



Pune District Education Association's

College of Ayurved & Research Centre

(I.D.No. P.U./P.N./AYU./081/1990)

Sector No. 25, Pradhikaran, Nigdi, Pune-411 044 (Maharashtra State), India.

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- Energy Audit Certificates
- Green Audit Certificates
- Environmental Audit certificates

ENGRESS SERVICES

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

ENERGY AUDIT CERTIFICATE

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

Date: 15/5/2023

This is to certify that we have conducted Energy Audit at Pune District Education Association, College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune, in the Academic year 2022-23.

The College has adopted following Energy Efficient Practices:

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEE STAR Rated equipment
- Installation of 20 kWp Roof Top Solar PV Plant
- Installation of 2000 LPD Solar Thermal Water Heating System at Hostel Block

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

For Engress Services,



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



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

GREEN AUDIT CERTIFICATE

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

Date: 15/5/2023

This is to certify that we have conducted Green Audit at Pune District Education Association,
College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune, in the Year
2022-23.

The College has adopted following Green & Sustainable Practices:

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEE STAR Rated equipment
- Installation of 20 kWp Roof Top Solar PV Plant
- Installation of 2000 LPD Solar Thermal Water Heating System
- Segregation of Waste at source
- Provision of Bio Composting Bed
- Implementation of Rain Water Management Project
- Good Internal Road
- Internal Tree Plantation
- Creation of awareness about Energy Conservation by Display of Posters

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

For Engress Services,



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



ENGRESS SERVICES

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Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com
MEDA Registration No: ECN/2022-23/CR-43/1709
ISO: 9001-2015 Certified (Cert No: 23EQKC13),
ISO: 14001-2015 Certified (Cert No: 23EEKW20)

ENVIRONMENTAL AUDIT CERTIFICATE

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

Date: 15/5/2023

This is to certify that we have conducted Environmental Audit at Pune District Education Association, College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune, in the Year 2022-23.

The College has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEF STAR Rated equipment
- Installation of 20 kWp Roof Top Solar PV Plant
- Installation of 2000 LPD Solar Thermal Water Heating System
- Segregation of Waste at source
- Provision of Bio Composting Bed
- Implementation of Rain Water Management Project
- Good Internal Road
- Internal Tree Plantation
- Creation of awareness about Energy Conservation by Display of Posters

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

For Engress Services,



A Y Mehendale,

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



ENERGY AUDIT REPORT
of
Pune District Education Association,
COLLEGE OF AYURVEDA & RESEARCH CENTRE,
Sector 25, Pradhikaran Nigdi, Pune 411 044



Year: 2022-23

Prepared by:

ENGRESS SERVICES

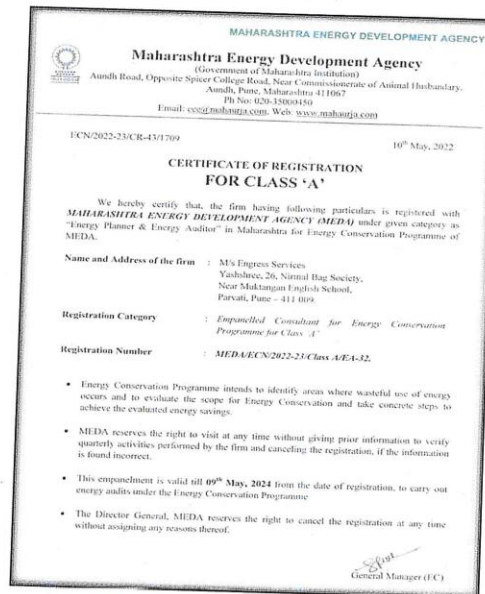
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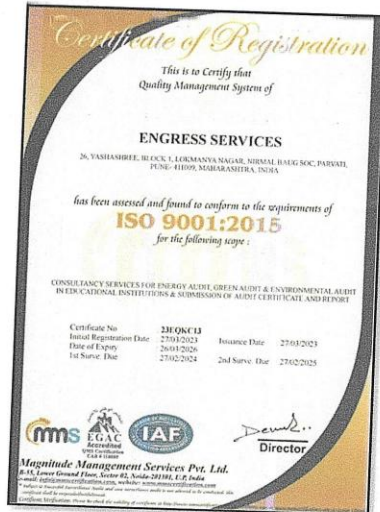
REGISTRATION CERTIFICATES



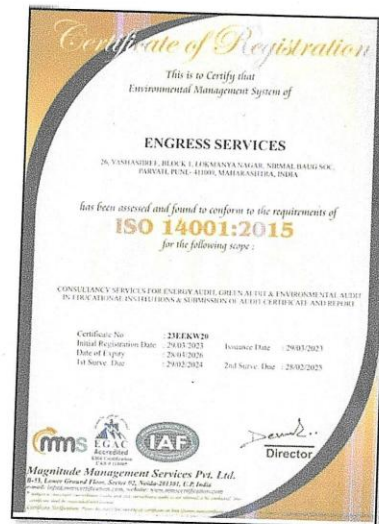
AUDITOR CERTIFICATE



MEDA Registration Certificate



ISO: 9001-2015 Certificate



ISO: 14001-2015 Certificate

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ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Pune District Education Association, College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune, for awarding us the assignment of Energy Audit of their Campus for the Year: 2022-23.

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

EXECUTIVE SUMMARY

1. Pune District Education Association College of Ayurveda & Research Centre, Nigdi, Pune consumes Energy in the form of **Electrical Energy**; used for Electrical Equipment.

2. Present Connected Load & Energy Consumption:

No	Particulars	Value	Unit
1	Total Connected Load	66.38	kW
2	Annual Energy Purchased	42232	kWh

3. Energy Performance Index:

No	Particulars	Value	Unit
1	Total Annual Energy Purchased	42232	kWh
2	Annual Energy Generated	2400	kWh
3	Annual Energy Consumed=1+2	44632	kWh
4	Total Built up area of College	4160.58	m ²
5	Energy Performance Index =(3) / (4)	10.73	kWh/m ²

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

No	Particulars	Value	Unit
1	Lighting Power Density	1.01	W/m ²
2	% of Usage of LED Lighting to Total Lighting Load	21.59	%

5. Renewable Energy & Energy Efficiency Projects:

- Usage of Energy Efficient LED fittings
- Installation of **20 kWp** Roof Top Solar PV Plant
- Installation of **2000 LPD** Solar Thermal Water Heating System

6. Assumptions:

1. **1 kWh** of Electrical Energy releases **0.9 Kg of CO₂** into atmosphere
2. Energy consumption computed based on Load Utilization Factor
3. Energy generated by Roof Top Solar PV Plant: **4 kWh/kWp per Day**
4. Annual Solar Energy generation Days: **30 Nos** (Plant Installed in March-2023)

7. References:

- Audit Methodology: www.mahaurja.com
- Energy Conservation Building Code: ECBC-2017: www.beeindia.gov.in
- For CO₂ Emissions: www.tatapower.com
- For Solar PV Energy generation: www.solarrooftop.gov.in

ABBREVIATIONS

LED	: Light Emitting Diode
PDEA	: Pune Distinct Education Association
MSEDCL	: Maharashtra State Electricity Distribution Company Limited
BEE	: Bureau of Energy Efficiency
ECBC	: Energy Conservation Building Code
MEDA	: Maharashtra Energy Development Agency
PV	: Photo Voltaic
Kg	: Kilo Gram
kWh	: kilo-Watt Hour
CO ₂	: Carbon Di Oxide
MT	: Metric Ton

CHAPTER-I INTRODUCTION

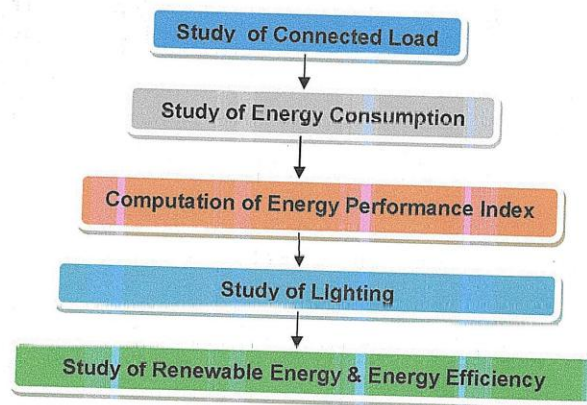
1.1 Introduction:

An Energy Audit is conducted at Pune District Education Association College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune

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)
- Tata Power: www.tatapower.com

1.2 Audit Procedural Steps:



1.3 College Location Image:



College
Campus

CHAPTER-II

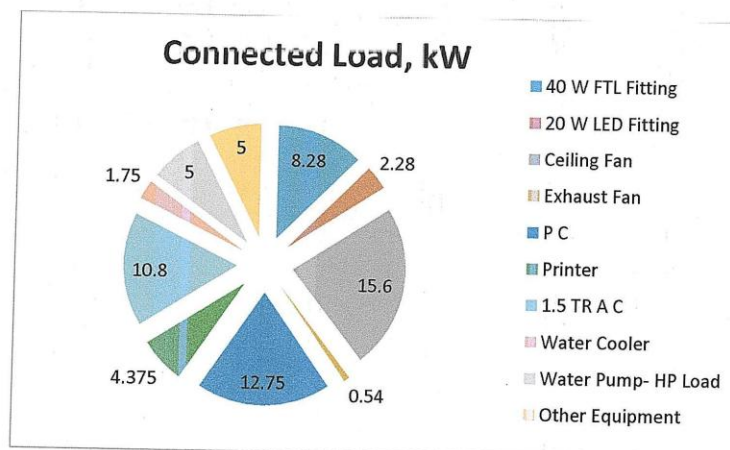
STUDY OF CONNECTED LOAD

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

Table No 1: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/unit	Load, kW
1	40 W FTL Fitting	207	40	8.28
2	20 W LED Fitting	114	20	2.28
3	Ceiling Fan	240	65	15.6
4	Exhaust Fan	10	54	0.54
5	P C	85	150	12.75
6	Printer	25	175	4.375
7	1.5 TR A C	6	1800	10.8
8	Water Cooler	5	350	1.75
9	Water Pump- HP Load	1	5000	5
10	Other Equipment	20	250	5
11	Total			66.38

Chart No 1: Study of Connected Load:



CHAPTER-III

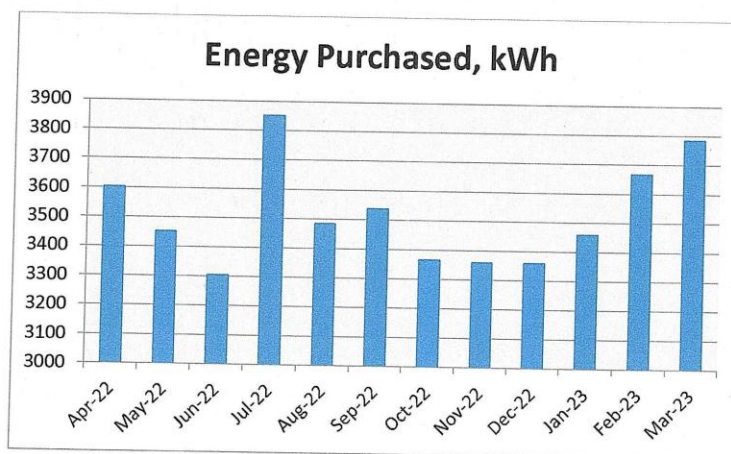
STUDY OF PRESENT ENERGY CONSUMPTION

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

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

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Apr-22	3603	3.24
2	May-22	3452	3.11
3	Jun-22	3305	2.97
4	Jul-22	3852	3.47
5	Aug-22	3485	3.14
6	Sep-22	3538	3.18
7	Oct-22	3367	3.03
8	Nov-22	3359	3.02
9	Dec-22	3359	3.02
10	Jan-23	3459	3.11
11	Feb-23	3668	3.30
12	Mar-23	3785	3.41
13	Total	42232	38.01
14	Maximum	3852	3.47
15	Minimum	3305	2.97
16	Average	3519.33	3.17

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



CHAPTER-IV

STUDY OF ENERGY PERFORMANCE INDEX

Energy Performance Index (EPI): 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 College as under:

Table No 3: Computation of Energy Performance Index:

No	Particulars	Value	Unit
1	Total Annual Energy Purchased	42232	kWh
2	Energy Generated by Solar PV Plant	2400	kWh
3	Total Energy Consumed= 1+2	44632	kWh
4	Total Built up area of College	4160.58	m ²
5	Energy Performance Index = (3) / (4)	10.73	kWh/m ²

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 metro (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 (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 College.

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

Table No 4: Computation of Lighting Power Density: Dravyaguna Room:

No	Particulars	Value	Unit
1	Qty of 40 W FTL Fittings	3	Nos
2	Total Load of 3 Nos, 40 W FTL Fitting	120	W/unit
3	Qty of 20 W LED Fittings	3	Nos
4	Total Load of 3 Nos, 20 W LED Fittings	60	W/unit

5	Total Lighting Load= 2+4	180	Watts
6	Built up area of Class Room:	176.52	m ²
7	Lighting Power Density = (3)/(4)	1.01	W/m ²

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

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	207	Nos
2	Load/unit of 40 W FTL Fitting	40	W/unit
3	Total Load of 40 W FTL Fittings	8.28	KW
4	No of 20 W LED Fittings	114	Nos
5	Load/unit of 20 W LED Fitting	20	W/unit
6	Total Load of 20 W LED Fittings	2.28	KW
7	Total LED Lighting Load=8	2.28	kW
8	Total Lighting Load=3+6	10.56	kW
9	% of LED to Total Lighting Load=7*100/8	21.59	%

CHAPTER-VI

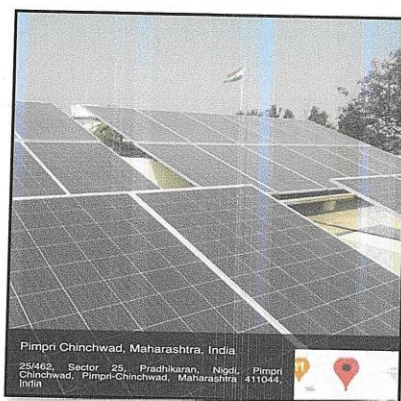
STUDY OF RENEWABLE ENERGY & ENERGY EFFICIENCY

6.1 Usage of Renewable Energy:

The College has installed:

- Roof Top Solar PV Plant of Capacity 20 kWp & 2000 LPD Solar Thermal System

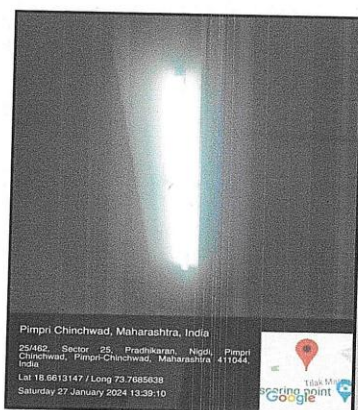
Photograph of Roof Top Solar PV Plant:



6.2 Energy Efficiency Measures adopted:

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

Photographs of LED Lighting:



ENVIRONMENTAL AUDIT REPORT
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Sector 25, Pradhikaran Nigdi, Pune 411 044



Year: 2022-23

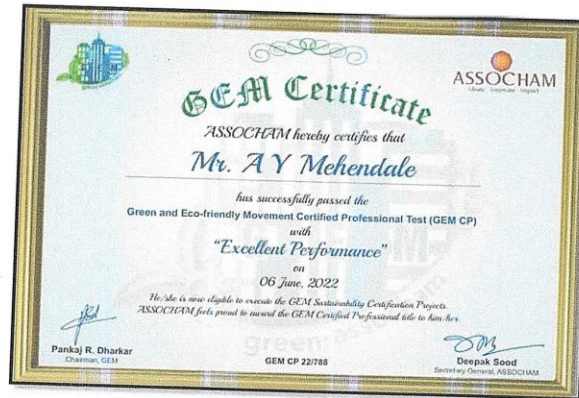
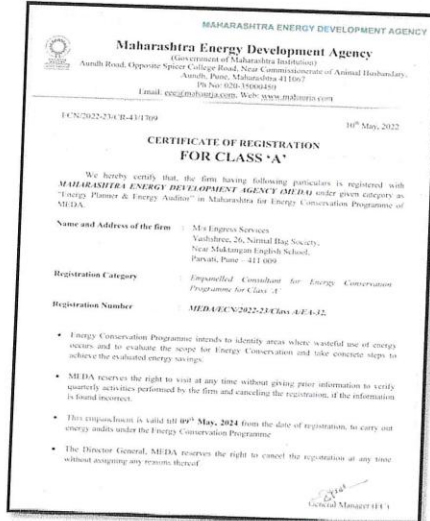
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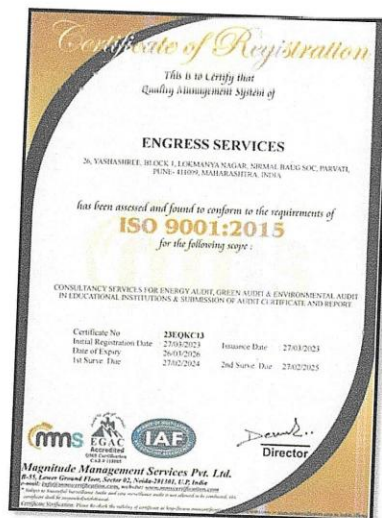
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REGISTRATION CERTIFICATES

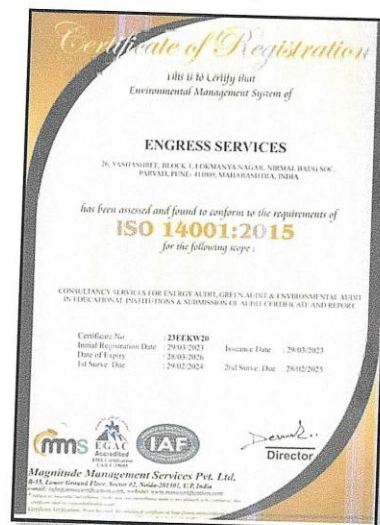


MEDA REGISTRATION CERTIFICATE



ISO: 9001-2015 CERTIFICATE

ASSOCHAM GEM CP CERTIFICATE



ISO: 14001-2015 CERTIFICATE

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ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Pune District Education Association, College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune for awarding us the assignment of Environmental Audit of their Campus for the Year: 2022-23.

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

EXECUTIVE SUMMARY

1. Pune District Education Association College of Ayurveda & Research Centre, Nigdi, Pune consumes Energy in the form of **Electrical Energy**; used for Electrical Equipment.

2. Pollution due to College Activities:

- **Air pollution:** Mainly CO₂ on account of Electricity Consumption
- **Solid Waste:** Bio degradable Garden Waste, Paper & Plastic Waste
- **Liquid Waste:** Human liquid waste

3. Present Energy Consumption & CO₂ Emission:

No	Particulars	Value	Unit
1	Annual Energy Purchased	42232	kWh
2	Annual CO ₂ Emissions	38.01	MT

4. Renewable Energy & Reduction in CO₂ Emissions:

- The College has installed Roof Top Solar PV Plant of Capacity **20 kWp**.
- The Energy generated by Solar PV Plant in 2022-23 is **2400 kWh**.
- Reduction in CO₂ Emissions in 2022-23 is **2.16 MT**

5. Indoor Air Quality Parameters:

No	Parameter/Value	AQI	PM-2.5	PM-10
1	Maximum	63	37	45
2	Minimum	56	34	38

6. Indoor Comfort Conditions:

No	Parameter/Value	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Maximum	27.2	71	232	45
2	Minimum	27.1	69	205	40

7. Waste Management:

No	Head	Particulars
1	Solid Waste	Segregation of Waste at source
2	Organic Waste	Provision of Bio Composting Bed
3	Bio Medical Waste	Handed over to Hospital for further disposal
4	E Waste	Recommended to dispose of through Authorized Agency

8. Rain Water Management:

The College has installed Pipes from the terrace and the Rain water falling on the terrace is used to increase the Underground Water Table.

9. Environment Friendly Initiatives:

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

10. Assumptions:

1. **1 kWh** of Electrical Energy releases **0.9 Kg of CO₂** into atmosphere
2. Energy consumption computed based on Load Utilization Factor
3. Energy generated by Roof Top Solar PV Plant: **4 kWh/kWp per Day**
4. Annual Solar Energy generation Days: **30 Nos** (Plant Installed in March-2023)

11. References:

- For CO₂ Emissions: www.tatapower.com
- For Solar PV Energy generation: www.solarrooftop.gov.in
- For Various Indoor Air Parameters: www.ishrae.com
- For AQI Quality Standards: www.cpcb.com

ABBREVIATIONS

Kg	: Kilo Gram
MSEDCL	: Maharashtra State Distribution Company Limited
MT	: Metric Ton
kWh	: kilo-Watt Hour
PDEA	: Pune District Education Association
LED	: Light Emitting Diode
AQI	: Air Quality Index
PM-2.5	: Particulate Matter of Size 2.5 Micron
PM-10	: Particulate Matter of Size 10 Micron
CPCB	: Central Pollution Control Board
ISHRAE	: The Indian Society of Heating & Refrigerating & Air Conditioning Engineers

CHAPTER-I INTRODUCTION

1. Important Definitions:

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

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

1.2. Environmental Audit: Definition:

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



1.5 Google Earth Image:



College
Campus

CHAPTER-II

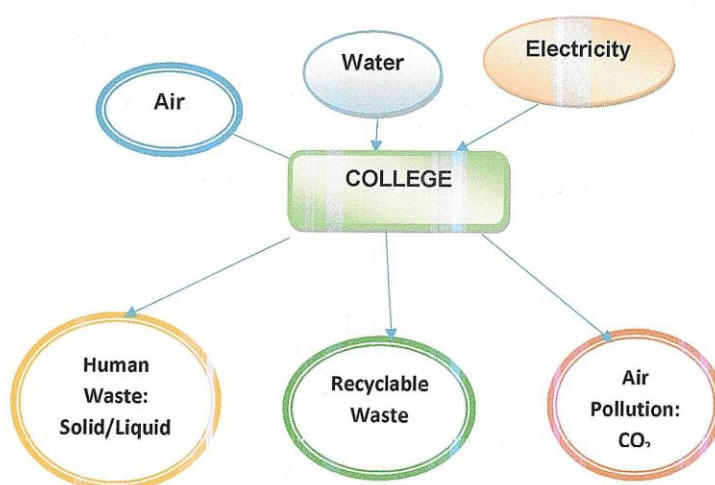
STUDY OF RESOURCE CONSUMPTION & CO₂ EMISSION

The College consumes following basic/derived Resources:

1. Air
2. Water
3. Electrical Energy

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

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



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

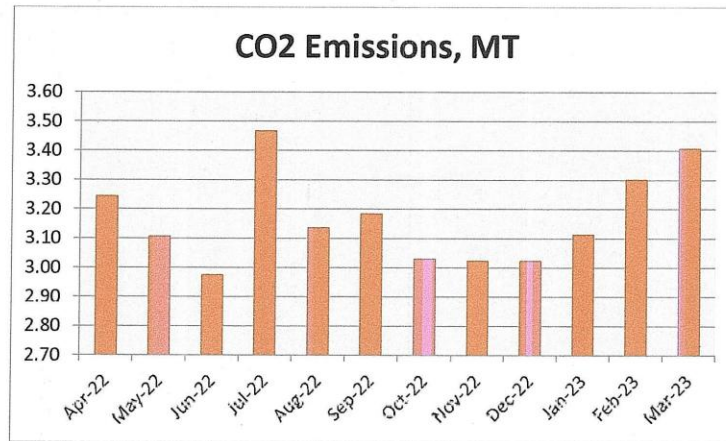
- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere

Table No 1: Study of Purchase of Energy & CO₂ Emissions: 22-23:

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Apr-22	3603	3.24
2	May-22	3452	3.11
3	Jun-22	3305	2.97
4	Jul-22	3852	3.47
5	Aug-22	3485	3.14

6	Sep-22	3538	3.18
7	Oct-22	3367	3.03
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9	Dec-22	3359	3.02
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11	Feb-23	3668	3.30
12	Mar-23	3785	3.41
13	Total	42232	38.01
14	Maximum	3852	3.47
15	Minimum	3305	2.97
16	Average	3519.33	3.17

Chart No 2: Month wise CO₂ Emissions:



CHAPTER III

STUDY OF USAGE OF RENEWABLE ENERGY

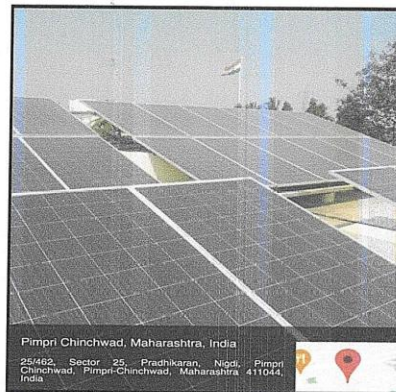
The College has installed Roof Top Solar PV Plant of Capacity **20 kWp**

In the following Table, we present the reduction in CO₂ emissions due to Solar Energy:

Table No 2: Computation of Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	20	kWp
2	Energy Generated in per kWp	4	kWh/kWp
3	Annual Solar Energy generation Days in 22-23	30	Nos
4	Energy Generated in the Year: 1*2*3	2400	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant =(4)*(5) /1000	2.16	MT of CO ₂

Photograph of Roof Top Solar PV Plant:



CHAPTER IV

STUDY OF INDOOR AIR QUALITY

4.1 Importance of Air Quality:

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

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

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

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

4.2 Air Quality Index:

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

We present herewith following important Parameters.

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

Table No 3: Indoor Air Quality Parameters.

No	Location	AQI	PM-2.5	PM-10
1	Admin Office	61	37	44
2	Library	60	36	38
3	Rachana Sharir	63	37	45
4	Dravyaguna	60	34	39
5	Panchkarma	56	34	39
	Maximum	63	37	45
	Minimum	56	34	38

CHAPTER V

STUDY OF INDOOR COMFORT CONDITION PARAMETERS

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

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

Table No 4: Study of Indoor Comfort Condition Parameters:

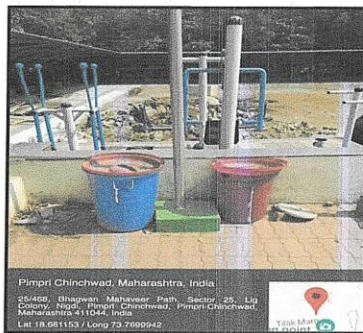
No	Location	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Admin Office	27.1	70	224	44.3
2	Library	27.2	69	205	40
3	Rachana Sharir	27.1	69	232	41.9
4	Dravyaguna	27.1	71	226	45
5	Panchkarma	27.1	70	206	44.2
	Maximum	27.2	71	232	45
	Minimum	27.1	69	205	40

CHAPTER VI STUDY OF WASTE MANAGEMENT

6.1 Segregation of Waste at Source:

The College has good housekeeping practices. The Waste is segregated at source. Waste collection Bins are placed at strategic locations.

Photograph of Waste Collection Bins:



6.2 Organic Waste Management:

The College has a Bio Composting Bed, for conversion of Organic Waste

Photograph of bio Composting Bed:



6.3 Bio Medical Waste Management:

The Bio Medical Waste is handed over to Hospital, for further disposal.

6.4 E Waste Management:

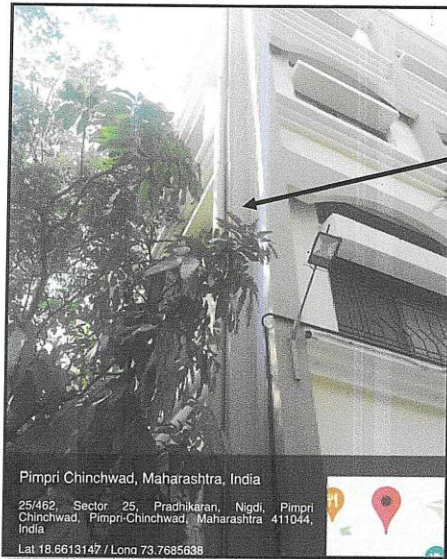
It is recommended to dispose of the E Waste through Authorized Agency

CHAPTER VII

STUDY OF RAIN WATER MANAGEMENT

The College has installed Pipes from the terrace and the Rain water falling on the terrace is used to increase the Underground Water table.

Photograph of Rain Water Collecting Pipe:



Rain Water
collecting pipe

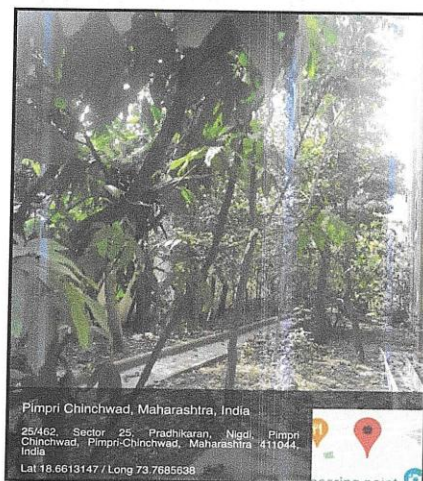
CHAPTER-VIII

STUDY OF ECO FRIENDLY PRACTICES

8.1 Internal Tree Plantation:

The College has Tree Plantation in the campus.

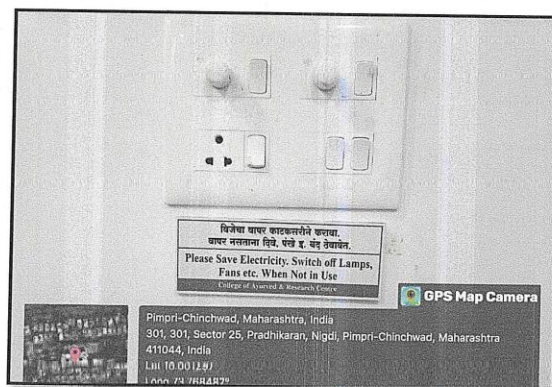
Photograph of Tree plantation:



8.2 Creation of Awareness about Energy Conservation:

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

Photograph of Pocker on Energy Conservation.



ANNEXURE-I:

VARIOUS AIR QUALITY, NOISE & 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°C
2	Humidity	Less Than 70%

GREEN AUDIT REPORT
of
Pune District Education Association,
COLLEGE OF AYURVEDA & RESEARCH CENTRE,
Sector 25, Pradhikaran Nigdi, Pune 411 044



Year: 2022-23

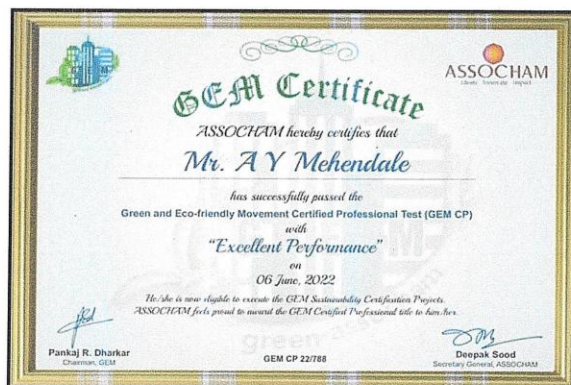
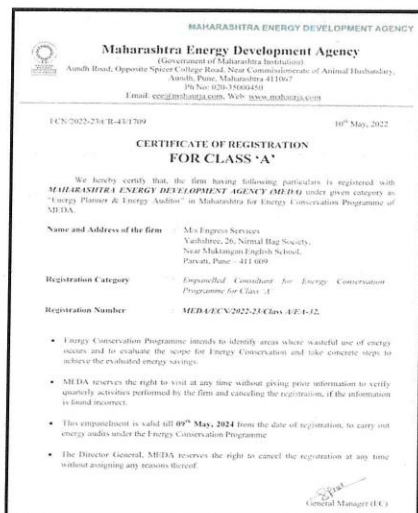
Prepared by:

ENGRESS SERVICES

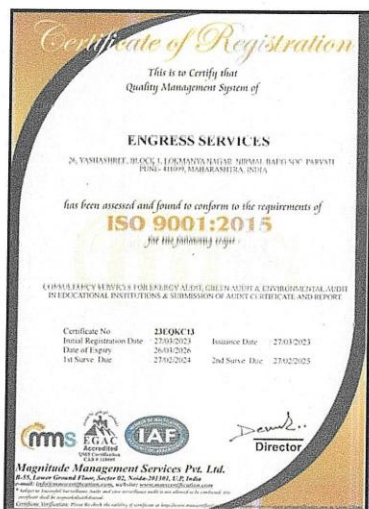
Yashashree, 26, Nirmal Bag Society
Near Mukhtangan English School, Parvati, Pune 411009
Phone: 09890444795 Email: engress123@gmail.com



REGISTRATION CERTIFICATES

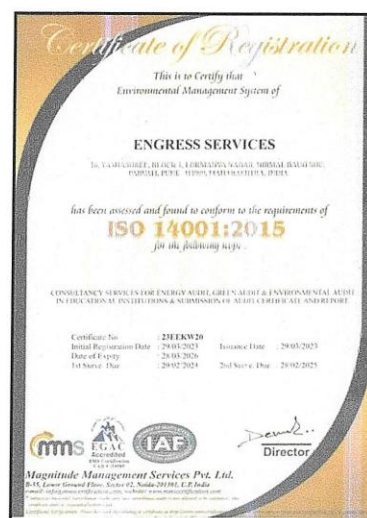


MEDA REGISTRATION CERTIFICATE



ISO: 9001-2015 Certificate

ASSOCHAM GEM CP CERTIFICATE



ISO: 14001-2015 Certificate

INDEX

Sr. No	Particulars	Page No
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III	Abbreviations	6
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2	Study of Energy Consumption & CO ₂ Emission	8
3	Study of Usage of Renewable Energy	9
4	Study of Waste Management	10
5	Study of Rain Water Management	11
6	Study of Green & Sustainable Practices	12
	Annexure	
I	List of Trees & Plants	13

ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Pune District Education Association, College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune, for awarding us the assignment of Green Audit of their Campus for the Year: 2022-23.

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

EXECUTIVE SUMMARY

1. Pune District Education Association College of Ayurveda & Research Centre, Nigdi, Pune consumes Energy in the form of **Electrical Energy**; used for Electrical Equipment.

2. Present Energy Consumption & CO₂ Emission:

No	Particulars	Value	Unit
1	Annual Energy Purchased	42232	kWh
2	Annual CO ₂ Emissions	38.01	MT

3. Renewable Energy & Reduction in CO₂ Emissions:

- The College has installed Roof Top Solar PV Plant of Capacity **20 kWp**.
- The Energy generated by Solar PV Plant in 2022-23 is **2400 kWh**.
- Reduction in CO₂ Emissions in 2022-23 is **2.16 MT**

4. Waste Management:

No	Head	Particulars
1	Solid Waste	Segregation of Waste at source
2	Organic Waste	Provision of Bio Composting Bed
3	Bio Medical Waste	Handed over to Hospital for further disposal
4	E Waste	Recommended to dispose of through Authorized Agency

5. Rain Water Management:

The College has installed Pipes from the terrace and the Rain water falling on the terrace is used to increase the Underground Water Table.

6. Green & Sustainable Practices:

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

7. Assumptions:

1. **1 kWh** of Electrical Energy releases **0.9 Kg of CO₂** into atmosphere
2. Energy consumption computed based on Load Utilization Factor
3. Energy generated by Roof Top Solar PV Plant: **4 kWh/kWp per Day**
4. Annual Solar Energy generation Days: **30 Nos** (Plant Installed in March-2023)

8. References:

- For CO₂ Emissions: www.tatapower.com
- For Solar PV Energy generation: www.solarrooftop.gov.in

ABBREVIATIONS

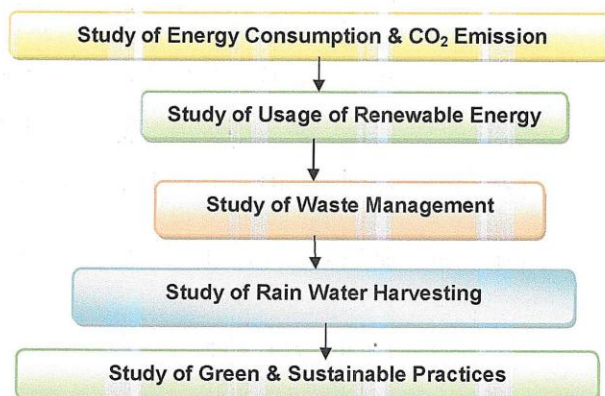
BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
PDEA	Pune District Education Association
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
Qty	Quantity

CHAPTER-I INTRODUCTION

1.1 Introduction:

A Green Audit is conducted at Pune District Education Association College of Ayurveda & Research Centre, Sector-25, Pradhikaran Nigdi, Pune

1.2 Audit Procedural Steps:



1.3 College Location Image:



College
Campus

CHAPTER-II

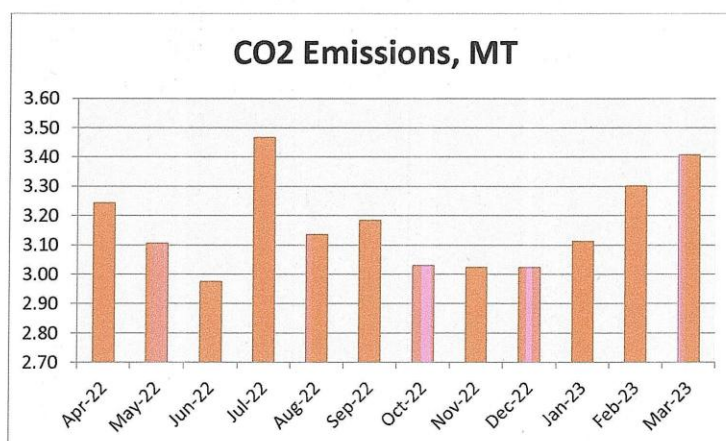
STUDY OF ENERGY CONSUMPTION & CO₂ EMISSION

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. **Basis for computation of CO₂ Emissions: 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere.**

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

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Apr-22	3603	3.24
2	May-22	3452	3.11
3	Jun-22	3305	2.97
4	Jul-22	3852	3.47
5	Aug-22	3485	3.14
6	Sep-22	3538	3.18
7	Oct-22	3367	3.03
8	Nov-22	3359	3.02
9	Dec-22	3359	3.02
10	Jan-23	3459	3.11
11	Feb-23	3668	3.30
12	Mar-23	3785	3.41
13	Total	42232	38.01
14	Maximum	3852	3.47
15	Minimum	3305	2.97
16	Average	3519.33	3.17

Chart No 1: Month wise CO₂ Emissions:



CHAPTER III STUDY OF USAGE OF RENEWABLE ENERGY

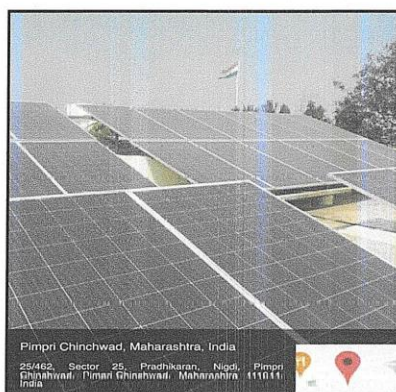
The College has installed Roof Top Solar PV Plant of Capacity **20 kWp**

In the following Table, we present the reduction in CO₂ emissions due to Solar Energy:

Table No 2: Computation of Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	20	kWp
2	Energy Generated in per kWp	4	kWh/kWp
3	Annual Solar Energy generation Days in 22-23	30	Nos
4	Energy Generated in the Year: 1*2*3	2400	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant = (4)*(5) /1000	2.16	MT of CO ₂

Photograph of Roof Top Solar PV Plant:



CHAPTER IV STUDY OF WASTE MANAGEMENT

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Rain Water
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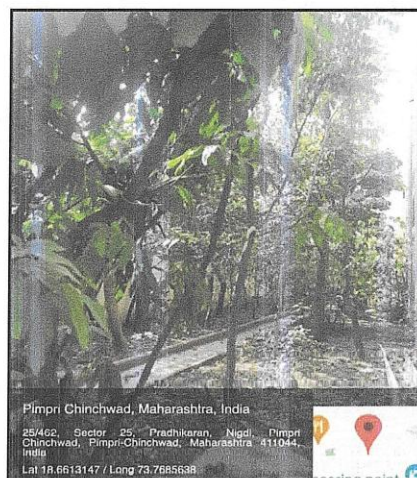
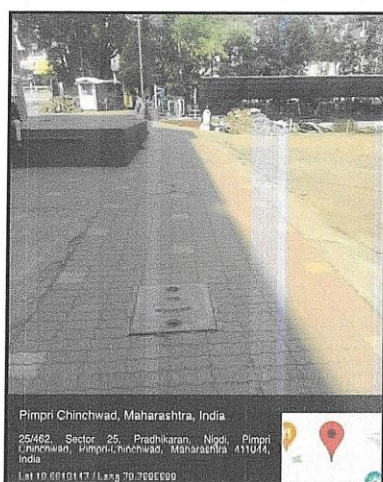
CHAPTER VI

STUDY OF GREEN & SUSTAINABLE PRACTICES

6.1 Pedestrian Friendly Road & Internal Tree Plantation:

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

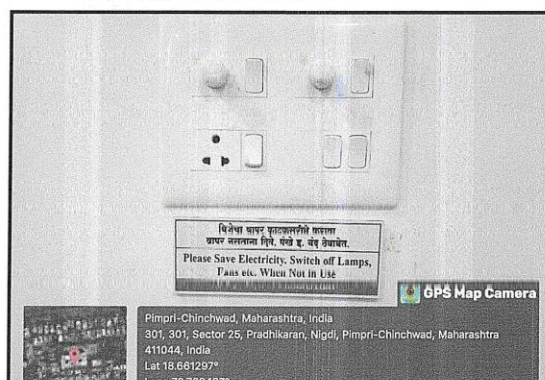
Photograph of Internal Road & Tree plantation:



6.2 Creation of Awareness about Energy Conservation:

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

Photograph of Poster on Energy Conservation:



ANNEXURE-1:

LIST OF TREES & PLANTS IN THE CAMPUS:

List of Trees and Plants in the Campus:

No	Type	No of Species	No of Plants
1	Climber	67	344
2	Epiphytes	2	6
3	Grasses	19	85
4	Herb	140	744
5	Orchids	1	1
6	Shrub	64	356
7	Trees	195	622
8	Total	488	2158



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List of medicinal plants in College & Hospital



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Total No. of plants: 2133

Total no. of species: 484

List of Medicinal Plants updated Jul 2023

SN	Name	Botanical Name	No. of Plants existing	New Plantation till Jul 2023	Habit
1	Agaru	Aqualaria agalocha	3		T
2	Agastya	Sesbenia Grandiflora	2	2	T
3	Agnimantha	Premna Integrifolia	20	5	S
4	Agnimantha	Clerodendron Phlomidis	2		S
5	Aina	Terminalia Tomentosa	3		T
6	Ajakarna-Sarjak	Vateria indica	2		T
7	Ajamoda	Carum Roxbarghianum	2		H
8	Ajanvriksha	Ehretia laevis	1		T
9	Akarakarabha	Spilanthus Oleracea	2	5	H
10	Akashnimba	Millingtonia hortensis	1		T
11	Akhuparni	Merremia Emarginata	5		H
12	Amalaki	Emblica Officinalis	15		T
13	Ambadi	Hibisus Cannabinus	1		H
14	Amlika	Tamarindus Indica	5		T
15	Amra	Magnifera Indica	7		T
16	Amragandhi Haridra	Curcuma Amada	4		H
17	Amrataka	Spondias pinnata	2		T
18	Anannas	Ananas Comosas	2		T
19	Ananta	Tabernaemontana divaricata	3		S
20	Anjan	Hardwickia pinnata	1		T
21	Anjani	Memecylon umbellatum	1		T
22	Ankot	Alangium salvifolium	3		T
23	Apamarga	Achyranthes Aspera	10		H
24	Aparajita Neela	Clitoria Terneata	8		C
25	Aparajita Shweta	Clitoria Terneata	6		C
26	Aragwadha	Cassia Fistula	8	1	T
27	Aralu	Ailanthus Exelsa	2		T
28	Ardrak	Zinziber Officinale	10		H
29	Arishta	Sapindus Trifoliatus	2		T
30	Arishtaka	Sapindus trifoliatus	1		T



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Principal

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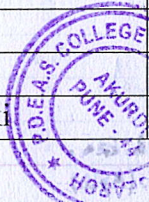
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31	Arjun	Terminalia Arjuna	9		T
32	Arka Rakta	Calotropis Procera	2		S
33	Arka Shweta	Calotropis Gigantica	2		S
34	Arogya Pacha	Trichopus zeylanicus		1	H
35	Ashmantak	Bauhinia Racemosa	3		T
36	Ashmantak Bheda	Bauhinia malabarica	1		T
37	Ashok	Saraca Indica	10		T
38	Ashwagola	Plantago Ovata	1		H
39	Ashwangandha	Withania Somnifera	5	5	H
40	Ashwattha	Ficus Religiosa	7		T
41	Asthisamharaka	Cissus Quandrangularis	4		C
42	Atasi	Linum Usitatissimum	1		H
43	Atibala	Abutilon Indicum	3		S
44	Atibala Bheda	Abutilon persicum		4	S
45	Avartaki	Cassia Auriculata	1	1	H
46	Avartani	Helicterus Isora	4		S
47	Ayapana	Eupatorium Triplinerve	2		H
48	Babbula	Acacia Arabica	5		T
49	Badara	Zizyphus jujuba	6		T
50	Badara Bheda / Ghonta	Zizyphus xylopyra		2	T
51	Bahubeeja	Psidium Pomiferum	5		T
52	Bakuchi	Psoralea Corylifolia	20		H
53	Bakula	Mimusops Elengi	5		T
54	Bala	Sida Cordifolia	2		H
55	Bala	Sida Rhombifolia	1		H
56	Bala	Sida Acuta	4		H
57	Bala Bheda	Abutilon persicum		2	H
58	Bala Bheda / Nagabala	Urena lobata	1		H
59	Bandaka	Dendrophthoe Falcata	5		E/C
60	Banfsha	Viola serpençe	2		H
61	Basamati Pata	Pandanus amaryllifolius		2	G
62	Beejak	Pterocarpus Marsupium	9		T
63	Beejapuraka	Citrus Medica	1		T
64	Bhallataka	Semicarpus Anacardium	4		T
65	Bhandir	Clerodendron infortunatum	2		S
66	Bharangi	Clerodendron Serratum	3	20	S
67	Bhavya	Dillenia indica	2		T
68	Bhrungaraj	Eclipta Alba	5		H
69	Bhumyamalaki	Phyllanthus Urinaria	10		H



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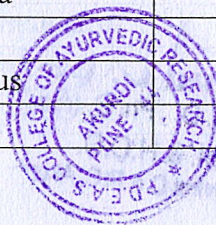
70	Bhutya	<i>Cassine glauca</i>	1		T
71	Bibhitaka	<i>Terminalia Belerica</i>	8		T
72	Bilva	<i>Aegle Marmelos</i>	11		T
73	Bimbi	<i>Coccinia Indica</i>	2		C
74	Boru	<i>Phragmatis karka</i>		1	G
75	Brahmi	<i>Herpestes Monniera</i>	20		H
76	Bruhati	<i>Solanum Indicum</i>	1		H
77	Bruhati Bhed	<i>Solanum Torvum</i>	5		S
78	Burali Vad	<i>Ficus drupacea</i> var. <i>pubescens</i>	1		T
79	Chakramarda	<i>Cassia Tora</i>	20		H
80	Champaka	<i>Michelia Champaka</i>	3		T
81	Champaka Harit	<i>Artabotrys hexapetalus</i>	1		S
82	Chandana	<i>Santalum Album</i>	9		T
83	Chandramula	<i>Kaempferia galangal</i>	2	10	H
84	Chandrashura	<i>Lepidium Sativum</i>	2		H
85	Changeri	<i>Oxalis Corniculata</i>	20		H
86	Chikku	<i>Achras Sapota</i>	1		T
87	Chirabilva	<i>Holoptelea Integrifolia</i>	2		T
88	Chiraphala	<i>Zanthoxylum rhetsa</i>	1		T
89	Chitrak	<i>Plumbago Zeylanica</i>	16		S
90	Chitrak Rakta	<i>Plumbago indica</i>	2		S
91	Citronella grass	<i>Citronella</i>	2	3	G
92	Coffee	<i>Coffia Malabarica</i>	1		S
93	Dadima	<i>Punica Granatum</i>	6		T
94	Dagadi Pala	<i>Tridax procumbens</i>	1		H
95	Danti	<i>Baliospermum Montanum</i>	2	3	S
96	Darbha	<i>Imperata cylindrica</i>	2	8	G
97	Daruharidra	<i>Berberis Asiatica</i>	1		S
98	Devababhul	<i>Acacia latiosum</i>	2		T
99	Devchapha	<i>Plumeria alba</i>	2		T
100	Dhanvan	<i>Grewia tilifolia</i>	2		T
101	Dhanyaka	<i>Coriandrum Sativum</i>	2		H
102	Dhataki	<i>Woodfordia Floribunda</i>	2		S
103	Dhattura Krishna	<i>Dhattura Metal</i>	2		H
104	Dhattura Shweta	<i>Dhattura Stramonium</i>	15		H
105	Dhava	<i>Anogesus latifolia</i>	6		T
106	Draksha	<i>Vitis Vinifera</i>	1		C
107	Dronapushpi	<i>Leucus Cephalotus</i>	2		H
108	Dronapushpi	<i>Leucus Intelligera</i>	1		H

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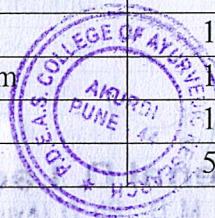
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109	Dugdhika Bruhat	Euphorbia Hirta	10		S
110	Dugdhika Laghu	Euphorbia Thymfolia	10		H
111	Durva	Cynodon Dactylon	15		G
112	Ekadandi Rason	Allium sativum	1		H
113	Ekshu	Saccharum Officinarum	3		G
114	Ela Sookshma	Elettaria Cardamoum	2		H
115	Eranda	Ricinus Communis	8		S
116	Erandakarkati	Carica Papaya	4		T
117	Falgu	Ficus carcia	3		S
118	Gajapippali	Piper chaba	2		C
119	Gambhari	Gmelina Arborea	16		T
120	Gandhaprasarini	Paederia Foetida	4		C
121	Ganer	Cochlospermum religiosum	2		T
122	Gangavati	Blumea Balsamifera	5		H
123	Garjara	Daucus Carota	1		H
124	Gavati Chaha	Cymbopogon Citratus	13		G
125	Gavedhuka	Coix lacrima		2	G
126	Ghansar	Croton Sp		1	T
127	Ginko	Ginko biloba	2		T
128	Gojivha	Launea asplenifolia	2		H
129	Gokshura	Tribulus Terrestris	1	4	H
130	Gokshura Bhed / Shankeshwar	Xanthium strumarium	1		S
131	Gorakshachincha	Adansonia Digitata	1		T
132	Guduchi	Tinospora Cordifolia	60		C
133	Guduchi Bheda	Tinospora sinensis		1	C
134	Guduchi Bheda	Tinospora crispa		1	C
135	Guduchi Pinda	Tinospora sinensis		1	C
136	Guggulu	Comiphora Mukul	6	4	T
137	Guggulu bheda	Commiphora stocksiana	1		T
138	Guggulu Bheda	Commiphora agalocha		3	T
139	Guggulu Bheda	Commiphora roxburghii	2		T
140	Gulbakshi	Mirabilis jalapa	1		H
141	Gunja Krushna	Abrus precatoria	1		C
142	Gunja Rakta	Abrus Precatorius	4		C
143	Gunja Shweta	Abrus Precatorius	4		C
144	Haimavati Vacha Bheda	Trimezia gracilis	1		H
145	Hansaraj	Adiantum Lunaatum	1		H
146	Hanuman Phala	Annona muricata	1		T
147	Haridra	Curcuma Longa	5		H

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148	Haridru	Adina Cordifolia	1		T
149	Haritaki	Terminalia Chebula	7		T
150	Haritmanjiri	Acalypha Indica	20		H
151	Hijjal	Barringtonia acutangula	3		T
152	Hoom	Miliusa tomentosa	2		T
153	Indian Charcoal Tree	Trema orientale	1		T
154	Ingudi	Balanites ingudi	1	1	T
155	Insuline	Costus igneus	10		H
156	Irimeda	Acacia farnesiana	3		T
157	Ishwari	Aristolochia Indica	4		C
158	Ishwari Bheda	Aristolochia ringens		2	C
159	Ishwari Bheda	Aristolochia sp		2	C
160	Jaipal	Croton tiglium / persimilis	1		T
161	Jalakumbhi	Pistia stratiotes		20	H
162	Jalapippali	Phyla nodiflora	5		H
163	Jambir	Citrus Sp		1	T
164	Jambu	Eugenia Jambolana	9		T
165	Jangli musanda	Musanda frondosa	1		S
166	Jati	Jasminum Grandiflorum	3		S
167	Jatiphala	Myristica Fragrance	1		T
168	Jeerak	Cuminum Cyminum	1		H
169	Jeevanti	Holostema Rheedii	1		C
170	Jingini	Lanea coromandelica	1		T
171	Jitasaya	Hamiltonia Suaveolens	2		S
172	Jivak	Malaxis musifera	1		O
173	Jivanti	Leptadenia reticulata	2		C
174	Jyotishmati	Celastrus Paniculata	5		C
175	Kadali	Musa Paradisiaca	1		S
176	Kadamba	Anthocephalus Indicus	3		T
177	Kadayo	Sterculia urens	1		T
178	Kaidarya	Murraya Koenigii	8		S
179	Kailasapati	Couroupita guianensis	2		T
180	Kakamachi	Solanum Nigrum	2		H
181	Kakodumbar	Ficus Hispida	5		T
182	Kalamegha	Andrographis Paniculata	5		H
183	Kalaya	Pisum Sativum	1		H
184	Kamala	Nelumbo nucifera	1		H
185	Kampillaka	Mallotus Philippinensis	2		T
186	Kanadi Jemba	Cantharus sp. - caninus /	5		S

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187	Kanchanar Valli	<i>Bauhinia wahlia</i>		1	C
188	Kanchanara	Bauhinia Variegata	10		T
189	Kantakari	Solanum Xanthocarpum	1		H
190	Kapikacchu	Mucna Prurita	5		C
191	Kapittha	Feronia Elephantum	3		T
192	Kapuri Madhuri	Areva lanata	1		H
193	Karamarda	Carissa Congesta	6		S
194	Karanja	Pongamia Pinnata	16		T
195	Karaveer Rakta	Nerium Indicum	2		S
196	Karaveer Sweta	Nerium Indicum	2		S
197	Karavella	Momordica-Charantia	2		C
198	Karkatashruni Substitute	Garuga pinnata	1		T
199	Karnasphota	Cardiospermum Helicacabun	1		C
200	Karpas	Gossypium Herbaceum	3		S
201	Karpoor	Cinamomum camfora	1		T
202	Karpura Tulasi	Occimum Kilimand Scharicum	10		H
203	Kasamarda	Cassia Occidentalis	1		H
204	Kasha	Saccharum spontanum	2	2	G
205	Kashthadaru	Polyalthia Longifolia	10		T
206	Katuveera	Capsicum Annum	2		H
207	Kaushi	<i>Firmiana colorata</i>	1	1	T
208	Kebuk	Costus Speciosus	1		H
209	Ketaki	Pandanus Tectorius	1		T/S
210	Khadaki Rasna	Tylophora Asthamatica	10		C
211	Khadashing	Radermachera xylocarpa	1		T
212	Khadir	Acasia Catechu	4		T
213	Kharjura	<i>Phoenix sylvestris</i>	1		T
214	Kitamari	Aristolochia bracteata	1		C
215	Kokilaksha	Asteracantha Longifolia	2		H
216	Kokum Peet	Garcinia xanthocymus	1		T
217	Koshamra	Schleichera oleos/trijuga	3		T
218	Kovidara	Bauhinia purpurea	7		T
219	Krishna Haridra	Curcuma caesia	2		H
220	Krishna Musali	Curculigo orchiodes	1		H
221	Krishna Tulasi / Basil	Ocimum Basilicum		4	H
222	Krishnabeeja	Ipomoea nil	1	2	C
223	Kshirini-Rajadani	Manilkara hexandra	3		T

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224	Kuchala	Strychnos Nuxvomica	3		T
225	Kuchandan	Pavonia admenthera	1		S
226	Kukkutnakhi	Tectaria coadunata	1		C
227	Kumari	Aloe Vera	35		H
228	Kumbha	Careya arborea	1		T
229	Kumuda	Nymphaea Stellata	20		
230	Kumudini	Nymphoides hydrophylla	1		
231	Kunti	Muraya exotica	4		S
232	Kurdu	Celosia Argentea	2		H
233	Kusha	Desmostachya bipinnata	2	5	G
234	Kushmanda	Benincasa Hispida	1		C
235	Kusumbha	Carthamus Tinctorius	1		H
236	Kutaj	Holerrhena Antidysenterica	7		T
237	Kutaj Krishna	Wrightia tinctoria	7		T
238	Kutaj Krushna Bhed	Wrightia tomentosa	2		T
239	Kutaja krishna bheda	Wrightia tinctoria var. arborea	1		T
240	Lajjalu	Mimosa Pudica	3		H
241	Lajjalu Vipareet	Biophytum nervifolium	15		H
242	Lakoocha	Atrocarpus lakoocha	2		T
243	Langali	Gloriosa Superba	5		H
244	Lashun Vel	Mansoa alliacea	1		C
245	Latakaranj	Cessalpinia Bondusa	32		S
246	Latakasturi	Hibiscus Abelmoschus	1		S
247	Lavali	Phyllanthus Acidus	1		T
248	Lavanga	Syzygium Aromaticum	1		T
249	Lodhra	Symplocus Racemosus	1		T
250	Madanaphala	Randia Dumetorum	3		T
251	Madayantika	Lawsonia Inermis	7		S
252	Madhavi lata	Hiptagae Bengalensis	1		C
253	Madhooka	Madhuka Indica	3		T
254	Madhooka	Madhooka Latifolia	5		T
255	Madhumalati	Combretum indicum	1		C
256	Madhuparni	Stevia sp.		5	H
257	Madhuyashti	Glycurrhiza Glabra	1		S
258	Mahabhari Vacha	Alpinia calcarata	2		H
259	Mahogany	Swietenia mahogani	1		T
260	Makadalimbu	Atlantia racemosa		1	T
261	Makadshingi	Caralluma fimbriata		2	H
262	Makadshingi	Caralluma fimbriata			H

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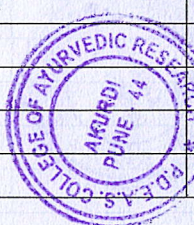
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263	Makhanna	Eural ferox	2		
264	Mallika	Jasminum Sonabae	6		S
265	Manduka Parni	Centella Asiatica	10	5	C
266	Manjishtha	Rubia Cordifolia	5		C
267	Mansarohini	Soymida fibrifuga	1		T
268	Maricha	Piper Nigrum	9		C
269	Markandika	Cassia Angustifolia	1		H
270	Marubaka	Origanum Margorana	2		H
271	Marubaka	<i>Origanum majorana</i>	2		H
272	Mashparni	Phaseolus Mungo	2		C
273	Mayurashikha	Actinopteris dichotoma	1		H
274	Medhashingi	Dolichandrone Falcata	1		T
275	Meeshreya	Anethum Sowa	1		H
276	Meshashrunji	Gymnema Sylvestree	3	2	C
277	Methika	Trigonella Foenumgrossum	2		H
278	Muchakunda	Pterospermum Suberifolium	3		T
279	Mudgaparni	Phasiolus Trilobus	5		C
280	Mulaka	Raphanus Sativus	1		H
281	Murva	Clematis Triloba	2		C
282	Murva	Clematis Gauriana	1		C
283	Murva Bheda	Chonemaorpha fragrans	2		C
284	Mushali	Chlorophytum borivilianum	1		H
285	Musta	Cyperus Rotandus	5		H
286	Nadhihungu	Gardenia Gummiifera	3		T
287	Nadhihungu Bheda	Gardenia jasminoides		1	T
288	Nadi-Bhallataka	<i>Holigarna grahmii</i>		1	T
289	Nagabala	Sida spinosa	1		H
290	Nagakeshara	Mesua ferrea	2		T
291	Nagphani	Opuntia elator	2		S
292	Nala	<i>Arundo donax</i>		1	G
293	Nandivruksha	Ficus retusa	2		T
294	Narikela	Cocos Nucifera	4		T
295	Narkya	Mappia Foitida	1		T
296	Neeli	Indigofera Tinctoria	1		S
297	Nil Chitrak	Plumbago capensis	2		S
298	Nili Bhed	<i>Phyllanthus reticulatus</i>		1	S
299	Nimba	Azadiracta Indica	5		T
300	Nimbuka	Citrus Acida	3		T
301	Nirgundi	Vitex Niganda	15		S



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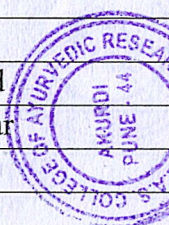
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302	Nirgundi Krushna	Vitex trifolia	15		S
303	Nishpav	Polichos Lablab	12		C
304	Noni bheda	Morinda tomentosa	1		T
305	Pacholi	Pogostemon Pachoali	1		H
306	Padmak	Prunus Cirasoidus	1		T
307	Palandu	Alium Cepa	3		H
308	Palasha	Butea Monosperma	2		T
309	Palasha Lata	Butea superba	2		C
310	Panakula	Ixora Grandiflora	2		S
311	Panasa	Artocarpus Heterophyllus	6		T
312	Panchamasale	All Spices	2		T
313	Papermint Var.			5	H
314	Paribhadra	Erithrina Variegata	2		T
315	Paribhadra bheda	Erythrina stricta	2		T
316	Parijata	Nyctanthus Arborescens	5		T
317	Paripatha	Oldenlandea Corymbosa	5		H
318	Parisha	Thespesia Populnea	4		T
319	Parisha	Ficus arnotiana	1		T
320	Parnabeeja	Kalanchoe Pinnata	10		H
321	Parnayavani	Coleus Amboinicus	2	5	H
322	Parushak	Grewia asiatica	2		T
323	Pashanabheda	Burgenia Ligulata	2		H
324	Patala	Stereospermum Suaveolens	1		T
325	Patala Bheda	Stereospermum coalis	1		T
326	Patala Bheda	Spathodia campanulata	8		T
327	Patala Bheda	Stereospermum tetragonum	6		T
328	Patalgarudi	Cocculus Hirsutus	2		C
329	Patha	Cissempeles Pareira	10		C
330	Patha Raj	Cyclea Peltata	2		C
331	Patol	Tricosanthes cucumerina	1		C
332	Patranjeevak	Putranjiva Roxburghii	8		T
333	Pattanga	Caesalpinia sappan	3		S
334	Peeta Karaveera	Thevetia Nerifolia	1		S
335	Phapata	Pavetta indica		2	S
336	Pinditaka	Tamilnadia uligiosa	1		T
337	Pippali	Piper Longum	20	5	C
338	Pippali Bheda	Piper sarmentosum	2		C
339	Pit kanchanar	Bauhinia tomentosa	1		T
340	Plaksha	Picus Lacer	3		T



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341	Plaksha	Ficus tinctoria var. gibbosa	1		T
342	Plaksha / Nandivriksha	Ficus rumphii	1		T
343	Plaksha Bheda	Ficus infectoria	1		T
344	Priyal	Bucchnania latifolia	1		T
345	Priyangu	Callicarpa tomentosa	1		T
346	Priyangu Bheda	Aglaia lawii		1	T
347	Prushniparni	Uraria Picta	10		H
348	Puga	Areca Catechu	1		T
349	Punarnava	Boerhavia Diffusa	7	3	H
350	Punarnava Rakta	Trianthema portulacastrum	5		H
351	Punnaga	Calophyllum Inophyllum	2		T
352	Putiha	Mentha Spicata	7		H
353	Rajika	Brassica Juneea	2		H
354	Raktachandan	Pterocarpus Santalinus	5		T
355	Rana Ganja	Lobelia nicotinifolia	1		H
356	Ranjaiphal	Knema attenuata		1	T
357	Rasna	Vanda Roxburghii	1		E
358	Rasna bheda	Alpinia nigrum	1		H
359	Rasna Bheda	Dodonea viscosa	1		S
360	Rasona	Allium Sativum	2		H
361	Rohitak	Tecomella undulata	1		T
362	Rohitaka	Aphanamixis polystachya	5		T
363	Rohitakalata Bheda	Ventilago madraspatensis		4	C
364	Rubber	Rubber Plant	1		T
365	Rudraksha	Elaeocarpus Ganitrus	1		T
366	Sadapushpa	Lochanera Rosea	4		H
367	Saddab	Ruta Graveolens	5		H
368	Sahadevi	Vernonia Cineria	10		H
369	Saireyaka bheda	Barleria lawii	1		H
370	Saireyaka bheda	Barleria sp	1		H
371	Saireyaka Neela	Barleria Cirstita	15		H
372	Saireyaka Peet	Barleria prionitis	25		H
373	Saireyaka Shweta	Barleria cristata var. albida	25		H
374	Saptakappi	Diploclisia glaucescens		1	C
375	Saptaparna	Alstonia Scholaris	6		T
376	Saptarangi	Casearia esculanta	3		S
377	Sariva bheda	Vallisneria spiralis	1		C
378	Sariva Bheda	Decalephas hamiltonii	10		C



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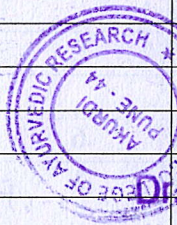
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379	Sariva Bheda/ Amrutapala	Decalepis arayalpathra		1	S
380	Sariva Krishna	Cryptolepis Buchnani	3		C
381	Sariva Shweta	Hemidesmus Indicus	5		C
382	Sarpagandha	Rauwolfia Serpentina	1		S
383	Sarpagandha	Rauwolfia Tetraphyla	6		S
384	Sarshapa	Brassica Alba	3		H
385	Satala	Acacia Concinna	2		T
386	Shaka	Tectona grandis		1	T
387	Shal	Shorea robusta	3		T
388	Shaliparni	Desmodium Gagicum	50		H
389	Shaliparni (Bheda)	Pseudarthria viscida	1	4	H
390	Shaliparni (Bheda)	Flemingia strobilifera		4	H
391	Shallaki	Boswellia serrata	2		T
392	Shalmali	Bombax ceiba	2		T
393	Shalmali - Dev	Bombax insigne	1		T
394	Shalmali Kuta	Ceiba pentandra	3		T
395	Shami	Prosopis Specigera	1		T
396	Shanapushpi	Crotolaria verrucosa	1		H
397	Shankhapusphi	Canscora Decussata	1		H
398	Shara	Sacchrum Munja	2	2	G/H
399	Sharapunkha	Tephrosia Purpurea	2		H
400	Shatapushpa	Foeniculum Vulgarae	3		H
401	Shatavari	Asparagus Racemosus	30		C
402	Shatavari Bheda	Asparagus officinalis		4	C
403	Shati	Hedychium Spicatum	6		H
404	Sheevalingi	Diplocyclos palmatus	1		C
405	Shera	Euphorbia Tirucalli	2		T
406	Shigru	Moringa Oleifera	3		T
407	Shinshapa	Dalbergia Sissoo	9		T
408	Shinshipa bheda	Dalbergia latifolia	4		T
409	Shirisha Shweta	Albizia procera	6		T
410	Shleshmantak	Cordia dichotoma	2		T
411	Shleshmataka Bheda	Cordia sinensis	1		T
412	Shrisha	Albizia Lebbeck	4		T
413	Shuhi	Euphorbia Nerifolia	4		T
414	Shyonak	Oroxylum Indicum	17		T
415	Simaruba	Casia Sophora	2		H
416	Simbitaka	Malus pumila		1	T
417	Sinduri	Bixa Orellana	3		S



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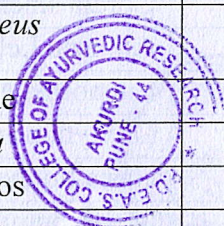
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418	Sitaphalam	Annona Squamosa	4		T
419	Soma	Sarcostemma Brevistigma	2		S
420	Strawberry	<i>Fragaria × ananassa</i>	2		C
421	Surana	Amorphophyllus Campanulatus	1		H
422	Surapunnaga	Ochrocarpus Longfolius	3		T
423	Swarna Jati	<i>Jasminum humile</i>	1		S
424	Swarnakshiri	Argemone Mexicana	4		H
425	Tagar	Valeriana Wallichii	2		H
426	Tailaparni	Eucalyptus Citriodora	2		T
427	Tamalapatra	Cinamomum Tamala	1		T
428	Tamhan	Lagerstomia flos-reginae	2		T
429	Tamhan Bheda	Lagerstomia parviflora	1		T
430	Tanduliyaka	Amaranthus Spinosus	2		H
431	Taruni	Rosa Centifolia	2		H
432	Tavakshira /tavakil / Araroot	Curcuma angustifolia	3		H
433	Teela	Sesamcem Indicum	2		H
434	Tejovati	Zanthoxylum armatum	1		T
435	Tinduka	Diospyros malabarica	2		T
436	Tinduka	<i>Diospyros melanoxylon</i>	1		T
437	Tinish	Ougenia oogenesis	2		T
438	Tomato	<i>Solanum lycopersicum</i>	2		H
439	Toon	<i>Toona ciliata</i>	1		T
440	Torana / Rajbadar	Zizyphus Rugosa	1		T
441	Trivrut	Operculina terpathum	1		C
442	Tuda	Morus Alba	4		S
443	Tulasi	Occimum Sanctum	3	7	H
444	Tuvaraka	Hydnocarpus pentandra	3		T
445	Twak	Cinamonum Zeylanica	2		T
446	Udumbar	Ficus Racemosa	7		T
447	Upodika/Potaki	Basella rubra	1		C
448	Ushira	<i>Vetiveria zizanioides</i>	7		G/H
449	Vacha	Acorus Calamus	10		H
450	Vacha Bheda / Japanees Sweet flag	<i>Acorus gramineus</i>	2		H
451	Vaijayanti Tulasi	Occimum viride	2		H
452	Vakeri	<i>Molluva stricta</i>		20	C
453	Vansha	Banbusa bambos	6		G/H
454	Vansha Bheda / Japanees Bamboo	<i>Bambusa tulda</i>	1		G/H

Dr. Meena
M. D.

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455	Vansha Bheda / Giant Burmese Timber Bamboo	<i>Dendrocalamus asper</i>	1		G/H
456	Vansha Krishna / Black Bamboo	<i>Phyllostachys nigra</i>	1		G/H
457	Vansha Manga	<i>Dendrocalamus stocksii</i>	1		G/H
458	Vansha Polymorpha	<i>Bambusa polymorpha</i>	1		G/H
459	Vanya Tulasi	<i>Ocimum Canum</i>	2		H
460	Vanyashuran	<i>Amorphophyllus sylvesticus</i>	1		H
461	Varahi	<i>Dioscorea Bulbifera</i>	3		C
462	Varahi Bheda	<i>Dioscorea alata</i>		1	C
463	Varuna	<i>Crataeva Nurvula</i>	4	2	T
464	Vasa	<i>Adhatoda Vasica</i>	70		S
465	Vasa Krushna bheda	<i>Strobilanthes Hyinianus</i>	2		H
466	Vata	<i>Ficus Bengalensis</i>	3		T
467	Vatama Vanya	<i>Terminalia Catappa</i>	4		T
468	Vatama Vanya	<i>Sterculia foetida</i>	3		T
469	Vidanga	<i>Embelia Robusta</i>	2		S
470	Vidanga-adultration	<i>Measa indica</i>	1		S
471	Vidari	<i>Ipomoea Digitata</i>	2		C
472	Vikankata Bheda	<i>Gymnosporia rothiana</i>	1		T
473	Vikankata Bheda	<i>Flacourtia jangomas</i>		1	T
474	Vilayati Chicha	<i>Pithocellobium dulce</i>	1		T
475	Virataru	<i>Dichrostachys cinerea</i>	1		T
476	Vishnukranta	<i>Evolvulus Alsinoideus</i>	2	10	H
477	Vrikshamla	<i>Garcinia Indica</i>	3		T
478	Vruddhadaru	<i>Argyria Speciosa</i>	4		C
479	Vuaghra Eranda	<i>Jatropha Curucs</i>	1		S
480	Warang	<i>Kydia calycina</i>	1		T
481	Waras	<i>Heterophragma quadriloculare</i>	1		T
482	Yavani	<i>Trachispermum Amami</i>	1		H
483	Yuthika	<i>Jasminum Auriculata</i>	2		S
484	Zandu	<i>Tagetes Erecta</i>	2		H
			1884	249	
Total			2133		

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Total No. of plants: 2133

Total no. of species: 484

List of Medicinal Plants updated Jul 2023

	No of species	Total no. of plants
Climber	66	338
Epiphytes	2	6
Grasses	19	85
Herb	138	733
Orchids	1	1
Shrub	63	352
Trees	195	618
Total	484	2133

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