



Dattakala Shikshan Sanstha's

DATTAKALA GROUP OF INSTITUTIONS

| NAAC Accredited & ISO Certified |

Approved by AICTE - New Delhi, DTE - Mumbai, Recognized by Govt. of Maharashtra

Affiliated to Savitribai Phule Pune University, Pune and M.S.B.T.E., Mumbai

| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Ref: NAAC 2024/MLD/Cr-7.1.3

Date-05/04/2024

Criteria 7.1.3	<p>Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following</p> <ol style="list-style-type: none">1. Green audit / Environment audit2. Energy audit3. Clean and green campus initiatives4. Beyond the campus environmental promotion activities
Findings of DVV	<p>HEI to provide the supporting documents as per NAAC SOP. HEI to provide the copies of all the three audit reports - environmental, green and energy made by a certified agency ; HEI to provide the weblinks to circulars , reports , attendance , geo-tagged photos for all the in-house and beyond the campus activities for the metric 7.1.3</p>
Response/ Clarification	<p>1. As per the clarification, copy of Green and Environmental Audit, Energy Audit, Clean & Green Campus Initiatives and environment promotional activities as per index are attached (Appendix I)</p>



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Appendix I



Dattakala Shikshan Sanstha's

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Environmental Audit



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Swami-Chincholi, Tal Daund
Dist.-Pune. Pin 413 130

ENVIRONMENTAL AUDIT REPORT
of
DATTAKALA SHIKSHAN SANSTHA,
Swami Chinchohi, Tal: Daund, District: Pune



Year: 2020-21

Prepared by

ENRICH CONSULTANTS

Yashashree, 26, Nirmal Bag Society,
Near Mukangan English School, Parvat, Pune 411009
Phone: 09890444795, Email: enrichcons@gmail.com



Director

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Dist: Pune Pin: 413 110

MAHARASHTRA ENERGY DEVELOPMENT AGENCY

An ISO 9001 : 2008 Reg. no : PQ 91 / 2442



Maharashtra Energy Development Agency

(Government of Maharashtra Institution)

Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,

Aundh, Pune, Maharashtra 411067

Ph No: 020-35000450

E-mail: ees@mahaauria.com, Web: www.mahaauria.com

ECN/2021-22/CR-14/1577

22nd April, 2021

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

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

Name and Address of the firm : M/s Enrich Consultants
Yashashree, Plot No. 26, Nirmal Bag Society,
Near Muktagan English School, Parvati,
Pune - 411009.

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

Registration Number : MEDA/ECN/2021-22/Class A/EA-03

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till 21st April, 2023 from the date of registration, to carry out energy audits under the Energy Conservation Programme
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

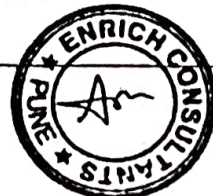
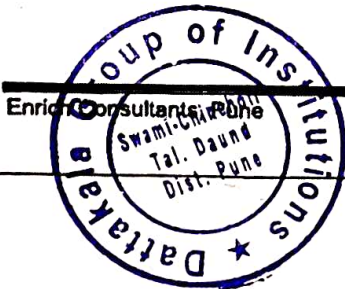
General Manager (EC)

Director

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Enrich Consultants

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

Ref: EC/DSS/20-21/03

Date: 25/8/2021

CERTIFICATE

This is to certify that we have conducted Environmental Audit at Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune, in the Academic year 2020-21.

The Institute has adopted following Green practices:

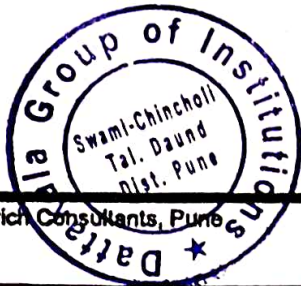
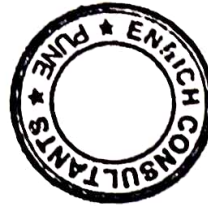
- Usage of Energy Efficient LED Fittings
- Installation of 102 kWp Roof Top Solar PV Plant.
- Installation of 6000 LPD Solar Water Heating System
- Segregation of Waste at source
- Tree Plantation in the campus
- Creation of awareness by Display of posters on Resource conservation

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

For Enrich Consultants,



A Y Mehendale,
Certified Energy Auditor
EA-8192

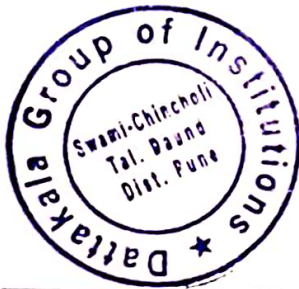


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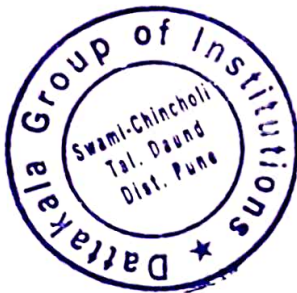
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ACKNOWLEDGEMENT

We at Enrich Consultants, Pune, express our sincere gratitude to the management of Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune, for awarding us the assignment of Environmental Audit of their Swami Chincholi campus for the Academic Year: 2020-21.

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




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EXECUTIVE SUMMARY

1. Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune consumes Energy in the form of Electrical Energy used for various gadgets, Office & other facilities.

2. Present Level of Energy Consumption & CO₂ Emission:

No	Parameter	Energy consumed, kWh	CO ₂ Emissions, MT
1	Total	156689	141.02
2	Maximum	16291	13.76
3	Minimum	8394	8.45
4	Average	13057.42	11.75

3. Pollution caused due to Institute Activities:

- > Air pollution: Mainly CO₂ on account of Electricity Consumption
- > Solid Waste: Bio degradable Kitchen Waste, Garden Waste
- > Liquid Waste: Human liquid waste

4. Usage of Renewable Energy:

- The Institute has installed Roof Top Solar PV Plant of Capacity 102 kWp.
- Energy generated by 102 kWp Roof Top Solar PV Plant is 122400 kWh
- Reduction in CO₂ Emission in 20-21 is 110.2 MT.

5. Indoor Air Quality Parameters:

No	Parameter/Value	AQI	PM-2.5	PM-10
1	Maximum	70	42	56
2	Minimum	31	18	24

6. Indoor Comfort Condition Parameters:

No	Parameter/Value	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
1	Maximum	30.2	77	456	55
2	Minimum	29.9	55	68	33

7. Waste Management:

7.1 Segregation of Waste at Source:

The waste is segregated at source. Separate Dry and Wet waste collection bins are provided at key locations in the campus. It is then further disposed.



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7.2 Liquid Waste Management:

The Institute has a Septic Tank and is cleaned periodically.

7.3 E- Waste Management:

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

8. Rain Water Management:

The Institute has installed pipes to collect the Rain Water falling on terrace. The Rain water is stored in an open well. This is further used for gardening purpose.

9. Green & Sustainable Practices:

- Tree Plantation in the campus
- Creation of awareness by Display of posters on Resource conservation

10. Notes & Assumptions:

1. 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
2. 1 kWp Solar PV system generates 4 kWh of Electrical Energy per Day

11. References:

1. For Indoor Air Quality: www.cpcb.com
2. For Indoor Comfort Parameters: www.ishrae.com
3. For Energy Generated by Solar PV Plant: www.solarroftop.gov.in
4. For Computation of CO₂ Emissions: www.tatapower.com

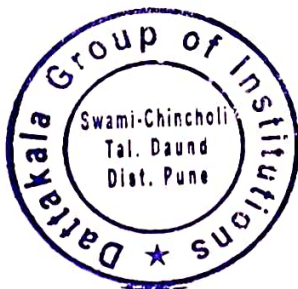


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ABBREVIATIONS

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



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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 compiled with and adequate care has been taken towards environmental protection and preservation

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

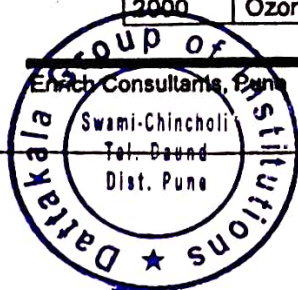
1.1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

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

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

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



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

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:

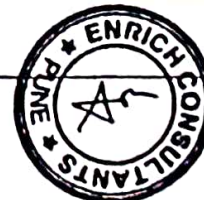
1. To study the consumption of resources and CO₂ Emission
2. To study usage of Renewable Energy & CO₂ Emission Reduction
3. Study Indoor Air Quality Parameters
4. Study of Indoor Comfort conditions
5. Study of Waste Management
6. Study of Rain Water Harvesting
7. Study of Environment Friendly Initiatives

1.3 Table No-4: General Details of Institute:

No	Head	Particulars
1	Name	Dattakala Shikshan Sanstha
2	Address	Swami Chincholi, Tal: Daund, District: Pune
3	Affiliation	Savitribai Phule Pune University



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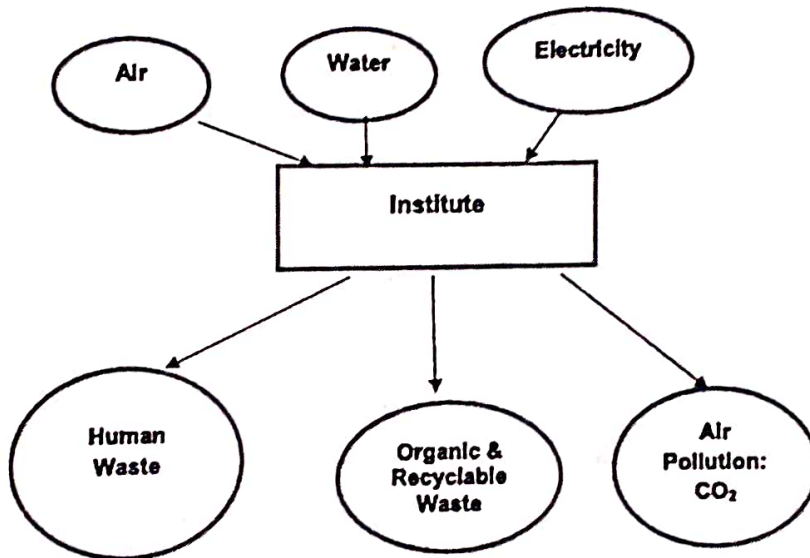
CHAPTER-II STUDY OF CONSUMPTION OF RESOURCES & CO₂ EMISSION

2.1 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.

2.2 Chart No 1: Representation of Institute as a System:



2.3 Computation of CO₂ Emissions: 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 & day to day activities.

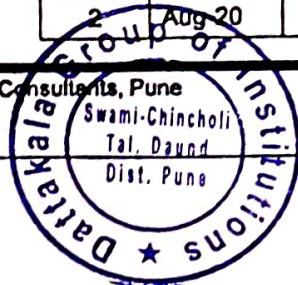
Basis for computation of CO₂ Emissions:

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

Table No 5: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jul-20	12589	11.33
2	Aug-20	14584	13.13

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3	Sep-20	12860	11.57
4	Oct-20	12252	11.03
5	Nov-20	12394	11.15
6	Dec-20	13564	12.21
7	Jan-21	12734	11.46
8	Feb-21	12326	11.09
9	Mar-21	15291	13.76
10	Apr-21	14233	12.81
11	May-21	14468	13.02
12	Jun-21	9394	8.45
13	Total	156689	141.02
14	Maximum	15291	13.76
15	Minimum	9394	8.45
16	Average	13057.42	11.75

Chart No 2: Representation of Month wise CO₂ emissions:

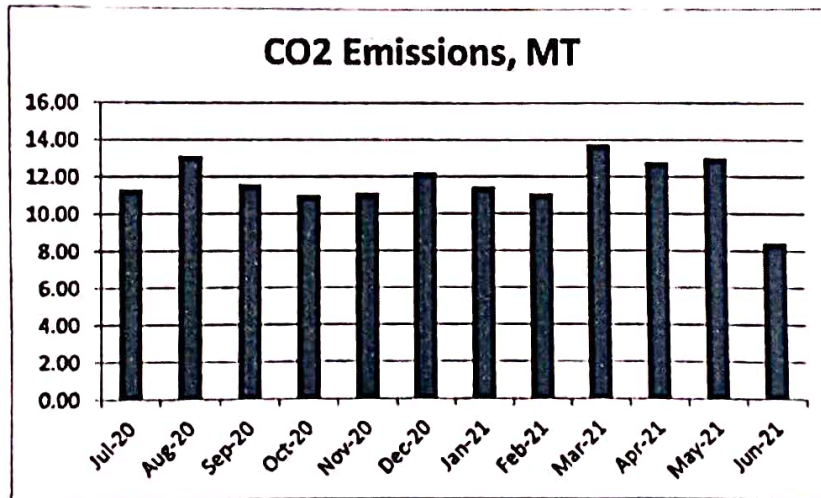
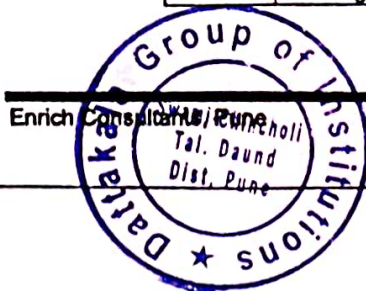


Table No 6: Key observations:

No	Value	Energy Consumed, kWh	CO ₂ emissions, MT
1	Total	156689	141.02
2	Maximum	15291	13.76
3	Minimum	9394	8.45
4	Average	13057.42	11.75



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CHAPTER-III STUDY OF REDUCTION IN CO₂ EMISSION

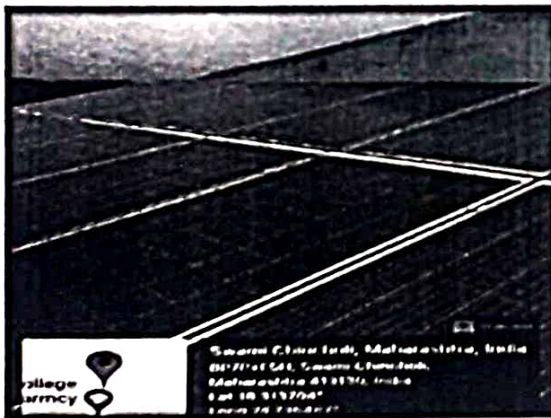
The Institute has installed Roof Top Solar PV Plant of Capacity 102 kWp and Solar Thermal Water Heating System of Capacity 6000 LPD.

In the following Table, we compute the reduction in Annual CO₂ Emissions.

Table No 7: Computation of Reduction In Annual CO₂ Reduction:

No	Particulars	Value	Unit
1	Solar PV Plant Capacity	102	kWp
2	Average Energy generated per kWp	4	kWh/kWp
3	Annual working days	300	Nos
4	Annual Energy generated = (2) * (3) * (4)	122400	kWh/Annum
5	1 kWh of Electrical Energy is equivalent to	0.9	Kg of CO ₂
6	Annual Reduction In CO ₂ Emissions = 4 * 5 /1000	110.2	MT

Photograph of Roof Top Solar PV Plant & Solar Thermal Water Heating System:



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CHAPTER-IV STUDY OF INDOOR AIR QUALITY PARAMETERS

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.

Rapid urbanization and industrialization has added other elements/compounds to the pure air and thus caused the increase in pollution. In order to prevent, control and abate air pollution, the Air (Prevention and Control of Pollution) Act was enacted in 1981.

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. As the AQI increases, it means that a large percentage of the population will experience severe adverse health effects. The measurement of the AQI requires an air monitor and an air pollutant concentration over a specified averaging period.

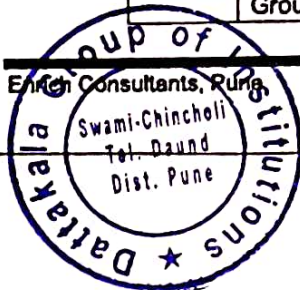
We present herewith following important Parameters.

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 8: Indoor Air Quality Parameters:

No	Location	AQI	PM2.5	PM10
	Engg. College			
	Ground Floor			

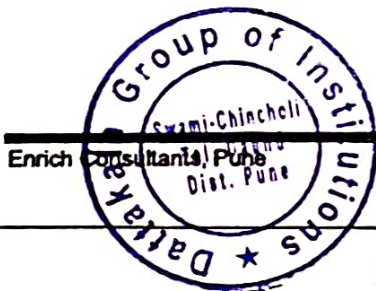
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1	Admin Office	41	26	31
2	Laboratory	56	34	39
	First Floor			
3	Seminar Hall	51	30	38
4	Class Room	53	30	39
	Second Floor			
5	Electrical Lab	56	33	30
6	MCA Dept	54	32	29
	Third Floor			
7	Mech. Dept	60	38	48
8	CAD CAM Lab	58	37	42
	Pharmacy Building(Diploma)			
	Ground Floor			
9	Admin Office	45	27	32
	First Floor			
10	Library	70	42	55
11	Laboratory	45	25	32
	Second Floor			
12	Laboratory	43	26	39
13	Laboratory	31	18	24
	Girls Pharmacy College			
	Ground Floor			
14	Office	50	27	36
15	Pharmaceutics Lab	41	24	37
	First Floor			
16	Lab-1	37	21	37
17	Lab-2	50	30	36
18	Computer Centre	49	30	32
	Pharmacy College(Degree)			
	Ground Floor			
19	Admin Office	35	21	25
20	Reading Room	43	26	32
	First Floor			
21	Classroom	36	22	34
22	Lab	31	19	27
23	Maximum	70	42	55
24	Minimum	31	18	24



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CHAPTER V STUDY OF INDOOR COMFORT CONDITION PARAMETERS

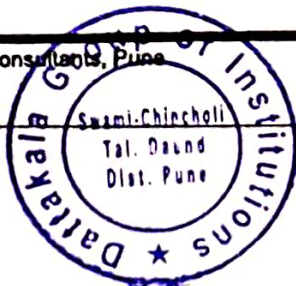
In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit.

The Parameters include:

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

Table No 9: Study of Indoor Comfort Condition Parameters:

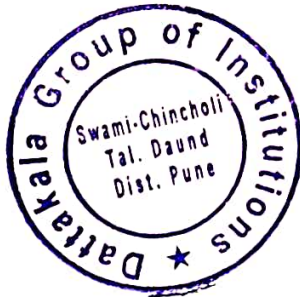
No	Location	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
	Engg. College				
	Ground Floor				
1	Admin Office	30	77	70	37
2	Laboratory	30.2	77	68	42
	First Floor				
3	Seminar Hall	30.1	70	258	55
4	Class Room	30.2	69	160	45
	Second Floor				
5	Electrical Lab	30.1	68	125	40
6	MCA Dept	30.1	69	138	39
	Thrd Floor				
7	Mech. Dept	30.2	67	192	40
8	CAD CAM Lab	30.1	68	173	33
	Pharmacy Building(Diploma)				
	Ground Floor				
9	Admin Office	30.2	65	124	41
	First Floor				
10	Library	30.1	64	168	47
11	Laboratory	30.2	63	99	45
	Second Floor				
12	Laboratory	30.1	65	159	39
13	Laboratory	29.9	62	233	46
	Girls Pharmacy College				
	Ground Floor				
14	Office	30.1	63	180	39
15	Pharmaceutics Lab	30.2	62	375	40



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	First Floor				
16	Lab-1	30.1	64	138	46
17	Lab-2	30.2	63	258	39
18	Computer Centre	30.1	62	325	39
	Pharmacy College(Degree)				
	Ground Floor				
19	Admin Office	30.1	61	208	41
20	Reading Room	30.1	62	369	49
	First Floor				
21	Classroom	30.2	59	456	39
22	Lab	30.1	55	257	37
23	Maximum	30.2	77	456	55
24	Minimum	29.9	55	68	33



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CHAPTER-VI STUDY OF WASTE MANAGEMENT

6.1 Segregation of Waste at Source:

The waste is segregated at source. Waste collection bins are provided at key locations in the campus. It is then further disposed.

Photograph of Waste Collection Bin:

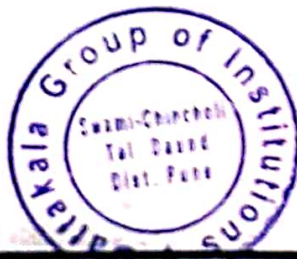


6.2 Liquid Waste Management:

The Institute has a Septic tank and is cleaned periodically.

6.3 E Waste Management:

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

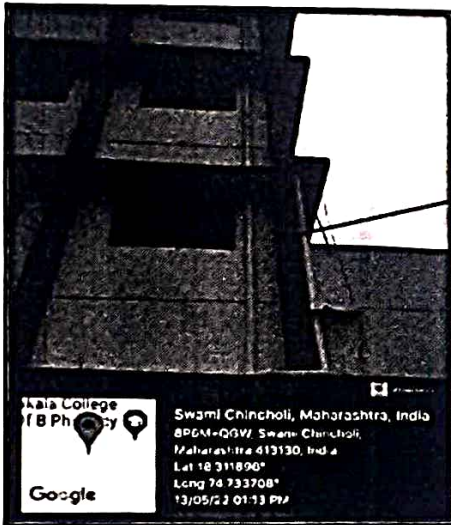


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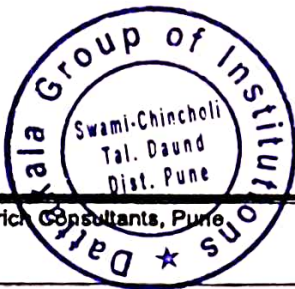
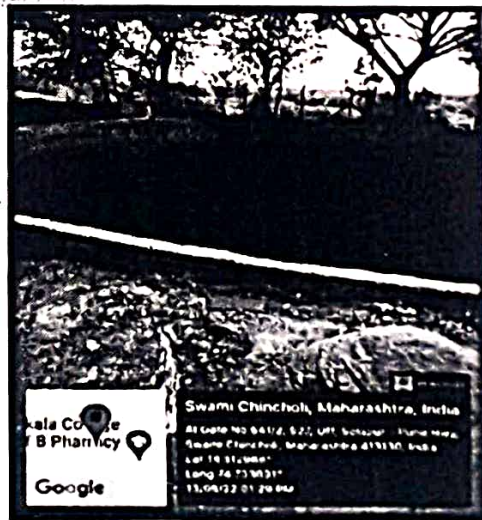
CHAPTER-VII STUDY OF RAIN WATER MANAGEMENT

The Institute has installed Pipes to collect the Rain Water falling on terrace. The Rain water is stored in an open well. This is further used for gardening purpose.



Rain Water
Collection Pipe

Open Well



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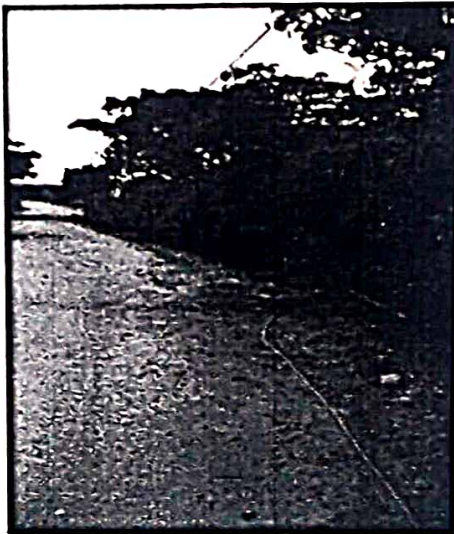


CHAPTER-VIII STUDY OF ENVIRONMENT FRIENDLY INITIATIVES

8.1 Plantation In the Campus:

The Institute has well maintained Garden, Inside the campus.

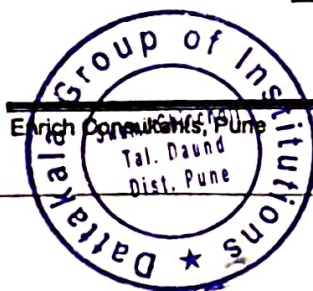
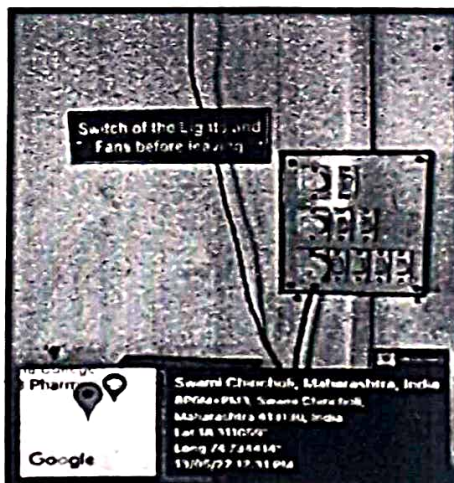
Photograph of Internal Tree Plantation:



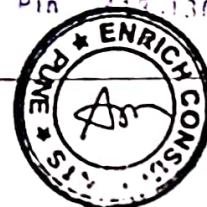
8.2 Creation of Awareness by Display of Posters:

The Institute has displayed posters by display of Posters on Resource Conservation.

Photograph of Posters on Resource Conservation:



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ANNEXURE: VARIOUS AIR QUALITY, WATER 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 Water Quality Standards:

No	Designated Best Use	Criteria
1	Drinking Water Source without conventional Treatment but after disinfection	pH between 6.5 to 8.5 Dissolved Oxygen 6 mg/l or more
2	Drinking water source after conventional treatment and disinfection	pH between 6 to 9 Dissolved Oxygen 4 mg/l or more
3	Outdoor Bathing (Organized)	pH between 6.5 to 8.5 Dissolved Oxygen 5 mg/l or more
4	Controlled Waste Disposal	pH between 6 to 8.5



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3. 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

4. Thermal Comfort Conditions: For Non-conditioned Buildings:

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



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Dattakala Shikshan Sanstha's

DATTAKALA GROUP OF INSTITUTIONS

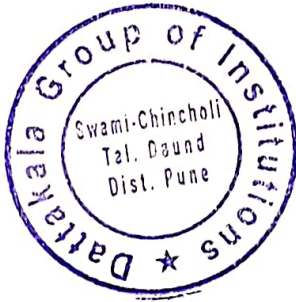
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Green Audit



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Swami-Chincholi, Tal Daund
Dist - Pune Pin 413 130

GREEN AUDIT REPORT
of
DATTAKALA SHIKSHAN SANSTHA,
Swami Chincholi, Tal: Daund, District: Pune



Year: 2020-21

Prepared by

Enrich Consultants

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



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MAHARASHTRA ENERGY DEVELOPMENT AGENCY

As GO 9051 - 2008 Reg. no. : RD 91 / 2002



Maharashtra Energy Development Agency

(Government of Maharashtra Institution)

Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,

Aundh, Pune, Maharashtra 411067

Ph No: 020-35000450

Email: eee@mahauria.com, Web: www.mahauria.com

ECN/2021-22/CR-14/1577

22nd April, 2021

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

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

Name and Address of the firm : **M/s Enrich Consultants**
Yashashree, Plot No. 26, Nirmal Bag Society,
Near Muktiangan English School, Parvati,
Pune - 411009.

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

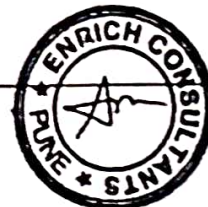
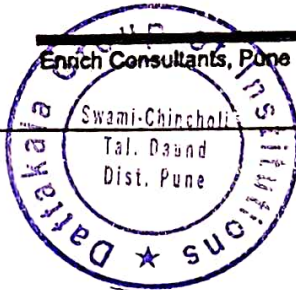
Registration Number : *MEDA/ECN/2021-22/Class A/EA-03*

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till 21st April, 2023 from the date of registration, to carry out energy audits under the Energy Conservation Programme
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

General Manager (EC)

Director

Dattakala Group of Institutions
Swami-Chincholi, Tal. Daund
Dist. Pune Pin - 413 130



Enrich Consultants

Yashashree, 26, Nirmal Bag Society,
Near Muktagan English School, Parvatl, Pune 411 009
Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/DSS/20-21/02

Date: 25/8/2021

CERTIFICATE

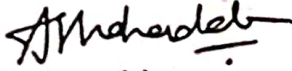
This is to certify that we have conducted Green Audit at Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune, in the Academic year 2020-21.

The Institute has adopted following Green practices:

- > Usage of Energy Efficient LED Fittings
- > Installation of 102 kWp Roof Top Solar PV Plant
- > Installation of 6000 LPD Solar Water Heating System
- > Segregation of Waste at source
- > Good Internal Roads within the campus
- > Tree Plantation in the campus
- > Provision of Ramp for Divyangajan
- > Creation of awareness by Display of posters on Resource conservation

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

For Enrich Consultants,


A Y Mehendale,
Certified Energy Auditor
EA-8192



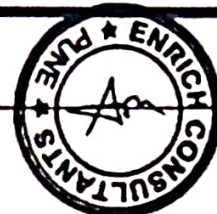

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Dist -Pune. Pin 413 130



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3	Carbon Foot printing	12
4	Study of Usage of Renewable Energy	14
5	Study of Waste Management	15
6	Study of Rain Water Management	16
7	Study of Green & Sustainable Practices	17

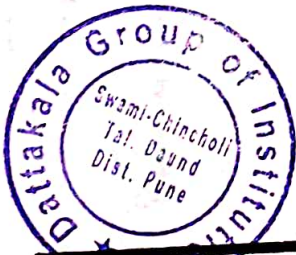
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ACKNOWLEDGEMENT

We at Enrich Consultants, Pune, express our sincere gratitude to the management Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune, for awarding us the assignment of Green Audit of their Swami Chincholi campus for the Academic Year: 2020-21.

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



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Enrich Consultants, Pune



EXECUTIVE SUMMARY

1. Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune consumes Energy in the form of Electrical Energy used for various gadgets, Office & other facilities.

2. Present Level of Energy Consumption & CO₂ Emission:

No	Parameter	Energy consumed, kWh	CO ₂ Emissions, MT
1	Total	156689	141.02
2	Maximum	15291	13.76
3	Minimum	9394	8.45
4	Average	13057.42	11.75

3. Various Majors Adopted for Energy Conservation:

- Usage of Energy Efficient LED fittings
- Installation of 102 kWp Roof top Solar PV Plant
- Installation of 6000 LPD Solar Thermal Water Heating System

4. Usage of Renewable Energy % CO₂ Emission Reduction:

- The Institute has installed Roof Top Solar PV Plant of Capacity 102 kWp.
- Energy generated by 102 kWp Roof Top Solar PV Plant is 122400 kWh
- Reduction in CO₂ Emission in 20-21 is 110.2 MT.

5. Waste Management:

5.1 Segregation of Waste at Source:

The waste is segregated at source. Waste collection bins are provided at key locations in the campus.

5.2 Liquid Waste Management:

The Institute has a Septic Tank and is cleaned periodically.

5.3 E- Waste Management:

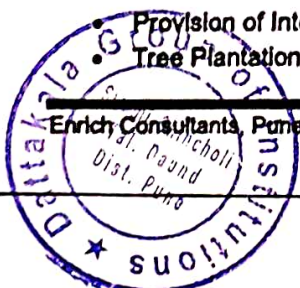
It is recommended to dispose of the E Waste through Authorized Agency.

6. Rain Water Management:

The Institute has installed Pipes to collect the Rain Water falling on the terrace. The Rain water is stored in an open well. This is further used for gardening purpose.

7. Green & Sustainable Practices:

- Provision of Internal Roads
- Tree Plantation in the campus



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- Provision of Ramp for Dhyangajan
- Creation of awareness by Display of posters on Resource conservation

8. Notes & Assumptions:

1. 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
2. 1 kWp Solar PV system generates 4 kWh of Electrical Energy per Day

9. References:

1. For CO₂ Emissions: www.tatapower.com
2. For Energy generated by Solar PV Plant: www.solarrooftop.gov.in



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ABBREVIATIONS

LED	:	Light Emitting Diode
KLD	:	Kilo Liters per Day
Kg	:	Kilo Gram
kWh	:	kilo-Watt Hour
kWp	:	Kilo Watt Peak
Qty	:	Quantity
MT	:	Metric Ton
CO ₂	:	Carbon Di Oxide



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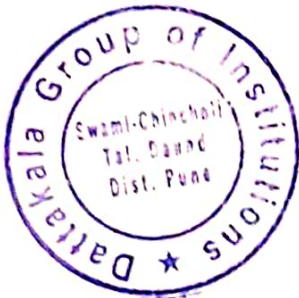
CHAPTER-I INTRODUCTION

1.1 Objectives:

1. To study the present Energy Consumption
2. To compute the CO₂ emissions
3. To study usage of Renewable Energy & CO₂ Emission Reduction
4. To study Waste Management
5. To study Rain Water Management
6. To study Green & Sustainable Practices

1.2 Table No-1: General Details of Institute:

No	Head	Particulars
1	Name	Dattakala Shikshan Sanstha
2	Address	Swami Chincholi, Tal: Daund, District: Pune
3	Affiliation	Savitribal Phule Pune University



~~Director~~
Dattakala Group of Institutions
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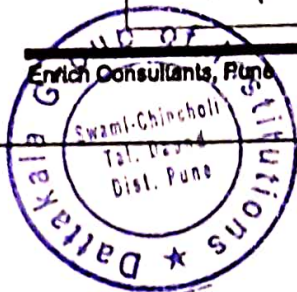
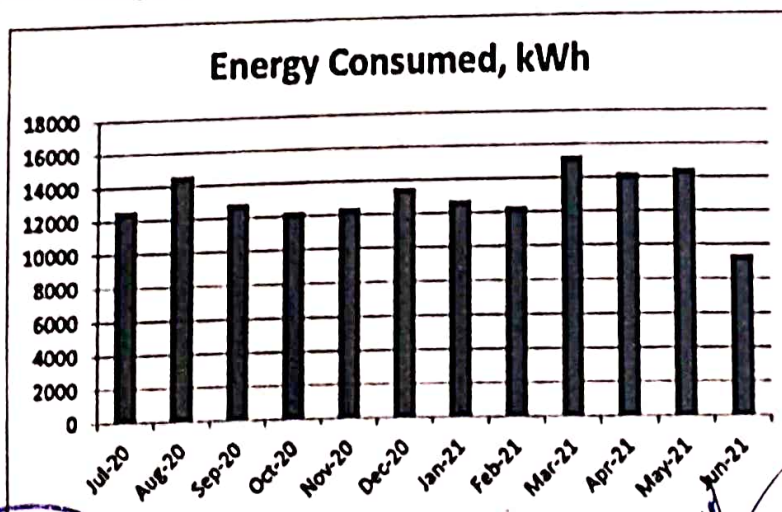


CHAPTER-II STUDY OF ELECTRICAL ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Bills
Table No 2: Electrical Bill Analysis- 2020-21:

No	Month	Energy Consumed, kWh
1	Jul-20	12589
2	Aug-20	14584
3	Sep-20	12860
4	Oct-20	12252
5	Nov-20	12394
6	Dec-20	13564
7	Jan-21	12734
8	Feb-21	12326
9	Mar-21	15291
10	Apr-21	14233
11	May-21	14468
12	Jun-21	9394
13	Total	156689
14	Maximum	15291
15	Minimum	9394
16	Average	13057.42

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



Dattakala Shikshan Sanstha
Swami-Chincholi, Tal. Daund, Dist. Pune



Table No 3: Key observations:

No	Parameter	Energy consumed, kWh
1	Total	156689
2	Maximum	15291
3	Minimum	9394
4	Average	13057.42



[Signature]
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CHAPTER-III CARBON FOOTPRINTING

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

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

The Institute uses Electrical Energy for various Electrical gadgets.

3.2 Basis for computation of CO₂ Emissions:

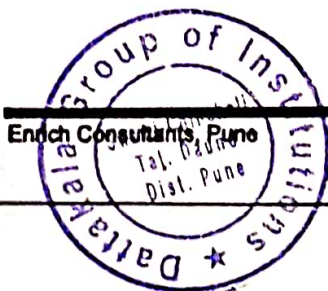
The basis of Calculation for CO₂ emissions due to Electrical Energy is:

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

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

Table No 4: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO2 Emissions, MT
1	Jul-20	12589	11.33
2	Aug-20	14584	13.13
3	Sep-20	12860	11.57
4	Oct-20	12252	11.03
5	Nov-20	12394	11.15
6	Dec-20	13564	12.21
7	Jan-21	12734	11.46
8	Feb-21	12326	11.09
9	Mar-21	15291	13.76
10	Apr-21	14233	12.81
11	May-21	14468	13.02
12	Jun-21	9394	8.45
13	Total	156689	141.02
14	Maximum	15291	13.76
15	Minimum	9394	8.45
16	Average	13057.42	11.75



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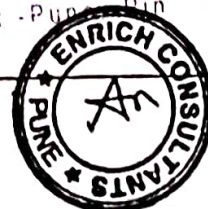


Chart No 2: Representation of Month wise CO₂ emissions:

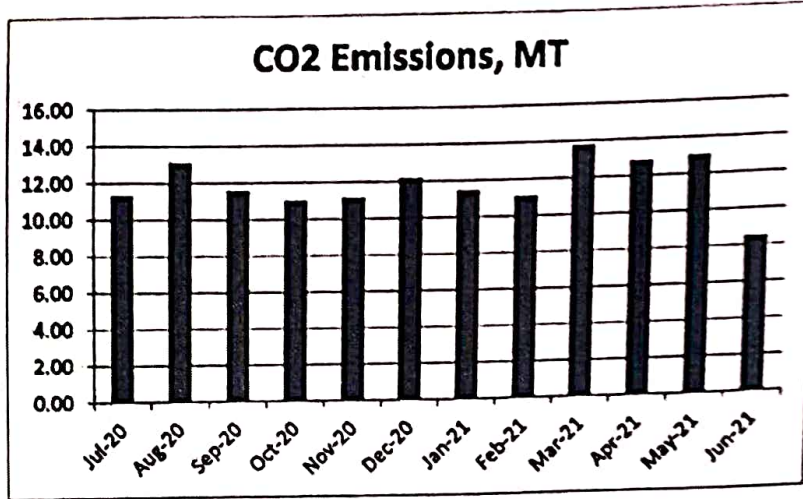
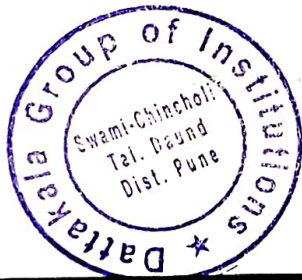


Table No 5: Key observations:

No	Value	Energy Consumed, kWh	CO2 emissions, MT
1	Total	156689	141.02
2	Maximum	15291	13.76
3	Minimum	9394	8.45
4	Average	13057.42	11.75



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CHAPTER-IV STUDY OF USAGE OF RENEWABLE ENERGY

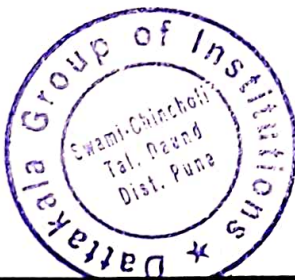
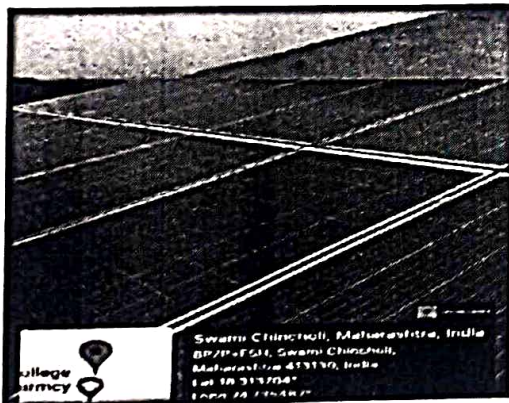
The Institute has installed Roof Top Solar PV Plant of Capacity 102 kWp and Solar Thermal Water Heating System of Capacity 6000 LPD.

In the following Table, we compute the reduction in Annual CO₂ Emissions.

Table No 6: Computation of Reduction In Annual CO₂ Reduction:

No	Particulars	Value	Unit
1	Solar PV Plant Capacity	102	kWp
2	Average Energy generated per kWp	4	kWh/kWp
3	Annual working days	300	Nos
4	Annual Energy generated = (2) * (3) * (4)	122400	kWh/Annum
5	1 kWh of Electrical Energy is equivalent to	0.9	Kg of CO ₂
6	Annual Reduction In CO ₂ Emissions = 4 * 5 /1000	110.2	MT

Photograph of Roof Top Solar PV Plant & Solar Thermal Water Heating System:



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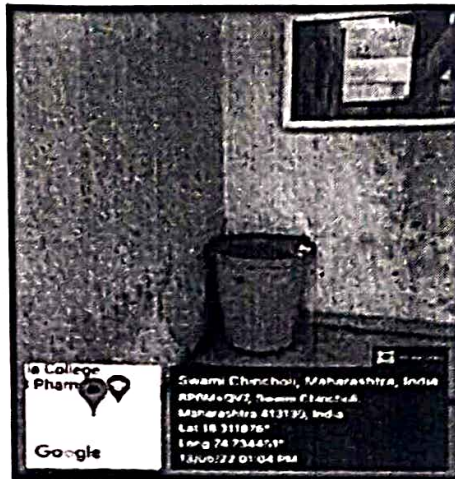


CHAPTER-V STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

The waste is segregated at source. Separate Dry and Wet waste collection bins are provided at key locations in the campus.

Photograph of Waste Collection Bins:



5.2 Liquid Waste Management:

The Institute has a Septic tank, and is cleaned periodically.

5.3 E Waste Management:

The E Waste is disposed of through Authorized Agency.

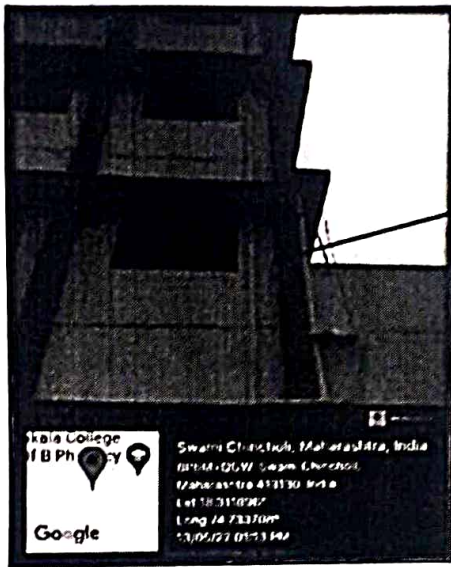


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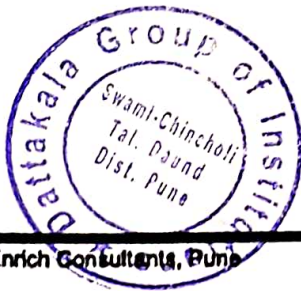
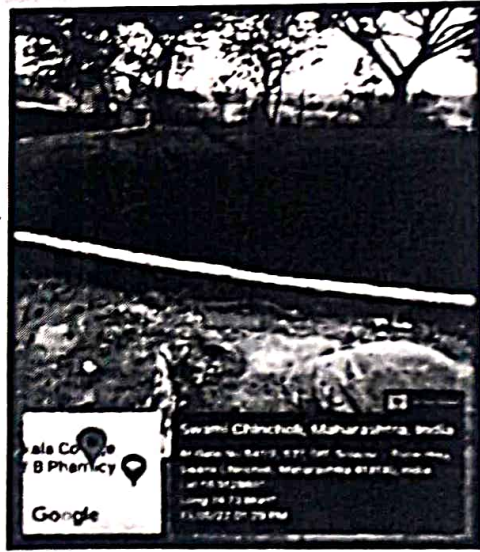
CHAPTER-VI STUDY OF RAIN WATER MANAGEMENT

The Institute has installed to collect the Rain Water falling on terrace. The Rain water is stored in an open well. This is further used for gardening purpose.



Rain Water
Collection Pipe

Open Well



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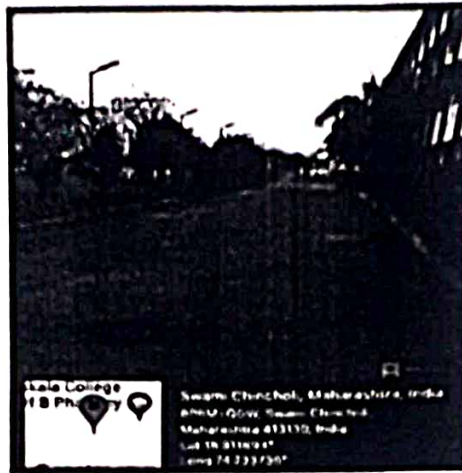


CHAPTER-VII STUDY OF GREEN & SUSTAINABLE PRACTICES

7.1 Pedestrian Friendly Roads:

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

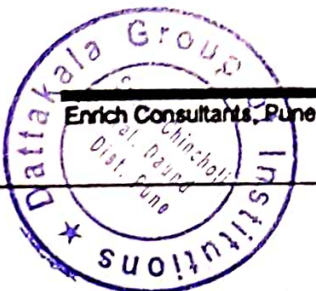
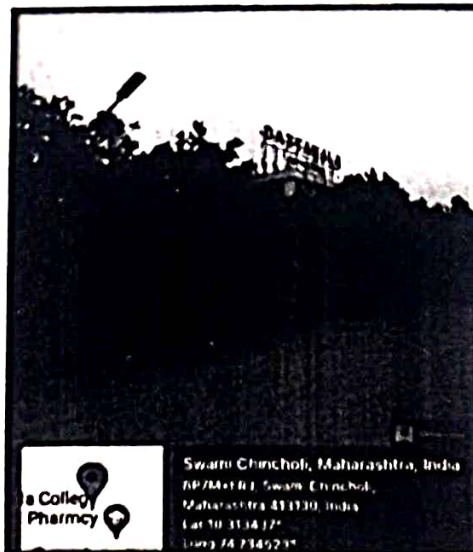
Photograph of Road within campus:



7.2 Plantation in the Campus:

The Institute has well maintained Garden, inside the campus.

Photograph of Internal Tree Plantation:



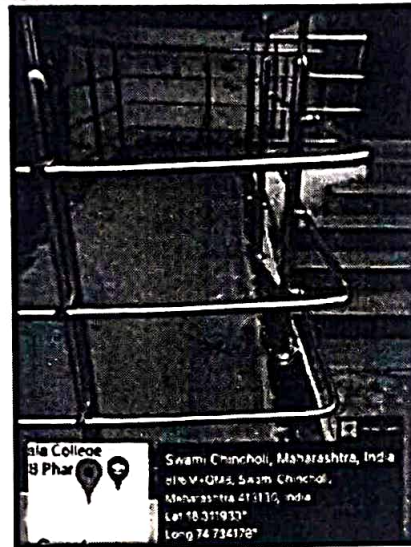
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7.3 Provision of Ramp for Divyangajan:

The Institute has made provision of Ramp for easy movement of Divyangajan.

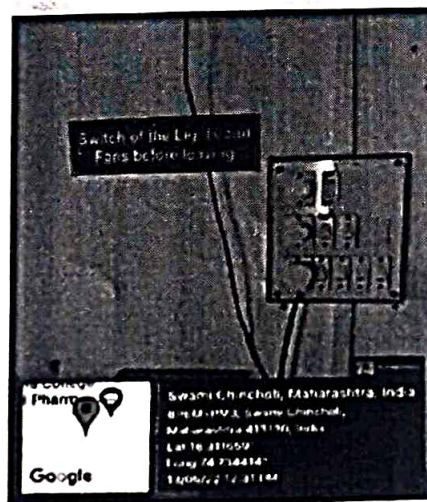
Photograph of Ramp:



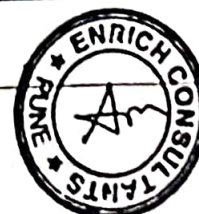
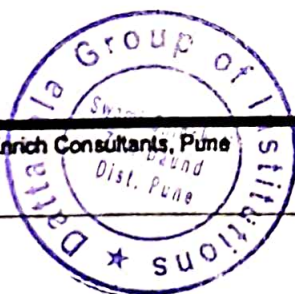
7.4 Creation of Awareness by Display of Posters:

At prominent location, Posters are displayed for creation of awareness on Resource Conservation.

Photograph of Poster on Energy Conservation:



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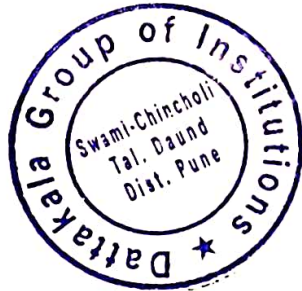
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Affiliated to Savitribai Phule Pune University, Pune and M.S.B.T.E., Mumbai

| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Energy Audit



Director

Dattakala Group of Institutions
Swami-Chincholi, Tal Daund
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ENERGY AUDIT REPORT
of
DATTAKALA SHIKSHAN SANSTHA,
Swami Chincholi, Tal: Daund, District: Pune

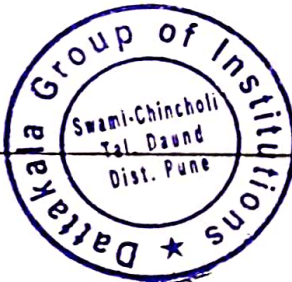


Year: 2020-21

Prepared by

Enrich Consultants

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



Director

Dattakala Group of Institutions
Swami-Chincholi, Tal. Daund
Dist. Pune Pin 413 100

MAHARASHTRA ENERGY DEVELOPMENT AGENCY

An ISO 9001:2000 Reg. No. / PQ 01 / 2002



Maharashtra Energy Development Agency

(Government of Maharashtra Institution)

Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,

Aundh, Pune, Maharashtra 411067

Ph No: 020-35000450

Email: eee@mahaeria.com, Web: www.mahaeria.com

ECN/2021-22/CR-14/1577

22nd April, 2021

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

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

Name and Address of the firm : M/s Enrich Consultants
Yashashree, Plot No. 26, Nirmal Bag Society,
Near Mukhtangan English School, Parvati,
Pune - 411009.

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

Registration Number : MEDA/ECN/2021-22/Class A/EA-03

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till 21st April, 2023 from the date of registration, to carry out energy audits under the Energy Conservation Programme
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

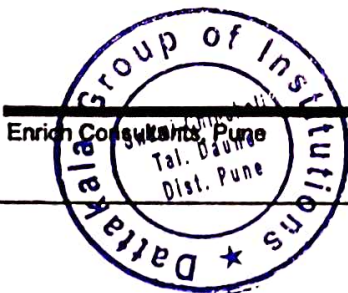
General Manager (EC)

Director

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Page 2



Enrich Consultants

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

Ref: EC/DSS/20-21/01

Date: 25/8/2021

CERTIFICATE

This is to certify that we have conducted Energy Audit at Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune, in the Academic year 2020-21.

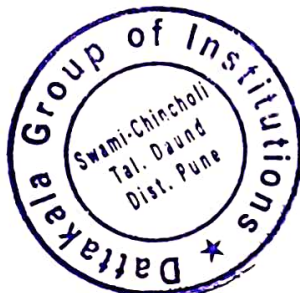
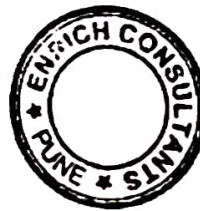
The Institute has adopted following Energy Efficient practices:

- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting
- Installation of 102 kWp Roof Top Solar PV Plant
- Installation of 6000 LPD Capacity Solar Water Heating System

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

For Enrich Consultants,


A Y Mehendale,
Certified Energy Auditor
EA-8192




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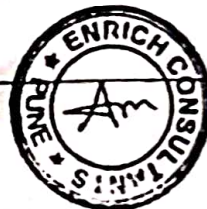
ACKNOWLEDGEMENT

We at Enrich Consultants, Pune, express our sincere gratitude to the management Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune, for awarding us the assignment of Energy Audit of their Swami Chincholi campus for the Academic Year: 2020-21.

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



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EXECUTIVE SUMMARY

1. Dattakala Shikshan Sanstha, Swami Chincholi, Tal: Daund, District: Pune consumes Energy in the form of Electrical Energy used for various gadgets, Office & other facilities.

2. Present Level of Energy Consumption & CO₂ Emission:

No	Parameter	Energy consumed, kWh	CO ₂ Emissions, MT
1	Total	156689	141.02
2	Maximum	16291	13.76
3	Minimum	9394	8.45
4	Average	13057.42	11.75

3. Various Majors Adopted for Energy Conservation:

- Usage of Energy Efficient LED fittings
- Installation of 102 kWp Roof top Solar PV Plant
- Installation of Solar Thermal Water Heating System of Capacity 6000 LPD

4. Usage of Alternate Energy Source:

- The Institute has installed Roof Top Solar PV Plant of Capacity 102 kWp.
- Energy purchased from MSEDCCL is 156689 kWh
- Energy generated by 102 kWp Roof Top Solar PV Plant is 122400 kWh
- Percentage of Usage of Alternate Energy to Annual Energy Demand is 44 %

5. Percentage of Lighting Power Requirements met by LED bulbs:

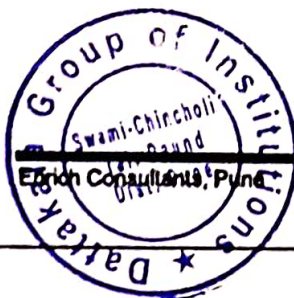
- The total Lighting Load is 20.84 kW.
- The LED Lighting Load is 2.84 kW.
- The percentage of LED to the total annual lighting power requirement is 13.64 %

6. Notes & Assumptions:

1. 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
2. 1 kWp Solar PV system generates 4 kWh of Electrical Energy per Day

7. References:

1. For CO₂ Emissions: www.tatapower.com
2. For Energy generated by Solar PV Plant: www.solarrooftop.gov.in

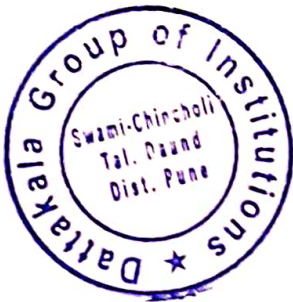


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ABBREVIATIONS

AC	: Air conditioner
MSEDCL	: Maharashtra Energy Distribution Company Limited
LED	: Light Emitting Diode
kWh	: kilo-Watt Hour
Qty	: Quantity
W	: Watt
KW	: Kilo Watt
PC	: Personal Computer
MT	: Metric Ton



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CHAPTER-I INTRODUCTION


1.1 Objectives:

1. To study Connected Load
2. To study the present Energy Consumption
3. To compute the CO₂ emissions
4. To study usage of Renewable Energy
5. To study usage of LED Lighting

1.2 Table No-1: General Details of Institute:

No	Head	Particulars
1	Name	Dattakala Shikshan Sanstha
2	Address	Swami Chincholi, Tal. Daund, District: Pune
3	Affiliation	Savitribai Phule Pune University




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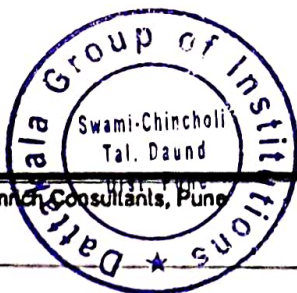
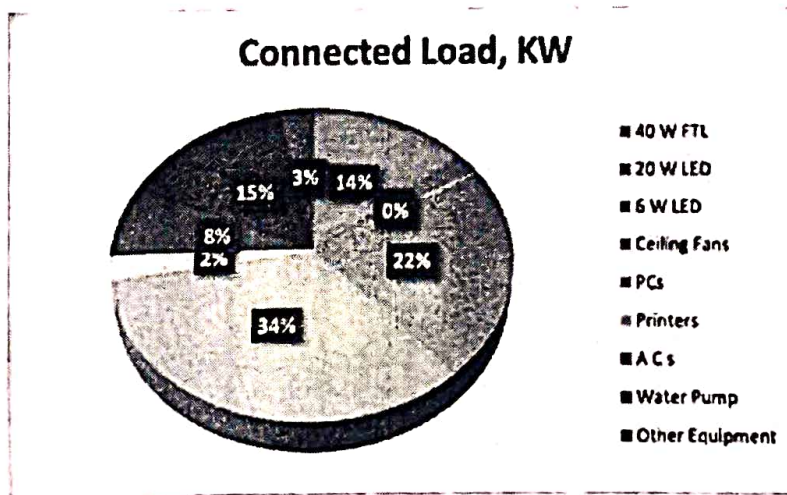
CHAPTER-II STUDY OF CONNECTED LOAD

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

Table No 2: Details of Overall Connected Load:

No	Equipment	Quantity	Load, W/Unit	Load, KW
1	40 W FTL	450	40	18
2	20 W LED	125	20	2.5
3	6 W LED	49	6	0.294
4	Ceiling Fans	429	65	27.89
5	PCs	282	150	42.3
6	Printers	17	175	2.98
7	A C s	7	1325	9.28
8	Water Pump	5	3730	18.65
9	Other Equipment	25	150	3.75
10	Total			126

Chart No 1: Total Connected Load:



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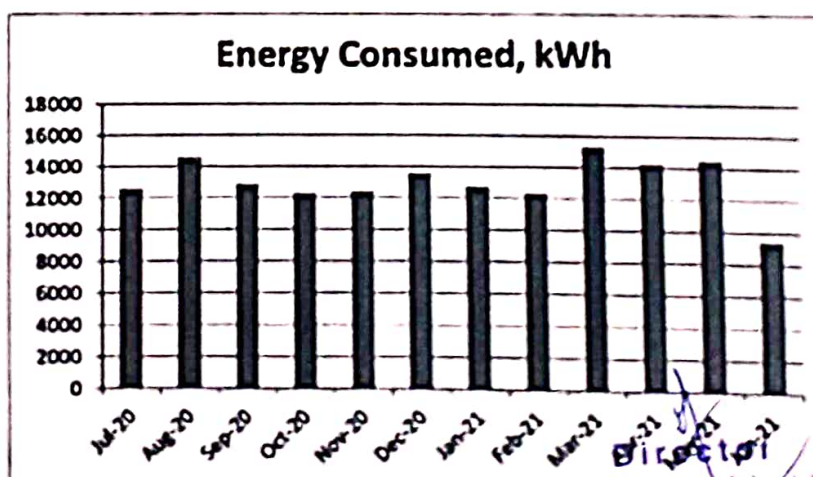
CHAPTER-III STUDY OF ELECTRICAL ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Bills

Table No 3: Electrical Bill Analysis- 2020-21:

No	Month	Energy Consumed, kWh	CO2 Emissions, MT
1	Jul-20	12589	11.33
2	Aug-20	14584	13.13
3	Sep-20	12860	11.57
4	Oct-20	12252	11.03
5	Nov-20	12394	11.15
6	Dec-20	13564	12.21
7	Jan-21	12734	11.46
8	Feb-21	12326	11.09
9	Mar-21	15291	13.76
10	Apr-21	14233	12.81
11	May-21	14468	13.02
12	Jun-21	9394	8.45
13	Total	156689	141.02
14	Maximum	15291	13.76
15	Minimum	9394	8.45
16	Average	13057.42	11.75

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



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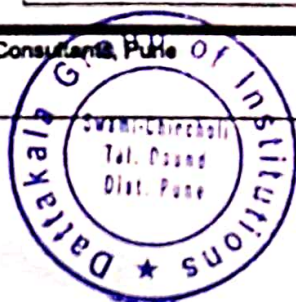
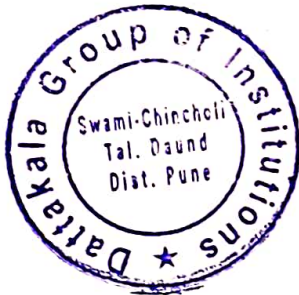
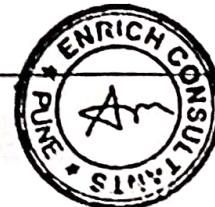


Table No 4: Key observations:

No	Parameter	Energy consumed, kWh
1	Total	156689
2	Maximum	15291
3	Minimum	9394
4	Average	13057.42



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CHAPTER-IV CARBON FOOTPRINTING

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

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

The Institute uses Electrical Energy for various Electrical gadgets.

Basis for computation of CO₂ Emissions:

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

- 1 kWh of Electrical Energy releases 0.83 Kg of CO₂ into atmosphere

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

Table No 5: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jul-20	12589	11.33
2	Aug-20	14584	12.13
3	Sep-20	12950	11.57
4	Oct-20	12252	11.33
5	Nov-20	12354	11.75
6	Dec-20	13584	12.21
7	Jan-21	12734	11.48
8	Feb-21	12325	11.39
9	Mar-21	15291	13.78
10	Apr-21	14233	12.81
11	May-21	14468	13.12
12	Jun-21	8394	8.45
13	Total	158889	141.32
14	Maximum	15291	13.78
15	Minimum	8394	8.45
16	Average	13057.42	11.75

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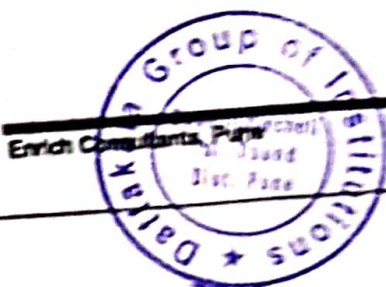


Chart No 3: Representation of Month wise CO₂ emissions:

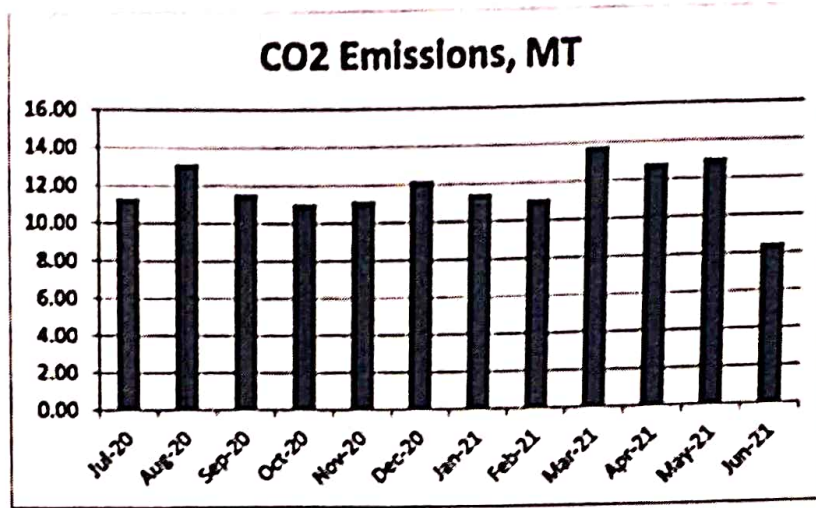


Table No 6: Key observations:

No	Value	Energy Consumed, kWh	CO2 emissions, MT
1	Total	156689	141.02
2	Maximum	15291	13.78
3	Minimum	9394	8.45
4	Average	13057.42	11.75



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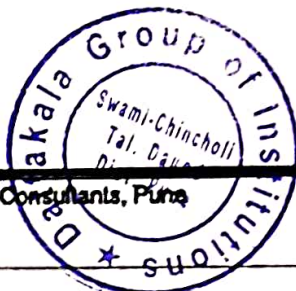
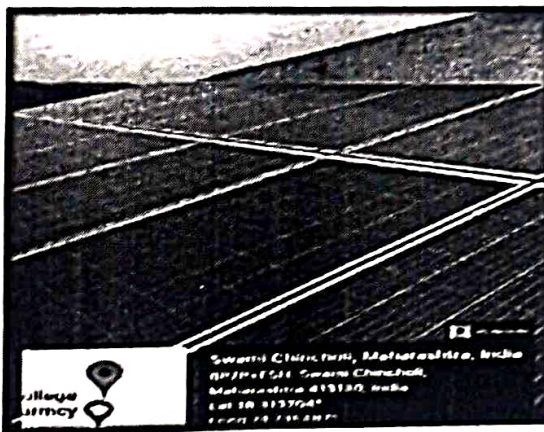
CHAPTER-V STUDY OF USAGE OF ALTERNATE ENERGY

The Institute has installed Roof Top Solar PV Plant of Capacity 102 kWp.
The Institute has also installed Solar Thermal Water Heating System of Capacity 6000 LPD, on the Hostel blocks.
In the following Table, we compute the percentage of usage of Alternate Energy to total Energy Demand.

Table No 7: Computation of % usage of Alternate Energy to Annual Energy Demand:

No	Particulars	Value	Unit
1	Annual Energy Purchased from MSEDCL	156689	kWh/Annum
2	Solar PV Plant Capacity	102	kWp
3	Average Energy generated per kWp	4	kWh/kWp
4	Annual working days	300	Nos
5	Annual Energy generated = (2) * (3) * (4)	122400	kWh/Annum
6	Total Annual Power requirement = (1) + (5)	279089	kWh/Annum
7	% of Annual power requirement met by Alternate Energy sources = (5)*100/(6)	44	%

Photograph of Roof Top Solar PV Plant & Solar Thermal Water Heating System:



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CHAPTER-VI STUDY OF USAGE OF LED LIGHTS

In this Chapter, we present the annual Lighting requirements and usage of LEDs.

Table No 8: Computation of Annual Lighting Power requirement met by LED Lights:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	450	Nos
2	No of 20 W LED Fittings	125	Nos
3	No of 6 W LED Fittings	49	
4	Load/Unit of 40 W FTL Fitting	40	W/Unit
5	Load/Unit of 20 W LED Fitting	20	W/Unit
6	Load/Unit of 7 W LED Fitting	7	W/Unit
7	Total Load of 40 W FTL Fittings=1*4	18	kW
8	Total Load of 20 W LED Fittings=2*5	2.5	kW
9	Total Load of 6 W LED Fittings=3*6	0.343	kW
10	Total Lighting Load= 7+8+9	20.84	kW
11	LED Lighting Load = 8+9	2.84	kW
12	% of Usage of LED Lighting=(11)*100/(10)	13.64	%



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Dattakala Shikshan Sanstha's

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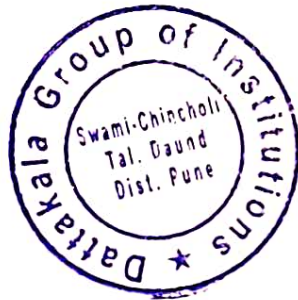
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Clean and Green Campus Initiatives



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Clean and green campus initiatives

The institute always tries to focus on policy regarding environmental issues. We have taken tree plantations to protect the environment.

Sr. No	Tree Name (Local)	Botanical Name	Family	Number of Trees
1	Ficus	Ficus Nenjamina	Moraceae	45
2	Pichkari	Spathodea Camp	Bignoniaceae	36
3	Castor	Ricinus Communis	Euphorbiaceae	01
4	Mango	Mangifera Indica	Anacardiaceae	03
5	Peepal tree	Ficus Religiosa	Moraceae	04
6	Rose	Rosa Floribun	Rosaceae	09
7	Sitaphal	Annonasquamosa	Annonaceae	04
8	Neem	Azadirachta Indica	Mathogany	20
9	Duranta	Duranta Erecta	Verbenaceae	100
10	Chafa	Plumeria	Apocynaceae	01
11	Papaya	Carica Papaya	Caricaceae	02
12	Cluster Fig	Ficus Racemosa	Moraceae	02
13	Palm	Arecaceae	Hypnodendraceae	160
14	Millingtonia	Millingtonia Hortensis	Bignoniccae	31
15	Guana	Psidium Guajava	Myrtaceae	02
16	Pomegranate	Punica Granatum	Lythraceae	02
17	Canna Lily	Canna	Cannaceae	40
18	Marigold	Tagetes Erecta	Asteraceae	03
19	Hibiscus	Hibiscus Rosa Sinensis	Malvaceae	06
20	Gulmohar	Delonix Regia	Fabaceae	03
21	Paper Flower	Bougainvillea Glabra	Nyctaginaceae	03
22	Jasmine	Jasminum Sambac	Oleaceae	01



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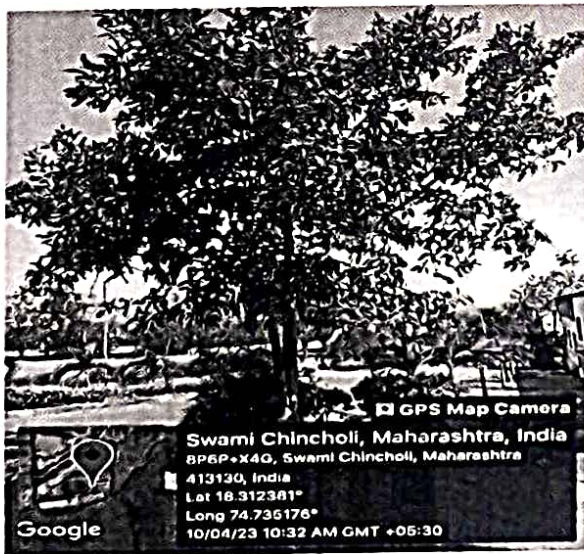
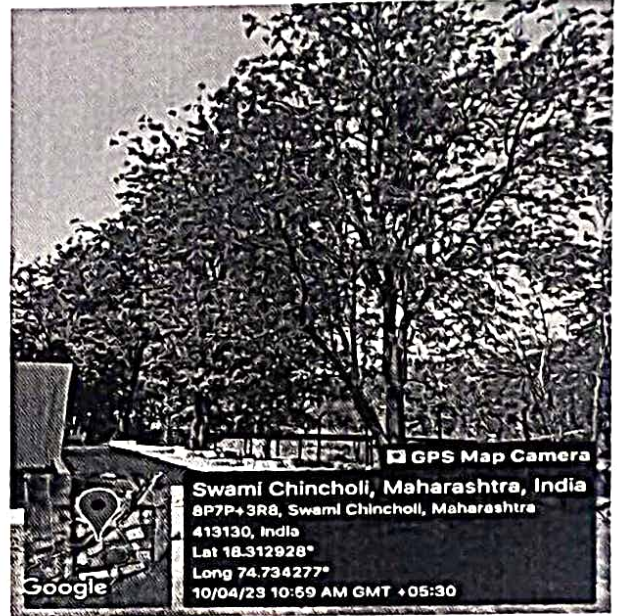
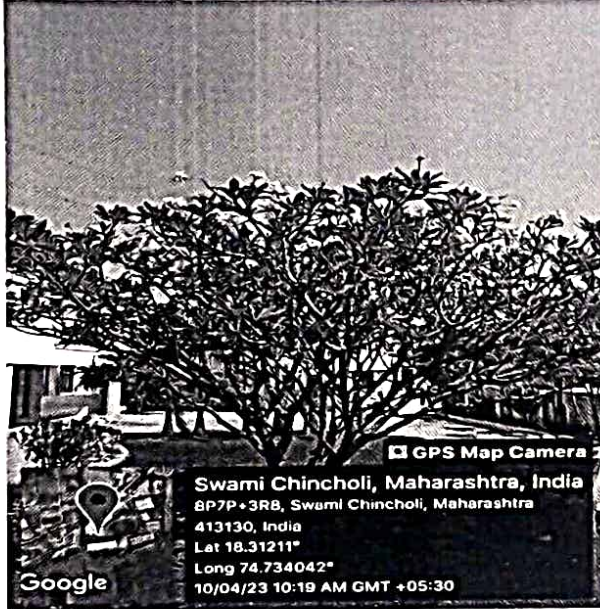
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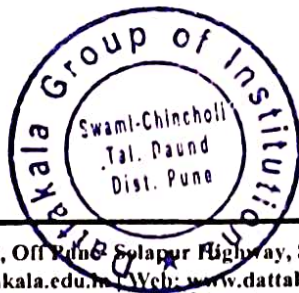
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Some of the geo tagged photographs of trees present in the campus



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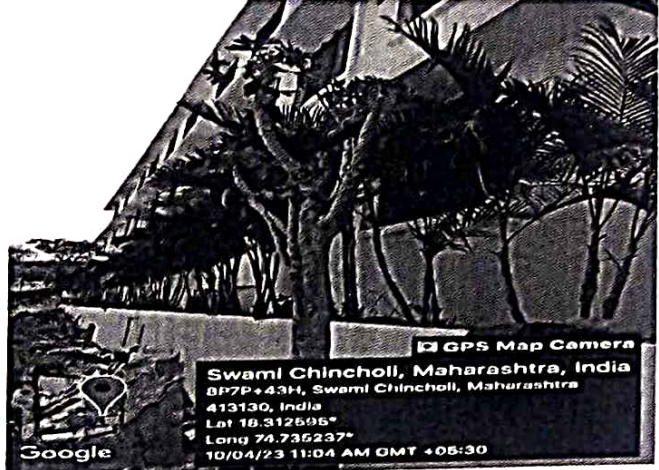
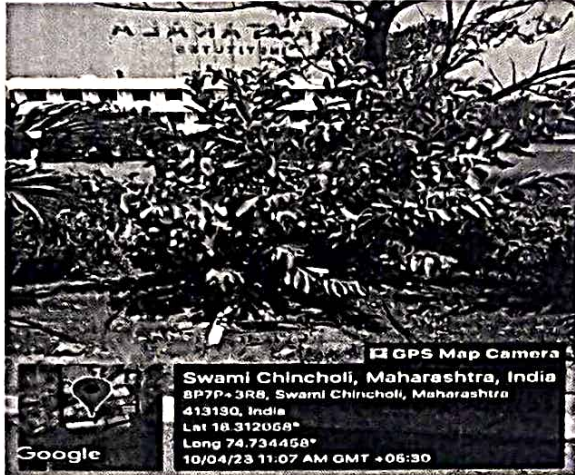
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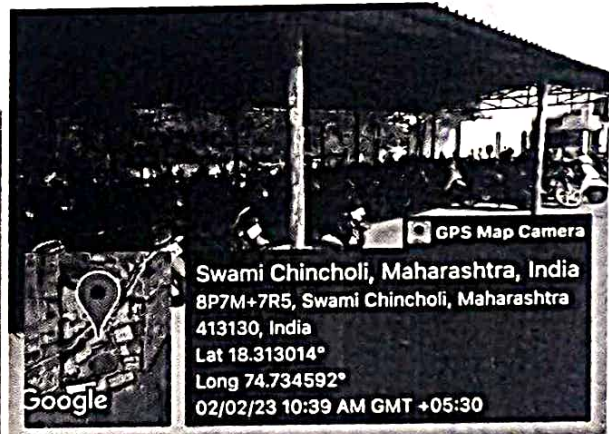
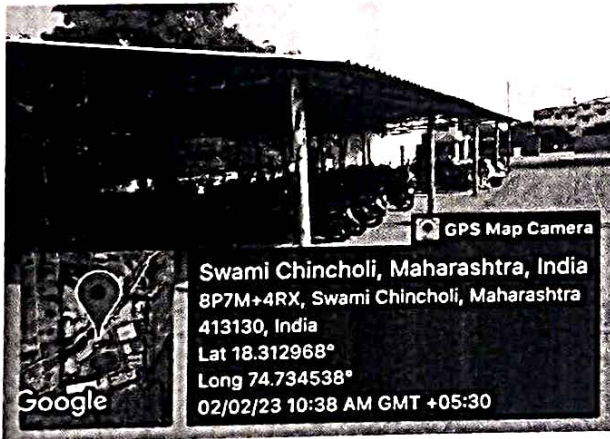
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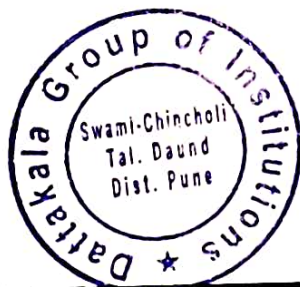
Geo tagged photographs of trees present in the campus

Two wheeler parking Area:-

In our campus we have a separate parking area for students as well as staff. For the security purpose these parking areas are under CCTV surveillance.



Geo tagged photograph of parking areas available in Campus



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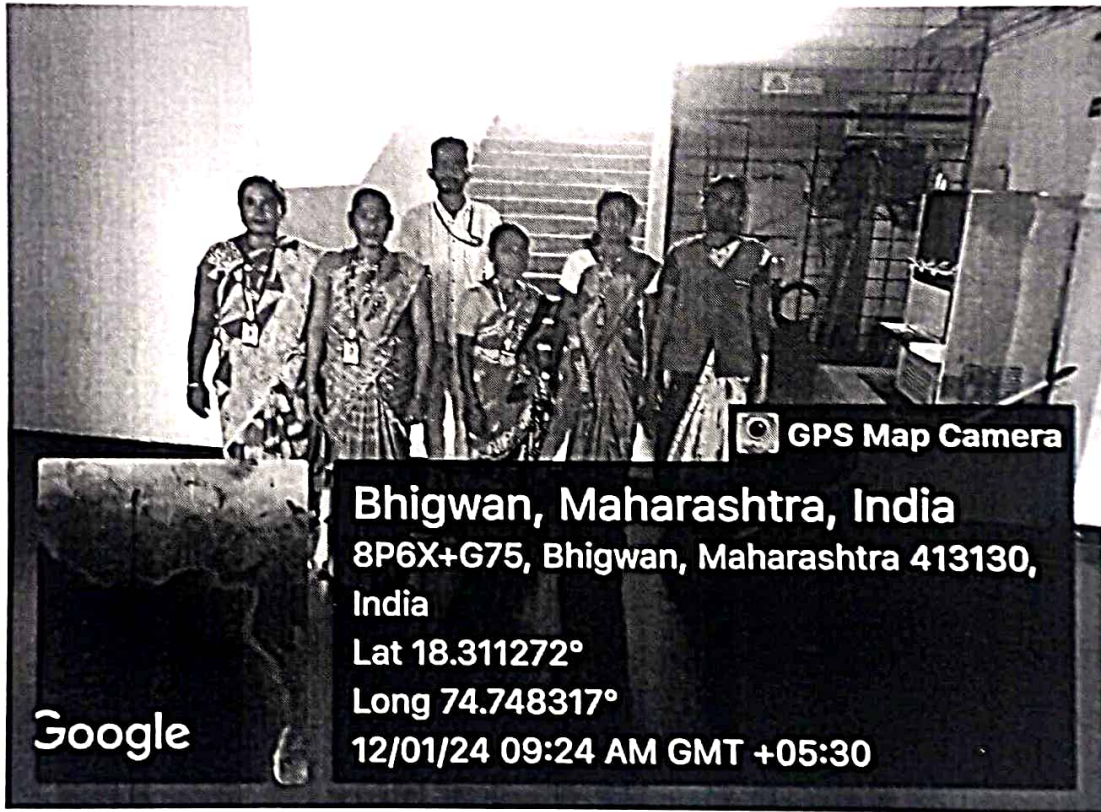
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| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Housekeeping and Cleanliness:-

We have focused on housekeeping and cleanliness maintenance. For housekeeping we have appointed separate staff for each floor and we also have daily cleaning of toilets available in the Institute. In regards to the Green Audit We have counted the trees present in the campus. Also we placed dust bins in every possible position to collect the waste.



Geo tagged photograph of Housekeeping Cleaning Staff



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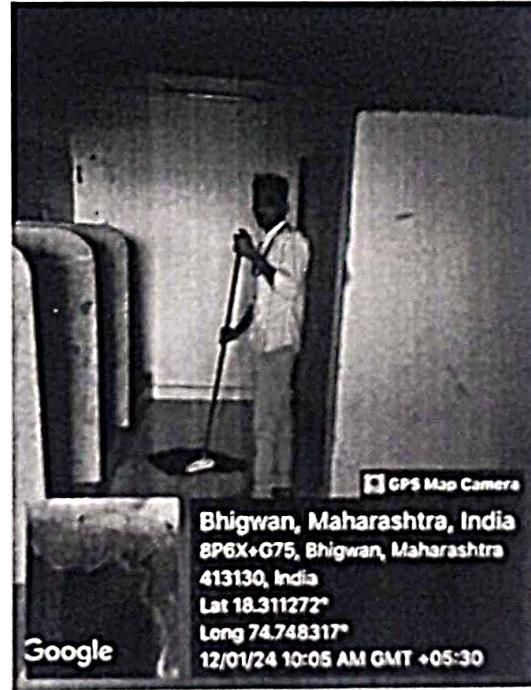
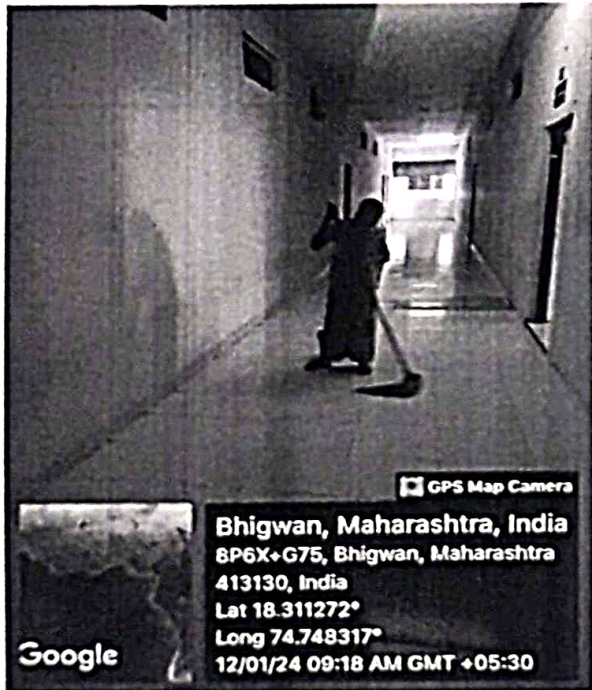
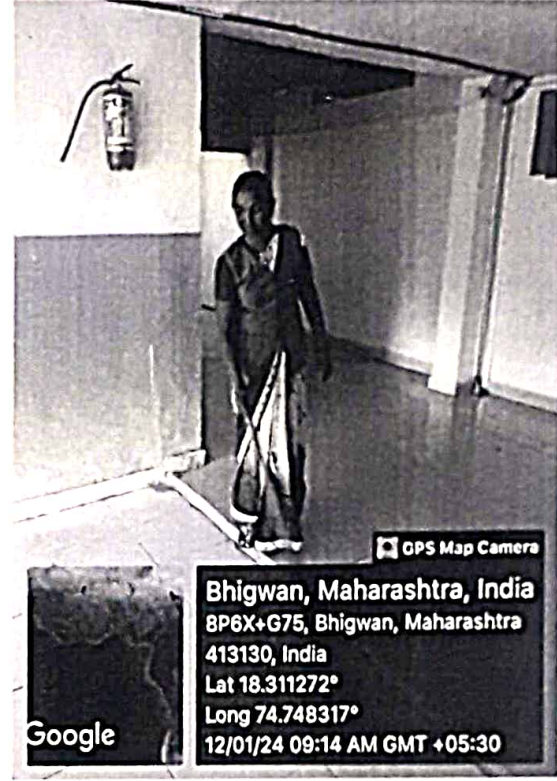
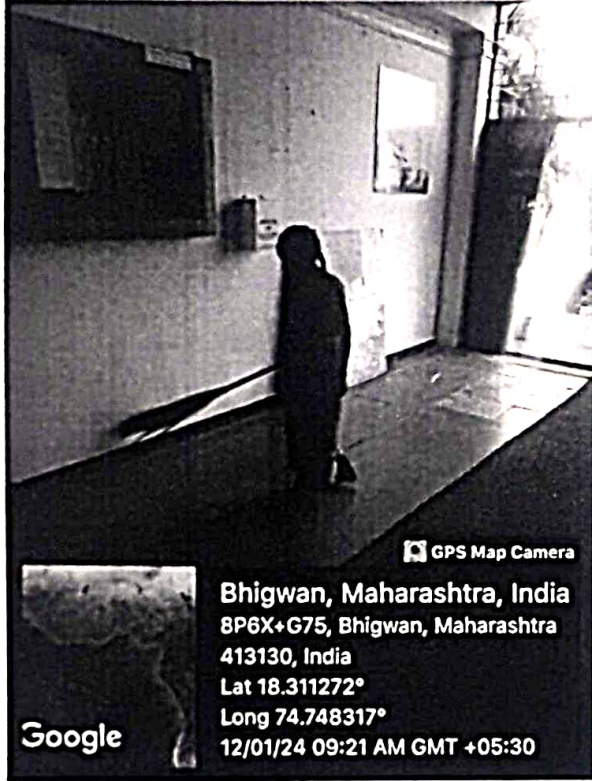


Dattakala Shikshan Sanstha's

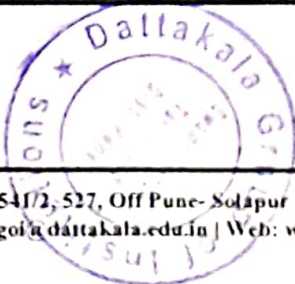
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Geo tagged photograph of Housekeeping Cleaning Staff



Director

Dattakala Group of Institutions

Dist. Pune, Pin 413130, Maharashtra

For More Information: 9673002929 |



Dattakala Shikshan Sanstha's

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Beyond the Campus Environmental Promotional Activities



Director

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Swami-Chincholi, Tal Daund
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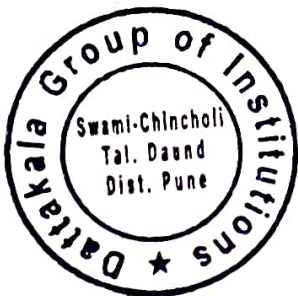
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4. Beyond the campus environmental promotion and sustainability activities.

The institute always tries to focus on policy regarding environmental issues. We have taken tree plantations to protect the environment. Also we have taken NSS camp almost yearly. In the NSS we have arranged various activities like tree plantation, swachata abhiyan, cleaning of various respective places of nearby villages.

Sr. No.	Event	Date of Event
01	Tree Plantation	08/07/2017
02	NSS	2017-18
03	NSS Camp	01/01/2019 to 07/01/2019
04	"Harit Vari" Program Held by Savitribai Phule Pune University at university campus.	23/06/2019
05	Tree Plantation and dindi	06/07/2019
06	Swachh Bharat Camp	02/10/2019 to 04/10/2019
07	Tree plantation 01/02/2022 on occasion of Secretary Mrs. Maya Zol Mams Birthday	01/02/2022
08	'Gram Swachata Abhiyan' on 8/03/22 at Jaradwadi Under NSS	08/03/2022
09	Tree plantation 21/07/2022 on occasion of Birthday of Mr. Rana Suryawanshi Sir	21/07/2022



Director
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Swami-Chincholi, Tal Daund
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Dattakala Shikshan Sanstha's

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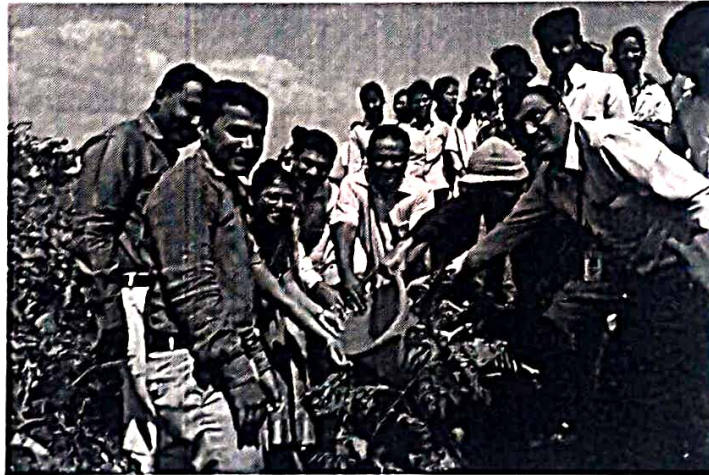
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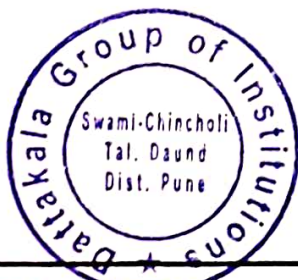
Report on Tree Plantation

Academic Year : 2017-18
Activity : Tree Plantation
Date of activity : 08/07/2017
Place : Dattakala Campus, Swami Chincholi.
Objective : To create awareness of Green evaluation on Earth.

The students and staff members of DGOI carried out tree plantation programmed on 08/07/2017. Basically Neem, pimple tree are used for tree plantation purpose. The theme of this programmed is that one person one tree. The president Prof. Zol sir guides us on importance of tree in human life. Tree plantation is very important necessary because tree provides oxygen to the environment and makes the air quality better. If more trees are planted, then the world's environment will become a safer place to live of future generations secure. All staff took efforts collectively to complete the program successfully. All the students also assure the we also take care of this plant on the regular basis.



Photograph of Tree plantation on 08/07/2017



[Signature]
Director
Dattakala Group of Institutions
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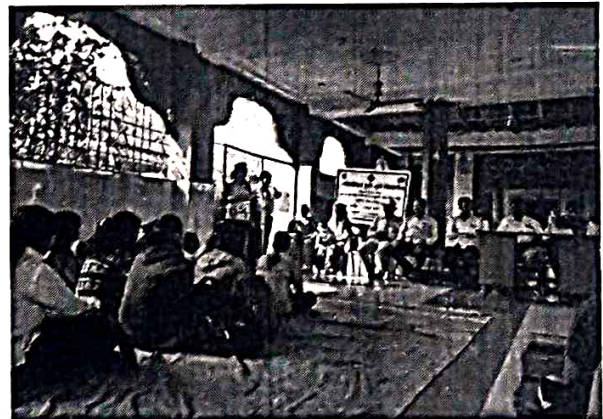
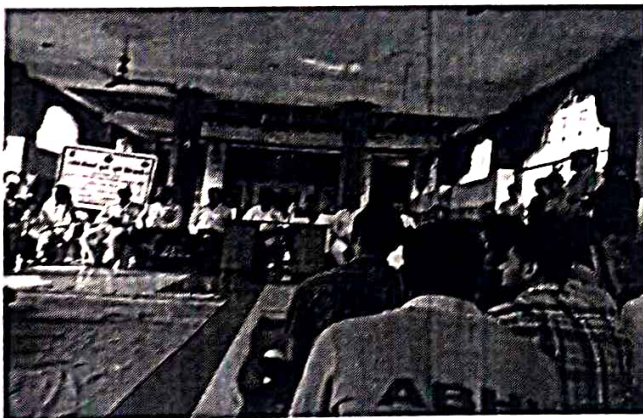
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Report on NSS Camp

Academic Year	: 2017-18
Activity	: NSS Camp
Place	: Swami Chincholi.
Objective	: To create awareness of Green evaluation, cleanliness.

The NSS Camp is held in 2017 for the awareness among the students regarding social responsibilities. NSS was established in 1969 with a vision of personality development of students through community service and development of rural areas in India. NSS Unit has been introduced in colleges with an optimism of establishing a sense of social responsibility amongst students and inculcating values of self-discipline and selfless dedication towards community development. Various social activities were held with a sole view of rural development and value education. We, being a part of the cultural committee, undertook various cultural activities in the village to promote interaction with the villagers and used the NSS platform to spread awareness about different social issues.



Photograph of NSS camp. Prof. Zol Sir and other villagers giving speech to students



Director

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Report on NSS Camp

Activity : NSS Camp
Date of activity : 1st Jan 2019 to 7th Jan 2019
Place : Takrarwadi, Bhigwan.
Objective : The main objectives of the National Service Scheme (NSS) are: understand the community in which they work. Understand themselves in relation to their community. Identify the needs and problems of the community and involve them in problem-solving. develop among themselves a sense of social and civic responsibility.

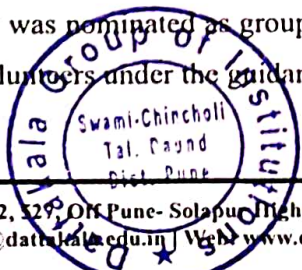
National Service Scheme

Special Camp Report

1st Jan 2019 to 7th Jan 2019

NSS was established in 1969 with a vision of personality development of students through community service and development of rural areas in India. NSS Unit has been introduced in colleges with an optimism of establishing a sense of social responsibility amongst students and inculcating values of self-discipline and selfless dedication towards community development. Various social activities were held with a sole view of rural development and value education. We, being a part of the cultural committee, undertook various cultural activities in the village to promote interaction with the villagers and used the NSS platform to spread awareness about different social issues.

With the permission of NSS Dept., Savitribai Phule Pune University, Pune, Dattakala Group of Institutions Faculty of Engineering & Dattakala College of Pharmacy organized seven days camp from 1st Jan 2019 to 7th Jan 2019 at Takrarwadi Village, Taluka -Indapur, District-Pune. Total Fifty Five (55 nos.) students were enrolled for this camp on the basis of undertaking and NSS regular activity. In addition, teaching staff and peons were assigned duties for the safety and security of the NSS volunteers. All NSS volunteers were divided into various groups and one member from each group was nominated as group leader for smooth conduct of camp activity. Arrangements were made by volunteers under the guidance of Programme Officers Prof. Jadhav and Ms. Tambe.



Dattakala Group of Institutions
Swami-Chincholi, Tal. Daund

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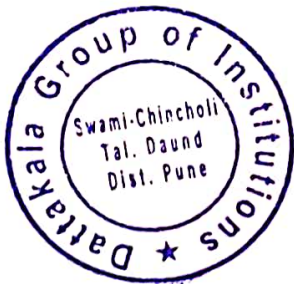
During this camp, various social activities were carried out in the village as per daily schedule.

Daily Schedule:

Time	Particulars
6.00am-6.15 am	Prayer,
6.15 am -7.00am	NSS Song, Exercise
7.00am -7.30am	Breakfast
7.30am -12.30pm	Daily Projects
12.30pm-1.00pm	Individual Preparation
1.00pm-2.00pm	Lunch
2.00pm-3.00pm	Relaxation & next activity Preparation , Meeting of NSS programme officer with group leaders
3.00pm-5.00pm	Speech
6.30pm-7.30pm	Social Awareness & Brain game
7.30pm-8.30pm	Dinner
8.30pm -10.00pm	Cultural Programme

Projects:

Day	Daily Projects
Day 1	Inauguration, Seminar
Day 2	Gram swachhata abhiyan programme, Seminar
Day 3	Weir (Bandhara) Built
Day 4	Tree Plantation in Takrarwadi village,
Day 5	Cleaning of Temple, School, Anganwadi, public places
Day 6	Medical checkups, Seminar
Day 7	Village Survey & The Closing Ceremony



Director

Dattakala Group of Institutions
Swami-Chincholi, Tal Daund
Dist.-Pune Pin 413 130

541/2, 527, Off Pune- Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413130, Maharashtra

| Email: dkgoi@dattakala.edu.in | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 | For More Information: 9673002929 |



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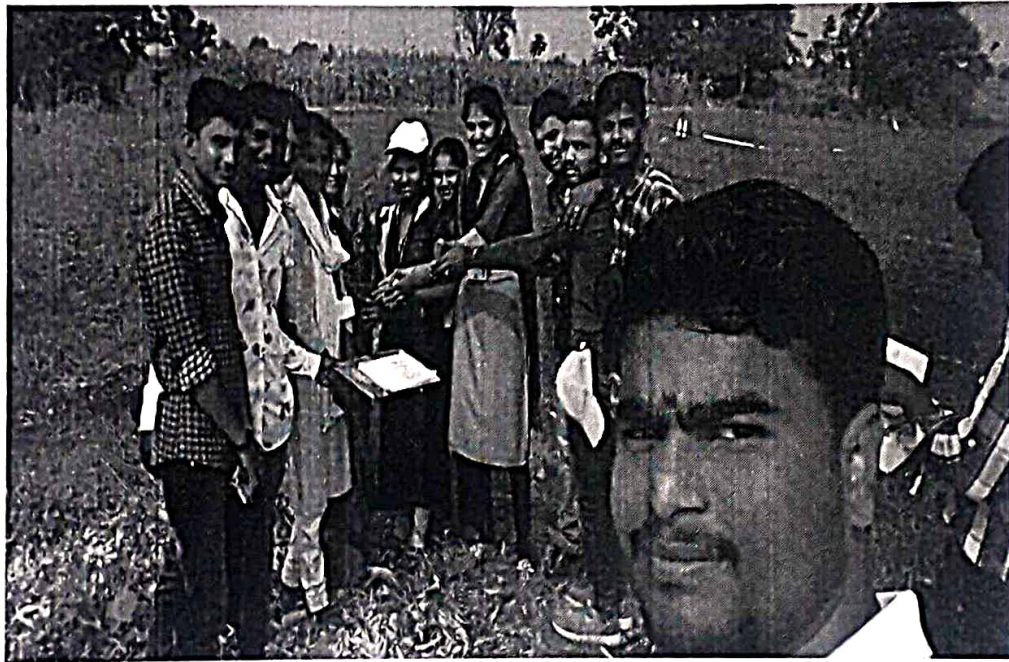
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Some of the photographs of NSS camp



[Signature]
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Report on Harit Wari

Name and Address of College: Dattakala Group of institutions Faculty of engineering, Swami Chincholi, Daund, Pune

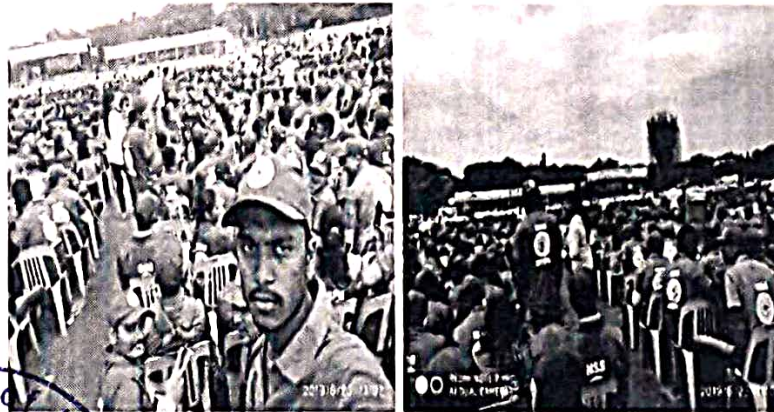
Principal Name: Dr. V. G. Arajpure.

Program Officer Name: Prof. B. R. Valkunde.

Total no of Student (Total Unit): 25 Inwords: Twenty Five.

REPORT

Harit Vari Program Held by Savitribai Phule Pune University on 23rd August 2019 at university Campus. Our Total 25 Students are involved in that program. The objective of this program is to create the awareness of the environment in society.



Director

Harit Wari Program Held by Savitribai Phule Pune University on 23rd August 2019 at University Campus, Swami-Chincholi, Tal. Daund, Dist. Pune

Pin 413 130

541/2, 527/1 Off Pune-Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. Pune | Email: dkgoi@dattakala.edu.in | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 | For More Information: 9673002929 |



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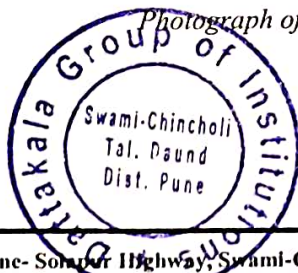
Report on Tree Plantation

Academic Year : 2019-20
Activity : Tree Plantation
Date of activity : 06/07/2019
Place : Dattakala Campus, Swami Chincholi.
Objective : To create awareness of Green evaluation on Earth.

The students and staff members of DGOI carried out tree plantation programmed on 06/07/2019. Basically Neem, pimple tree are used for tree plantation purpose. The theme of this programmed is that one person one tree. The president Prof. Zol sir guides us on importance of tree in human life. Tree plantation is very important necessary because tree provides oxygen to the environment and makes the air quality better. If more trees are planted, then the world's environment will become a safer place to live of future generations secure. All staff took efforts collectively to complete the program successfully. All the students also assure the we also take care of this plant on the regular basis.



Photograph of Tree Plantation and Dindi 06/07/2019



Director

Dattakala Group of Institutions
Swami-Chincholi, Tal Daund
Dist -Pune Pin 413 130



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Report on Swatch Bharat camp

Name and Address of College: Dattakala Group of institutions Faculty of engineering, Swami-Chincholi, Daund, Pune

Principal Name: Dr. V. G. Arajpure.

Program Officer Name: Prof. B. R. Valkunde.

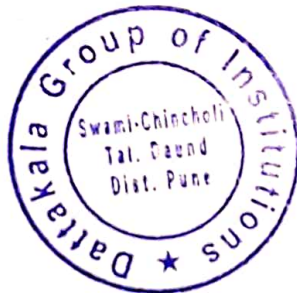
Total no of Student (Total Unit): 50 In Words: Fifty.

REPORT

Swatch Bharat camp was taken from 02/10/2019 to 04/10/2019 at a place called Bhigwan village Tal Indapur Dist-Pune. On the first day Inauguration is done at Bhigwan and then cleanliness of the village was done. On second day cleaning of roads from villages is done, on 3rd day Drainage system was cleaned as well as Smashan bhumi was clean.



Swatch Bharat Camp was taken from 02/10/2019 to 04/10/2019 at Bhigwan Village



Director
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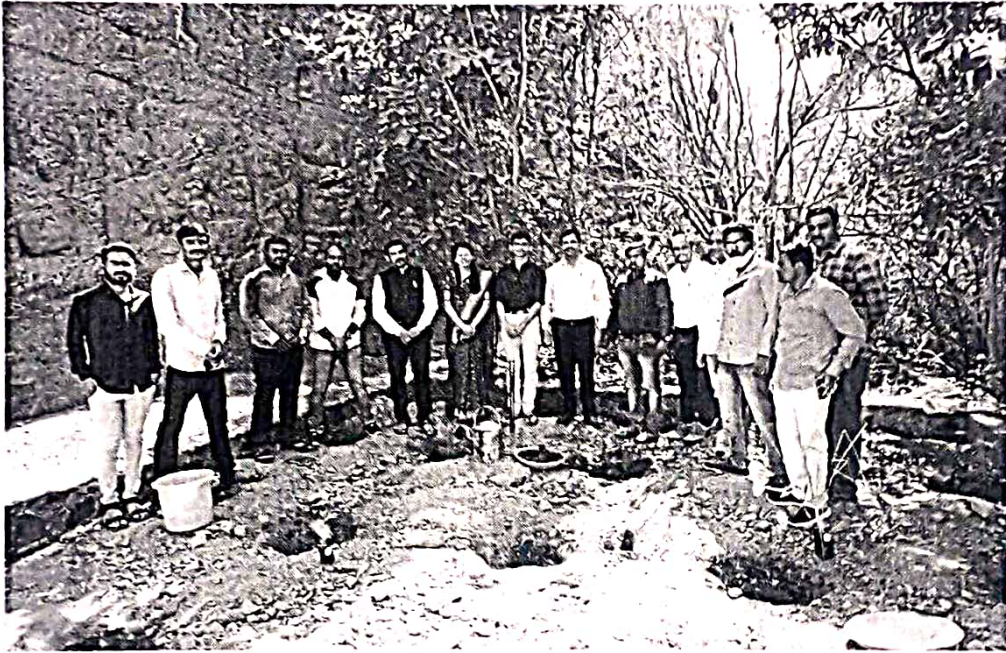
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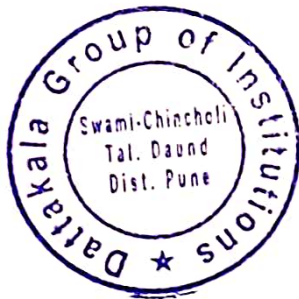
| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Report on Tree Plantation

Academic Year : 2021-22
Activity : Tree Plantation
Date of activity : 01/02/2022
Place : Dattakala Campus, Swami Chincholi.
Objective : To create awareness of Green evaluation on Earth.



Tree plantation 01/02/2022 on occasion of Secretary Mrs. Maya Zol Mams Birthday



Director

Dattakala Group of Institutions
Swami-Chincholi, Tal Daund
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Report on NSS Camp

Activity : NSS Camp

Date of activity : 7th March 2022 to 13th March 2022

Place : Jaradwadi Village.

Objective : The main objectives of the National Service Scheme (NSS) are: understand the community in which they work. Understand themselves in relation to their community. Identify the needs and problems of the community and involve them in problem-solving. Develop among them a sense of social and civic responsibility.



We have conducted 'Gram Swachata Abhiyan' on 8/03/22 at Jaradwadi



Director
Dattakala Group of Institutions
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National Service Scheme

Special Camp Report

07th March to 13th March 2022

पुण्य नगरी

शोलापुर मंगळवार ८ मार्च २०२२

दत्तकलाचे विद्यार्थी करणार जराडवाडीला ग्रामजागर!

बाळासाहेब शिरो
कोटी / प्रतिनिधी

स्वामी विचोली येथील दत्तकला शिक्षण संस्थेच्या अर्थसहाय्यी महाविद्यालयाचे विद्यार्थी राष्ट्रीय सेवा योजनाच्या माध्यमातून जराडवाडी (ता.बारामती) येथे शिबिर घेऊन ग्रामजागर करणार आहेत, अशी माहिती दत्तकला शिक्षण संस्थेचे संस्थापक अध्यक्ष प्रा. रामदास झोळ यांनी दिली.

हे शिबिर दि.७ ते १३ मार्च या काळात आयोजित करण्यात येत आहे. सदरच्या शिबिराचे उद्घाटन राष्ट्रीय सेवा योजनेचे विभागीय समन्वयक डॉ. प्रकाश पांडुराम यांच्या हस्ते होणार असून सुधारण दत्तकला संस्थेचे संस्थापक अध्यक्ष रामदास झोळ या संस्थेच्या संवेना

मना झेळत यांचे हस्ते होणार आहे. या शिबिरासाठी महाविद्यालयाचे प्राचार्य डॉ. अम्बासाहेब केसे, मुख्य प्रशासकीय अधिकारी डॉ. विशाल बाबर डॉ. शारद कर्पे उपस्थित राहणार आहेत. सदरच्या शिबिराचे संपूर्ण नियोजन संस्थेचे राष्ट्रीय सेवा योजनेचे समन्वयक कमलकिशोर शर्मा यांच्याद्वारे करण्यात येत आहे. दत्तकला महाविद्यालयातील २५ विद्यार्थी सदरच्या शिबिरात सहभागी होणार आहेत. शिबिरात ज्ञानस्वच्छता, वृक्षरोपण, रस्ता सुरक्षा अभियान, आरोग्य जनजागृती, ध्वसनमुक्ती, बासलाकीचे हक्क या सुरक्षितता, आरोग्य तपासणी आदी उपक्रम राबविण्यात येणार आहेत.

Smart Solapur
Date: 08/03/2022



Director

Dattakala Group of Institutions
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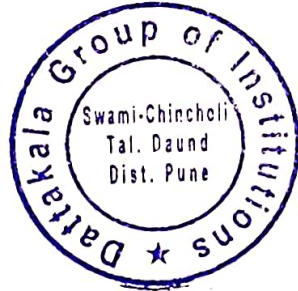
| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Report on Tree Plantation

Academic Year : 2021-22
Activity : Tree Plantation
Date of activity : 21/07/2022
Place : Dattakala Campus, Swami Chincholi.
Objective : To create awareness of Green evaluation on Earth.



Tree plantation 21/07/2022 on occasion of Birthday of Mr. Rana Suryawanshi Sir



Director

Dattakala Group of Institutions
Swami-Chincholi, Tal Daund
Dist.-Pune. Pin 413 130