



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

Address: - Sr. No. 27/A/1/2C, Near Talegaon Railway Station, Towards HP Service Station, Varale, Talegaon, Pune, Maharashtra 410507. **Website:** dypatilef.com. dypatilimed.com **E- mail-** director.dypimed@dypatilef.com

**Dr. D. Y. Patil**

Founder Dr. D Y Patil Group

**Dr. Sushant Patil**

President

**Dr. Priyanka A. Singh**

Director

## **CRITERION VII**

### **Institutional Values and Social Responsibilities**

#### **7.1.3 QnM**

**Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following**

- 1.Green audit / Environment audit**
- 2.Energy audit**
- 3.Clean and green campus initiatives**
- 4.Beyond the campus environmental promotion and sustainability activities**

<b>Sr.No.</b>	<b>Content</b>
<b>1</b>	<b>Policy document on environment and energy usage Certificate from the auditing agency</b>
<b>2</b>	<b>Certificates of the awards received from recognized agency</b>
<b>3</b>	<b>Report on environmental promotion and sustainability activities conducted beyond the campus with geo-tagged photographs with caption and date.</b>
<b>4</b>	<b>Green audit/environmental audit report from recognized bodies</b>



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<b>Sr.No.</b>	<b>Content</b>
<b>1.</b>	<b>Policy document on environment and energy usage Certificate from the auditing agency</b>
<b>2</b>	<b>Energy Audit Reports</b>



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Maharashtra 410507. Website: dypatilef.com. dypatilimed.com E- mail- director.dypimed@dypatilef.com

## Environmental and Energy Usage Policy

Dr. D. Y. Patil Institute of Management and Entrepreneur Development (DYPIMED) is located in a green and pollution free environment. The Institute is committed to promoting sustainable practices and environmental stewardship. We are aware that we need to manage energy in a systematic way so as to minimize the impact on the environment. We work on the theme as saving energy is equal to creating energy.

This policy document outlines our commitment to environmental and energy sustainability and provides guidelines and expectations for all stakeholders within the Institute.

### Objectives

1. Conduct quality audits on Green audit / Environment audit and Energy audit every year to improve sustainability and make continuous improvement.
2. Promote green and clean sources of energy to reduce power consumption.
3. Design a building in such a way that it creates environmentally sensitive designs i.e. it is ventilated and natural light will be present there.
4. Use Solar water heater in the hostel
5. Create a clean and green campus by taking various initiatives like sewage treatment, waste management and tree plantation.
6. Use recycled water for gardening in the campus
7. Use high star power efficient devices, LED bulbs/ Tube lights /Monitor in the institute to save energy.
8. Reduce air pollution in the institute by restricting entry of vehicles in the campus by parking vehicles in exclusive parking zone and provided pedestrian friendly pathway
9. Conduct awareness activities for environmental issues.
10. Conduct the Tree plantation drive in the campus and outside the campus regularly.
11. Minimize the paper consumption by using advanced technology for communication among the stakeholders. e.g. Online fee collection through ERP, Notices to students through WhatsApp Group, Google Classroom, Email along with this one side rough paper are used for the printing to save paper.



DIRECTOR

DR.D.Y.P.I.M.E.D.

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12. Minimize the use of plastic and ban on single use plastic in the campus as per rules of government of Maharashtra.
13. Provide training to students, Staff and Faculty member to initiate wise use of resources and environment protection

This policy will be communicated to all stakeholders, and compliance will be monitored and enforced to achieve our sustainability objectives.

Date of Approval:13/01/2020



  
Director  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

# ENERGY AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507



Year: 2022-23

Prepared by

## ENGRESS SERVICES

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



*Rajesh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
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## ENGRESS SERVICES

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

## ENERGY AUDIT CERTIFICATE

Certificate No: ES/DYPIMED/22-23/01

Date: 10/7/2023

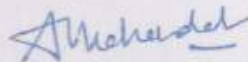
This is to certify that we have conducted Energy Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2022-23.

The Institute has adopted following Energy Efficient Practices:

- Maximum Usage of Day Lighting
- Usage of Energy efficient LED lighting
- Solar PV Based Street Light Fittings

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

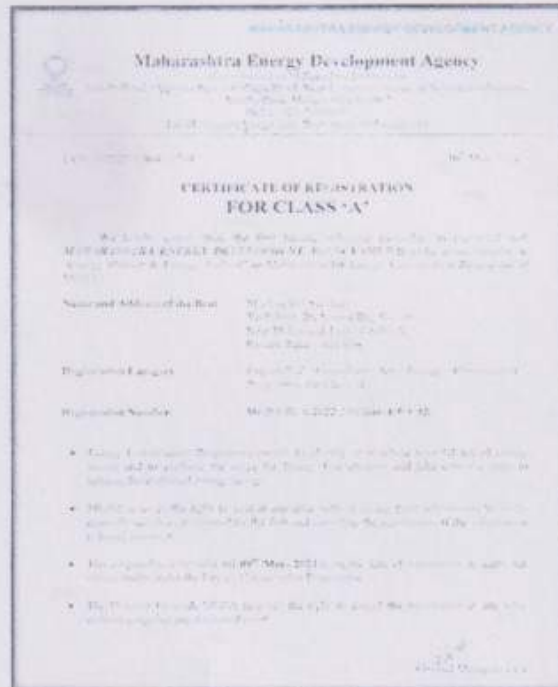


  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

**REGISTRATION CERTIFICATES**



**AUDITOR CERTIFICATE**



**MEDA Registration Certificate**



**ISO: 9001-2015 Certificate**



**ISO: 14001-2015 Certificate**



*D. Y. Patil*  
 DIRECTOR  
 DR.D.Y.P.I.M.E.D.  
 Varale, Maval, Pune 410 507



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## ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, for awarding us the assignment of Energy Audit of their campus for the Year: 22-23.

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



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## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of Electrical Energy; used for equipment.

### 2. Present Connected Load & Energy Consumption:

No	Particulars	Value	Unit
1	Total Connected Load	56.53	kW
2	Annual Energy Purchased	50556	kWh

### 3. Energy Performance Index:

No	Particulars	Value	Unit
1	Total Annual Energy Purchased	50556	kWh
2	Total Built up area of Institute		m <sup>2</sup>
3	Energy Performance Index =(1) / (2)		kWh/m <sup>2</sup>

### 4. Study of Lighting Power Density & % Usage of LED Lighting:

No	Particulars	Value	Unit
1	Lighting Power Density		W/m <sup>2</sup>
2	% of Usage of LED Lighting to Total Lighting Load	100	%

### 5. Renewable Energy & Energy Efficiency Projects:

- Usage of Energy Efficient LED fittings
- Usage of BEE STAR Rated Equipment
- Installation of Solar Street Lights

### 6. Assumption:

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

### 7. References:

- Audit Methodology: [www.mahaurja.com](http://www.mahaurja.com)
- Energy Conservation Building Code: ECBC-2017: [www.beeindia.gov.in](http://www.beeindia.gov.in)
- For CO<sub>2</sub> Emissions: [www.tatapower.com](http://www.tatapower.com)



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## ABBREVIATIONS

BEE	: Bureau of Energy Efficiency
FTL	: Fluorescent Tube Light
LED	: Light Emitting Diode
kWh	: kilo-Watt Hour
Qty	: Quantity
W	: Watt
kW	: Kilo Watt
PC	: Personal Computer
MT	: Metric Ton
MSEDCL	: Maharashtra State Electricity Distribution Company Limited



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## CHAPTER-I INTRODUCTION

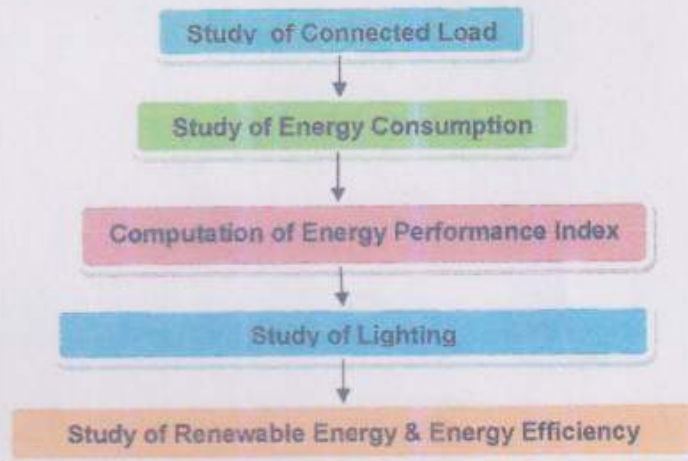
### 1.1 Introduction:

An Energy Audit is conducted at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon

The guidelines followed for conducting the Energy Audit are:

- BEE India's Energy Conservation Building Code: ECBC-2017
- Maharashtra Energy Development Agency ([www.mahaurja.com](http://www.mahaurja.com))
- Tata Power: [www.tatapower.com](http://www.tatapower.com)

### 1.2 Audit Procedural Steps:



### 1.3 Google Earth Image:



College  
Campus

*High*  
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Varale, Maval, Pune 410 507

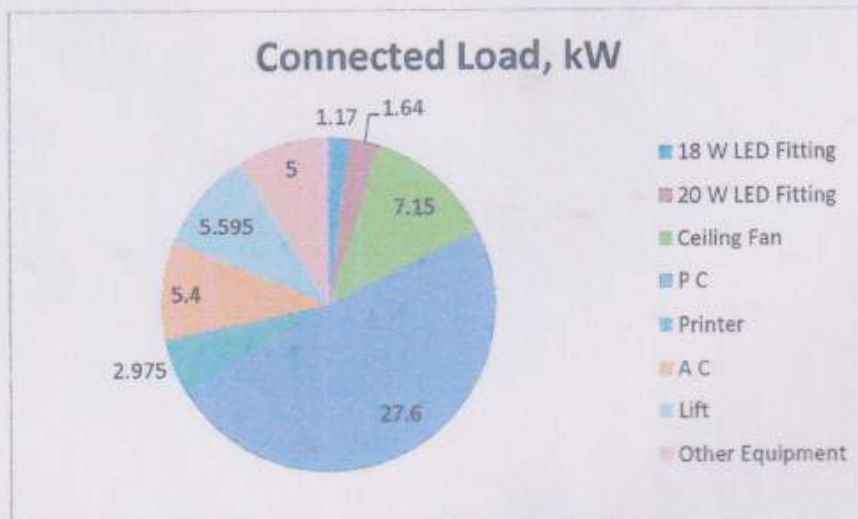
## CHAPTER-II STUDY OF CONNECTED LOAD

In this chapter, we present the details of various Electrical loads as under

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/unit	Load, kW
1	18 W LED Fitting	65	18	1.17
2	20 W LED Fitting	82	20	1.64
3	Ceiling Fan	110	65	7.15
4	P C	184	150	27.6
5	Printer	17	175	2.975
6	A C	3	1800	5.4
7	Lift	1	5595	5.595
8	Other Equipment	20	250	5
9	<b>Total</b>			<b>56.53</b>

Chart No 1: Details of Connected Load:



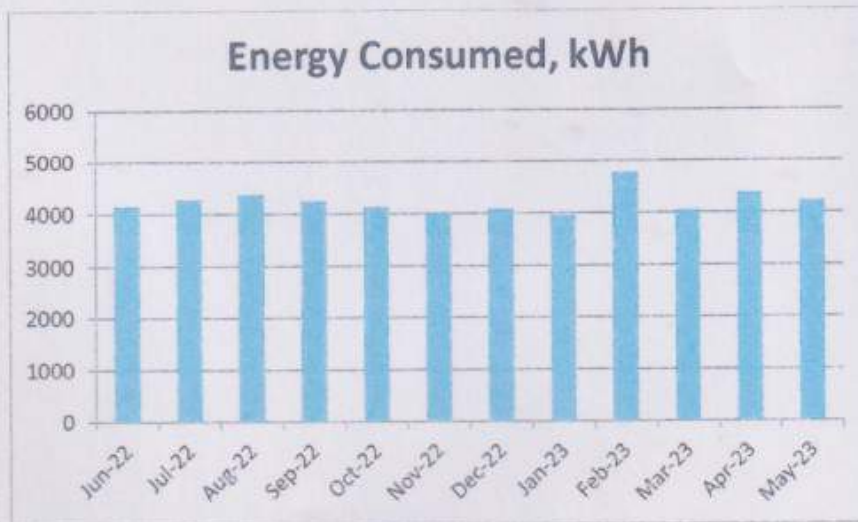
### CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

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

Table No 2: Electrical Energy Consumption Analysis- 2022-23:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-22	4136	3.72
2	Jul-22	4269	3.84
3	Aug-22	4369	3.93
4	Sep-22	4238	3.81
5	Oct-22	4119	3.71
6	Nov-22	3998	3.60
7	Dec-22	4069	3.66
8	Jan-23	3969	3.57
9	Feb-23	4769	4.29
10	Mar-23	4036	3.63
11	Apr-23	4369	3.93
12	May-23	4215	3.79
13	Total	50556	45.50
14	Maximum	4769	4.29
15	Minimum	3969	3.57
16	Average	4213	3.79

Chart No 2: Variation in Monthly Energy Purchased, kWh:



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## CHAPTER-IV STUDY OF ENERGY PERFORMANCE INDEX

**Energy Performance Index:** Energy Performance Index of a Building is its Annual Energy Consumption in Kilo Watt Hours per square meter of the Building

It is determined by:

$$\text{EPI} = \frac{\text{(Annual Energy Consumption in kWh)}}{\text{(Total Built-up area in m}^2\text{)}}$$

Now we compute the EPI for the Institute as under:

Table No 3: Computation of Energy Performance Index:

No	Particulars	Value	Unit
1	Total Annual Energy Purchased	50556	kWh
2	Total Built up area of Institute		m <sup>2</sup>
3	Energy Performance Index =(1) / (2)		kWh/m <sup>2</sup>



## 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.
2. **Lux** is the metric unit of measure for illuminance of a surface. One lux is equal to one lumen per square meter.
3. **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 ( $\text{lux/W/m}^2$ )
5. **Lamp Circuit Efficacy** is the amount of light (lumens) emitted by a lamp for each watt of power consumed by the lamp circuit, i.e. including control gear losses. This is a more meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt ( $\text{lm/W}$ )
6. **Installed Power Density.** The installed power density per 100 lux is the power needed per square metre of floor area to achieve 100 lux of average maintained illuminance on a horizontal working plane with general lighting of an interior. Unit: watts per square metre per 100 lux ( $\text{W/m}^2/100 \text{ lux}$ ) 100 Installed power density ( $\text{W/m}^2/100 \text{ lux}$ )
7. **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 Lighting Power Density of Class Room and 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: Computation of Lighting Power Density: Class Room:**

No	Particulars	Value	Unit
1	Qty of 40 W Fittings in Class Room: A-313	6	Nos
2	Load of 40 W Fitting	40	W/unit
3	Total Load of 6 Nos, 40 W Fittings	240	W
4	Built up area of Class Room: GF-07	66	$\text{m}^2$
5	Lighting Power Density = (3)/(4)	3.64	$\text{W/m}^2$



Table No 5: Percentage Usage of LED Lighting to Total Lighting Load:

No	Particulars	Value	Unit
1	Qty of 18 W LED Fittings	65	Nos
2	Load per unit of 18 W LED Fitting	18	W
3	Total Load of 18 W LED Fittings	1.17	kW
4	Qty of 20 W LED Fittings	82	Nos
5	Load per unit of 20 W LED Fitting	20	W
6	Total Load of 20 W LED Fittings	1.64	kW
7	Total LED Lighting Load =3+6	2.81	kW
8	Total Lighting Load =3+6	2.81	kW
9	% of LED to Total Lighting Load= $7*100/8$	100	%



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## CHAPTER-VI STUDY OF RENEWABLE ENERGY & ENERGY EFFICIENCY

### 6.1 Usage of Renewable Energy:

The Institute has installed Solar PV based Street Light Fittings  
Photograph of Solar PV based Solar Street Light Fittings:



### 6.2 Energy Efficiency Measures adopted:

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

Photographs of STAR Rated AC & LED Lighting:



# ENERGY AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507



Year: 2021-22

Prepared by

## ENGRESS SERVICES

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Near Muktangan English School, Parvati, Pune 411009  
Phone: 09890444795 Email: [engress15@gmail.com](mailto:engress15@gmail.com)



  
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DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

**REGISTRATION CERTIFICATES**

Regn. No. ZA-4132 No. 2342

  
**National Productivity Council**  
 (National Certifying Agency)  
**PROVISIONAL CERTIFICATE**

Certificate No. 130 **Achyt Yashvant Mahendale**  
 in Recognition of Mr. **Yashvant**

This person has been awarded the National Certification Commission for Energy Auditors in April, 2017, and is eligible to carry out the Ministry of Energy Efficiency, Ministry of Power, Government of India.

He/She is registered as Certified Energy Manager and as Certified Energy Auditor.

He/She shall be entitled to practice as Energy Auditor under the Energy Conservation Act 2001, subject to the fulfilment of requirements for the Certified Energy Auditor and issue of certificate of Accreditation by the Bureau of Energy Efficiency under the act.

This certificate is valid till the issuance of an official certificate by the Bureau of Energy Efficiency.

Place: Chennai, India   
Director of Examinations

Date: 22<sup>nd</sup> August 2017

**BEE AUDITOR CERTIFICATE**

MAHARASHTRA ENERGY DEVELOPMENT AGENCY

**Maharashtra Energy Development Agency**  
 Maharashtra Government  
 South Block, Opposite Spina Centre, Near Court Complex, Sector 10, Kharadi,  
 South Pune, Maharashtra 411067  
 Ph: No. 020-2644124  
 Email: maheda@maheda.gov.in, Web: maheda.gov.in

REG. NO. 222718451704 10<sup>th</sup> May, 2012

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

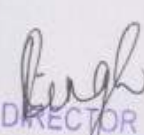
We hereby certify that the firm having following particulars is registered as a **MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA)** under class category 'A' - "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.

**Name and Address of the firm :** Enegress Services  
 Yashwantrao Chavan Marg, Shivajinagar,  
 Near Maharashtra Sahakar School,  
 Pune-411004

**Registration Category :** Registered Consultant for Energy Conservation Programme for Class 'A'

**Registration Number :** MEDA/XXXX/2012/27 Class 'A' 4-32

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take necessary steps to reduce the wasteful energy savings.
- MEDA reserves the right to visit at any time without giving prior notification to verify quantity and scope performed by the firm and cancelling the registration, if the information is found incorrect.
- This certificate is valid till **10<sup>th</sup> May, 2024** from the date of registration to carry out work under the Energy Conservation Programme.
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reason therefor.

  
**DIRECTOR**  
**DR. D. Y. P. (M.E.D.)**  
 Varale, Maval, Pune 410 507

**MEDA REGIATRATION CERTIFICATE**



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Near Muktangan English School, Parvati, Pune 411 009  
Tel: 020-24220747 Email: [engress123@gmail.com](mailto:engress123@gmail.com)

Ref: ES/ DYPIMED/21-22/01

Date: 20/6/2022

### CERTIFICATE

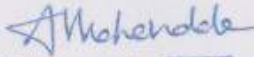
This is to certify that we have conducted Energy Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2021-22.

The Institute has adopted following Energy Efficient Practices:

- > Maximum Usage of Day Lighting
- > Usage of Energy efficient LED lighting

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



  
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Varale, Maval, Pune 410 507

## INDEX

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## ACKNOWLEDGEMENT

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



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## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of Electrical Energy; used for equipment.

### 2. Energy Consumed & CO<sub>2</sub> Emission:

No	Parameter	Energy Consumed, kWh	CO <sub>2</sub> emissions, MT
1	Total	46825	42.14
2	Maximum	4396	3.96
3	Minimum	3005	2.70
4	Average	3902.08	3.51

### 3. Various Measures Adopted for Energy Conservation:

- Maximum Usage of Day Lighting
- Usage of Energy Efficient LED lighting

### 4. Usage of Alternate Energy Source:

- The Institute has yet to install Roof Top Solar PV Plant.

### 5. Usage of LED Lighting:

- The LED Lighting Load of the Institute is **2.752 kW**.
- The Total Lighting Load of the Institute is **2.752 kW**
- The percentage of usage of LEDs to total Lighting Load is **100 %**.

### 6. Assumptions:

- The Energy Consumption is computed on Electrical Load Utilization factor
- **1 kWh** of Electrical Energy releases **0.9 Kg of CO<sub>2</sub>** into atmosphere

### 7. Reference:

- For CO<sub>2</sub> Emission Calculations: [www.tatapower.com](http://www.tatapower.com)



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DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507





## ABBREVIATIONS

BEE	:	Bureau of Energy Efficiency
FTL	:	Fluorescent Tube Light
LED	:	Light Emitting Diode
kWh	:	kilo-Watt Hour
Qty	:	Quantity
W	:	Watt
KW	:	Kilo Watt
PC	:	Personal Computer
MT	:	Metric Ton
MSEDCL	:	Maharashtra State Electricity Distribution Company Limited



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## CHAPTER-I INTRODUCTION

### 1.1 Objectives:

1. To study Connected Load
2. To study Present Energy Consumption
3. To study CO<sub>2</sub> emissions
4. To study Scope usage of Alternate / Renewable Energy
5. To study usage of LED Lighting

### 1.2 Table No-1: General Details of Institute:

No	Head	Particulars
1	Name	Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development
2	Address	Varale, Talegaon, Pune 410 507
3	Affiliation	Savitribai Phule Pune University

### 1.3 Google Earth Image:



Institute  
Campus



*Singh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



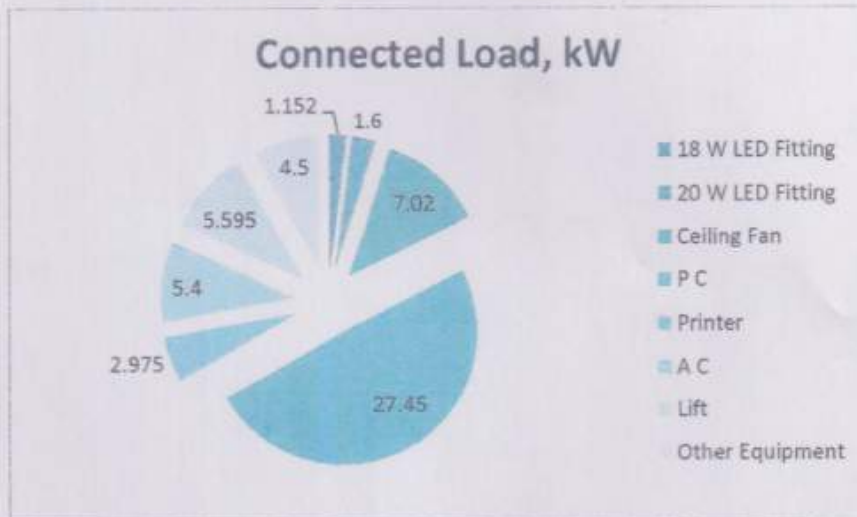
## CHAPTER-II STUDY OF CONNECTED LOAD

In this chapter, we present the details of various Electrical loads as under

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/unit	Load, kW
1	18 W LED Fitting	64	18	1.152
2	20 W LED Fitting	80	20	1.6
3	Ceiling Fan	108	65	7.02
4	P C	183	150	27.45
5	Printer	17	175	2.975
6	A C	3	1800	5.4
7	Lift	1	5595	5.595
8	Other Equipment	18	250	4.5
9	<b>Total</b>			<b>55.69</b>

Chart No 1: Details of Connected Load:



*Bhargava*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval, Pune 410 507

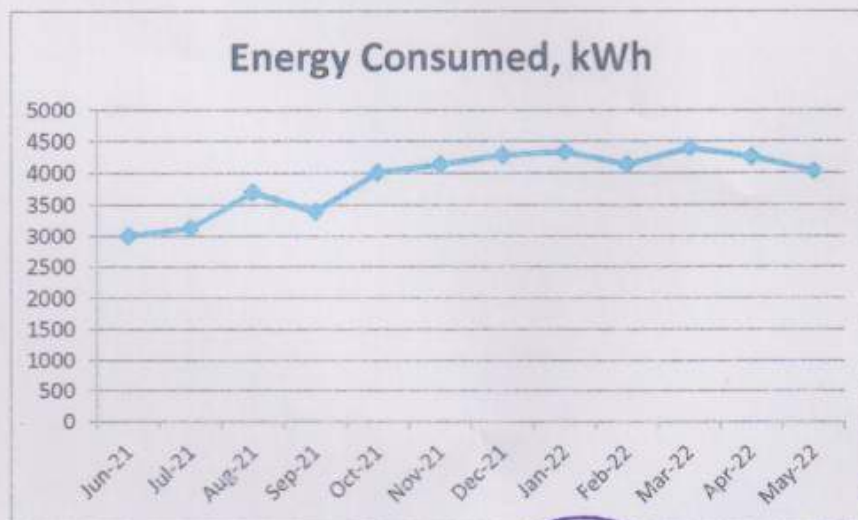


### CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Energy Consumed  
Table No 3: Electrical Energy Analysis: 21-22:

No	Month	Energy Consumed, kWh
1	Jun-21	3005
2	Jul-21	3136
3	Aug-21	3698
4	Sep-21	3397
5	Oct-21	4006
6	Nov-21	4136
7	Dec-21	4285
8	Jan-22	4336
9	Feb-22	4136
10	Mar-22	4396
11	Apr-22	4258
12	May-22	4036
13	Total	46825
14	Maximum	4396
15	Minimum	3005
16	Average	3902.08

Chart No 2: To study the variation of Month wise Energy Consumed, kWh:



*Signature*

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DR.D.Y.P.I.M.E.D.

Varale, Maval, Pune 410 507



## CHAPTER-IV CARBON FOOT PRINTING

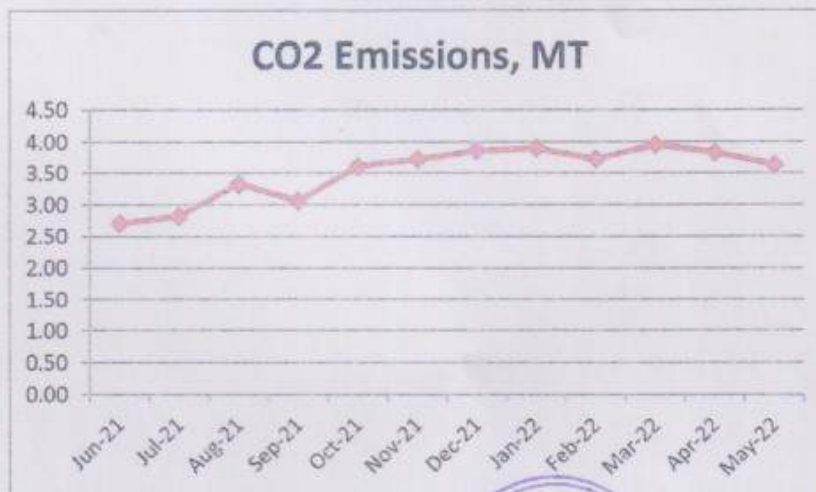
A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. **Basis for computation of CO<sub>2</sub> Emissions:**

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

Table No 4: Month wise CO<sub>2</sub> Emissions:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-21	3005	2.70
2	Jul-21	3136	2.82
3	Aug-21	3698	3.33
4	Sep-21	3397	3.06
5	Oct-21	4006	3.61
6	Nov-21	4136	3.72
7	Dec-21	4285	3.86
8	Jan-22	4336	3.90
9	Feb-22	4136	3.72
10	Mar-22	4396	3.96
11	Apr-22	4258	3.83
12	May-22	4036	3.63
13	Total	46825	42.14
14	Maximum	4396	3.96
15	Minimum	3005	2.70
16	Average	3902.08	3.51

Chart No 3: Representation of Month wise CO<sub>2</sub> Emissions:



*high*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## CHAPTER-V STUDY OF USAGE OF ALTERNATE ENERGY

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



*Bingh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## CHAPTER-VI STUDY OF USAGE OF LED LIGHTS

In this chapter, we compute the percentage of usage of LED Lighting to Total Lighting Load, as under.

Table No 5: Percentage of Usage of LED Lighting to Total Lighting Load:

No	Particulars	Value	Unit
1	Qty of 18 W LED Fittings	64	Nos
2	Load per unit of 18 W LED Fitting	18	W
3	Total Load of 18 W LED Fittings	1.152	kW
4	Qty of 20 W LED Fittings	80	Nos
5	Load per unit of 20 W LED Fitting	20	W
6	Total Load of 20 W LED Fittings	1.6	kW
7	Total LED Lighting Load =3+6	2.752	kW
8	Total Lighting Load =3+6	2.752	kW
9	% of LED to Total Lighting Load= $7 \times 100 / 8$	100	%



*high*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



# ENERGY AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507



Year: 2020-21

Prepared by

## ENRICH CONSULTANTS

Yashashree, 26, Nirmal Bag Society,  
Near Mukhtangan English School, Parvati, Pune 411009  
Phone: 09890444795 Email: [enrichconsultants@gmail.com](mailto:enrichconsultants@gmail.com)



*High*  
DIRECTOR

DR.D.Y.P.I.M.E.D.

Varale, Maval, Pune 410 507



### REGISTRATION CERTIFICATES

Regn. No. EA-0102 No. 2012

  
**National Productivity Council**  
(National Certifying Agency)  
**PROVISIONAL CERTIFICATE**

We hereby certify that **Mr. Achyut Yashavant Meshkole**  
one & sole proprietor of **Yashavant**  
has passed the National Commission Evaluation for Energy Auditors (NCEEA) 2012-2017, conducted on behalf of the  
Bureau of Energy Efficiency (BEE) under the Energy Conservation Act, 2001.

He/She is registered as Certified Energy Manager as well as Certified Energy Auditor.  
Mr./She/It is entitled to conduct energy audits under the Energy Conservation Act, 2001, subject to the  
fulfillment of qualifications for the National Energy Auditors and Energy Conservation Act, 2001, subject to the  
fulfillment of qualifications under the act.

This certificate is valid till the expiry of an official certificate by the Bureau of Energy Efficiency.

Place: Chennai, India   
Director of Evaluation

Date: 10<sup>th</sup> August 2017

### BEE ENERGY AUDITOR CERTIFICATE

**MAHARASHTRA ENERGY DEVELOPMENT AGENCY**  
GOVERNMENT OF MAHARASHTRA

**Maharashtra Energy Development Agency**  
Government of Maharashtra, Maharashtra  
A-10/1, Street, Opposite Sreevast College, Pimpri, Near Chhatrapati Shivaji Maharaj Terminal, Mumbai - 411007  
Ph No. - 22013500000  
Email: [meda@maharashtra.gov.in](mailto:meda@maharashtra.gov.in) Web: [www.meda.gov.in](http://www.meda.gov.in)

---

JEN 2021-22 (B-14) 1277 22<sup>nd</sup> April, 2021

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

We hereby certify that, the firm being following particulars is registered with  
**MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA)** under class category as  
'Energy Planner & Energy Auditor' in Maharashtra for Energy Conservation Programme of  
SEZs.

Name and Address of the firm : **M/S Enrich Consultants**  
Varale, Maval, Pune - 410 507, Maharashtra  
Near Mahalinga English School, Parnis,  
Pune - 411008.

Registration Category : **Engineered Consultant for Energy Conservation  
Programme for Class 'A'**

Registration Number : **ME210117/2021-22 Class 'A' 21-48**

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take suitable steps to achieve the intended energy savings.
- MEDA reserves the right to visit at any time without giving prior intimation to verify quality activities performed by the firm and according to registration. If the information is found incorrect.
- This agreement is valid till 21<sup>st</sup> April, 2024 from the date of registration. We accept our energy audits under the Energy Conservation Programme.
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reason therefor.

  
21<sup>st</sup> April 2021

  
**DIRECTOR**  
**DR.D.Y.P.I.M.E.D.**

Varale, Maval, Pune 410 507

### MEDA EMPANELMENT CERTIFICATE



## Enrich Consultants

Yashashree, 26, Nirmal Bag Society,  
Near Mukhtangan English School, Parvati, Pune 411 009  
Tel: 09890444795 Email: [enrichcons@gmail.com](mailto:enrichcons@gmail.com)

Ref: ES/ DYPIMED/20-21/01

Date: 29/6/2021

### CERTIFICATE

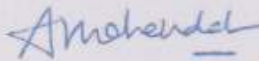
This is to certify that we have conducted Energy Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2020-21.

The Institute has adopted following Energy Efficient Practices:

- Maximum Usage of Day Lighting
- Usage of Energy efficient LED lighting

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

For Enrich Consultants,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## INDEX

Sr. No	Particulars	Page No
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2	Study of Connected Load	9
3	Study of Electrical Energy Consumption	10
4	Carbon Foot printing	11
5	Study of Usage of Alternate Energy	12
6	Study of Usage of LED Lights	13



*Bingh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## ACKNOWLEDGEMENT

We Enrich Consultants, Pune, express our sincere gratitude to the management of Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, for awarding us the assignment of Energy Audit of their campus for the Year: 20-21.

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



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of **Electrical Energy**; used for equipment.

### 2. Energy Consumed & CO<sub>2</sub> Emission:

No	Parameter	Energy Consumed, kWh	CO <sub>2</sub> emissions, MT
1	Total	22501	20.25
2	Maximum	3036	2.73
3	Minimum	406	0.37
4	Average	1875.08	1.69

### 3. Various Measures Adopted for Energy Conservation:

- Maximum Usage of Day Lighting
- Usage of Energy Efficient LED lighting

### 4. Usage of Alternate Energy Source:

- The Institute has yet to install Roof Top Solar PV Plant.

### 5. Usage of LED Lighting:

- The LED Lighting Load of the Institute is **2.752 kW**.
- The Total Lighting Load of the Institute is **2.752 kW**
- The percentage of usage of LEDs to total Lighting Load is **100 %**.

### 6. Assumptions:

- The Energy Consumption is computed on Electrical Load Utilization factor
- **1 kWh** of Electrical Energy releases **0.9 Kg of CO<sub>2</sub>** into atmosphere

### 7. Reference:

- For CO<sub>2</sub> Emission Calculations: [www.tatapower.com](http://www.tatapower.com)



  
DIRECTOR  
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## ABBREVIATIONS

BEE	:	Bureau of Energy Efficiency
FTL	:	Fluorescent Tube Light
LED	:	Light Emitting Diode
kWh	:	kilo-Watt Hour
Qty	:	Quantity
W	:	Watt
kW	:	Kilo Watt
PC	:	Personal Computer
MT	:	Metric Ton
MSEDCL	:	Maharashtra State Electricity Distribution Company Limited



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
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## CHAPTER-I INTRODUCTION

### 1.1 Objectives:

1. To study Connected Load
2. To study Present Energy Consumption
3. To study CO<sub>2</sub> emissions
4. To study Scope usage of Alternate / Renewable Energy
5. To study usage of LED Lighting

### 1.2 Table No-1: General Details of Institute:

No	Head	Particulars
1	Name	Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development
2	Address	Varale, Talegaon, Pune 410 507
3	Affiliation	Savitribai Phule Pune University



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507



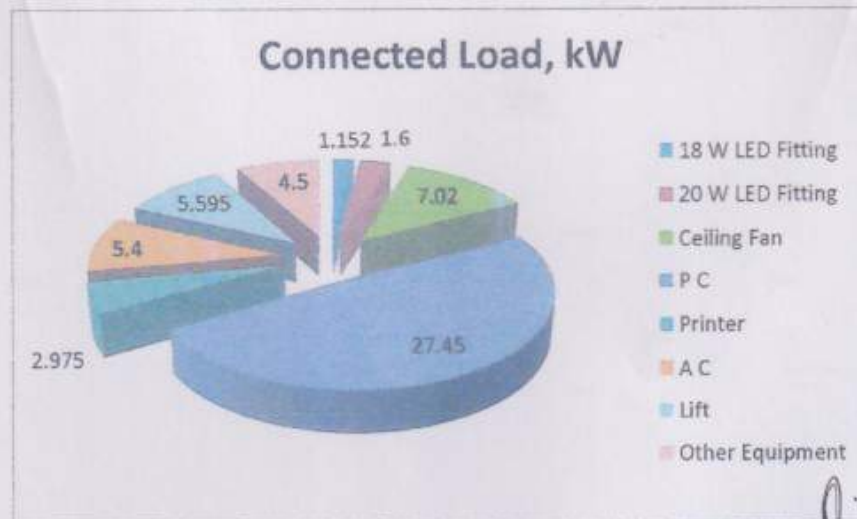
## CHAPTER-II STUDY OF CONNECTED LOAD

In this chapter, we present the details of various Electrical loads as under

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/unit	Load, kW
1	18 W LED Fitting	64	18	1.152
2	20 W LED Fitting	80	20	1.6
3	Ceiling Fan	108	65	7.02
4	P C	183	150	27.45
5	Printer	17	175	2.975
6	A C	3	1800	5.4
7	Lift	1	5595	5.595
8	Other Equipment	18	250	4.5
9	<b>Total</b>			<b>55.69</b>

Chart No 1: Details of Connected Load:



*Biggl*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
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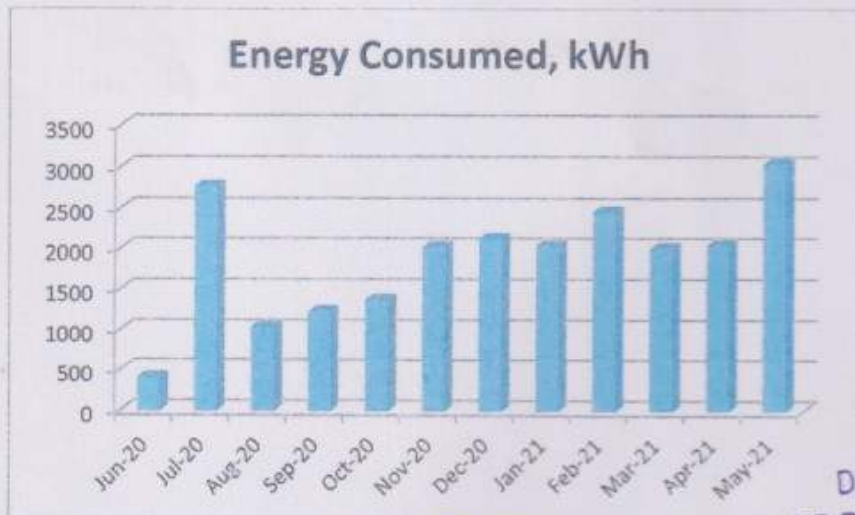


### CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Energy Consumed  
Table No 3: Electrical Energy Analysis: 20-21:

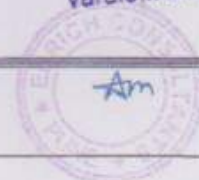
No	Month	Energy Consumed, kWh
1	Jun-20	406
2	Jul-20	2769
3	Aug-20	1036
4	Sep-20	1225
5	Oct-20	1369
6	Nov-20	2015
7	Dec-20	2119
8	Jan-21	2036
9	Feb-21	2456
10	Mar-21	1998
11	Apr-21	2036
12	May-21	3036
13	Total	22501
14	Maximum	3036
15	Minimum	406
16	Average	1875.08

Chart No 2: To study the variation of Month wise Energy Consumed, kWh:



*Beigh*

DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## CHAPTER-IV CARBON FOOT PRINTING

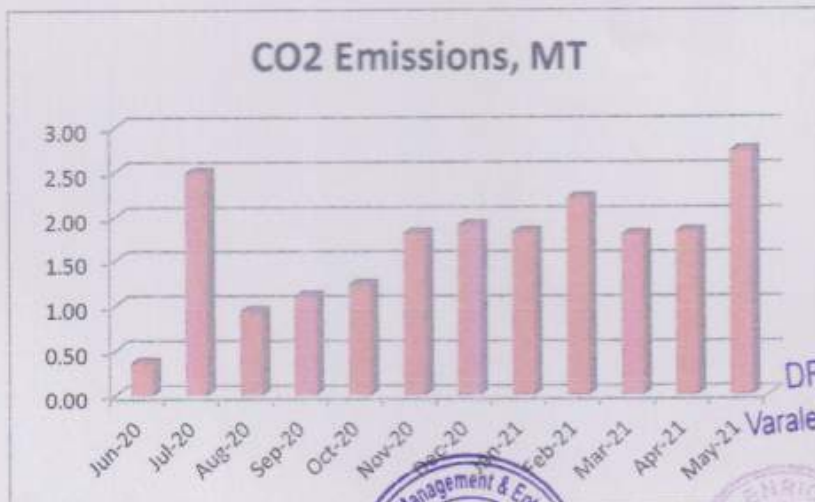
A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. Basis for computation of CO<sub>2</sub> Emissions:

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

Table No 4: Month wise CO<sub>2</sub> Emissions:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-20	406	0.37
2	Jul-20	2769	2.49
3	Aug-20	1036	0.93
4	Sep-20	1225	1.10
5	Oct-20	1369	1.23
6	Nov-20	2015	1.81
7	Dec-20	2119	1.91
8	Jan-21	2036	1.83
9	Feb-21	2456	2.21
10	Mar-21	1998	1.80
11	Apr-21	2036	1.83
12	May-21	3036	2.73
13	Total	22501	20.25
14	Maximum	3036	2.73
15	Minimum	406	0.37
16	Average	1875.08	1.69

Chart No 3: Representation of Month wise CO<sub>2</sub> Emissions:



**CHAPTER-V**  
**STUDY OF USAGE OF ALTERNATE ENERGY**

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



*higd*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## CHAPTER-VI STUDY OF USAGE OF LED LIGHTS

In this chapter, we compute the percentage of usage of LED Lighting to Total Lighting Load, as under.

Table No 5: Percentage of Usage of LED Lighting to Total Lighting Load:

No	Particulars	Value	Unit
1	Qty of 18 W LED Fittings	64	Nos
2	Load per unit of 18 W LED Fitting	18	W
3	Total Load of 18 W LED Fittings	1.152	kW
4	Qty of 20 W LED Fittings	80	Nos
5	Load per unit of 20 W LED Fitting	20	W
6	Total Load of 20 W LED Fittings	1.6	kW
7	Total LED Lighting Load =3+6	2.752	kW
8	Total Lighting Load =3+6	2.752	kW
9	% of LED to Total Lighting Load= $7*100/8$	100	%



*High*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

Address: - Sr. No. 27/A/1/2C, Near Talegaon Railway Station, Towards HP Service Station, Varale, Talegaon, Pune, Maharashtra 410507. **Website:** dypatilef.com. dypatilimed.com **E- mail-** director.dypimed@dypatilef.com

**Dr. D. Y. Patil**

Founder Dr. D Y Patil Group

**Dr. Sushant Patil**

President

**Dr. Priyanka A. Singh**

Director

## **CRITERION VII**

### **Institutional Values and Social Responsibilities**

**7.1.3 QnM Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following**

- 1. Green audit / Environment audit**
- 2. Energy audit**
- 3. Clean and green campus initiatives**
- 4. Beyond the campus environmental promotion and sustainability activities**

**Certificates of the awards received from recognized agency (if any).**

<b>Sr.No.</b>	<b>Content</b>
<b>1.</b>	<b>Certificates of the awards received from recognized agency</b>

## ENGRESS SERVICES

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

## ENERGY AUDIT CERTIFICATE

Certificate No: ES/DYPIMED/22-23/01

Date: 10/7/2023

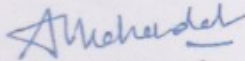
This is to certify that we have conducted Energy Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2022-23.

The Institute has adopted following Energy Efficient Practices:

- Maximum Usage of Day Lighting
- Usage of Energy efficient LED lighting
- Solar PV Based Street Light Fittings

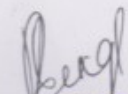
We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Engress Services,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## ENGRESS SERVICES

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

## ENVIRONMENTAL AUDIT CERTIFICATE

Certificate No: ES/DYPIMED/22-23/03

Date: 10/7/2023

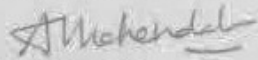
This is to certify that we have conducted Environmental Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2022-23.

The Institute has adopted following Environment Friendly Practices:


- Maximum Usage of Day Lighting
- Usage of Energy Efficient LED Lighting
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Installation of Rain Water Management Project
- 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.

For Engress Services,



A Y Mehendale,  
Certified Energy Auditor, EA-8192  
ASSOCHAM GEM Certified Professional: GEM: 22/788



DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

# GREEN AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507



Year: 2022-23

Prepared by

## ENGRESS SERVICES

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Near Muktangan English School, Parvati, Pune 411009  
Phone: 09890444795 Email: [engress123@gmail.com](mailto:engress123@gmail.com)



  
DIRECTOR

DR.D.Y.P.I.M.E.D.

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Near Mukhtangan English School, Parvati, Pune 411 009  
Tel: 020-24220747 Email: [engress123@gmail.com](mailto:engress123@gmail.com)

Ref: ES/ DYPIMED/21-22/01

Date: 20/6/2022

### CERTIFICATE

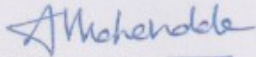
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The Institute has adopted following Energy Efficient Practices:

- > Maximum Usage of Day Lighting
- > Usage of Energy efficient LED lighting

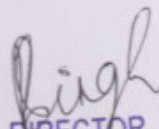
We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Engress Services,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



  
DIRECTOR  
DR.D.Y.P.M.E.D.  
Varale, Maval, Pune 410 507

## ENGRESS SERVICES

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

Ref: ES/ DYPIMED/21-22/03

Date: 20/6/2022

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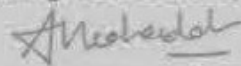
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The Institute has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Implementation of Rain Water Management Project
- 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,



A Y Mehendale,  
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DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society,  
Near Mukhtangan English School, Parvati, Pune 411 009  
Tel: 020-24220747 Email: [engress123@gmail.com](mailto:engress123@gmail.com)

Ref: ES/DYPIMED/21-22/02

Date: 20/6/2022

### CERTIFICATE

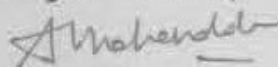
This is to certify that we have conducted Green Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2021-22.

The Institute has adopted following Green & Sustainable Practices:

- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Implementation of Rain Water Management Project
- 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,



A Y Mehendale,  
Certified Energy Auditor, EA-8192  
ASSOCHAM GEM Certified Professional: GEM: 22/788



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.

Varale, Maval, Pune 410 507

## Enrich Consultants

Yashashree, 26, Nirmal Bag Society,  
Near Mukhtangan English School, Parvati, Pune 411 009  
Tel: 09890444795 Email: [enrichcons@gmail.com](mailto:enrichcons@gmail.com)

Ref: ES/ DYPIMED/20-21/03

Date: 29/6/2021

### CERTIFICATE

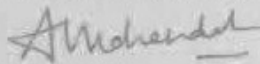
This is to certify that we have conducted Environmental Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2020-21.

The institute has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Implementation of Rain Water Management Project
- Tree Plantation in the Campus
- Creation of awareness on Ban on single Use Plastic 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 Enrich Consultants,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507

## Enrich Consultants

Yashashree, 26, Nirmal Bag Society,  
Near Muktang English School, Parvati, Pune 411 009  
Tel: 09890444795 Email: [enrichcons@gmail.com](mailto:enrichcons@gmail.com)

Ref: ES/ DYPIMED/20-21/01

Date: 29/6/2021

### CERTIFICATE

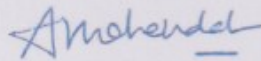
This is to certify that we have conducted Energy Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2020-21.

The Institute has adopted following Energy Efficient Practices:

- Maximum Usage of Day Lighting
- Usage of Energy efficient LED lighting

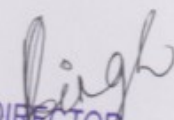
We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Enrich Consultants,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

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Ref: ES/DYPIMED/20-21/02

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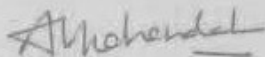
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The Institute has adopted following Green & Sustainable Practices:

- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
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We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Enrich Consultants,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



DIRECTOR

DR.D.Y.P.I.M.E.D.

Varale, Maval, Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

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Maharashtra 410507. **Website:** dypatilef.com. dypatilimed.com **E- mail-** director.dypimed@dypatilef.com

**Dr. D. Y. Patil**

Founder Dr. D Y Patil Group

**Dr. Sushant Patil**

President

**Dr. Priyanka A. Singh**

Director

## **CRITERION VII**

### **Institutional Values and Social Responsibilities**

#### **7.1.3 QnM**

**Report on environmental promotion and sustainability activities conducted beyond the campus with geo-tagged photographs with caption and date**

<b>Sr.No.</b>	<b>Content</b>
1	Tree Plantation
2	Notice on Waste Segregation
3	Notice on Ban on single use plastic
4	Circular for use of Digital Media
5	Notice of Restricted entry to vehicle in the campus
6	Clean India
7	Green Army Certificates
8	Plastic Awareness Day
9	Environment day
10	Yoga Day
11	Blood Donation
12	Orphanage Visit
13	Road Safety Day



**Dr. D. Y. Patil Institute of Management &  
Entrepreneur Development  
Varale, Talegaon**

## Tree Plantation Report

For Environmental protection forests are important and they are equally useful to fulfil different needs of human beings. Forests are directly and indirectly connected to daily life of human like as fresh air (oxygen) and forest produced. So that purpose increase of Forest cover, Conservation of forest area, wildlife conservation and protection these three things are important and Forest department set an agenda to work upon. Forests are one of the natural prosperity of human. It can be possible revival the forest cover but requires a best forestry Management practices. Forests are made up of land, trees, animals, small living creatures. These component of the forest work as complement to each other if any one of these component change or reduce it will affect and disturb whole environmental cycle. These components help and make balance of biodiversity and environment.

As we all know that the whole world is facing the problem of global warming and to recover from such problem planting the trees is become one of the most important aspects today. So Dr. D. Y. Patil Institute of Management and Entrepreneur Development has decided to form Green Committee for Tree Plantations.

### Green Committee

S.N	Name	Designation	Green Army Number
1	S.M. Jadhav	Assistant Professor	PU/2018/ind/1933614
2	Dr. Rajesh Jha	Associate Professor	PU/2018/ind/1933691
3	Sachin Jamnikar	Assistant Professor	AM/2018/ind/1933735
4	Rahul Deomare	Librarian	SO/2018/ind/1934316
5	Ravikumar Singh	Assistant Professor	PU/2018/ind/1933573
6	Vaibhav Khare	Registrar	PU/2018/ind/1935569
7	Ibrahim Shaha	Student	BU/2018/ind/1933914
8	Sagar Gabhane	Student	WS/2018/ind/1933876
9	Nitin Wagh	Student	WS/2018/ind/1933978



Dr. Priyanka Singh  
Director  
Dr. D. Y. Patil Institute of Management & Entrepreneur Development  
Varale, Talegaon  
Talegaon, Maharashtra - 410507



## Tree Plantation Programs 2018

S.N.	Date	Venue	Number of tree Planted
1	2/7/2018	Rambhau Parulekar Vidyaniketan- Talegaon Dabhade	50
2	21/7/2018	Dr. D. Y. Patil Institute of Management & Entrepreneur Development Campus	55
3	29/7/2018	Talegaon Railway Station	100



On 2ND JULY 2018 Dr. D. Y. Patil Institute of Management & Entrepreneur Development Campus successfully completed the event of Tree Plantation With Collaboration of Talegason Nagar Parishad at Rambhau Parulekar Vidyaniketan- Talegaon Dabhade. Trees are the foremost source for producing the oxygen in environment, they helps to reduce the level of CO<sub>2</sub>.

The event was begun with the welcoming of guest Honourable Mr. Sanjay Vishwanath Bhegade MLA of Vadgaon Maval, CEO of Talegaon Nagar Parishad , Faculty Members and Students of Rambhau Parulekar Vidyaniketan- Talegaon Dabhade.



  
Dr. Priyanka Singh  
Director  
Dr.D.Y.Patil Institute of Management & Entrepreneur Development  
Talegaon Dabhade, Dist. Solapur  
Pin - 413071

Rambhau Parulekar Vidyaniketan- Talegaon Dabhade  
2<sup>nd</sup> July 2018



*Dr. Priyanka Singh*  
Dr. Priyanka Singh  
Director  
Dr. D. Y. Patil Institute of Management &  
Entrepreneurship Development, Vasile, Talegaon  
Dabhade, Dist. Solapur (MS) - 431001



Dr. Priyanka Singh  
Director  
Dr. Y. P. Singh Institute of Management &  
Entrepreneur Development, Varanasi  
Phone: 4113077

*Singh*



Dr. Priyanka Singh  
 Director  
 Savitri Institute of Management &  
 Entrepreneurship Development  
 Varanasi, Uttar Pradesh  
 Pin-221002

*Singh*



Dr. Priyanka Singh  
Director  
Dr. P. Singh Institute of Management & Entrepreneurship  
Dehradun



*Priyanka*  
Dr. Priyanka Singh  
Director

Dr. G. V. P. Institute of Management &  
Entrepreneur Development Varanasi, Varanasi - 221002

Talegaon Railway Station  
29<sup>th</sup> July 2018



हरित सेना महाराष्ट्र  
भारतीय रेल्वे तळेगांव  
तळेगांव नगरपरिषद,



डॉ. डी.वाय.पाटील इन्स्टीट्यूट ऑफ मॅनेजमेंट अँड इंटरप्रिन्युअर डेव्हलपमेंट  
यांच्या संयुक्त विद्यमाने

# वृक्षारोपण

स्थळ : तळेगांव स्टेशन परिसर



Dr. Poyanka Sankar  
Director

Institute of Management &  
Entrepreneurship Development, Talegaon  
Phone: 412001



*Priyanka S*

Dr. Priyanka S  
Director  
Dr. G. V. P. Institute of Management &  
Entrepreneur Development, Vardha Talagani  
Phone: 83007(1)





## Press Note



All were happy and experience proud after the tree plantation event was finished, because it really feels great to do positive for the nature.



Dr. Y. P. Patil  
 Director  
 Maharashtra Sahitya Akademi  
 Varad Taluk



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
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Maharashtra 410507. Website: [dypatilef.com](http://dypatilef.com), [dypatilmed.com](http://dypatilmed.com) E-mail- [director.dypimed@dypatilef.com](mailto:director.dypimed@dypatilef.com)

**Date:21/08/2018**

**Notice**

Hereby we welcome all the staff and students to take part in the clean and green campus initiative. We believe in the power of collective action to make a positive impact on our environment. Proper waste segregation is a simple yet effective way to contribute to a cleaner, greener future. So we request everyone to do proper waste segregation as per the policy of the Institute.



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



Dr. D. Y. PATIL EDUCATIONAL FEDERATION  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

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Maharashtra 410507. Website: dypatilef.com, dypatilimed.com E-mail- director.dypimed@dypatilef.com

Date: 25/06/2018

### Notice

It is hereby informed to all the students of MBA. We are going to implement a ban on single use plastic as per the decision of Government of Maharashtra state has decided to **ban single use plastic products and plastic products of size below 50 micron from 23rd June 2018**. namely:

Notification of Government of Maharashtra, Environmental Department,  
No. Plastic-2018/C.R. No. 24/TC-4.

So, all have to avoid the use of plastic in Campus and create awareness in society for the same.



  
Director  
DIRECTOR  
DR. D. Y. P. I. M. E. D.  
Varale, Maval, Pune 410 507



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Date:03/09/2019

## Circular

We are excited to announce a new initiative to improve communication within our institution. In an ever-evolving digital age, effective communication is crucial for keeping all stakeholders well-informed and engaged. To facilitate this, we are implementing the use of social media and digital platforms as a means of enhancing our communication strategies.

Social media platforms offer a dynamic and interactive way to connect with students, faculty, staff, parents, alumni, and the wider community. Through these platforms, we can share important updates, achievements, events, and engage in meaningful conversations, all while promoting transparency and accessibility.

Our educational institute will utilize the following social and digital media platforms to improve communication:

**WhatsApp:** Sharing of the information to students, circular

**Google Groups/ Google Classroom:** Sharing Study Material /Assignments

**Facebook:** Ideal for sharing news, events, photos, and fostering community discussions.

**Email :** Communication within organization and outside the organization

**Instagram:** A visual platform to showcase the vibrant life on our campus, featuring photos and short videos.

  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## How Can You Get Involved?

**Follow Us:** Make sure to follow our official social media accounts on the mentioned platforms to stay updated.

**Engage:** Like, share, comment, and interact with our posts to help create a vibrant online community.

**Contribute:** If you have content, news, or stories that you believe should be shared, reach out to our social media team.

**Stay Informed:** Encourage others in our community to join us on social media for the latest updates.

**Privacy and Security** We take the privacy and security of our students and staff very seriously. Rest assured that we will adhere to strict guidelines and policies to protect sensitive information.

We believe that integrating social and digital media into our communication strategy will foster a sense of belonging, inclusivity, and collaboration within our institute. We look forward to your active participation and feedback as we embark on this exciting journey.

Let's connect, share, and learn together as we advance our educational mission through the power of social media.



  
Director  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale Maval,Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
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Date:21/08/2018

**Notice**

It is hereby informed to all Students, Staff and Faculty as part of Green Campus Initiative you have to park your vehicles in the parking lot at main gate. No one is allowed to bring the vehicle on from the point where restricted entry is mentioned without any emergency situation.



*High*  
Director  
DR.D.Y.P.I.M.E.D.  
Varale Maval Pune 410 507



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**Date: September 11, 2019**

**Clean India Day Report**

Date: September 11, 2019

Venue: DYP IMED Institute and surrounding areas

**Introduction:**

Clean India Day was celebrated by the students of DYP IMED Institute on September 11, 2019, as a part of the larger "Swachh Bharat Abhiyan" (Clean India Mission) initiative. The event aimed to create awareness about cleanliness and hygiene practices, promote environmental sustainability, and encourage the student community to actively participate in cleanliness drives.

**Event Highlights:**

**1. Awareness Campaign:**

The Clean India Day event began with an extensive awareness campaign to engage the students and raise awareness about cleanliness. Posters, banners, and flyers were displayed across the institute premises, highlighting the importance of cleanliness, waste management, and maintaining a clean environment. The campaign aimed to inspire the students to take responsibility for their surroundings.

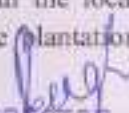
**2. Cleanliness Drives:**

Students actively participated in cleanliness drives, which encompassed cleaning the institute premises, classrooms, corridors, and common areas. They also extended their efforts beyond the institute, organising cleanliness drives in nearby public spaces such as parks, streets, and marketplaces. The drives focused on waste segregation, recycling, and proper disposal of waste.

**3. Community Engagement:**

To extend the impact of Clean India Day, the students actively engaged with the local community. They organised awareness campaigns, cleanliness drives, and tree plantation



  
DIRECTOR  
DR.D.Y.P.I.M.E.D  
Varale, Muzel, Pune-410



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[director.dypimed@dypatilcf.com](mailto:director.dypimed@dypatilcf.com)

activities in collaboration with local residents and community organisations. These community engagement initiatives aimed to create a broader impact and promote cleanliness and sustainability beyond the institute.

**Conclusion**

Clean India Day organised by the students of DYP IMED Institute was a remarkable effort to promote cleanliness, environmental sustainability, and community engagement. The event emphasised the importance of cleanliness and recycling in creating a healthier and more sustainable future.

Through cleanliness drives, awareness, and community engagement initiatives, the event created a positive impact within the student community and the wider society. The active participation of students reflected their commitment to social responsibility and environmental stewardship.



*[Signature]*  
Coordinator  
DYP IMED



*[Signature]*  
Director,  
DYPIMED  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507





**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
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[director.dypimed@dypatilef.com](mailto:director.dypimed@dypatilef.com)

Date: September 2, 2019.

## Notice

Dear Students,

We are delighted to inform you about an exciting event called "Clean India Day" that will be held on September 11, 2019. This event aims to promote Cleanliness awareness and its importance among students and citizens

Event Details: **Clean India Day Report**

Date: 11th september 2019

Venue: DYPIMED and Nearby Area

Time: 10.00 AM

All are requested to participate in full strength.

Best regards,

  
Coordinator  
DYP IMED



  
Director  
DYPIMED  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



महाराष्ट्र शासन  
वन विभाग

'महाराष्ट्र हरितसेना' सदस्यत्व प्रमाणपत्र  
प्रमाणित करण्यात येते की,

श्री. / श्रीमती : RAJESH KUMAR

रा. : Ravet, Pune

तालुका : Haveli जिल्हा : Pune

यांना 'महाराष्ट्र हरितसेना' चे सदस्यत्व प्रदान करण्यात येत आहे.

लोकहिताच्या कार्यात सहभागी झाल्याबद्दल  
हार्दिक शुभेच्छांसह !

नोंदणी क्रमांक : PU/2018/Ind/1933691

दिनांक महिना वर्ष

15 05 2018

प्रधान मुख्य वनसंरक्षक  
सामाजिक वनीकरण,  
महाराष्ट्र राज्य,  
पुणे



*High*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



महाराष्ट्र शासन  
वन विभाग

'महाराष्ट्र हरितसेना' सदस्यत्व प्रमाणपत्र  
प्रमाणित करण्यात येते की,

श्री. / श्रीमती : SACHIN VASANT KUMBHAR

रा. : TALEGAON DASHADE

तालुका : Maval जिल्हा : Pune

यांना 'महाराष्ट्र हरितसेना' चे सदस्यत्व प्रदान करण्यात येत आहे.

लोकहिताच्या कार्यात सहभागी झाल्याबद्दल  
हार्दिक शुभेच्छांसह !

नोंदणी क्रमांक : PU/2019/Ind/784254

दिनांक महिना वर्ष

25 10 2019

प्रधान मुख्य वनसंरक्षक  
सामाजिक वनीकरण,  
महाराष्ट्र राज्य,  
पुणे



DIRECTOR  
DR. D. Y. P. J. M. E. D.  
Varale, Maval, Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
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**Dr. D. Y. Patil**

Founder Dr. D Y Patil Group

**Dr. Sushant Patil**

President

**Dr. Priyanka A. Singh**

Director

Report On  
**“Tree Plantation Program 2022”**

**Event Date & Day:** Saturday, 22<sup>nd</sup> October 2022

**Venue:** Dr. D. Y. Patil Institute of Management and Entrepreneur Development. (Nearby Society)

**Time:** 10:00 AM

**Introduction:**

On the occasion of the birthday of our honorable founder, Dr. D. Y. Patil, our institute conducted a tree plantation program on 22<sup>nd</sup> October 2022. The primary objective of the drive was to sensitize students to social issues and promote their holistic development and contribute to a greener and healthier world.

**Plantation Site:**

The plantation drive was conducted in the nearby society, where the institute has its campus. The location was chosen in consultation with the society members to ensure that the plantation is done at a place that is easily accessible to everyone and has enough space to accommodate the plants.

**Activity:**

Around 63 students and faculty members from MBA & MCA departments of the institute participated in the program. The participants were divided into groups, and each group was assigned a specific task. We identified a nearby society where we could plant 50 saplings. We chose indigenous tree species that are well-suited to the local climate and require minimal maintenance. Various types of plants were planted during the program, including neem, mango, jackfruit, guava, and other fruit



*[Signature]*  
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trees. The selection of plants was made keeping in mind the local climate and soil conditions.

Before starting the plantation drive, a brief session was conducted by the faculty members to educate the students about the importance of trees in our ecosystem. The participants were then given the necessary tools and equipment to plant the saplings. The plantation process started with digging small pits for each sapling. After that, the saplings were planted carefully in the pits. The students and faculty members took great care in ensuring that the saplings were planted at the right depth and the soil was properly packed around them.

**Outcome:**

The tree plantation drive was successful in sensitizing the students to social issues and promoting their holistic development. It provided an opportunity for the students to engage in a community activity and contribute to the environment. The activity also raised awareness among the participants about the importance of conservation and the need to protect our natural resources. The students learned valuable skills such as teamwork, communication, and leadership.

**Conclusion:**

The tree plantation drive conducted by our college on 22nd Oct 2022 was a great success. It not only helped in sensitizing students towards social issues but also contributed to the betterment of the environment. The plantation of fruit trees will also help in providing a sustainable source of nutrition to the society members. We hope to continue such initiatives in the future to promote sustainable development and create a better world for everyone.



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**Photographs:**



*Pr*  
**Dr. Priyanka Singh,**  
**Director, DYPIMED**  
**DR.D.Y.P.I.M.E.D.**  
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Date 13/01/2018

**Report On**  
**Plastic Awareness Day**

**Date: January 13, 2018**

**Venue: DYP IMED Institute, Varale Talegaon Dabhade**

**Introduction:**

Plastic Awareness Day was celebrated with great enthusiasm and participation by the students of DYP IMED Institute in the local area on January 13, 2018. The event aimed to raise awareness about the harmful effects of plastic on the environment and promote sustainable alternatives.

**Event Highlights:**

**Awareness Campaign:**

The students conducted a comprehensive awareness campaign in the local area. They organised activities to engage the community and educate them about the hazards of plastic. The campaign included distributing pamphlets, displaying informative posters, and conducting interactive sessions to highlight the importance of reducing plastic consumption.

**Plastic Collection Drive:**

To encourage responsible waste management, a plastic collection drive was organised. Students formed teams and visited various localities to collect plastic waste. The collected plastic was later sent for recycling to minimise its impact on the environment.

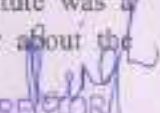
**Educational Workshops:**

Educational workshops were conducted on the day. Experts in the field of environmental conservation were invited to address the students. The workshops covered topics such as the adverse effects of plastic on marine life, sustainable alternatives to plastic, and the importance of recycling.

**Conclusion:**

The Plastic Awareness Day celebrated by the students of DYP IMED Institute was a resounding success. It served as a platform to educate the local community about the



  
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environmental impacts of plastic and provided practical solutions for sustainable living. The event highlighted the commitment of the students towards creating a cleaner and greener future. Through their efforts, they inspired the community to make conscious choices and reduce plastic consumption, ultimately contributing to a more environmentally friendly society.



  
Coordinator



  
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**Date: August 19, 2019**

## **Environment Day Report**

### **Introduction:**

The students of DYP IMED Institute celebrated Environment Day on August 1, 2019, to raise awareness about environmental conservation and promote sustainable practices. The event aimed to inspire the student community to take action towards protecting the environment and create a greener and more sustainable future.

### **Event Highlights:**

#### **1. Awareness Campaign:**

The Environment Day event began with an extensive awareness campaign, utilizing posters and banners to spread messages about environmental conservation. The campaign focused on key environmental issues such as climate change, deforestation, pollution, and waste management. It aimed to educate and inspire students to become responsible environmental stewards.

#### **2. Tree Plantation Drive:**

A tree plantation drive was conducted as part of the Environment Day event. Students actively participated in planting saplings in designated areas within the institute premises and Near Varale Gram Panchayat. The tree plantation drive aimed to enhance the green cover, improve air quality, and create a sustainable and eco-friendly campus environment. Students were educated about the benefits of trees and the role they play in mitigating climate change.

*Singh*  
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**Conclusion:**

The Environment Day event organized by the students of DYP IMED Institute showcased their commitment to environmental conservation and sustainability. The event successfully raised awareness about pressing environmental issues and encouraged students to adopt sustainable practices in their daily lives.



Coordinator

DYP IMED



DYP IMED

DR.D.Y.P.I.M.E.D.

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**Date: September 2, 2019.**

## Notice

Dear Students,

We are delighted to inform you about an exciting event called "**Environment Day**" that will be held on August 19, 2019. . This event aims to promote awareness about environmental conservation and promote sustainable practices and its importance among students, staff

Event Details: "Environment Day"

Date: 19th August 2019

Venue: Near Varale Gram Panchayat and Institute Premises

Time: 10.00 AM

All are requested to participate in full strength.

Best regards,

Coordinator



Director  
DYP IMED  
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**Report on**  
**Clean India Fortnight Report**

**Venue:** DYP IMED Institute and Railway station, Talegaon Dabhade, Pune

**Date:** September 29, 2018

**Introduction:**

The students of DYP IMED Institute organized a Clean India Fortnight campaign from September 29 to October 13, 2018, with the aim of promoting cleanliness and creating awareness about the importance of maintaining a clean environment. The campaign was aligned with the national "Swachh Bharat Abhiyan" (Clean India Mission) initiative and sought to instill a sense of responsibility towards cleanliness among the student community.

**Event Highlights:**

**1. Awareness Campaign:**

The Clean India Fortnight campaign began with an extensive awareness campaign to engage the students and promote the importance of cleanliness. Posters, banners, and flyers were displayed across the institute to raise awareness and encourage active participation. The campaign emphasized the need for cleanliness in both personal and public spaces.

**2. Cleanliness Drives:**

Throughout the fortnight, various cleanliness drives were organized within the institute premises and surrounding areas. Student volunteers actively participated in activities such as cleaning classrooms, corridors, common areas, and the institute's surroundings. The drives were conducted in a systematic manner, focusing on waste segregation, recycling, and proper disposal of waste.

**3. Campus Beautification:**

In addition to cleaning activities, the students also engaged in campus beautification initiatives. They planted trees, created flower beds, and decorated the institute premises with



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environmentally friendly materials. These activities aimed to create a visually appealing and eco-friendly campus environment while promoting the importance of preserving nature.

#### **4. Sensitization Programs:**

To foster a sense of responsibility and educate the students about cleanliness, sensitization programs were organized. These programs included interactive sessions, presentations, and workshops that focused on waste management, personal hygiene, and the adverse effects of pollution. Experts and guest speakers were invited to share their knowledge and experiences, providing valuable insights to the students.

#### **5. Community Engagement:**

The Clean India Fortnight campaign extended beyond the institute premises to engage the local community. The students organized awareness drives and cleanliness initiatives in nearby public spaces such as parks, streets, and marketplaces. This community engagement aimed to create a broader impact and inspire others to join the cleanliness movement.

#### **Conclusion:**

The Clean India Fortnight campaign organized by the students of DYP IMED Institute was a commendable effort to promote cleanliness and create awareness among the student community and the local population. The campaign successfully instilled a sense of responsibility towards cleanliness and highlighted the importance of maintaining a clean environment for the well-being of society.

Through various activities such as cleanliness drives, campus beautification, sensitization programs, and community engagement, the campaign aimed to bring about a positive change in the attitudes and behaviours of individuals towards cleanliness. The campaign also emphasised the significance of waste management, recycling, and preserving the environment.

The active participation of the students, along with the support of faculty and staff, made the Clean India Fortnight campaign a success. The event showcased the institute's commitment to social responsibility and creating environmentally conscious citizens.



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*[Handwritten Signature]*

Coordinator  
DYP IMED



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**Date: September 19, 2018.**

**Notice**

Dear Students,

We are delighted to inform you about an exciting event called "Clean India fortnight Day" that will be held on September **29, 2018**. . This event aims to promote Cleanliness awareness and its importance among students and citizens

**Event Details:** Clean India fortnight  
**Date:** 29 th september 2018  
**Venue:** DYP IMED Institute and Railway station, Talegaon Dabhade, Pune  
**Time:** 10.00 AM

All are requested to participate in full strength.

Best regards,

Coordinator  
DYP IMED



Director  
DYP IMED  
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**Dr. Sushant Patil**  
President

**Dr. Priyanka A. Singh**  
Director

**Report**

## “Yoga Day 2022”

**Event Date & Day: Tuesday, 21st June 2022**

**Venue –Seminar Hall**

**Time – 9:00 AM to 10:30 AM**

### About Event

International Yoga Day aims to educate the habit of meditation, overcoming stress naturally without resorting to any other artificial means, among youngsters so that they can enjoy a more peaceful mind and self-awareness, which is essential for a stress-free existence of oneself. As the part of keeping your mind and body flexible Dr. D. Y. Patil Institute of Management and Entrepreneur Development, students gathered together to celebrate International Yoga Day not only students but also teaching and non-teaching staff participated together on Tuesday 21st June 2022.

**21 June 2022. INTERNATIONAL YOGA DAY**

**Dr. D. Y. Patil Educational Federation**

**Spectra 2022 Celebrating International Yoga Day**

Requirements: keep yourself ready from your core. Note: Please wear loose comfortable clothes.

Timing : 9:00 - 10:00AM  
Venue : Seminar Hall  
Coordinators : Prof. Harini Pawar

Dr. D. Y. Patil College of Engineering and Innovation  
SPPU (MBA | MCA)  
Dr. D. Y. Patil Jr. College of Science

www.dypatilef.com  
Talegaon Dist. Maharashtra, Pune

**21 June 2022 INTERNATIONAL YOGA DAY**

**Dr. D. Y. Patil Educational Federation**

**Spectra 2022 Celebrating INTERNATIONAL YOGA DAY**

Timing : 9:00 - 10:00AM  
Venue : Seminar Hall  
Coordinators : Prof. Harini Pawar

Requirements: keep yourself ready from your core. Note: Please wear loose comfortable clothes.

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### Objective

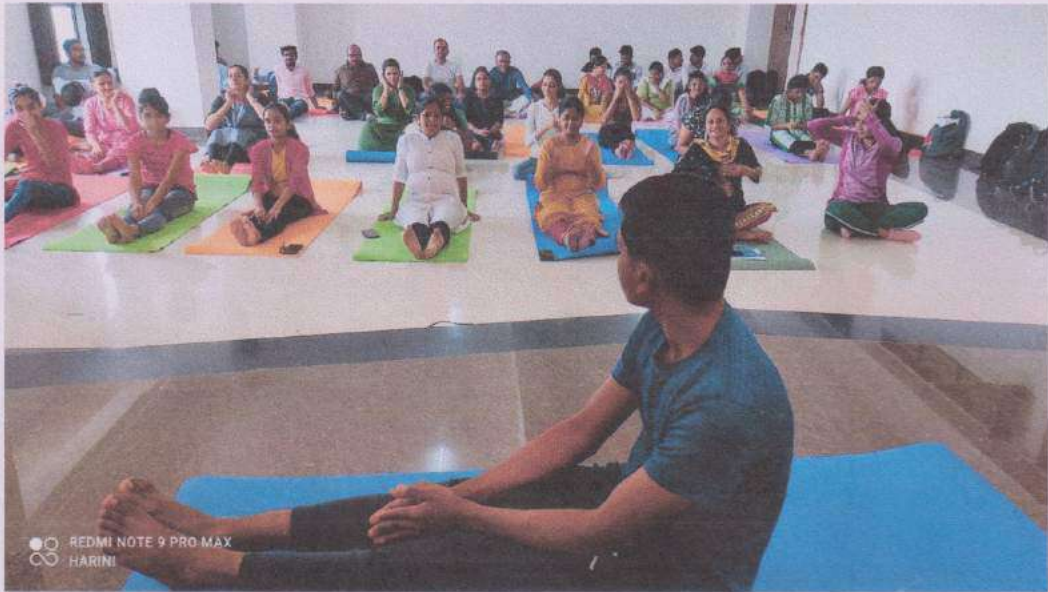
- The main objective of Yoga is to believe that when a person connects with Mother Nature with both his mind and soul, he achieves a greater level of consciousness which helps him to be at peace with his surroundings.
- To make a habit of doing yoga which helps you to remain active and flexible with your activities and your on going work.
- Make you think positive and be positive.

### About the Activity:

54 students and staff members have enthusiastically participated in the activity. Students came with comfortable outfits. Students of MBA and MCA participated actively with all the energy and keen to do yoga. This activity helped students to know more about Yoga and some who did daily were happy to show their flexibility by participating.



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**Learning Outcome:**

- Students learned some new Asana.
- Students and staff realized how Yoga is important for today's life.
- They learnt how yoga keeps you active the whole day.

*Harini Pawar*

**Prof. Harini Pawar**  
Event Coordinator



*Priyanka Singh*  
**Dr. Priyanka Singh**  
DIRECTOR  
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Founder Dr. D Y Patil Group

**Dr. Sushant Patil**

President

**Dr. Priyanka A. Singh**

Director

## **Report on Blood Donation Camp at DYPIMED**

**Date:** 22 July 2022

**Location:** (DYPIMED) Seminar Hall

### **Executive Summary:**

The Blood Donation Camp held at (DYPIMED) was a resounding success, demonstrating the unwavering commitment of the institute and its students to the noble cause of saving lives through blood donation. The event, which took place on 22 July 2022, witnessed significant participation from students, faculty, staff, and members of the local community, resulting in a substantial collection of life-saving blood units.

### **Introduction:**


Blood donation is a crucial component of healthcare, saving countless lives every day. (DYPIMED) has a long-standing tradition of organizing blood donation camps to address the constant demand for blood.

This year's camp aimed to bolster the supply of blood, especially during these challenging times when the need for blood has been amplified due to the ongoing pandemic.

### **Objectives:**

The primary objectives of the Blood Donation Camp at DYPIMED were as follows:

- To raise awareness about the importance of blood donation.
- To encourage students, faculty, staff, and the local community to donate blood.
- To contribute to the local blood bank's efforts to maintain an adequate blood supply.
- To promote a culture of volunteerism and community service among students.

  
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Director

## **Report on Blood Donation Camp at DYPIMED**

**Date:** 22 July 2022

**Location:** (DYPIMED) Seminar Hall

### **Executive Summary:**

The Blood Donation Camp held at (DYPIMED) was a resounding success, demonstrating the unwavering commitment of the institute and its students to the noble cause of saving lives through blood donation. The event, which took place on 22 July 2022, witnessed significant participation from students, faculty, staff, and members of the local community, resulting in a substantial collection of life-saving blood units.

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- To promote a culture of volunteerism and community service among students.

  
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## **Event Highlights:**

**Participants:** The Blood Donation Camp witnessed enthusiastic participation from students, faculty, staff, and local residents. Volunteers and medical professionals were on hand to ensure a smooth and safe donation process.

**Donation Process:** The donation process adhered to strict safety and hygiene protocols. Donors underwent a pre-screening process to ensure eligibility, followed by the actual blood donation, which typically took around 15 minutes per donor. Refreshments were provided to donors after the donation process to aid in their recovery.

**Blood Collection:** The camp successfully collected [Insert Number] units of blood, surpassing the initial target. The collected blood will be used to support patients in need within the local community.

**Acknowledgment:** A certificate of appreciation was presented to all donors to recognize their selfless contribution to saving lives. Additionally, a token of gratitude was given to all volunteers for their valuable assistance in organizing the event.

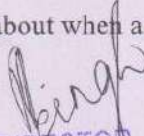
## **Impact and Benefits:**

The Blood Donation Camp at DYPIMED had several positive impacts:

- a. Contributed significantly to the local blood bank's inventory.
- b. Raised awareness about the importance of regular blood donation.
- c. Fostered a sense of community and volunteerism among students.
- d. Strengthened DYPIMED's commitment to social responsibility.

## **Conclusion:**

The Blood Donation Camp at DYPIMED was an unequivocal success, serving as a testament to the institute's dedication to humanitarian causes. It not only replenished the local blood supply but also inspired individuals to continue supporting such initiatives in the future. The event was a reminder of the positive change that can be brought about when a community unites for a noble cause.

  
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DYPIMED expresses its gratitude to all participants, volunteers, and medical professionals for their invaluable contributions to the success of this event. The institute remains committed to organizing more such initiatives in the future to make a positive impact on society.



  
Event Coordinator



  
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President

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**Report**  
**“Orphanage Visit”**

**Event Date & Day- Friday, 24th June 2022**

**Venue – Udyog Dham sanchalit “Aniket Niketan”, Opp. Talegaon General Hospital, Talegaon Dabhade.**

**Time – 5:00 pm to 7:00pm**

**About Event**

To sensitize and make Students aware about the under privileged children and to inculcate the feeling of sympathy among MBA/MCA students. This activity helps students to understand that they have larger responsibility towards the society and its wellbeing other than their own studies and career progression.



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### Activities Undertaken

- Games, Song/Poem Recitation by the students.
- Gift Distribution to each one of the Kids.
- Combined Photo Session with the team and resident kids.
- Thanks for giving exercise to management and their officials.

### Objective

To sensitize and make Students aware about the under privileged children and to inculcate the feeling of sympathy among MBA/MCA students.

### Learning Outcome

- All Students and Faculty members were sensitized towards the life and the needs of underprivileged kids.
- Students have memorable times with Kids by playing games and engaging in different activities with them.
- It was a memorable day for kids who spent good times with students and shared their joy and experience.
- Important Lesson about "small contributions helps a lot" by engaging them in donation collection activities and utilizing them in some socially beneficial activities.
- Engagement of MBA/MCA students in Learning and socially connecting activities.



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*f Patil*      *D. Gautam*  
Prof. Dhanashree Patil & Prof. Dilip Gautam

Event Coordinators



*Singh*  
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D.P.M.E.D.  
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**Date:** August 26, 2018

**Report on**  
**Donation Drive for the Needy Social Awareness**

**Date:** August 26, 2018

**Venue:** DYP IMED Institute

**Introduction:**

A donation drive for the needy was organized by the students of DYP IMED Institute on August 26, 2018. The objective of the drive was to create social awareness and promote compassion among the student community. The event aimed to collect essential items and resources to support underprivileged individuals and contribute to their well-being.

**Event Highlights:**

**1. Collection Drive:**

The donation drive involved collecting essential items and resources from the students, faculty, and staff of DYP IMED Institute. Students were encouraged to donate items such as clothes, blankets, books, stationery, non-perishable food items, hygiene products, and other necessary commodities. Collection points were set up at convenient locations within the institute premises to facilitate donations.

**2. Awareness Campaign:**

To raise awareness about the donation drive, an extensive campaign was carried out prior to the event. The campaign utilized various mediums, including posters, flyers, social media platforms, and word-of-mouth communication. The campaign highlighted the importance of helping the needy and encouraged the entire student community to participate in the noble cause.

**3. Sorting and Packaging:**

Once the donations were collected, student volunteers organised sorting sessions to categorise the items. The items were sorted into different categories such as clothing, food, books, and hygiene products. After sorting, the items were packaged neatly and securely to ensure convenient distribution to the recipients.

**4. Distribution Event:**

A distribution event was organized to distribute the donated items to the underprivileged individuals and communities. The event took place at a location determined in collaboration with



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**DR.D.Y.P.I.M.E.D.**  
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the partnering organizations. Student volunteers actively participated in the distribution process, interacting with the recipients and spreading warmth and compassion.

#### **5. Impact Assessment:**

Following the donation drive, an impact assessment was conducted to evaluate the effectiveness of the initiative. The assessment included feedback from the partnering organisations and recipients to understand the positive impact created by the donations. This assessment provided valuable insights for future initiatives and helped gauge the success of the event.

#### **Conclusion:**


The donation drive for the needy organised by the students of DYP IMED Institute was a resounding success, reflecting the institute's commitment to social responsibility and compassion. The event highlighted the importance of helping the underprivileged and promoting social awareness among the student community.

The initiative brought together students, faculty, staff, and local organisations to contribute to the well-being of the less fortunate. Through their generous donations and active participation, the students of DYP IMED Institute showcased their empathy and willingness to make a positive difference in society.

The donation drive not only provided essential items to the needy but also instilled a sense of empathy and social consciousness among the students. The event served as a reminder of the power of collective action and the impact that small acts of kindness can have on the lives of others.

Overall, the donation drive for the needy was a testament to the institute's commitment to nurturing socially responsible individuals who understand the importance of giving back to society. The event created a lasting impact by fostering a culture of compassion and social awareness among the student community of DYP IMED Institute.



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507



*A. K. Kulkarni*  
Coordinator  
DYP IMED



*P. Singh*  
Director  
DYP IMED  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

Address: - Sr. No. 27/A/1/2C, Near Talegaon Railway Station, Towards HP Service Station, Varale, Talegaon, Pune,  
Maharashtra 410507. **Website:** dypatilef.com. dypatilimed.com **E- mail-** director.dypimed@dypatilef.com

**Date: August 18, 2018**

**Notice**

Dear Students,

We are delighted to inform you about an exciting event called “ **Donation Drive** ” that will be held on August 26, 2018. This event aims to promote Social justice and empathy among students,

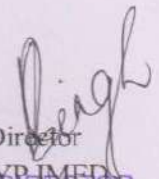
Event Details : **Donation Drive**  
Date : Date: August 26, 2018  
Venue : Seminar Hall, DYD IMED  
Time : 10.00 AM

All are requested to participate in full strength.

Best regards,

  
Coordinator  
DYP IMED



  
Director  
DYP IMED  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
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**Date: September 19, 2018.**

**Notice**

Dear Students,

We are delighted to inform you about an exciting event called "Clean India fortnight Day" that will be held on September **29, 2018**. . This event aims to promote Cleanliness awareness and its importance among students and citizens

**Event Details:** Clean India fortnight  
**Date:** 29 th september 2018  
**Venue:** DYP IMED Institute and Railway station, Talegaon Dabhade, Pune  
**Time:** 10.00 AM

All are requested to participate in full strength.

Best regards,

Coordinator  
DYP IMED



Director  
DYP IMED  
**DR.D.Y.P.I.M.E.D.**  
Varale,Maval,Pune 410 507





Dr. D. Y. PATIL EDUCATIONAL FEDERATION  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

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Maharashtra 410507. Website: dypatilef.com. dypatilimed.com E- mail- director.dypimed@dypatilef.com

Date: September 29, 2019

## Road Safety Day Report

Date: September 29, 2019

Venue: on Road Infront of Gate of DYPIMED

### Introduction:

Road Safety Day was celebrated by the students of DYP IMED Institute on September 29, 2019, with the aim of raising awareness about road safety and promoting responsible behavior on the roads. The event aimed to educate and engage the student community in understanding the importance of road safety measures and fostering a culture of safe transportation.

### Event Highlights:

#### 1. Awareness Campaign:

To kickstart the Road Safety Day event, an extensive awareness campaign was conducted. Poster and banners were displayed throughout the institute premises, conveying messages related to road safety, traffic rules, and responsible driving. The campaign aimed to sensitize the student community and create a culture of road safety consciousness.

#### 2. Road Safety Demonstrations:

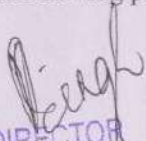
To reinforce the importance of road safety measures, live demonstrations were organized. Students participated in mock scenarios where they learned how to properly use pedestrian crossings, follow traffic signals, and navigate roundabouts. These demonstrations allowed students to witness the consequences of unsafe practices and understand the significance of adhering to road safety guidelines.

#### 3. Road Safety Pledge:

During the event, students were encouraged to take a road safety pledge. They vowed to follow traffic rules, practice responsible driving, respect pedestrians, and promote road safety awareness among their peers and the wider community. The pledge served as a commitment to creating a safer road environment.

#### 4. Road Safety Awareness Walk:

A road safety awareness walk was organized in collaboration with local authorities and police. Students, faculty, and staff of DYP IMED Institute participated in the walk, carrying placards and banners with road safety messages. The walk aimed to draw public attention and raise awareness about the importance of safe driving practices.

  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507





  
Coordinator  
DYP IMED



  
Director  
DYP IMED  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

Address: - Sr. No. 27/A/1/2C, Near Talegaon Railway Station, Towards HP Service Station, Varale, Talegaon, Pune,  
Maharashtra 410507. Website: dypatilef.com. dypatilimed.com E- mail- director.dypimed@dypatilef.com

**Date: September 20, 2019.**

**Notice**

Dear Students,

We are delighted to inform you about an exciting event called Road Safety Day that will be held on September 20, 2019. . This event aims to promote Road safety awareness and its importance among students,

**Event Details: Road Safety day**

Date: 29th september 2019  
Venue: on Road Infront of Gate of DYPIMED  
Time: 10.00 AM

All Are Requested to participate in full strength.

Best regards,

Coordinator  
DYP IMED



Director  
DYP IMED  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



**Dr. D. Y. PATIL EDUCATIONAL FEDERATION**  
**Dr. D. Y. Patil Institute of Management and Entrepreneur Development**  
**Approved by AICTE, Affiliated to SPPU Pune**

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Maharashtra 410507. **Website:** dypatilef.com. dypatilimed.com **E- mail-** director.dypimed@dypatilef.com

**Dr. D. Y. Patil**

Founder Dr. D Y Patil Group

**Dr. Sushant Patil**

President

**Dr. Priyanka A. Singh**

Director

## **CRITERION VII**

### **Institutional Values and Social Responsibilities**

#### **7.1.3 QnM**

**Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following**

- 1. Green audit / Environment audit**
- 2. Energy audit**
- 3. Clean and green campus initiatives**
- 4. Beyond the campus environmental promotion and sustainability activities**

**Green audit/environmental audit report from recognized bodies**

<b>Sr.No.</b>	<b>Content</b>
<b>1</b>	<b>Green Audit 2022-23</b>
<b>2</b>	<b>Green Audit 2021-22</b>
<b>3</b>	<b>Green Audit 2020-21</b>
<b>4</b>	<b>Environment Audit 2022-23</b>
<b>5</b>	<b>Environment Audit 2021-22</b>
<b>6</b>	<b>Environment Audit 2020-21</b>

# GREEN AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507




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)



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School,  
Parvati, Pune 411 009 Tel: 09890444795 Email: [engress123@gmail.com](mailto: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/DYPIMED/22-23/02

Date: 10/7/2023

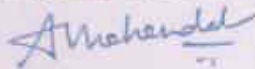
This is to certify that we have conducted Green Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2022-23.

The Institute has adopted following Green & Sustainable Practices:



- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Installation of Rain Water Management Project
- 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,  
Certified Energy Auditor, EA-8192  
ASSOCHAM GEM Certified Professional: GEM: 22/788

  
  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

### REGISTRATION CERTIFICATES



MEDA REGISTRATION CERTIFICATE

ASSOCHAM GEM CP CERTIFICATE



ISO: 9001-2015 Certificate

ISO: 14001-2015 Certificate



*Varale*  
DIRECTOR  
DR. D. Y. P. I. M. E. D.  
Varale, Maval, Pune 410 507



## INDEX

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I	Acknowledgement	5
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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 Harvesting	12
6	Study of Green & Sustainable Practices	13



*High*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507



## ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, for awarding us the assignment of Green Audit of their campus for the Year: 22-23.

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



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of Electrical Energy; used for equipment.

### 2. Energy Consumed and CO<sub>2</sub> Emission:

No	Particulars	Value	Unit
1	Annual Energy Consumed	50556	kWh
2	Annual CO <sub>2</sub> Emissions	45.50	MT

### 3. Various Measures Adopted for Energy Conservation:

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

### 4. Usage of Renewable Energy Renewable Energy:

- The Institute has installed Solar PV based Street Lights.

### 5. Waste Management:

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

### 6. Rain Water Management:

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

### 7. Green & Sustainable Practices:

- Good Internal Road
- Internal Tree Plantation
- Provision of Ramp for Divyangajan
- Creation of Awareness on Water Conservation by Display of Posters

### 8. Assumptions:

- The Energy Consumption is computed on Electrical Load Utilization factor
- 1 kWh of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere

### 9. Reference:

- For CO<sub>2</sub> calculations: [www.tatapower.com](http://www.tatapower.com)



*Varale*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval Pune 410 507

## ABBREVIATIONS

LED	:	Light Emitting Diode
KLPD	:	Kilo Liters per Day
kWh	:	kilo-Watt Hour
MT	:	Metric Ton
CO <sub>2</sub>	:	Carbon Di Oxide



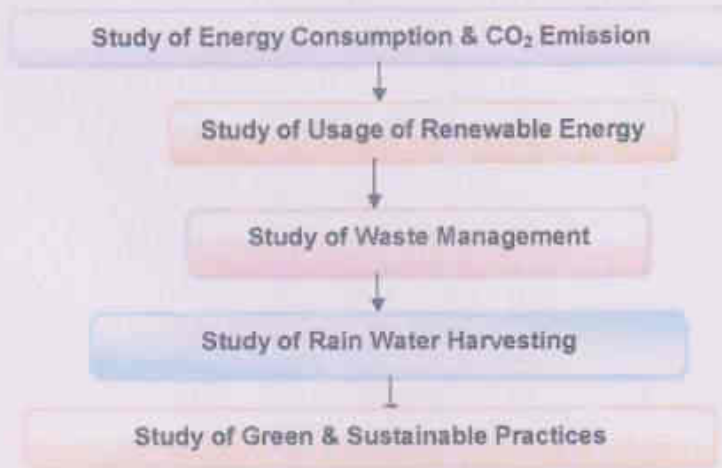
*high*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507

## CHAPTER-I INTRODUCTION

### 1.1 Introduction:

A Green Audit is conducted at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon.

### 1.2 Audit Procedural Steps:



### 1.3 Google Earth Image:



College  
Campus



*[Signature]*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

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

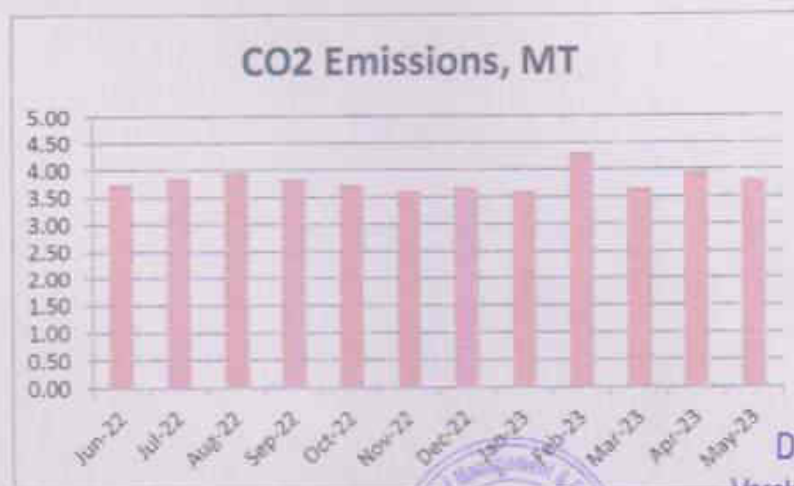
A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. The Institute uses Electrical Energy for various Electrical gadgets.

**Basis for computation of CO<sub>2</sub> Emissions:** 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: Month wise CO<sub>2</sub> Emissions:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-22	4136	3.72
2	Jul-22	4269	3.84
3	Aug-22	4369	3.93
4	Sep-22	4238	3.81
5	Oct-22	4119	3.71
6	Nov-22	3998	3.60
7	Dec-22	4069	3.66
8	Jan-23	3969	3.57
9	Feb-23	4769	4.29
10	Mar-23	4036	3.63
11	Apr-23	4369	3.93
12	May-23	4215	3.79
13	Total	50556	45.50
14	Maximum	4769	4.29
15	Minimum	3969	3.57
16	Average	4213	3.79

Chart No 1: To study CO<sub>2</sub> Emission:



*Dr. D. Y. Patil*  
DIRECTOR

DR.D.Y.P.I.M.E.D.

Varale, Maval, Pune 410 507

### CHAPTER-III

## STUDY OF USAGE OF RENEWABLE ENERGY

The Institute has installed Solar PV based Street Light Fittings.

Photograph of Solar Street Light Fitting:



*Dr. D. Y. Patil*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## CHAPTER-IV STUDY OF WASTE MANAGEMENT

### 4.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

Photograph of Separate Waste Collection Bin:



### 4.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

Photograph of Sewage Treatment Plant:



### 4.3 E Waste Management:

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

  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507

## CHAPTER-V STUDY OF RAIN WATER MANAGEMENT

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

Photograph of Rain Water Carrying Pipe:



Rain Water  
Carrying Pipe



*Bergal*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## CHAPTER-VI STUDY OF GREEN & SUSTAINABLE PRACTICES

### 6.1 Pedestrian Friendly Road:

The Institute has well maintained pedestrian road as to facilitate the easy movement of the students within the campus.

Photograph of Road within campus:

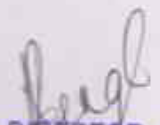


### 6.2 Internal Tree Plantation:

The Institute has well maintained Tree Plantation.

Photograph of Tree Plantation:



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

### 6.3 Provision of Ramp for Divyangajan:

The Institute has made provision of Ramp for the Divyangajan.

Photograph of Ramp for Divyangajan:



### 6.4 Creation of Awareness on Water Conservation by Display of Posters:

The Institute has displayed posters on Water Conservation.

Photograph of Poster on Water Conservation:



*Dr. D. Y. Patil*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

# GREEN AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507



Year: 2021-22

Prepared by

## ENGRESS SERVICES

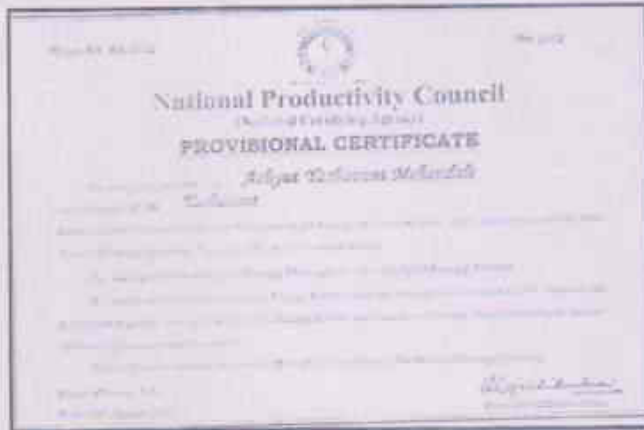
Yashashree, 26, Nirmal Bag Society  
Near Muktangan English School, Parvati, Pune 411009  
Phone: 09890444795 Email: [engress123@gmail.com](mailto:engress123@gmail.com)



*High*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.

Varale, Maval, Pune 410 507

### REGISTRATION CERTIFICATES



BEE AUDITOR CERTIFICATE



MEDA REGIATRION CERTIFICATE



ASSOCHAM GEM CP CERTIFICATE

## ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society,  
Near Mukhtangan English School, Parvati, Pune 411 009  
Tel: 020-24220747 Email: [engress123@gmail.com](mailto:engress123@gmail.com)

Ref: ES/DYPIMED/21-22/02

Date: 20/6/2022

### CERTIFICATE

This is to certify that we have conducted Green Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2021-22.

The Institute has adopted following Green & Sustainable Practices:


- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Implementation of Rain Water Management Project
- 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,



A Y Mehendale,  
Certified Energy Auditor, EA-8192  
ASSOCHAM GEM Certified Professional: GEM: 22/788



DIRECTOR  
DR.D.Y.P.I.M.E.D.

Varale, Maval, Pune 410 507

## INDEX

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4	Study of Usage of Renewable Energy	13
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6	Study of Rain Water Harvesting	15
7	Study of Green & Sustainable Practices	16



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, for awarding us the assignment of Green Audit of their campus for the Year: 21-22.

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



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of **Electrical Energy**; used for equipment.

### 2. Energy Consumed and CO<sub>2</sub> Emission:

No	Parameter	Energy Consumed, kWh	CO <sub>2</sub> emissions, MT
1	Total	46825	42.14
2	Maximum	4396	3.96
3	Minimum	3005	2.70
4	Average	3902.08	3.51

### 3. Various Measures Adopted for Energy Conservation:

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

### 4. Usage of Renewable Energy Sources:

- The Institute has yet to install Roof Top Solar PV Plant.

### 5. Waste Management:

#### 5.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

#### 5.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

### 6. Rain Water Management:

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

### 7. Green & Sustainable Practices:

- Good Internal Roads
- Internal Tree Plantation
- Provision of Ramp for Divyangajan
- Creation of Awareness on Energy Conservation by Display of Posters



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507



#### 8. Assumptions:

- The Energy Consumption is computed on Electrical Load Utilization factor
- 1 kWh of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere

#### 9. Reference:

- For CO<sub>2</sub> calculations: [www.tatapower.com](http://www.tatapower.com)




  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## ABBREVIATIONS

LED	:	Light Emitting Diode
KLPD	:	Kilo Liters per Day
kWh	:	kilo-Watt Hour
MT	:	Metric Ton
CO <sub>2</sub>	:	Carbon Di Oxide

  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## CHAPTER-I INTRODUCTION

### 1.1 Objectives:

1. To study present Energy Consumption
2. To Study the present CO<sub>2</sub> emissions
3. To study Usage of Renewable Energy
4. To study Waste Management practices
5. To study Green & Sustainable Practices

### 1.2 Table No-1: General Details of Institute:

No	Head	Particulars
1	Name	Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development
2	Address	Varale, Talegaon, Pune 410 507
3	Affiliation	Savitribai Phule Pune University

### 1.3 Google Earth Image:



College  
Campus



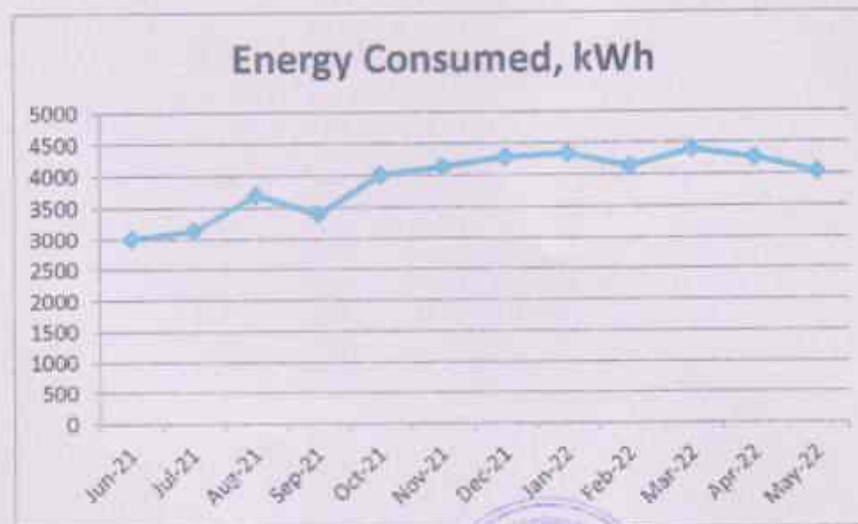
*Handwritten Signature*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507


## CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Energy Consumption  
Table No 2: Electrical Energy Analysis- 21-22:

No	Month	Energy Consumed, kWh
1	Jun-21	3005
2	Jul-21	3136
3	Aug-21	3698
4	Sep-21	3397
5	Oct-21	4006
6	Nov-21	4136
7	Dec-21	4285
8	Jan-22	4336
9	Feb-22	4136
10	Mar-22	4396
11	Apr-22	4258
12	May-22	4036
13	Total	46825
14	Maximum	4396
15	Minimum	3005
16	Average	3902.08

Chart No 1: To study the variation of Month wise Energy Consumed, kWh:



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

### CHAPTER-III CARBON FOOTPRINTING

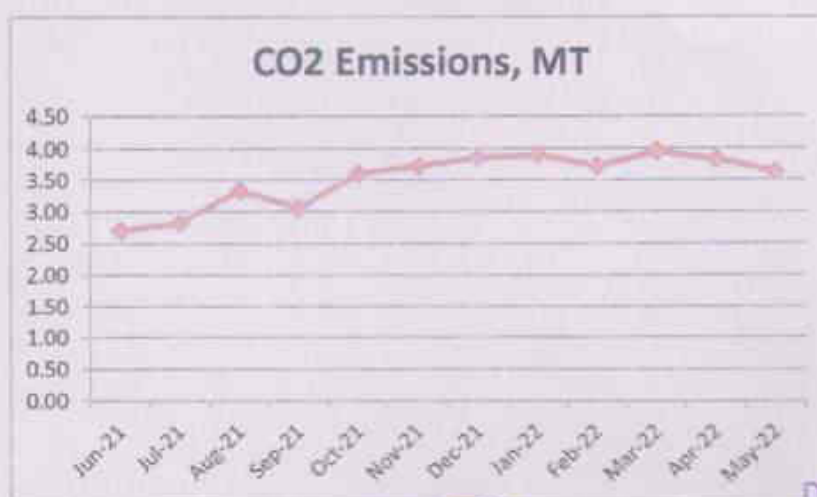
A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. **Basis for computation of CO<sub>2</sub> Emissions:**

- 1 Unit (kWh) of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere.

Table No 3: Month wise CO<sub>2</sub> Emissions:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-21	3005	2.70
2	Jul-21	3136	2.82
3	Aug-21	3898	3.33
4	Sep-21	3397	3.06
5	Oct-21	4006	3.61
6	Nov-21	4136	3.72
7	Dec-21	4285	3.86
8	Jan-22	4336	3.90
9	Feb-22	4136	3.72
10	Mar-22	4396	3.96
11	Apr-22	4258	3.83
12	May-22	4036	3.63
13	Total	48825	42.14
14	Maximum	4396	3.96
15	Minimum	3005	2.70
16	Average	3902.08	3.51

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



*Handwritten signature*

DIRECTOR  
DR.D.Y.P.I.M.E.D.

Varale Maval,Pune 410 507



## **CHAPTER-IV STUDY OF USAGE OF RENEWABLE ENERGY**

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



*Varale*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507



## CHAPTER-V STUDY OF WASTE MANAGEMENT

### 5.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

Photograph of Separate Waste Collection Bin:



### 5.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

Photograph of Sewage Treatment Plant:



*Veigh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## CHAPTER-VI STUDY OF RAIN WATER MANAGEMENT

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

Photograph of Rain Water Carrying Pipe:



Rain Water  
Carrying pipe



*Beigh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507





## CHAPTER-VII STUDY OF GREEN & SUSTAINABLE PRACTICES

### 7.1 Pedestrian Friendly Road:

The Institute has well maintained pedestrian road as to facilitate the easy movement of the students within the campus.

Photograph of Road within campus:



### 7.2 Internal Tree Plantation:

The Institute has well maintained Tree Plantation.

Photograph of Lawn & Tree Plantation:



*Beagh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

**7.3 Provision of Ramp for Divyangajan:**

The Institute has made provision of Ramp for the Divyangajan.

**Photograph of Ramp for Divyangajan:**



**7.4 Creation of Awareness on Energy Conservation by Display of Posters:**

The Institute has displayed posters on Energy Conservation.

**Photograph of Poster on Energy Conservation:**



*Varale*  
**DIRECTOR**  
**DR.D.Y.P.I.M.E.D.**  
**Varale, Maval, Pune 410 507**

# GREEN AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507




Year: 2020-21

Prepared by

## ENRICH CONSULTANTS

Yashashree, 26, Nirmal Bag Society,  
Near Muktangan English School, Parvati, Pune 411009  
Phone: 09890444795 Email: [enrichcons@gmail.com](mailto:enrichcons@gmail.com)



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410-507



## Enrich Consultants

Yashashree, 26, Nirmal Bag Society,  
Near Mukhtangan English School, Parvati, Pune 411 009  
Tel: 09890444795 Email: [enrichcons@gmail.com](mailto:enrichcons@gmail.com)

Ref: ES/DYPIMED/20-21/02

Date: 29/6/2021

### CERTIFICATE

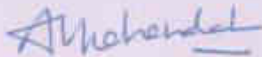
This is to certify that we have conducted Green Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2020-21.

The Institute has adopted following Green & Sustainable Practices:

- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Implementation of Rain Water Management Project
- Good Internal Road
- Tree Plantation in the Campus
- Provision of Ramp for Divyangajan
- Creation of awareness on Ban on Single Use Plastic 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 Enrich Consultants,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale Maval, Pune 410 507

## INDEX

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5	Study of Waste Management	13
6	Study of Rain Water Harvesting	14
7	Study of Green & Sustainable Practices	15

  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507



## ACKNOWLEDGEMENT

We Enrich Consultants, Pune, express our sincere gratitude to the management of Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, for awarding us the assignment of Green Audit of their campus for the Year: 20-21.

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



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507



## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of Electrical Energy; used for equipment.

### 2. Energy Consumed and CO<sub>2</sub> Emission:

No	Parameter	Energy Consumed, kWh	CO <sub>2</sub> emissions, MT
1	Total	22501	20.25
2	Maximum	3036	2.73
3	Minimum	406	0.37
4	Average	1875.08	1.69

### 3. Various Measures Adopted for Energy Conservation:

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

### 4. Usage of Renewable Energy Source:

- The Institute has yet to install Roof Top Solar PV Plant.

### 5. Waste Management:

#### 5.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

#### 5.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

### 6. Rain Water Management:

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

### 7. Green & Sustainable Practices:

- Good Internal Roads
- Internal Tree Plantation
- Provision of Ramp for Divyangajan
- Creation of Awareness on Ban on Single Use Plastic by Display of Posters



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



**8. Assumptions:**

- The Energy Consumption is computed on Electrical Load Utilization factor
- 1 kWh of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere

**9. Reference:**

- For CO<sub>2</sub> calculations: [www.tatopower.com](http://www.tatopower.com)



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507

## ABBREVIATIONS

LED	:	Light Emitting Diode
KLPD	:	Kilo Liters per Day
kWh	:	kilo-Watt Hour
MT	:	Metric Ton
CO <sub>2</sub>	:	Carbon Di Oxide



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## CHAPTER-I INTRODUCTION

### 1.1 Objectives:

1. To study present Energy Consumption
2. To Study the present CO<sub>2</sub> emissions
3. To study Usage of Renewable Energy
4. To study Waste Management practices
5. To study Green & Sustainable Practices

### 1.2 Table No-1: General Details of Institute:

No	Head	Particulars
1	Name	Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development
2	Address	Varale, Talegaon, Pune 410 507
3	Affiliation	Savitribai Phule Pune University



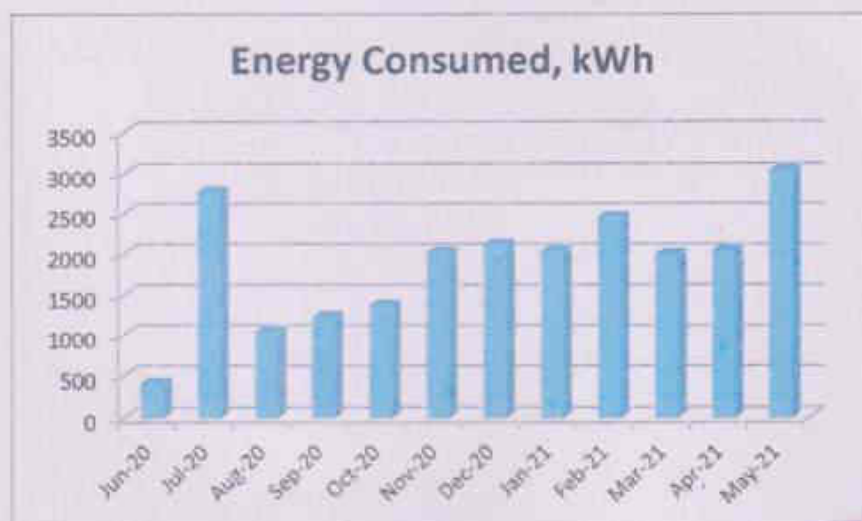
*Varale*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Energy Consumption  
Table No 2: Electrical Energy Analysis- 20-21:

No	Month	Energy Consumed, kWh
1	Jun-20	406
2	Jul-20	2769
3	Aug-20	1036
4	Sep-20	1225
5	Oct-20	1369
6	Nov-20	2015
7	Dec-20	2119
8	Jan-21	2036
9	Feb-21	2456
10	Mar-21	1998
11	Apr-21	2036
12	May-21	3036
13	Total	22501
14	Maximum	3036
15	Minimum	406
16	Average	1875.08

Chart No 1: To study the variation of Month wise Energy Consumed, kWh:



### CHAPTER-III CARBON FOOTPRINTING

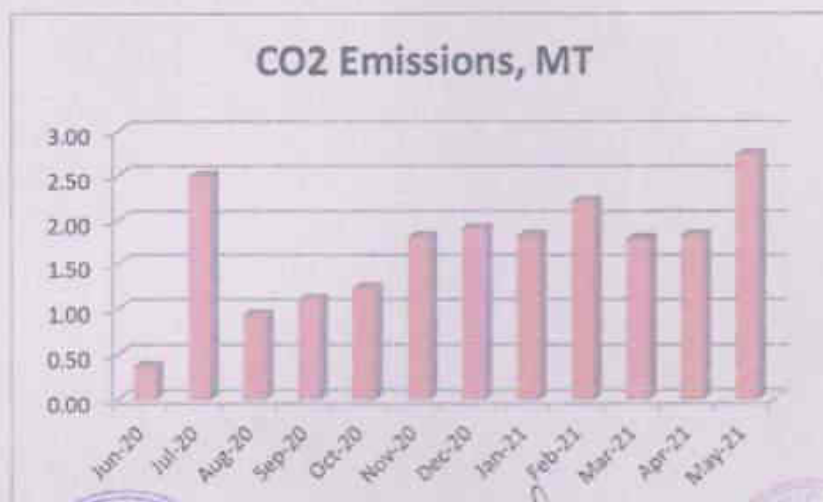
A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. **Basis for computation of CO<sub>2</sub> Emissions:**

- 1 Unit (kWh) of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere.

Table No 3: Month wise CO<sub>2</sub> Emissions:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-20	406	0.37
2	Jul-20	2769	2.49
3	Aug-20	1036	0.93
4	Sep-20	1225	1.10
5	Oct-20	1369	1.23
6	Nov-20	2015	1.81
7	Dec-20	2119	1.91
8	Jan-21	2036	1.83
9	Feb-21	2456	2.21
10	Mar-21	1998	1.80
11	Apr-21	2036	1.83
12	May-21	3036	2.73
13	Total	22501	20.25
14	Maximum	3036	2.73
15	Minimum	406	0.37
16	Average	1875.08	1.69

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



## **CHAPTER-IV STUDY OF USAGE OF RENEWABLE ENERGY**

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



*Dr. D. Y. Patil*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## CHAPTER-V STUDY OF WASTE MANAGEMENT

### 5.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

Photograph of Separate Waste Collection Bin:



### 5.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

Photograph of Sewage Treatment Plant:



*Beigh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varaha, Nival, Pune 410 507

## CHAPTER-VI STUDY OF RAIN WATER MANAGEMENT

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

Photograph of Rain Water Carrying Pipe:



*High*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507





## CHAPTER-VII STUDY OF GREEN & SUSTAINABLE PRACTICES

### 7.1 Pedestrian Friendly Road:

The Institute has well maintained pedestrian road as to facilitate the easy movement of the students within the campus.

Photograph of Road within campus:




### 7.2 Internal Tree Plantation:

The Institute has well maintained Tree Plantation.

Photograph of Lawn & Tree Plantation:



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507

**7.3 Provision of Ramp for Divyangajan:**

The Institute has made provision of Ramp for the Divyangajan.

**Photograph of Ramp for Divyangajan:**



**7.4 Creation of Awareness on Ban on Single Use Plastic by Display of Posters:**

The Institute has displayed posters on Ban on Single Use Plastic.

**Photograph of Poster on Ban on Single Use Plastic:**



*Beeg*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varaha Maval, Pune 410 507



# ENVIRONMENTAL AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507



Year: 2022-23

Prepared by

## ENGRESS SERVICES

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



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## ENGRESS SERVICES

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

## ENVIRONMENTAL AUDIT CERTIFICATE

Certificate No: ES/DYPIMED/22-23/03

Date: 10/7/2023

This is to certify that we have conducted Environmental Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2022-23.

The Institute has adopted following Environment Friendly Practices:

- Maximum Usage of Day Lighting
- Usage of Energy Efficient LED Lighting
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Installation of Rain Water Management Project
- 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.

For Engress Services,

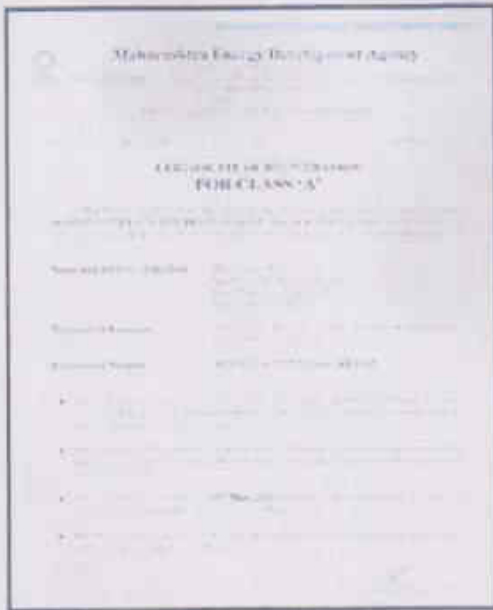


A Y Mehendale,  
Certified Energy Auditor, EA-8192  
ASSOCHAM GEM Certified Professional: GEM: 22/788



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varate.Maval Pune 410 507

### REGISTRATION CERTIFICATES



MEDA REGISTRATION CERTIFICATE

ASSOCHAM GEM CP CERTIFICATE



ISO: 9001-2015 CERTIFICATE

ISO: 14001-2015 CERTIFICATE

*Rajesh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.

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	<b>Annexure</b>	
I	Indoor Air Quality, Noise, & Indoor Comfort Standards	19



*high*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, for awarding us the assignment of Environmental Audit of their campus for the Year: 22-23.

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



*Biagh*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval Pune 410 507



## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of Electrical Energy; used for equipment.

### 2. Pollution due to Day to Day Activities:

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

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

No	Particulars	Value	Unit
1	Annual Energy Purchased	50556	kWh
2	Annual CO <sub>2</sub> Emissions	45.50	MT

### 4. Various Measures Adopted for Environmental Conservation:

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

### 5. Usage of Renewable Energy:

- The Institute has installed Solar PV based Street Lights.

### 6. Indoor Air Quality Parameters:

No	Parameter/Value	AQI	PM-2.5	PM-10
1	Maximum	63	37	45
2	Minimum	56	34	39

### 7. Indoor Comfort Condition Parameters:

No	Parameter/Value	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Maximum	27.2	71	132	45
2	Minimum	27.1	69	105	41.9

### 8. Waste Management:

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



*[Signature]*  
 DIRECTOR  
 DR.D.Y.P.I.M.E.D.  
 Varale, Maval, Pune 410 507





### 9. Rain Water Management:

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

### 10. Eco Friendly Practices:

- Internal Tree Plantation
- Creation of Awareness on Water Conservation by Display of Posters

### 11. Assumptions:

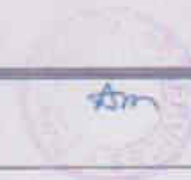
- The Energy Consumption is computed on Electrical Load Utilization factor
- 1 kWh of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere

### 12. References:

1. For CO<sub>2</sub> calculations: [www.tatapower.com](http://www.tatapower.com)
2. For Various Indoor Air Parameters: [www.ishrae.com](http://www.ishrae.com)
3. For AQI Standards: [www.cpcb.com](http://www.cpcb.com)



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
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## ABBREVIATIONS

AQI	: Air Quality Index
KLPD	: Kilo Liters per Day
LED	: Light Emitting Diode
kWh	: kilo-Watt Hour
MT	: Metric Ton
CO <sub>2</sub>	: Carbon Di Oxide
ISHRAE	: The Indian Society of Heating, Refrigerating & Air conditioning Engineers
GPCB	: Central Pollution Control Board
PM	: Particulate Matter



*Beig*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varate, Maval, Pune 410 507



## 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

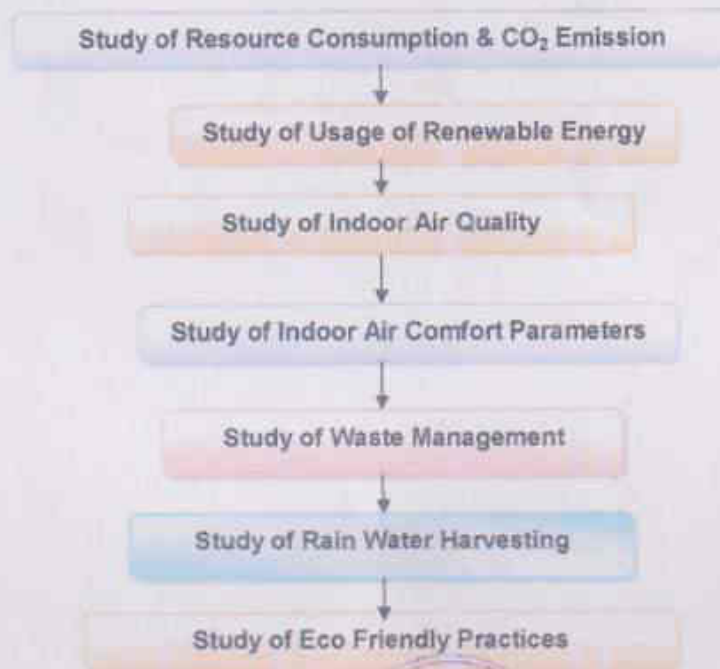
#### 1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are complied 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:



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

1.5 Google Earth Image:



College  
Campus



*[Signature]*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

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

The Institute consumes following Natural/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:



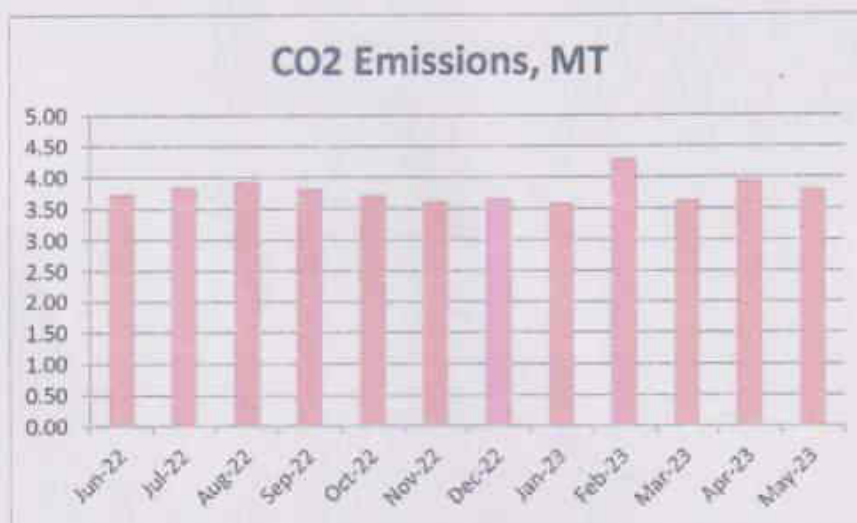
We compute the Generation of CO<sub>2</sub> on account of consumption of Electrical Energy as under. The basis of Calculation for CO<sub>2</sub> emissions due to Electrical Energy are: 1 Unit (kWh) of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere.


Table No 1: Electrical Energy Consumption & CO<sub>2</sub> Emission: 22-23:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-22	4136	3.72
2	Jul-22	4269	3.84
3	Aug-22	4369	3.93
4	Sep-22	4236	3.81
5	Oct-22	4119	3.71
6	Nov-22	3998	3.60
7	Dec-22	4069	3.66
8	Jan-23	3969	3.57

9	Feb-23	4769	4.29
10	Mar-23	4036	3.63
11	Apr-23	4369	3.93
12	May-23	4215	3.79
13	Total	50556	45.50
14	Maximum	4769	4.29
15	Minimum	3969	3.57
16	Average	4213	3.79

Chart No 2: To study CO<sub>2</sub> Emission:



  
 DIRECTOR  
 DR.D.Y.P.I.M.E.D.  
 Varale, Maval, Pune 410 507



### CHAPTER-III STUDY OF USAGE OF RENEWABLE ENERGY

The Institute has installed Solar PV based Street Light Fittings.

Photograph of Solar Street Light Fitting:



*Varale*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507



## 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.**

According to Section 2(b) of Air (Prevention and control of pollution) Act, 1981 'air pollutant' has been defined as 'the presence in the atmosphere of any air pollutant.'

As per Section 2(a) of Air (Prevention and control of pollution) Act, 1981 'air pollutant' has been defined as 'any solid, liquid or gaseous substance [(including noise)] present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment

### 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.

We present herewith following important Parameters.

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

Table No 2: Indoor Air Quality Parameters:

No	Location	AQI	PM-2.5	PM-10
1	Accounts Section	61	37	44
2	Exam Control Room	60	36	38
3	Computer Lab	63	37	45
4	Class Room	60	34	39
5	Faculty Room	56	34	39
	Maximum	63	37	45
	Minimum	56	34	39



DIRECTOR

DR.D.Y.P.I.M.E.D.

Varaie, Maval, Pune 410 507





## CHAPTER-V STUDY OF INDOOR AIR 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 3: Study of Indoor Comfort Parameters:

No	Location	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Accounts Section	27.1	70	124	44.3
2	Exam Control Room	27.2	69	105	42
3	Computer Lab	27.1	69	132	41.9
4	Class Room	27.1	71	126	45
5	Faculty Room	27.2	71	112	43.9
	Maximum	27.2	71	132	45
	Minimum	27.1	69	105	41.9



  
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## CHAPTER-VI STUDY OF WASTE MANAGEMENT

### 6.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

Photograph of Separate Waste Collection Bin:



### 6.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

Photograph of Sewage Treatment Plant:



*High*  
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### 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 rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

Photograph of Rain Water Carrying Pipe:



Rain Water  
Carrying Pipe



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Varale,Maval,Pune-410 507

## CHAPTER VIII STUDY OF ENVIRONMENT FRIENDLY INITIATIVES

### 8.1 Internal Tree Plantation:

The Institute has well maintained Tree plantation.

Photograph of Tree Plantation:



### 8.2 Creation of Awareness on Water Conservation by Display of Posters:

The Institute has displayed posters on Water Conservation.

Photograph of Poster on Water Conservation:



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DR.D.Y.P.I.M.E.D.  
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## ANNEXURE-I:

### AIR QUALITY, NOISE & INDOOR COMFORT STANDARDS:

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


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 +

#### 2. Recommended Noise Level Standards:

No	Location	Noise Level dB
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:

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

  
 DIRECTOR  
 DR.D.Y.P.I.M.E.D.  
 Varale, Maval, Pune 410 507



# ENVIRONMENTAL AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507




Year: 2021-22

Prepared by

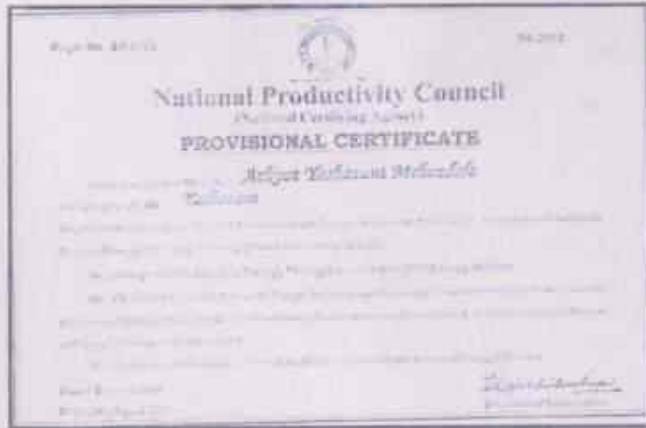
## **ENGRESS SERVICES**

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



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
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### REGISTRATION CERTIFICATES



BEE AUDITOR CERTIFICATE



MEDA REGIATRION CERTIFICATE



ASSOCHAM GEM CP CERTIFICATE

*high*  
DIRECTOR

DR. D. Y. P. I. M. E. D.

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## ENGRESS SERVICES

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

Ref: ES/ DYPIMED/21-22/03

Date: 20/6/2022

### CERTIFICATE

This is to certify that we have conducted Environmental Audit at Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, in the year: 2021-22.

The Institute has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Lighting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Segregation of Waste at source
- Installation of Sewage Treatment Plant of Capacity 50 KLPD
- Implementation of Rain Water Management Project
- 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,



A Y Mehendale,  
Certified Energy Auditor, EA-8192  
ASSOCHAM GEM Certified Professional: GEM: 22/788



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DR.D.Y.P.I.M.E.D.  
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DR.D.Y.P.I.M.E.D.  
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## **ACKNOWLEDGEMENT**

We Engress Services, Pune, express our sincere gratitude to the management of Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, for awarding us the assignment of Environmental Audit of their campus for the Year: 21-22.

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

  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## EXECUTIVE SUMMARY

1. Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development, Talegaon, consumes Energy in the form of Electrical Energy; used for equipment.

### 2. Pollution due to Day to Day Activities:

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

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

No	Parameter	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Total	46825	42.14
2	Maximum	4396	3.96
3	Minimum	3005	2.70
4	Average	3902.08	3.51

### 4. Various Measures Adopted for Environmental Conservation:

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

### 5. Usage of Renewable Energy:

- The Institute has yet to install Roof Top Solar PV Plant.

### 6. Indoor Air Quality Parameters:

No	Parameter/Value	AQI	PM-2.5	PM-10
1	Maximum	96	57	73
2	Minimum	89	52	69

### 7. Indoor Comfort Condition Parameters:

No	Parameter/Value	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Maximum	28.1	52	169	45
2	Minimum	27.4	50	109	41.9

  
DIRECTOR

## 8. Waste Management:

### 8.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

### 8.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

## 9. Rain Water Management:

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

## 10. Eco Friendly Practices:

- Internal Tree Plantation
- Creation of Awareness on Energy Conservation by Display of Posters

## 11. Assumptions:

- The Energy Consumption is computed on Electrical Load Utilization factor
- 1 kWh of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere

## 12. References:

1. For CO<sub>2</sub> calculations: [www.istapower.com](http://www.istapower.com)
2. For Various Indoor Air Parameters: [www.ishrae.com](http://www.ishrae.com)
3. For AQI Standards: [www.cpcb.com](http://www.cpcb.com)

  
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## ABBREVIATIONS

AQI	:	Air Quality Index
KLPD	:	Kilo Liters Per Day
LED	:	Light Emitting Diode
kWh	:	kilo-Watt Hour
MT	:	Metric Ton
CO <sub>2</sub>	:	Carbon Di Oxide
ISHRAE	:	The Indian Society of Heating, Refrigerating & Air conditioning Engineers
CPCB	:	Central Pollution Control Board
PM	:	Particulate Matter



  
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## CHAPTER-I INTRODUCTION

### 1.1 Important Definitions:

#### 1.1.1 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

#### 1.1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are complied 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"*

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

#### 1.1.4. Relevant Environmental Laws in India: Table No-1:

1927	The Indian Forest Act
1972	The Wildlife Protection Act
1974	The Water (Prevention and Control of Pollution) Act
1977	The Water (Prevention & Control of Pollution) Cess Act
1980	The Forest (Conservation) Act
1981	The Air (Prevention and Control of Pollution) Act
1986	The Environment Protection Act
1991	The Public Liability Insurance Act
2002	The Biological Diversity Act
2010	The National Green Tribunal Act

#### 1.1.5. Some Important Environmental Rules in India: Table No-2:

1989	Hazardous Waste (Management and Handling) Rules
1989	Manufacture, Storage and Import of Hazardous Chemical Rules
2000	Municipal Solid Waste (Management and Handling) Rules
1998	The Biomedical Waste (Management and Handling) Rules
1999	The Environment (Siting for Industrial Projects) Rules
2000	Noise Pollution (Regulation and Control) Rules
2000	Ozone Depleting Substances (Regulation and Control) Rules
2011	E-waste (Management and Handling) Rules

2011	National Green Tribunal (Practices and Procedure) Rules
2011	Plastic Waste (Management and Handling) Rules

**1.1.6 National Environmental Plans & Policy Documents: Table No-3:**

1.	National Forest Policy, 1988
2.	National Water Policy, 2002
3.	National Environment Policy or NEP (2006)
4.	National Conservation Strategy and Policy Statement on Environment and Development, 1992
5.	Policy Statement for Abatement of Pollution (1992)
6.	National Action Plan on Climate Change
7.	Vision Statement on Environment and Human Health
8.	Technology Vision 2030 (The Energy Research Institute )
9.	Addressing Energy Security and Climate Change (MoEF and Bureau of Energy Efficiency)
10.	The Road to Copenhagen: India's Position on Climate Change Issues (MoEF)

**1.2 Objectives:**

1. To study Recourse Consumption and CO<sub>2</sub> Emission
2. To Study CO<sub>2</sub> Emission Reduction
3. To Study Indoor Air Quality
4. To study Indoor Comfort Parameters
5. To Study Waste Management Practices
6. To Study Rain Water Harvesting
7. To study Environment Friendly Practices

**1.3 Google Earth Image:**




College  
Campus

*[Signature]*  
 DIRECTOR  
 DR.D.Y.P.I.M.E.D.  
 Varale, Maval, Pune 410 507



1.4 Table No 4: General Details of Institute:

No	Head	Particulars
1	Name	Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development
2	Address	Varale, Talegaon, Pune 410 507
3	Affiliation	Savitribai Phule Pune University

  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507





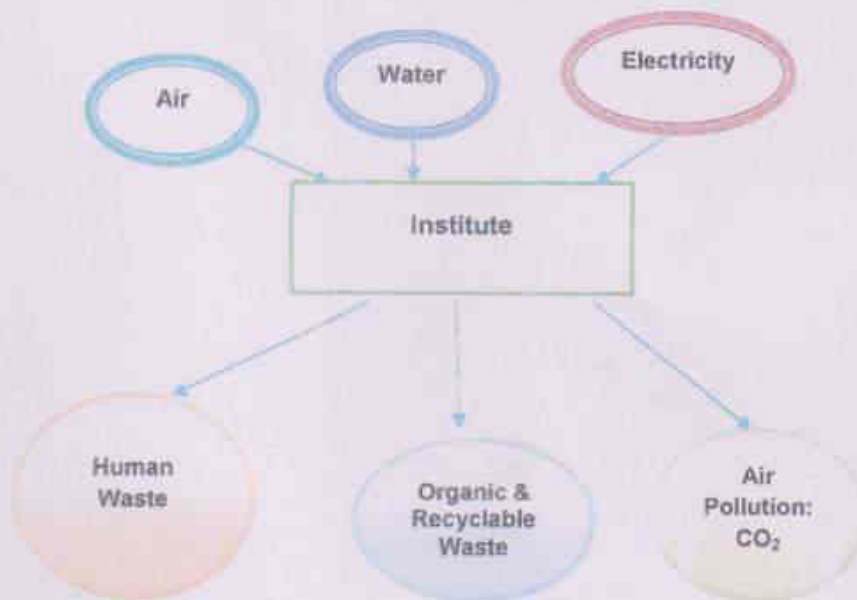
## CHAPTER-II STUDY OF RESOURCE CONSUMPTION & CO<sub>2</sub> EMISSION

The Institute consumes following Natural/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:



We compute the Generation of CO<sub>2</sub> on account of consumption of Electrical Energy as under. The basis of Calculation for CO<sub>2</sub> emissions due to Electrical Energy are: 1 Unit (kWh) of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere.

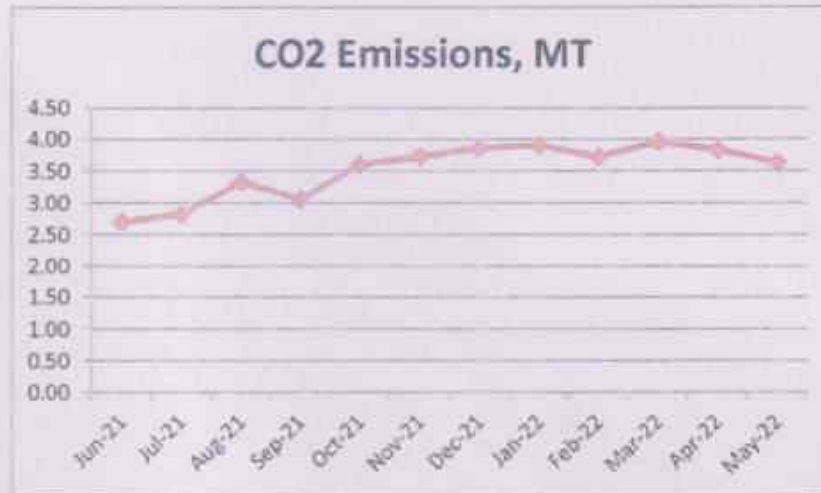
Table No 5: Electrical Energy Consumption & CO<sub>2</sub> Emission: 21-22:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-21	3005	2.70
2	Jul-21	3136	2.82
3	Aug-21	3698	3.33
4	Sep-21	3397	3.06
5	Oct-21	4006	3.61
6	Nov-21	4136	3.72
7	Dec-21	4285	3.86
8	Jan-22	4336	3.90

*high*  
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9	Feb-22	4136	3.72
10	Mar-22	4396	3.96
11	Apr-22	4258	3.83
12	May-22	4036	3.63
13	Total	46825	42.14
14	Maximum	4396	3.96
15	Minimum	3005	2.70
16	Average	3902.08	3.51

Chart No 2: To study CO<sub>2</sub> Emission:



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### **CHAPTER-III**

## **STUDY OF USAGE OF RENEWABLE ENERGY**

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

*High*  
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## 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.

According to Section 2(b) of Air (Prevention and control of pollution) Act, 1981 'air pollution' has been defined as 'the presence in the atmosphere of any air pollutant.'

As per Section 2(a) of Air (Prevention and control of pollution) Act, 1981 'air pollutant' has been defined as 'any solid, liquid or gaseous substance [(including noise)] present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment

### 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.

We present herewith following important Parameters.

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

Table No 6: Indoor Air Quality Parameters:

No	Location	AQI	PM-2.5	PM-10
1	Director Cabin	95	57	73
2	Board Room	93	56	73
3	Class Room-1	89	52	70
4	Class Room-2	94	56	73
5	Lab-1	96	56	69
	Maximum	96	57	73
	Minimum	89	52	69

*High*  
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DR.D.Y.P.I.M.E.D.  
Vasale, Marol Pune 410 507

## CHAPTER-V STUDY OF INDOOR AIR 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 7: Study of Indoor Comfort Parameters:

No	Location	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Director Cabin	27.4	50	110	41.9
2	Board Room	27.4	50	114	42.6
3	Class Room-1	27.5	51	109	44
4	Class Room-2	28.1	50	169	44.3
5	Lab-1	27.5	52	136	42.6
	Maximum	28.1	52	169	45
	Minimum	27.4	50	109	41.9

  
DIRECTOR  
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Varale, Maval, Pune 410 507

## CHAPTER-VI STUDY OF WASTE MANAGEMENT

### 6.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

Photograph of Separate Waste Collection Bin:



### 6.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

Photograph of Sewage Treatment Plant:



*Dr. D. Y. Patil*  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507

## CHAPTER-VII STUDY OF RAIN WATER MANAGEMENT

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

Photograph of Rain Water Carrying Pipe:



Rain Water  
Carrying pipe

  
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Varale, Maval, Pune 410 507

## CHAPTER VIII STUDY OF ENVIRONMENT FRIENDLY INITIATIVES

### 8.1 Internal Tree Plantation:

The Institute has well maintained Tree plantation.

Photograph of Lawn & Tree Plantation:



### 8.2 Creation of Awareness on Energy Conservation by Display of Posters:

The Institute has displayed posters on Energy Conservation.

Photograph of Poster on Energy Conservation:



*Dr. D. Y. Patil*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale, Maval, Pune 410 507





## ANNEXURE-I:

### AIR QUALITY, NOISE & INDOOR COMFORT STANDARDS:

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

No	Category	AQI Value	Concentration Range, PM 2.5	Concentration Range, PM 10
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#### 2. Recommended Noise Level Standards:

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8	Restaurants	50-55

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

No	Parameter	Value
1	Temperature	Less Than 33°C
2	Humidity	Less Than 70%

*Bugh*  
DIRECTOR  
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Varate, Maval, Pune 410 507

# ENVIRONMENTAL AUDIT REPORT

of

Dr. D. Y. Patil Educational Federation,  
**DR. D. Y. PATIL INSTITUTE OF MANAGEMENT AND  
ENTREPRENEUR DEVELOPMENT,**  
Varale, Talegaon, Pune 410 507




Year: 2020-21

Prepared by

## ENRICH CONSULTANTS

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Near Muktagan English School, Parvati, Pune 411009  
Phone: 09890444795 Email: [enrichcons@gmail.com](mailto:enrichcons@gmail.com)

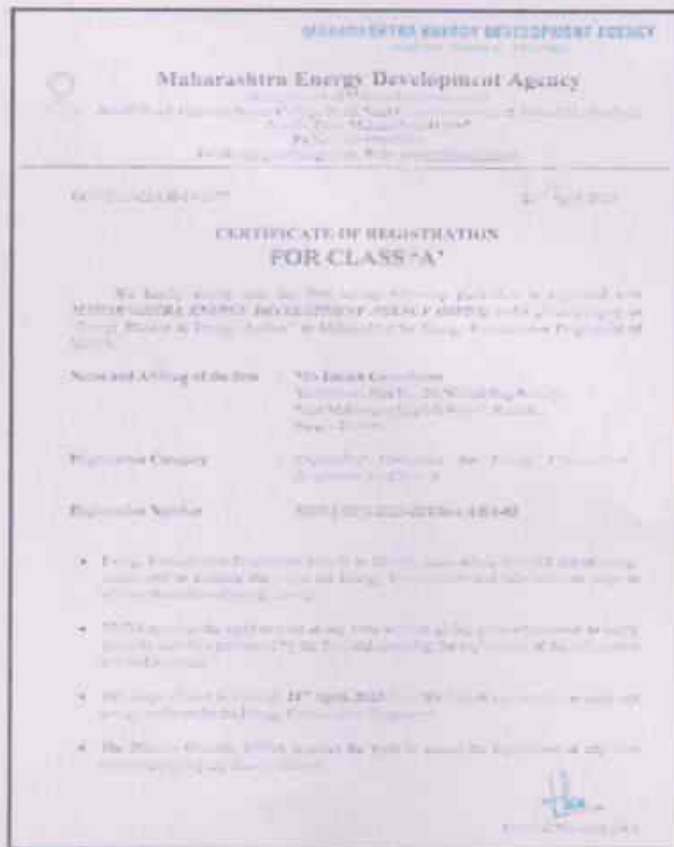


  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
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### REGISTRATION CERTIFICATES



### BEE ENERGY AUDITOR CERTIFICATE



*Dr. D. Y. Patil*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
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### MEDA EMPANELMENT CERTIFICATE



## Enrich Consultants

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- Creation of awareness on Ban on single Use Plastic 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 Enrich Consultants,



A Y Mehendale,  
Certified Energy Auditor  
EA-8192



  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507

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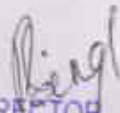


## ACKNOWLEDGEMENT

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

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

No	Parameter	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Total	22501	20.25
2	Maximum	3036	2.73
3	Minimum	406	0.37
4	Average	1875.08	1.69

### 4. Various Measures Adopted for Environmental Conservation:

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- Usage of BEE STAR Rated Equipment

### 5. Usage of Renewable Energy:

- The Institute has yet to install Roof Top Solar PV Plant.

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The Waste is segregated at source by providing Waste collection bins at important locations.

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*Dr. D. Y. Patil*  
DIRECTOR  
DR.D.Y.P.I.M.E.D.  
Varale,Maval,Pune 410 507

### 8. Rain Water Management:

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### 11. References:

1. For CO<sub>2</sub> calculations: [www.tatapower.com](http://www.tatapower.com)
2. For AQI Standards: [www.cpcb.com](http://www.cpcb.com)



  
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## ABBREVIATIONS

AQI	: Air Quality Index
KLPD	: Kilo Liters Per Day
LED	: Light Emitting Diode
kWh	: kilo-Watt Hour
MT	: Metric Ton
CO <sub>2</sub>	: Carbon Di Oxide
ISHRAE	: The Indian Society of Heating, Refrigerating & Air conditioning Engineers
CPCB	: Central Pollution Control Board
PM	: Particulate Matter



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## CHAPTER-I INTRODUCTION

### 1.1 Important Definitions:

#### 1.1.1 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

#### 1.1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are complied 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"*

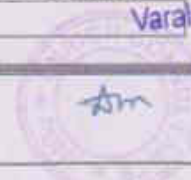
1.1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

#### 1.1.4. Relevant Environmental Laws in India: Table No-1:

1927	The Indian Forest Act
1972	The Wildlife Protection Act
1974	The Water (Prevention and Control of Pollution) Act
1977	The Water (Prevention & Control of Pollution) Cess Act
1980	The Forest (Conservation) Act
1981	The Air (Prevention and Control of Pollution) Act
1986	The Environment Protection Act
1991	The Public Liability Insurance Act
2002	The Biological Diversity Act
2010	The National Green Tribunal Act

#### 1.1.5. Some Important Environmental Rules in India: Table No-2:

1989	Hazardous Waste (Management and Handling) Rules
1989	Manufacture, Storage and Import of Hazardous Chemical Rules
2000	Municipal Solid Waste (Management and Handling) Rules
1998	The Biomedical Waste (Management and Handling) Rules
1999	The Environment (Siting for Industrial Projects) Rules
2000	Noise Pollution (Regulation and Control) Rules
2000	Ozone Depleting Substances (Regulation and Control) Rules
2011	E-waste (Management and Handling) Rules



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2011	National Green Tribunal (Practices and Procedure) Rules
2011	Plastic Waste (Management and Handling) Rules

**1.1.6 National Environmental Plans & Policy Documents: Table No-3:**

1.	National Forest Policy, 1988
2.	National Water Policy, 2002
3.	National Environment Policy or NEP (2006)
4.	National Conservation Strategy and Policy Statement on Environment and Development, 1992
5.	Policy Statement for Abatement of Pollution (1992)
6.	National Action Plan on Climate Change
7.	Vision Statement on Environment and Human Health
8.	Technology Vision 2030 (The Energy Research Institute )
9.	Addressing Energy Security and Climate Change (MoEF and Bureau of Energy Efficiency)
10	The Road to Copenhagen; India's Position on Climate Change Issues (MoEF)

**1.2 Objectives:**

1. To study Recourse Consumption and CO<sub>2</sub> Emission
2. To Study CO<sub>2</sub> Emission Reduction
3. To Study Indoor Air Quality
4. To Study Waste Management Practices
5. To Study Rain Water Harvesting
6. To study Environment Friendly Practices

**1.3 Table No 4: General Details of Institute:**

No	Head	Particulars
1	Name	Dr. D. Y. Patil Educational Federation, Dr. D. Y. Patil Institute of Management and Entrepreneur Development
2	Address	Varale, Talegaon, Pune 410 507
3	Affiliation	Savitribai Phule Pune University



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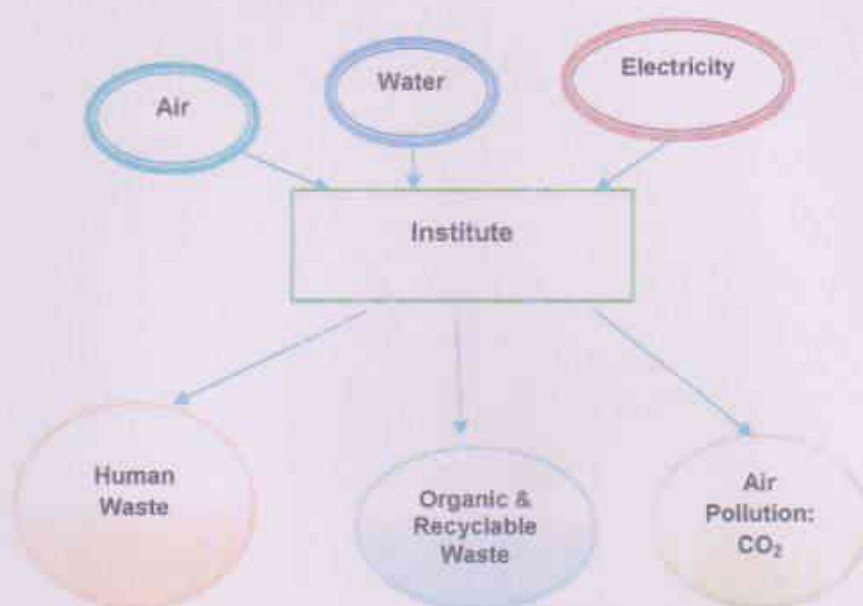
## CHAPTER-II STUDY OF RESOURCE CONSUMPTION & CO<sub>2</sub> EMISSION

The Institute consumes following Natural/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:



We compute the Generation of CO<sub>2</sub> on account of consumption of Electrical Energy as under. The basis of Calculation for CO<sub>2</sub> emissions due to Electrical Energy are: 1 Unit (kWh) of Electrical Energy releases 0.9 Kg of CO<sub>2</sub> into atmosphere.

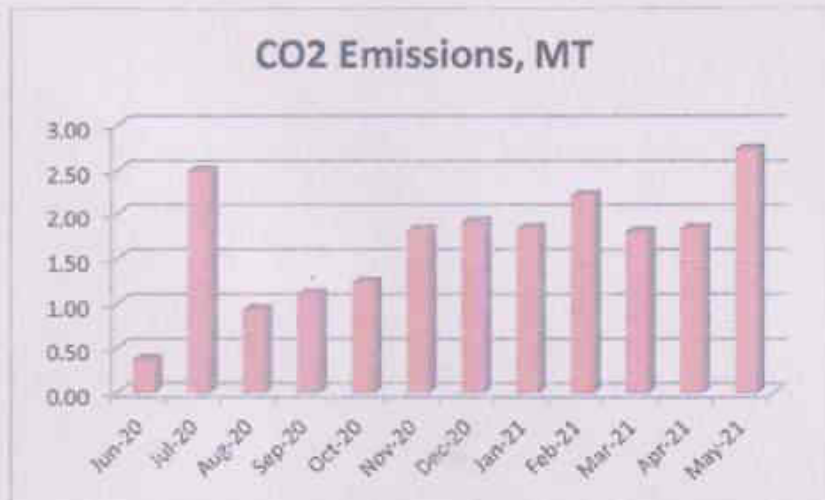
Table No 5: Electrical Energy Consumption & CO<sub>2</sub> Emission: 20-21:

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jun-20	406	0.37
2	Jul-20	2769	2.49
3	Aug-20	1036	0.93
4	Sep-20	1225	1.10
5	Oct-20	1369	1.23
6	Nov-20	2015	1.81
7	Dec-20	2119	1.91

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8	Jan-21	2036	1.83
9	Feb-21	2456	2.21
10	Mar-21	1998	1.80
11	Apr-21	2036	1.83
12	May-21	3036	2.73
13	Total	22501	20.25
14	Maximum	3036	2.73
15	Minimum	408	0.37
16	Average	1875.08	1.69

Chart No 2: To study CO<sub>2</sub> Emission:



  
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### CHAPTER-III STUDY OF USAGE OF RENEWABLE ENERGY

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



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## 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.

According to Section 2(b) of Air (Prevention and control of pollution) Act, 1981 'air pollutant' has been defined as 'the presence in the atmosphere of any air pollutant.'

As per Section 2(a) of Air (Prevention and control of pollution) Act, 1981 'air pollutant' has been defined as 'any solid, liquid or gaseous substance [(including noise)] present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment

### 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.

We present herewith following important Parameters.

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

Table No 6: Indoor Air Quality Parameters:

No	Location	AQI	PM-2.5	PM-10
1	Exam Room	106	66	81
2	H R Department	120	67	81
3	Faculty Room	110	64	85
4	Computer Lab	119	68	80
5	Library	109	82	83
	Maximum	120	67	85
	Minimum	106	62	80

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## CHAPTER-VI STUDY OF WASTE MANAGEMENT

### 6.1 Segregation of Waste at Source:

The Waste is segregated at source by providing Waste collection bins at important locations.

Photograph of Separate Waste Collection Bin:



### 6.2 Liquid Waste Management:

The Institute has installed Sewage Treatment Plant of Capacity 50 KLPD. The treated Water is used for Gardening purpose.

Photograph of Sewage Treatment Plant:



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## CHAPTER-VII STUDY OF RAIN WATER MANAGEMENT

The rain water falling on the terrace is collected through the pipes and is used for increasing the underground water table.

Photograph of Rain Water Carrying Pipe:



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## CHAPTER VIII STUDY OF ENVIRONMENT FRIENDLY INITIATIVES

### 8.1 Internal Tree Plantation:

The Institute has well maintained Tree plantation.

Photograph of Lawn & Tree Plantation:



### 8.2 Creation of Awareness on Ban on Single Use Plastic by Display of Posters:

The Institute has displayed posters on Ban on Single Use Plastic.

Photograph of Poster on Ban on Single Use Plastic:



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**ANNEXURE-I:  
AIR QUALITY STANDARDS:**

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

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 +



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