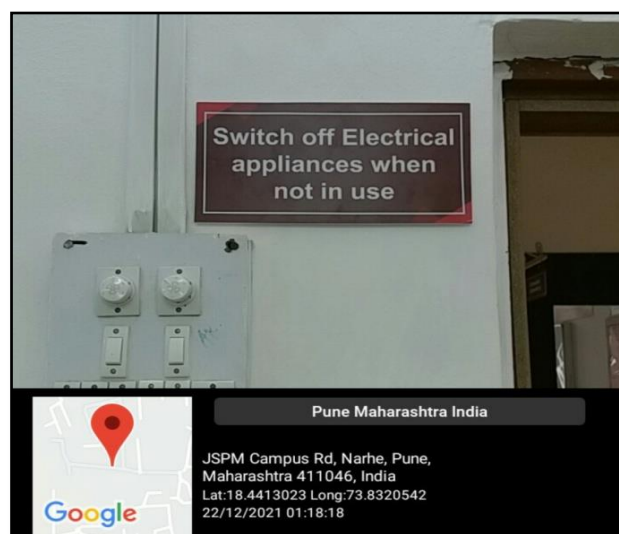
#### Photograph of Tree plantation:



### 8.2 Creation of Awareness about Energy Conservation:

The College has displayed posters emphasizing on importance of Energy Conservation.

#### Photograph of Poster on Energy Conservation:



## **ANNEXURE-I: AIR QUALITY, NOISE & INDOOR COMFORT STANDARDS:**

### **1. Category Wise Air Quality Index Values & Concentration of PM 2.5 & PM10:**

<b>No</b>	<b>Category</b>	<b>AQI Value</b>	<b>Concentration Range, PM 2.5</b>	<b>Concentration Range, PM 10</b>
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 +

### **2. Recommended Noise Level Standards:**

<b>No</b>	<b>Location</b>	<b>Noise Level dB</b>
1	Auditoriums	20-25
2	Outdoor Playground	55
3	Occupied Class Room	40-45
4	Un occupied Class Room	35
5	Apartment, Homes	35-40
6	Offices	45-50
7	Libraries	35-40
8	Restaurants	50-55

### **3. Thermal Comfort Conditions: For Non-conditioned Buildings:**

<b>No</b>	<b>Parameter</b>	<b>Value</b>
1	Temperature	Less Than 33°C
2	Humidity	Less Than 70%

# **GREEN AUDIT REPORT**

Of  
Jayawant Shikshan Prasarak Mandal's,  
**NARHE TECHNICAL CAMPUS, NARHE**



**Year: 2022-23**

Prepared by:

## **ENGRESS SERVICES**

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**Date: 14/5/2023**

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- Rain Water Management Project
- Maintenance of good Internal Road
- Tree Plantation in the campus
- Provision of Ramp for Divyangajan
- Creation of awareness about 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.

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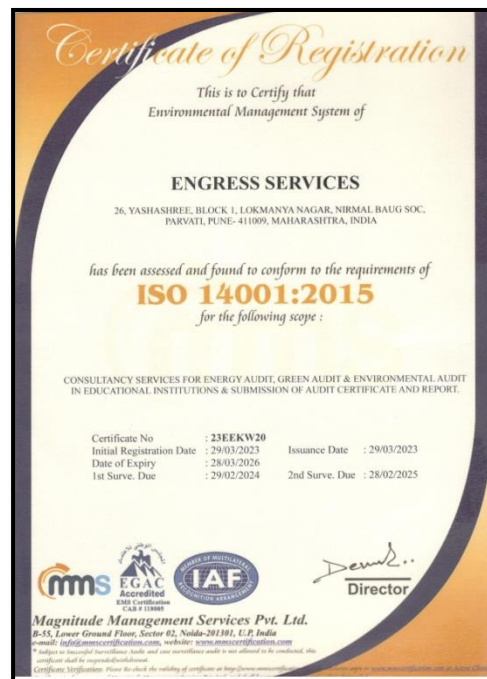


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<b>Sr. No</b>	<b>Particulars</b>	<b>Page No</b>
I	Acknowledgement	5
II	Executive Summary	6
III	Abbreviations	7
1	Introduction	8
2	Study of Energy Consumption & CO <sub>2</sub> Emission	9
3	Study of Usage of Renewable Energy	10
4	Study of Waste Management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



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No	Particulars	Value	Unit
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2	Annual CO <sub>2</sub> Emissions	<b>117.20</b>	MT

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- The Institute has installed Roof Top Solar PV Plant of Capacity **10 kWp**.
- The Energy generated by Solar PV Plant in 22-23 is **12000 kWh**.
- Reduction in CO<sub>2</sub> Emissions in 22-23 is **10.8 MT**

### 4. Waste Management:

No	Head	Particulars
1	Solid Waste	Segregation of Waste at source
2	Liquid Waste	Installed Sewage Treatment Plant
3	E Waste	Recommended to dispose of through Authorized Agency

### 5. Rain Water Management

The College has installed the Rainwater Management project; the rain water falling on the terrace is collected in a Water Storage Tank and then used further for domestic purpose, after treatment.

### 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 **0.9 Kg of CO<sub>2</sub>** into atmosphere
2. Energy generated by Roof Top Solar PV Plant: **4 kWh/kWp per Day**
3. Annual Solar Energy generation Days: **300 Nos**

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## **ABBREVIATIONS**

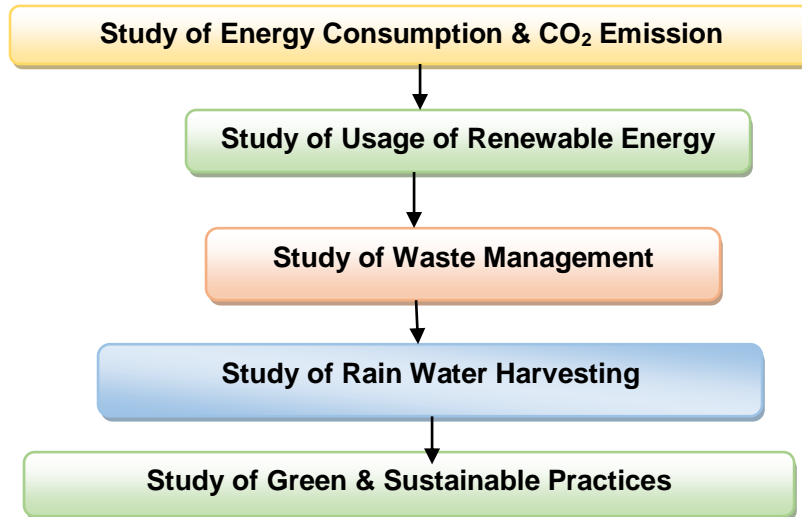
JSPM	Jayawant Shikshan Prasarak Mandal
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO <sub>2</sub>	Carbon Di Oxide
Qty	Quantity

## CHAPTER-I INTRODUCTION

### 1.1 Introduction:

A Green Audit is conducted at Jayawant Shikshan Prasarak Mandal's Narhe Technical Campus, Narhe, Pune

### 1.2 Audit Procedural Steps:



### 1.3 Institute Location Image:



## CHAPTER-II

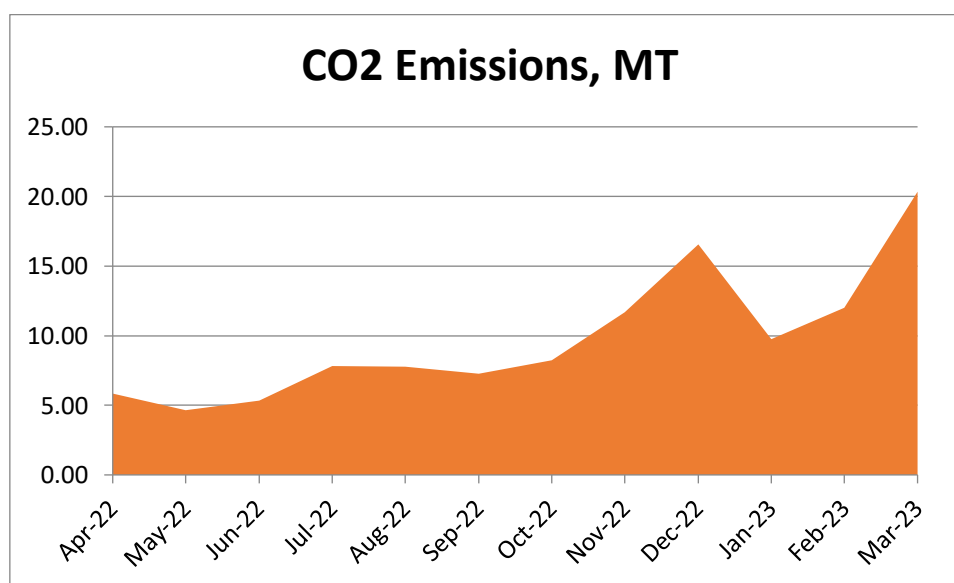
### STUDY OF ENERGY CONSUMPTION & CO<sub>2</sub> EMISSION

A **Carbon Foot print** is defined as the Total Greenhouse Gas emissions, emitted due to various activities. **Basis for computation of CO<sub>2</sub> Emissions: 1 kWh of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere.**

**Table No 1: Month wise Energy Consumption & CO<sub>2</sub> Emissions:**

No	Month	Energy Purchased, kWh	CO <sub>2</sub> Emissions, MT
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**Chart No 1: Month wise CO<sub>2</sub>Emissions:**



### CHAPTER III STUDY OF USAGE OF RENEWABLE ENERGY

The College has installed Roof Top Solar PV Plant of Capacity **10 kWp**.

In the following Table, we compute the Annual Reduction in CO<sub>2</sub> Emissions due to installation of Roof Top Solar PV Plant.

**Table No 2: Computation of Annual Reduction in CO<sub>2</sub> Emissions:**

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5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	<b>Qty of CO<sub>2</sub> Saved by Solar PV Plant = (4)*(5) /1000</b>	<b>10.8</b>	MT of CO <sub>2</sub>

**Photograph of Roof Top Solar PV Plant:**



## CHAPTER IV STUDY OF WASTE MANAGEMENT

### 4.1 Segregation of Waste at Source:

The Waste is segregated at source. Waste Bins are kept at various locations.

#### Photograph of Waste Collection Bin:



### 4.2 Liquid Waste Management:

The College has installed a Sewage Treatment Plant for treatment of the sewage. The treated water is used for gardening purpose.

#### Photograph of Sewage Treatment Plant:



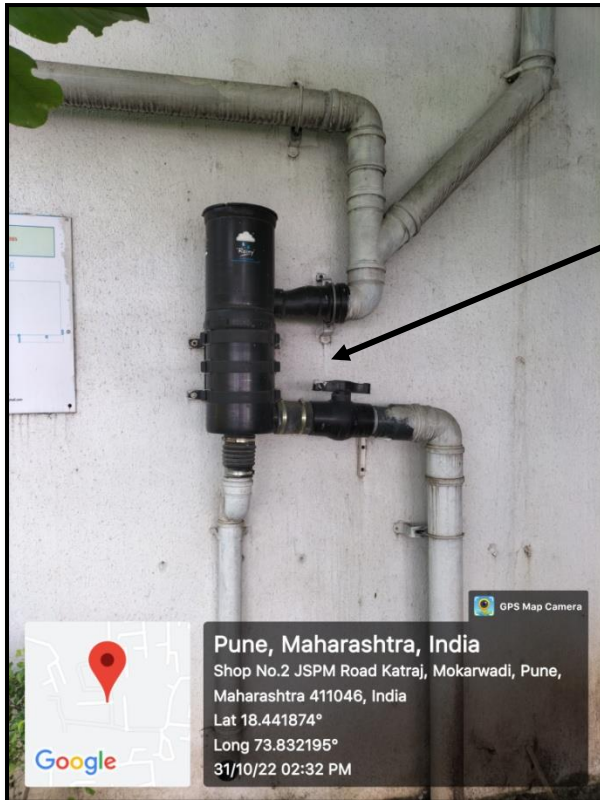
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The College has installed the Rainwater Management project; the rain water falling on the terrace is collected in a Water Storage Tank and then used further for domestic purpose, after treatment.

**Photograph of Rain water Carrying Pipe:**



Rain Water Pipe  
and Sand Filter  
Unit



## CHAPTER-VI

### STUDY OF GREEN & SUSTAINABLE PRACTICES

#### 6.1 Pedestrian Friendly Road:

The College has well maintained internal road to facilitate the easy movement of the students within the campus.

#### Photograph of Internal Road:



#### 6.2 Internal Tree Plantation:

The College has well maintained landscaped garden in the campus.

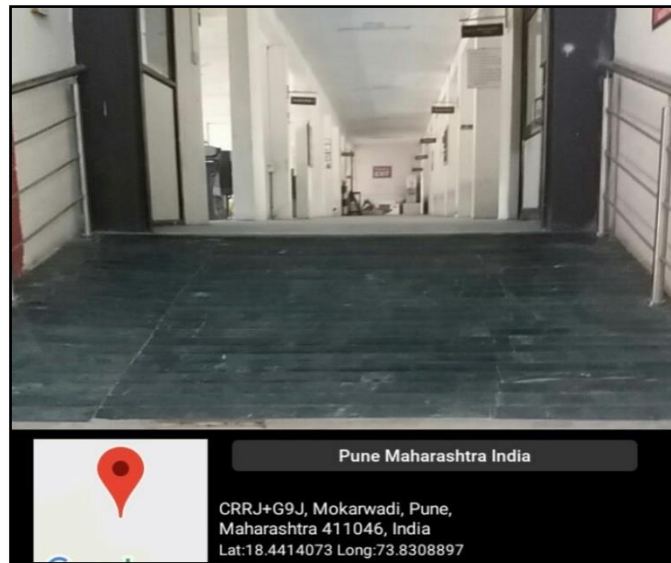
#### Photograph of Lawn and Tree plantation:



### 6.3 Provision of Ramp:

For easy movement of Divyangajan, the College has made provision of Ramp.

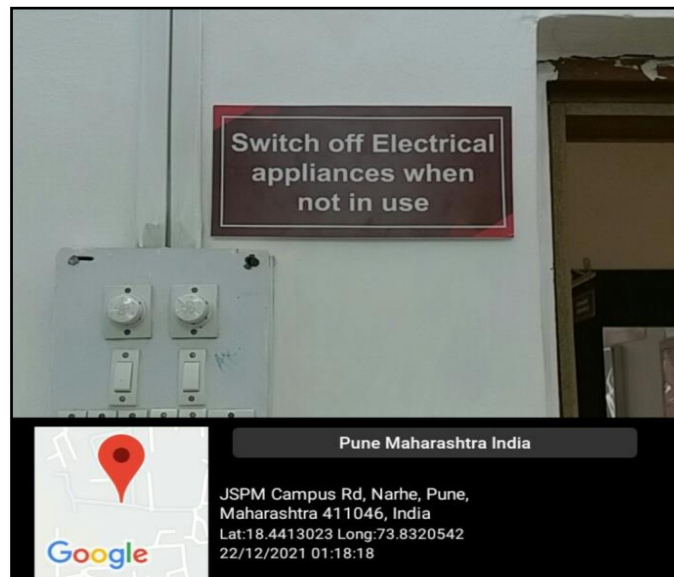
#### Photograph of Ramp:



### 6.4 Creation of Awareness about Energy Conservation:

The College has displayed posters emphasizing on importance of Energy Conservation.

#### Photograph of Poster on Energy Conservation:



**ANNEXURE-1:**  
**LIST OF TREES:**

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	<b>Total</b>	<b>162</b>