



Shree Santkrupa College of Pharmacy, Ghogaon

Criterion 6

Governance, Leadership and Management

6.5

Internal Quality Assurance System

6.5.2

Quality assurance initiatives of the institution include:

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC);
quality improvement initiatives identified and implemented**
- 2. Academic and Administrative Audit (AAA) and follow-up
action taken**
- 3. Collaborative quality initiatives with other institution(s)**
- 4. Participation in NIRF and other recognized rankings**
- 5. Any other quality audit/accreditation recognized by state,
national or international agencies such as NAAC, NBA etc.**



6.5 Internal Quality Assurance System

6.5.2 Quality assurance initiatives of the institution include:

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2. Academic and Administrative Audit (AAA) and follow-up action taken**
- 3. Collaborative quality initiatives with other institution(s)**
- 4. Participation in NIRF and other recognized rankings**
- 5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

A. Quality audits reports/certificate as applicable and valid for the assessment period

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Regd. No. MH/4775/Satara

DTE Code : 6394, MSBTE Code : 2144



Shree Santkrupa Shikshan Sanstha's

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Academic Audit Certificate from Shivaji University, Kolhapur



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Green/Environmental Audit

Certificates of Green/Environmental Audit

2022-23

Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 2022-23

ENGRESS SERVICES

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

GREEN AUDIT CERTIFICATE

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

Date: 07/11/2023

This is to certify that we have conducted Green Audit at Shree Santkrupa College of Pharmacy, Ghogaon, in the Year 2022-23.

The Institute has adopted following Energy Efficient & Green Practices:

- Usage of Energy Efficient LED Light Fitting
- Installation of 25 Kw Capacity Solar Power Plant
- Segregation of Waste at Source
- Installation of Bio Composting Pit
- College has installed septic tanks and it cleans periodically
- Installation of Rain Water Harvesting Project
- Maintenance of good Internal Road
- 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 Green.

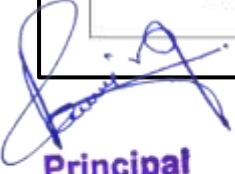
For Engress Services,



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

Engress Services, Pune

Page 2


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Certificates of Green/Environmental Audit

2021-22

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Ref: ES/SCP/21-22/02

Date: 22/05/2022

CERTIFICATE

This is to certify that we have conducted Green Audit at Shree Santkrupa College of Pharmacy, Ghogaon in the Academic year 2021-22.

The College has adopted following Green Initiatives:

- Usage of Energy Efficient LED Light Fitting
- Maximum Usage of Day Lighting
- Provision of Separate bins for Dry & Wet Waste
- The College has installed Septic Tank and is cleaned periodically.
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Engress Services, Pune

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Certificates of Green/Environmental Audit

2020-21

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Ref: EC/SCP/20-21/02

Date: 26/05/2021

CERTIFICATE

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Green/Environmental Audit Report

2022-23

GREEN AUDIT REPORT

of

Shree Santkrupa Shikshan Sanstha's

SHREE SANTKRUPA COLLEGE OF PHARMACY,

Ghogaon (Shivajinagar) Dist. Satara (M.H.) – 415 111



Year: 2022-23

Prepared by:

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REGISTRATION CERTIFICATES



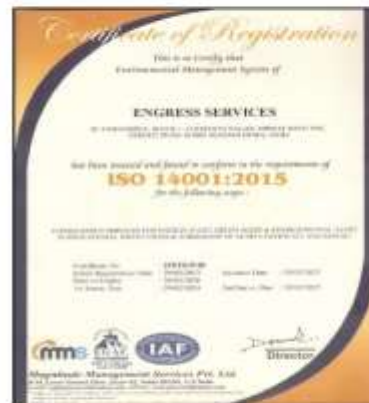
MEDA Registration Certificate



GEM Certified Professional 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 Shree Santkrupa College of Pharmacy, Ghogaon 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.



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EXECUTIVE SUMMARY

1. Shree Santkrupa College of Pharmacy, Ghogaon consumes Energy in the form of Electrical Energy; used for various Electrical Equipment, office & other facilities.
2. Present Energy Consumption & CO₂ Emission:

No	Particulars	Value	Unit
1	Annual Energy Consumption	18593	kWh
2	Annual CO ₂ Emissions	17.13	MT

3. Renewable Energy & Energy Efficiency Projects:

- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting
- Installation of 25 Kw Capacity Solar Power Plant

4. Waste Management:

5.1 Segregation of Waste at Source:

The Waste is segregated at source in separate Waste Bins & is handed over for further action.

5.2 Bio Composting Pit:

The Institute has a Bio Composting Pit, to convert the Leafy Waste into Bio Compost.

5.3 Liquid Waste Management:

The Institute has installed Septic Tank and it cleans periodically.

5.4 Sanitary Waste Management:

The Institute has not installed Sanitary Waste Incinerator, It is recommended to install Sanitary Waste Incinerator for disposal of the Sanitary Waste.

5.5 E-Waste Management:

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

6. Rain Water Management:

The Institute has installed the Rainwater Management project; the rain water falling on the terrace is collected through pipes and is used for recharging the land water table.

7. Green & Sustainable Practices:

- Maintenance of good Internal Road
- Provision of Ramp for Divyangajan
- Creation of awareness on Resource Conservation Display of Posters



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8. Assumption:

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

9. Reference:

- For CO₂ Emissions: www.tatapower.com



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ABBREVIATIONS

BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
Qty	Quantity



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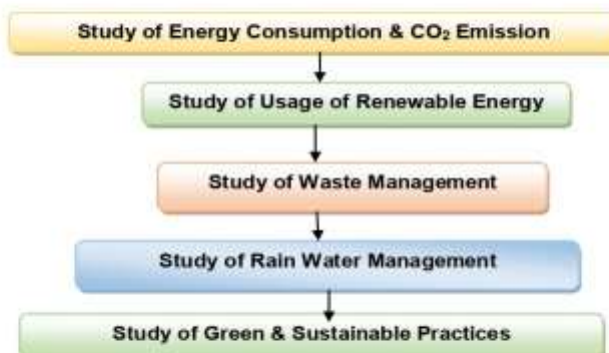
Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 2022-23

**CHAPTER-I
INTRODUCTION**

1.1 Introduction:

A Green Audit is conducted at Shree Santkrupa College of Pharmacy, Ghogaon.

1.2 Audit Procedural Steps:



1.3 Institute Location Image:



Institute
Campus



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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. 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 as under

- 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 No1: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Apr-22	1143	1.06
2	May-22	1356	1.25
3	Jun-22	1440	1.33
4	Jul-22	1560	1.44
5	Aug-22	1725	1.58
6	Sep-22	1668	1.54
7	Oct-22	1710	1.58
8	Nov-22	1653	1.52
9	Dec-22	1473	1.36
10	Jan-23	1650	1.52
11	Feb-23	1563	1.44
12	Mar-23	1652	1.52
13	Total	18593	17.13
14	Maximum	1725	1.58
15	Minimum	1143	1.06
16	Average	1549.41	1.43



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Chart No 1: Month wise CO₂ Emissions:

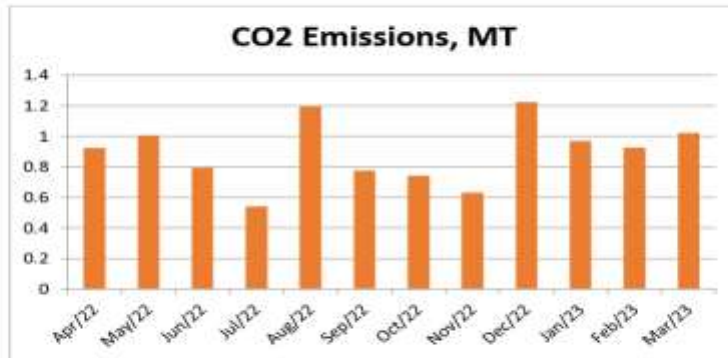


Table No2: Important Parameters:

No	Parameter/ Value	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Total	18593	17.13
2	Maximum	1725	1.58
3	Minimum	1143	1.06
4	Average	1549.41	1.43



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**CHAPTER III
STUDY OF USAGE OF RENEWABLE ENERGY**

The Institute has installed a **25 kWp** capacity Roof top Solar PV Plant this year.
Now we compute the Percentage of Alternate Energy to Annual Energy demand:

Table No 7: Computation of % Annual Energy Demand met by Alternate Energy:

No	Particulars	Value	Unit
1	Energy Purchased from MSEDCL	18593	kWh
2	Installed Roof Top Solar PV Plant Capacity	25	kWp
3	Average Daily Energy Generated	4	kWh/kWp
4	Annual Generation Days	300	Nos
5	Annual Solar Energy Generated	30000	kWh
6	Total Energy Demand = (1) + (5)	35887	kWh
7	Expecting % of Usage of Alternate Energy to Total Annual Energy Demand for Current Year Consumption = (5)*100/ (6)	61	%

Photograph of Roof Top Solar PV Plant:
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CHAPTER IV STUDY OF WASTE MANAGEMENT

4.1 Segregation of Waste at Source:

The Waste is segregated at source in separate Waste Bins & is handed over for further action.

Photograph of Waste Collection Bins:



4.2 Bio Composting Pit:

The Institute has a Bio Composting Pit, to convert the Leafy Waste into Bio Compost.

Photograph of Bio Composting Pit:



4.3 Liquid Waste Management:

The Institute has installed Septic Tanks it cleans periodically.

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



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CHAPTER V STUDY OF RAIN WATER MANAGEMENT

The Institute has implemented the Rain Water Management Project. The Institute has installed Pipes from the terrace and the Rain water falling on the terrace is gathered and is used for recharging the land water table and gardening purpose.

Photograph of Rain Water Management & Pipe Section:




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CHAPTER VI
STUDY OF GREEN & SUSTAINABLE PRACTICES

6.1 Internal Pedestrian:

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

Photograph of Internal Pedestrian:



6.2 Internal Tree Plantation:

The College has well maintained landscaped garden in the campus.

Photograph of Tree plantation:



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6.3 Provision of Ramp for Divyangajan:

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

Photograph of Ramp:



6.3 Creation of Awareness about Energy Conservation:

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

Photograph of Poster on Energy Conservation:



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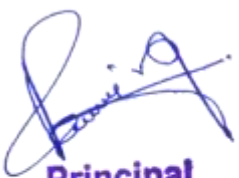
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ANNEXURE-I**LIST OF TREES & PLANTS IN THE CAMPUS**

Presently the College Campus has more than 100 trees:

No	Name of Trees
1	Azadirachta Indica (Neem)
2	Cestrum nocturnum (Ratrani)
3	Tectona Grandis (Sagwan)
4	Thuja (Vidya)
5	Delonix Regia (Gulmohar)
6	Millettia pinnata (Karanj)
7	Lawsonia inermis (Mehendi)
8	Saraca asoca (Ashoka)
9	Alstonia scholaris (Saptparni)
10	Palm Tree




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Shree Santkrupa Shikshan Sanstha's

SHREE SANTKRUPA COLLEGE OF PHARMACY

Ghogaon (Shivajinagar), Tal: Karad, Dist: Satara, (Maharashtra State) Pin-415111
Ph : (02164) 257374 | Email : principalsntk@rediffmail.com | Web : www.sscop.org



Green/Environmental Audit Report

2021-22

GREEN AUDIT REPORT

of

Shree Santkrupa Shikshan Sanstha's

SHREE SANTKRUPA COLLEGE OF PHARMACY,

Ghogaon (Shivajinagar)

Dist. Satara (M.H.) – 415 111



Year: 2021-22

Prepared by:

Engress Services

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



Principal

Dr. Ramling G. Patrakar
Shree Santkrupa College of Pharmacy
Ghogaon, Tal. Karad, Dist. Satara



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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

MAHARASHTRA ENERGY DEVELOPMENT AGENCY

Maharashtra Energy Development Agency
(Government of Maharashtra Institution)
Aundh Road, Opposite Narsee College Road, Near Cementfactories of Aundh Road,
Aundh, Pune, Maharashtra-411007
Ph No: 020-33004301
Email: emda@maharaja.com, Web: www.maharaja.com

ECN/2022-23/CE-43/1709 10th May, 2022

**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 MIEISA.

Name and Address of the Firm : M/s Engress Services
Yashwantrao, 26, Nirmal Bag Society,
Near Muktaangan English School,
Parvati, Pune - 411 009.

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

Registration Number : MEDA/ECN/2022-23/Class A/E4-02.

- 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 cancelling the registration, if the information is found incorrect.
- This empowerment is valid till **09th May, 2024** 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)

GEA Certificate ASSOCHAM

ASSOCHAM hereby certifies that
Mr. AY Mehendale
has successfully passed the
Green and Eco-friendly Measurement Certified Professional Test (GEM-CP)
with
"Excellent Performance"
on
10th June, 2022

He/she is now eligible to receive the GEM-CP Sustainability Certificate Program.
ASSOCHAM shall provide to award the GEM-CP Certificate/Performance to him/her.

Prady G. Shinde
1006/2022

Prady G. Shinde



Principal
Dr. Ramling G. Patrakar
Shree Santkrupa College of Pharmacy
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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society,
Near Muktangon English School, Parvati, Pune 411 009
Tel: 09890444795 Email: engress123@gmail.com

Ref: ES/SCP/21-22/02

Date: 22/05/2022

CERTIFICATE

This is to certify that we have conducted Green Audit at Shree Santkrupa College of Pharmacy, Ghogaon in the Academic year 2021-22.

The College has adopted following Green Initiatives:

- Usage of Energy Efficient LED Light Fitting
- Maximum Usage of Day Lighting
- Provision of Separate bins for Dry & Wet Waste
- The College has installed Septic Tank and is cleaned periodically.
- Implementation of Rain Water Management Project
- Maintenance of good Internal Road
- 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 Green.

For Engress Services,



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



Principal
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Shree Santkrupa Shikshan Sanstha's

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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

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Principal

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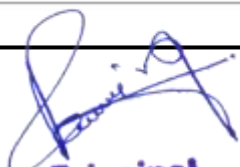
Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of at Shree Santkrupa College of Pharmacy, Ghogaon, for awarding us the assignment of Green Audit of their Campus for the Academic Year: 2021-22.

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




Principal
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EXECUTIVE SUMMARY

1. Shree Santkrupa College of Pharmacy, Ghogaon consumes Energy in the form of Electrical Energy; used for various Electrical Equipment, office & other facilities.

1. Present Energy Consumption & CO₂ Emissions:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	10608	9.5472
2	Maximum	1577	1.4193
3	Minimum	456	0.4104
4	Average	884	0.7956

3. Various initiatives taken for Energy Conservation:

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

4. Usage of Renewable Energy & CO₂ Emission Reduction:

- It is recommended to install roof-top solar PV Plant on college building.

5. Waste Management:**5.1 Segregation of Waste at Source:**

The Waste is segregated at source and the recyclable waste, like paper, plastic waste is handed over to Authorized waste collecting agent for further recycling.

5.2 Organic Waste Management:

The Institute has a Bio Composting Pit, to convert the Leafy Waste into Bio Compost.

5.3 Liquid Waste Management:

The College has installed Septic and is cleaned periodically.

5.4E-Waste Management:

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

5.5 Sanitary Waste Incinerator:

It is recommended to install Sanitary Waste Incinerator for sanitary waste disposal.

6. Rain Water Management:

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



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7. Green & Sustainable Initiatives

- Maintenance of good Internal Road
- Maintenance of Internal Garden
- Display of Posters on Resource Conservation
- Best Practices and Initiative for Social Awareness

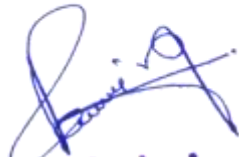
8. Notes & Assumptions:

1. 1 kWh of Electrical Energy releases **0.9 Kg** of CO₂ into atmosphere
2. Average Energy generated by **1 kWp** Solar PV Plant : **4 kWh/Day**
3. Annual Solar Energy Generation Days: **300 Nos**

9. References:

- For CO₂ Emissions: www.tatapower.com
- For Roof Top Solar Energy Generation: www.solarrooftop.gov.in
- For Various Indoor Air Parameters: www.ishrae.com
- For AQI & Water Quality Standards: www.cpcb.com




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ABBREVIATIONS

BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
Qty	Quantity



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**CHAPTER-I
INTRODUCTION****1.1 Objectives:**

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

1.2 General Details of College: Table No 1:

No	Head	Particulars
1	Name of Institution	Shree Santkrupa College of Pharmacy, Ghogaon
2	Address	Ghogaon (Shivajinagar) Dist. Satara (M.H.) – 415 111
3	Affiliation	Shivaji University, Kolhapur



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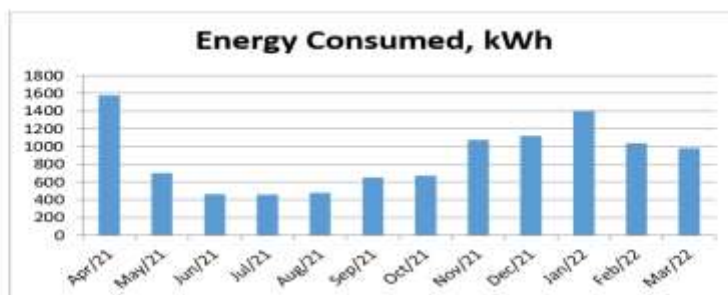
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CHAPTER-II**STUDY OF PRESENT ENERGY CONSUMPTION**

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

Table No 2: Electrical Bill Analysis- 2021-22:

No	Month	Energy Purchased, kWh
1	Apr-21	1577
2	May-21	700
3	Jun-21	463
4	Jul-21	456
5	Aug-21	477
6	Sep-21	652
7	Oct-21	671
8	Nov-21	1072
9	Dec-21	1121
10	Jan-22	1402
11	Feb-22	1036
12	Mar-22	981
13	Total	10608
14	Maximum	1577
15	Minimum	456
16	Average	884

Chart No 1: Variation in Monthly Energy Consumption:**Table No 3: Variation in Important Parameters:**

No	Parameter/ Variation	Energy Purchased, kWh
1	Total	10608
2	Maximum	1577
3	Minimum	456
4	Average	884

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CHAPTER III STUDY OF 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 College for performing its day to day activities

The College uses Electrical Energy for various Electrical gadgets.

Basis for computation of CO₂ Emissions:

The basis of Calculation for CO₂ emissions is as under.

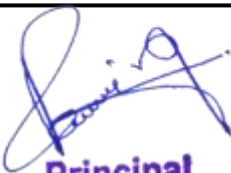
- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere

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

Table No4: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Mar-21	1577	1.52
2	Apr-21	700	0.73
3	May-21	463	0.52
4	Jun-21	456	0.52
5	Jul-21	477	0.54
6	Aug-21	652	0.70
7	Sep-21	671	0.71
8	Oct-21	1072	1.08
9	Nov-21	1121	1.12
10	Dec-21	1402	1.36
11	Jan-22	1036	1.03
12	Feb-22	981	0.99
13	Total	10608	10.83
14	Maximum	1577	1.52
15	Minimum	456	0.52
16	Average	884	0.90




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Chart No 2: Month wise CO₂Emissions:

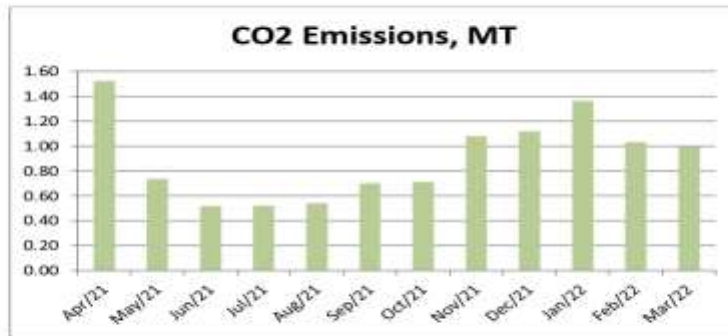


Table No 5: Variation in Important Parameters:

No	Parameter/ Variation	Energy Purchased, kWh	CO2 Emissions, MT
1	Total	10608	10.83
2	Maximum	1577	1.52
3	Minimum	456	0.52
4	Average	884	0.90



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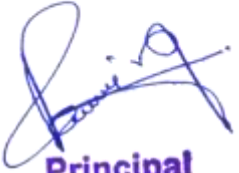


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CHAPTER IV STUDY OF USAGE OF RENEWABLE ENERGY

As on today College has not install solar roof-top PV plant.




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**CHAPTER V
STUDY OF WASTE MANAGEMENT**

5.1 Segregation of Waste at Source:

The Waste is segregated at source and the recyclable waste, like paper waste is handed over to authorized waste collecting agent for further recycling.



5.2 Bio Composting Pit:

The Institute has a Bio Composting Pit, to convert the Leafy Waste into Bio Compost.

Photograph of Bio Composting Pit:



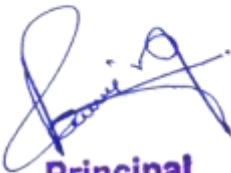
5.3 Liquid Waste Management:

The College has installed Septic tank and is cleaned periodically.

5.4 E-Waste Management:

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




Principal
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5.5 Sanitary Waste Incinerator:

The College has not install Sanitary Waste Incinerator. It is recommended to install Sanitary Waste Incinerator.

Principal

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CHAPTER-VI

STUDY OF RAIN WATER MANAGEMENT

The Institute has implemented the Rain Water Management Project. The Institute has installed Pipes from the terrace and the Rain water falling on the terrace is gathered and is used for recharging the water table.

Photograph of Rain Water Management Section:



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CHAPTER-VII
STUDY OF GREEN & SUSTAINABLE PRACTICES

7.1 Pedestrian Friendly Roads:

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

Photograph of Internal Road:



7.2 Internal Tree Plantation:

The College has well maintained landscaped garden in the campus.

Photograph of Tree plantation:



Principal
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ANNEXURE-1:**DETAILS OF TREES & PLANTS:**

Presently the College Campus has more than 100 trees:

No	Name of Trees
1	Kadamba Tree
2	Gulmohor
3	Mangifera India
4	Coconut
5	Morpankhi
6	Cycus


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Regd. No. MH/4775/Satara

DTE Code : 6394, MSBTE Code : 2144



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Green/Environmental Audit Report

2020-21

GREEN AUDIT REPORT OF SHREE SANTKRUPA COLLEGE OF PHARMACY, Ghogaon (Shivajinagar)



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

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MAHARASHTRA ENERGY DEVELOPMENT AGENCY	
<small>AI/ISO 9001:2008 Reg. No. / ISO 91:2002</small>	
	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@mahaurja.com, Web: www.mahaurja.com
ECN/2021-22/CR-14/1577	22 nd 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	1. M/s Enrich Consultants Yashashree, Plot No. 26, Nirnal Bag Society, Near Muktagan English School, Parvati, Pune - 411009.
Registration Category	1. <i>Empanelled Consultant for Energy Conservation Programme for Class 'A'</i>
Registration Number	1. MEDA/ECN/2021-22/Class A/EA-03
<ul style="list-style-type: none"> 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)	

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Enrich Consultants

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Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/SCP/20-21/02

Date: 26/05/2021

CERTIFICATE

This is to certify that we have conducted Green Audit at Shree Santkrupa College of Pharmacy, Ghogaon in the Academic year 2020-21.

The College has adopted following Green Initiatives:

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- Maximum Usage of Day Lighting
- Provision of Separate bins for Dry & Wet Waste
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- Implementation of Rain Water Management Project
- Maintenance of good Internal Road
- 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 Green.

For Enrich Consultants,



A Y Mehendale,
Certified Energy Auditor
EA-8192

Enrich Consultants, Pune

Page 3

Principal
Dr. Ramling G. Patrakar
Shree Santkrupa College of Pharmacy
Ghogaon, Tal. Karad, Dist. Satara





Shree Santkrupa Shikshan Sanstha's

SHREE SANTKRUPA COLLEGE OF PHARMACY

Ghogaon (Shivajinagar), Tal: Karad, Dist: Satara, (Maharashtra State) Pin-415111

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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

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Principal

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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

ACKNOWLEDGEMENT

We Enrich Consultants, Pune, express our sincere gratitude to the management of at Shree Santkrupa College of Pharmacy, Ghogaon, for awarding us the assignment of Green Audit of their Campus for the Academic Year: 2020-21.

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

Principal
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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

EXECUTIVE SUMMARY

1. Shree Santkrupa College of Pharmacy, Ghogaon consumes Energy in the form of Electrical Energy used for various Electrical Equipment, Office & other facilities.
2. Present Energy Consumption & CO₂ Emissions:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7132	6.418
2	Maximum	1239	1.115
3	Minimum	377	0.339
4	Average	594.33	0.534

3. Various initiatives taken for Energy Conservation:

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

4. Usage of Renewable Energy & CO₂ Emission Reduction:

- It is recommended to install roof-top solar PV Plant on college building.

5. Waste Management:

- 5.1 Segregation of Waste at Source:

The Waste is segregated at source in separate Waste Bins & is handed over for further action to Municipal Corporation.

- 5.2 Organic Waste Management:

The Institute has a Bio Composting Pit, to convert the Leafy Waste into Bio Compost.

- 5.3 Liquid Waste Management:

The College has installed Septic and is cleaned periodically.

- 5.4E-Waste Management:

It is recommended to dispose E-Waste through Authorized collecting agency.

- 5.5 Sanitary Waste Incinerator:

It is recommended to install Sanitary Waste Incinerator for sanitary waste disposal.

6. Rain Water Management:

The College has installed the Rainwater management project, the rain water falling on the terrace is collected and is used for increasing the under the underground water level.

Principal
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7. Green & Sustainable Initiatives


- Maintenance of good Internal Road
- Maintenance of Internal Garden
- Display of Posters on Resource Conservation

8. Notes & Assumptions:

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

9. References:

- For CO₂ Emissions: www.tatapower.com


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ABBREVIATIONS

BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
Qty	Quantity

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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

**CHAPTER-I
INTRODUCTION****1.1 Objectives:**

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

1.2 General Details of College: Table No 1:

No	Head	Particulars
1	Name of Institution	Shree Santkrupa College of Pharmacy, Ghogaon
2	Address	Ghogaon (Shivajinagar) Dist. Satara (M.H.) – 415 111
3	Affiliation	Shivaji University, Kolhapur

Principal
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CHAPTER-II**STUDY OF PRESENT 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 Purchased, kWh
1	Apr-20	1239
2	May-20	377
3	Jun-20	424
4	Jul-20	460
5	Aug-20	474
6	Sep-20	576
7	Oct-20	480
8	Nov-20	478
9	Dec-20	457
10	Jan-21	642
11	Feb-21	716
12	Mar-21	809
13	Total	7132
14	Maximum	1239
15	Minimum	377
16	Average	594.33

Chart No 1: Variation in Monthly Energy Consumption:**Table No 3: Variation in Important Parameters:**

No	Parameter/ Variation	Energy Purchased, kWh
1	Total	7132

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2	Maximum	1239
3	Minimum	377
4	Average	594.33

CHAPTER III STUDY OF 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 College for performing its day to day activities

The College uses Electrical Energy for various Electrical gadgets.

Basis for computation of CO₂ Emissions:


The basis of Calculation for CO₂ emissions is as under.

- 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 College due to its Day to Day operations

Table No4: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Apr-20	1239	1.115
2	May-20	377	0.339
3	Jun-20	424	0.381
4	Jul-20	460	0.414
5	Aug-20	474	0.426
6	Sep-20	576	0.518
7	Oct-20	480	0.432
8	Nov-20	478	0.430
9	Dec-20	457	0.411
10	Jan-21	642	0.577
11	Feb-21	716	0.644
12	Mar-21	809	0.728
13	Total	7132	6.418
14	Maximum	1239	1.115
15	Minimum	377	0.339
16	Average	594.333	0.534


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Chart No 2: Month wise CO₂Emissions:

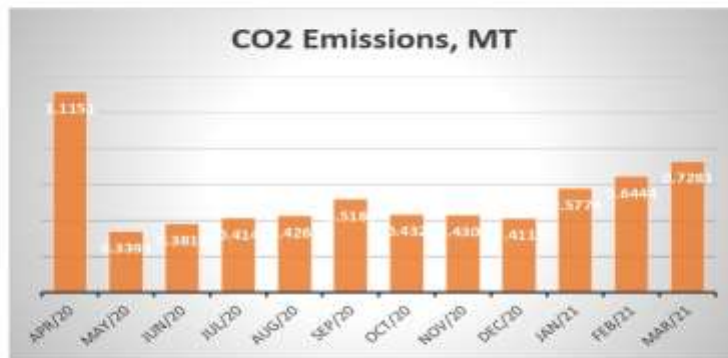


Table No 5: Variation in Important Parameters:

No	Parameter/ Variation	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7132	6.418
2	Maximum	1239	1.115
3	Minimum	377	0.339
4	Average	594.333	0.534

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CHAPTER IV STUDY OF USAGE OF RENEWABLE ENERGY

As on today College has not install solar roof-top PV plant, Solar thermal water heating plant, it is recommend to install solar rooftop plant on the College building.

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CHAPTER V STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

The Waste is segregated at source and the recyclable waste, like paper waste is handed over to authorized waste collecting agent for further recycling.



5.2 Organic Waste Management:

The Institute has a Bio Composting Pit, to convert the Leafy Waste into Bio Compost.



5.3 Liquid Waste Management:

The College has installed Septic tank and is cleaned periodically.

5.4 E-Waste Management:

The E-Waste is disposed of through Authorized Agency.

5.5 Sanitary Waste Incinerator:

The College has not install Sanitary Waste Incinerator. It is recommended to install Sanitary Waste Incinerator.

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CHAPTER-VI

STUDY OF RAIN WATER MANAGEMENT

The College has implemented the Rain Water Management Project. The College has installed Pipes from the terrace and the Rain water falling on the terrace is gathered and is used to increase the underground water table.

Photograph of Rain Water Management Pipe:



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Green Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

CHAPTER-VII STUDY OF GREEN & SUSTAINABLE PRACTICES

7.1 Pedestrian Friendly Roads:

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

Photograph of Internal Road:

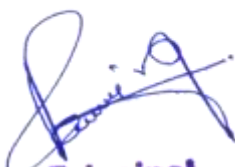


7.2 Internal Tree Plantation:

The College has well maintained landscaped garden in the campus.

Photograph of Tree plantation:




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7.3 Provision of Ramp:

The College has facility for ramp, for easy movement for Divyaang.



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ANNEXURE-1:
DETAILS OF TREES& PLANTS:

Presently the College Campus has well maintained medicinal plantation:

No	Name of Trees
1	Kadamba Tree
2	Gulmohor
3	Mangifera India
4	Coconut
5	Morpankhi
6	Cycus



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Energy Audit

Certificate of Energy Audit 2022-23

Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 2022-23



M/s.Chandrakant Electricals, Co.

Shetphale, Tal: Atpadi Sangali 415 306 Phones: 09423272440
Email: chandrakant.electricals23666@gmail.com

ENERGY AUDIT CERTIFICATE

Certificate No: CE/SCP/22-23/01

Date: 07/11/2023

This is to certify that we have conducted an Energy Audit at Shree Santkrupa College of Pharmacy, Ghogaon, in the Year 2022-23.

The Institute has adopted following Energy Efficient practices:

- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting
- Installation of Solar Power Plant

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

For, M/s.Chandrakant Electricals, Co.



(Chandrakant Nanvare)

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Certificate of Energy Audit - 2021-22

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Certificate of Energy Audit -2020-21

Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

Enrich Consultants

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

Ref: EC/SCP/20-21/01

Date: 26/05/2021

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For Enrich Consultants,



A Y Mehendale,
Certified Energy Auditor
EA-8192

Principal
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Regd. No. MH/4775/Satara

DTE Code : 6394, MSBTE Code : 2144



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Energy Audit Report

2022-23

ENERGY AUDIT REPORT

of

Shree Santkrupa Shikshan Sanstha's

SHREE SANTKRUPA COLLEGE OF PHARMACY,

Ghogaon (Shivajinagar) Dist. Satara (M.H.) – 415 111



Year: 2022-23

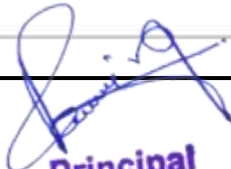
Prepared by:

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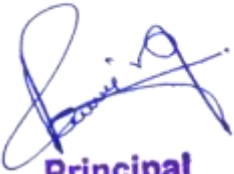
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(Chandrakant Nanvare)




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MEDA Registration Certificates**MAHARASHTRA ENERGY DEVELOPMENT AGENCY****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@mahaurja.com, Web: www.mahaurja.com

ECN/2022-23/CR-01/1708

10th May, 2022**CERTIFICATE OF REGISTRATION
FOR CLASS 'B'**

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. Chandrakant Electrical, Co.
 A/P: Shetphale, Tal: Atpadi,
 Dist: Sangli - 415 306.

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

Registration Number : *MEDA/ECN/2022-23/Class B/EA-09.*

- 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 **09th May, 2024** 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)

M/s.Chandrakant Electricals, Co., Sangli

Page 3



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Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 2022-23

ACKNOWLEDGEMENT

We M/s.Chandrakant Electricals, Co.,Sangli, express our sincere gratitude to the management of Shree Santkrupa College of Pharmacy, Ghogaon 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.

Principal

Dr. Ramling G. Patrakar
Shree Santkrupa College of Pharmacy
Ghogaon, Tal. Karad, Dist. Satara





Shree Santkrupa Shikshan Sanstha's

SHREE SANTKRUPA COLLEGE OF PHARMACY

Ghogaon (Shivajinagar), Tal: Karad, Dist: Satara, (Maharashtra State) Pin-415111
 Ph : (02164) 257374 Email : principalsntk@rediffmail.com Web : www.sscop.org



Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 2022-23

EXECUTIVE SUMMARY

1. Shree Santkrupa College of Pharmacy, Ghogaon consumes Energy in the form of Electrical Energy; used for various Electrical Equipment, office & other facilities.
2. Present Connected Load & Annual Energy Consumption:

No	Particulars	Value	Unit
1	Total Connected Load	52	kW
2	Annual Energy Consumption	18593	kWh
3	Annual CO ₂ Emissions	17.13	MT

3. Energy Performance Index:

No	Particulars	Value	Unit
1	Total Annual Energy Consumed	18593	kWh
2	Total Built up area of Institute	5901.66	m ²
3	Energy Performance Index =(1) / (2)	3.15	kWh/m ²

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

No	Particulars	Value	Unit
1	Lighting Power Density	0.86	W/m ²
2	% of Usage of LED Lighting to Total Lighting Load	4.41	%

5. Renewable Energy & Energy Efficiency Projects:


- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting
- Installation of 25 Kw Capacity Solar Power Plant

6. Assumption:

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

7. References:

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


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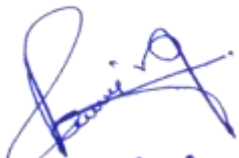
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ABBREVIATIONS

LED	: Light Emitting Diode
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


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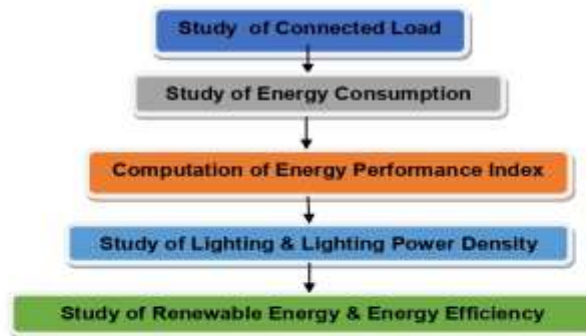
**CHAPTER-I
 INTRODUCTION**

1.1 Introduction:

An Energy Audit is conducted at Shree Santkrupa College of Pharmacy, Ghogaon. 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 Institute Location Image:



Institute
 Campus

(Handwritten Signature)
Principal

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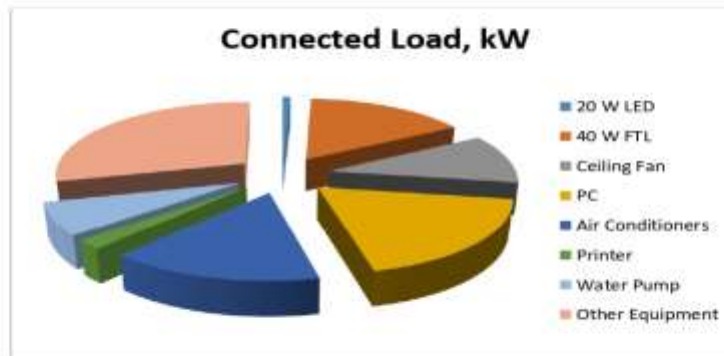
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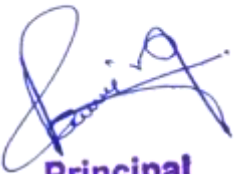
CHAPTER-II STUDY OF CONNECTED LOAD

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

Table No 1: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	20 W LED	19	20	0.38
2	40 W FTL	206	40	8.24
3	Ceiling Fan	86	65	5.59
4	PC	65	150	9.75
5	Air Conditioners	4	2000	8
6	Printer	7	150	1.05
7	Water Pump	1	3730	3.73
8	Other Equipment	100	150	15
9	Total			52

Chart No 1: Study of Connected Load:


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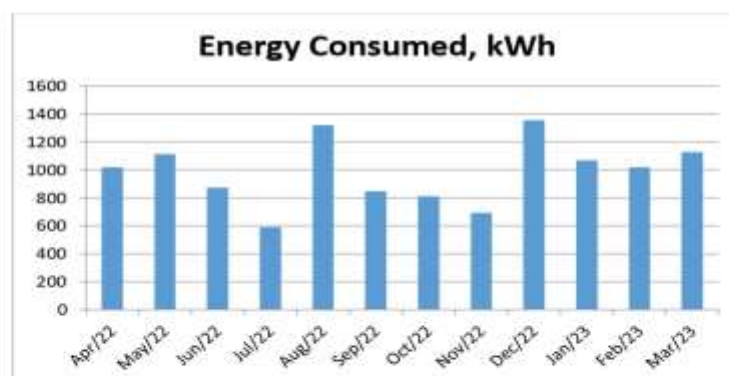
Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 2022-23

CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

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

Table No 2: Electrical Bill Analysis- 2022-23:

No	Month	Energy Consumed, kWh	LPG Consumption, Kg	CO2 Emissions, MT
1	Apr-22	1143	10	1.06
2	May-22	1356	12	1.25
3	Jun-22	1440	11	1.33
4	Jul-22	1560	13	1.44
5	Aug-22	1725	12	1.58
6	Sep-22	1668	14	1.54
7	Oct-22	1710	14	1.58
8	Nov-22	1653	13	1.52
9	Dec-22	1473	14	1.36
10	Jan-23	1650	12	1.52
11	Feb-23	1563	12	1.44
12	Mar-23	1652	12	1.52
13	Total	18593	149	17.13
14	Maximum	1725	14	1.58
15	Minimum	1143	10	1.06
16	Average	1549.41	12.42	1.43

Chart No 2: Variation in Monthly Energy Consumption:
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Chart No 3: Variation in Monthly LPG Consumption:

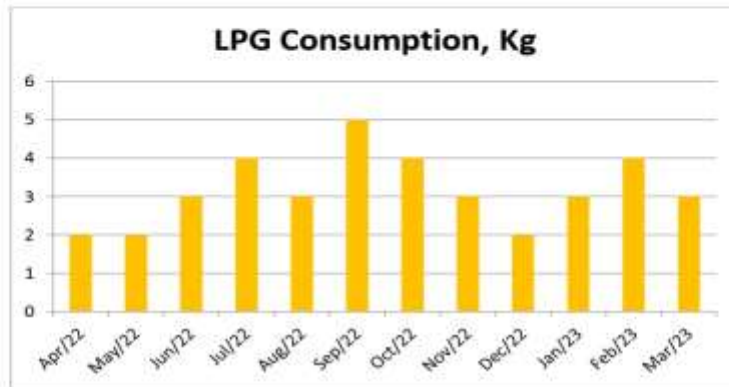


Table No 4: Variation in Important Parameters:

No	Parameter/ Variation	Energy Consumed, kWh	LPG Consumption, Kg	CO ₂ Emissions, MT
1	Total	18593	149	17.13
2	Maximum	1725	14	1.58
3	Minimum	1143	10	1.06
4	Average	1549.41	12.42	1.43

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CHAPTER-IV STUDY OF ENERGY PERFORMANCE INDEX

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

It is determined by:

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

Now we compute the EPI for the Institute as under:

Table No4: Computation of Energy Performance Index:

No	Particulars	Value	Unit
1	Total Annual Energy Consumed	18593	kWh
2	Total Built up area of Institute	5901.66	m ²
3	Energy Performance Index =(1) / (2)	3.15	kWh/m ²

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CHAPTER V STUDY OF LIGHTING

Terminology:

- 1. Lumen** is a unit of light flow or luminous flux. The lumen rating of a lamp is a measure of the total light output of the lamp. The most common measurement of light output (or luminous flux) is the lumen. Light sources are labeled with an output rating in lumens.
- 2. Lux** is the metric unit of measure for illuminance of a surface. One lux is equal to one lumen per square meter.
- 3. Circuit Watts** is the total power drawn by lamps and ballasts in a lighting circuit under assessment.
- 4. Installed Load Efficacy** is the average maintained illuminance provided on a horizontal working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square metre (lux/W/m²)
- 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 (W/m²/100 lux) 100 Installed power density (W/m²/100 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: Lighting Power Density of a Class Room. We also compute the percentage usage of LED Lighting to total Lighting Load of the Institute.

Table No 5: Computation of Lighting Power Density:

No	Particulars	Value	Unit
1	No of 20 W LED Tube Lights in Class Room	04	Nos
2	Demand of 20 W LED Tube Light	20	W/Unit
3	Total Lighting Load in the Class Room= (1) * (2)	80	W
4	Area of Class Room	92.47	m ²
5	Lighting Power Density = (3)/ (4)	0.86	W/m ²

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

Table No 6: Percentage Usage of LED Lighting to Annual Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	206	Nos
2	Demand of 40 W FTL Fitting	40	W/Unit
3	Total Electrical Load of 40 W FTL Fittings	8.24	kW
4	No of 20 W LED Tube Lights	19	Nos
5	Demand of 20 W LED Tube Light	20	W/Unit
6	Total Electrical Load of 20 W LED Fittings	0.38	kW
7	Annual Total Lighting Load = 3+6	8.62	kWh
8	Annual LED Lighting Load = 6	0.38	kWh
9	Annual Lighting Requirement met by LED= $8 \times 100 / 7$	4.41	%

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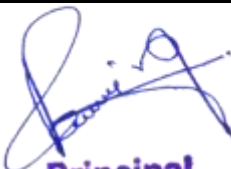
CHAPTER-VI STUDY OF RENEWABLE ENERGY & ENERGY EFFICIENCY

The Institute has installed a **25 kWp** capacity Roof top Solar PV Plant this year.
 Now we compute the Percentage of Alternate Energy to Annual Energy demand:

Table No 7: Computation of % Annual Energy Demand met by Alternate Energy:

No	Particulars	Value	Unit
1	Energy Purchased from MSEDCL	18593	kWh
2	Installed Roof Top Solar PV Plant Capacity	25	kWp
3	Average Daily Energy Generated	4	kWh/kWp
4	Annual Generation Days	300	Nos
5	Annual Solar Energy Generated	30000	kWh
6	Total Energy Demand = (1) + (5)	35887	kWh
7	Expecting % of Usage of Alternate Energy to Total Annual Energy Demand for Current Year Consumption = $(5) \times 100 / (6)$	61	%




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Regd. No. MH/4775/Satara

DTE Code : 6394, MSBTE Code : 2144



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Energy Audit Report

2021-22

ENERGY AUDIT REPORT

of

Shree Santkrupa Shikshan Sanstha's

SHREE SANTKRUPA COLLEGE OF PHARMACY,

Ghogaon (Shivajinagar)

Dist. Satara (M.H.) – 415 111



Year: 2021-22

Prepared by:

M/s.Chandrakant Electricals,Co.

Shetphale, Tal: Atpadi
Sangali 415 306

Phone: 09423272440 Email: chandrakant.electricals23666@gmail.com

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MAHARASHTRA ENERGY DEVELOPMENT AGENCY**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@mahaaurja.com, Web: www.mahaaurja.com

ECN/2022-23/CR-01/1708

10th May, 2022**CERTIFICATE OF REGISTRATION
FOR CLASS 'B'**

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. Chandrakant Electrical, Co.
A/P: Shetphale, Tal: Atpadi,
Dist: Sangli - 415 306.

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

Registration Number : *MEDA/ECN/2022-23/Class B/EA-09.*

- 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 **09th May, 2024** 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)

Principal

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Shetphale, Tal: Atpadi Sangali 415 306 Phones: 09423272440
Email: chandrakant.electricals23666@gmail.com

Ref: CE/SCP/21-22/01

Date: 20/06/2022

CERTIFICATE

This is to certify that we have conducted Energy Audit at Shree Santkrupa College of Pharmacy, Ghogaon in the Academic Year 2021-22.

The College has adopted following Energy Efficient practices:

- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting

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

For, M/s.Chandrakant Electricals, Co.



(Chandrakant Nanvare)

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Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

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2	Study of Connected Load	9
3	Study of Present Energy Consumption	11
4	Carbon Foot Printing	13
5	Study of Usage of Alternate Energy	14
6	Study of LED Lighting	15

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Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

ACKNOWLEDGEMENT

We M/s.Chandrakant Electricals.Co.Sangli, express our sincere gratitude to the management of Shree Santkrupa College of Pharmacy, Ghogaon for awarding us the assignment of Energy Audit of their Campus for the Academic Year: 21-22.

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

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Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

EXECUTIVE SUMMARY

1. Shree Santkrupa College of Pharmacy, Ghogaon consumes Energy in the form of Electrical Energy used for various Electrical Equipment, office & other facilities.

2. Present Energy Consumption & CO₂ Emission:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	10608	9.5472
2	Maximum	1577	1.4193
3	Minimum	456	0.4104
4	Average	884	0.7956

3. Energy Conservation projects already installed:

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

4. Usage of Alternate Energy:

- As on today College has not installed solar rooftop power plant. It is recommended to install solar power rooftop system on the college building as per availability of funds.

5. Usage of LED Lighting:

- The Total Lighting Load is 8.62 KW
- The Total LED Lighting Load is 0.38 KW.
- The percentage of Annual LED Lighting to Annual Lighting Demand is 4.41 %.

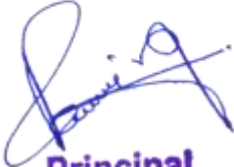
6. Assumptions:

1. 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere.
2. 100 LPD Solar Thermal System saves 1500 kWh of Electrical Energy per Annum.
3. Average Energy generated by 1 kWp Solar PV Plant: 4 kWh/Day.
4. Annual Solar Energy Generation Days: 300 Nos.

7. References:

- For CO₂ Emissions: www.tatapower.com
- For Roof Top Solar Energy Generation: www.solarrooftop.gov.in
- For Various Indoor Air Parameters: www.ishrae.com
- For AQI & Water Quality Standards: www.cpcb.com




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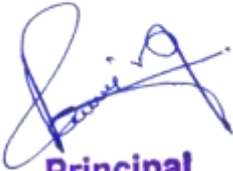


Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon; 21-22

ABBREVIATIONS

LED	: Light Emitting Diode
MSEDCL	: Maharashtra State Electricity Distribution Company Limited
IQAC	: Internal Quality Assurance Cell
BEE	: Bureau of Energy Efficiency
FTL	: Fluorescent Tube Light
Kg	: Kilo Gram
kWh	: kilo-Watt Hour
CO ₂	: Carbon Di Oxide
MT	: Metric Ton




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CHAPTER-I INTRODUCTION

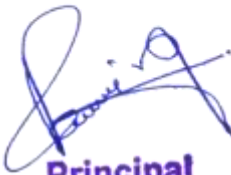
1.1 Objectives:

1. To study present Energy Consumption
2. To Study the present CO₂ emissions
3. To study usage of Alternate Energy
4. To study usage of LED Lighting

1.2 Table No 1: General Details of the College:

No	Head	Particulars
1	Name of Institution	Shree Santkrupa College of Pharmacy, Ghogaon
2	Address	Ghogaon (Shivajinagar) Dist. Satara (M.H.) – 415 111
3	Affiliation	Shivaji University, Kolhapur




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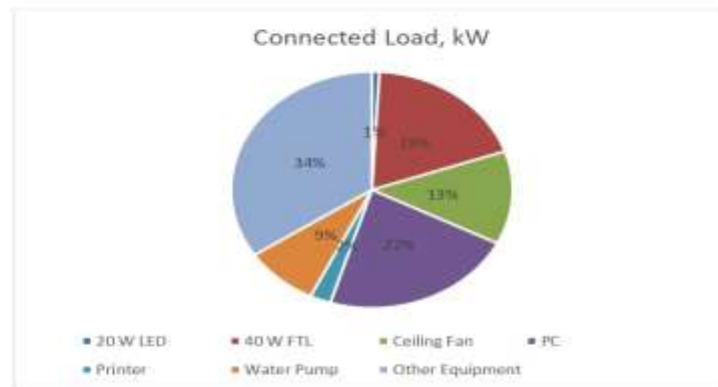
Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22.

CHAPTER-II STUDY OF CONNECTED LOAD

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

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	20 W LED	19	20	0.38
2	40 W FTL	206	40	8.24
3	Ceiling Fan	86	65	5.59
4	PC	65	150	9.75
5	Printer	7	150	1.05
6	Water Pump	1	3730	3.73
7	Other Equipment	100	150	15
8	Total			44

Chart No 1: Study of Connected Load:

(Signature)
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 Dr. Ramling G. Patrakar
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Shree Santkrupa Shikshan Sanstha's

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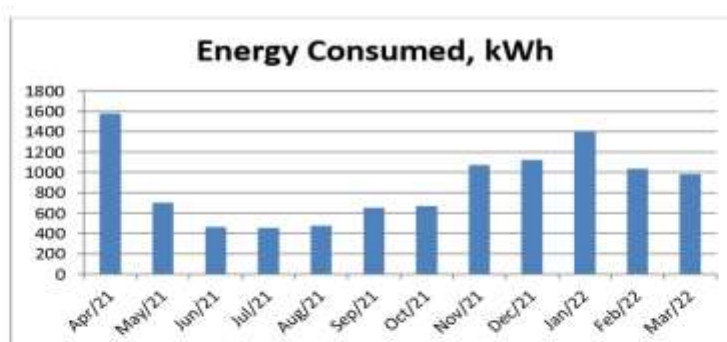
Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 21-22

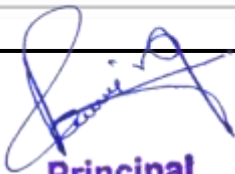
**CHAPTER-III
STUDY OF PRESENT ENERGY CONSUMPTION**

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

Table No 3: Electrical Bill Analysis- 2021-22:

No	Month	Energy Consumed, kWh	LPG Consumption, Kg	CO2 Emissions, MT
1	Apr-21	1577	38	1.52
2	May-21	700	39	0.73
3	Jun-21	463	37	0.52
4	Jul-21	456	41	0.52
5	Aug-21	477	42	0.54
6	Sep-21	652	42	0.70
7	Oct-21	671	40	0.71
8	Nov-21	1072	42	1.08
9	Dec-21	1121	41	1.12
10	Jan-22	1402	38	1.36
11	Feb-22	1036	37	1.03
12	Mar-22	981	41	0.99
13	Total	10608	478	10.83
14	Maximum	1577	42	1.52
15	Minimum	456	37	0.52
16	Average	884	39.83	0.90

Chart No 2: Variation in Monthly Energy Consumption:


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Chart No 3: Variation in Monthly LPG Consumption:

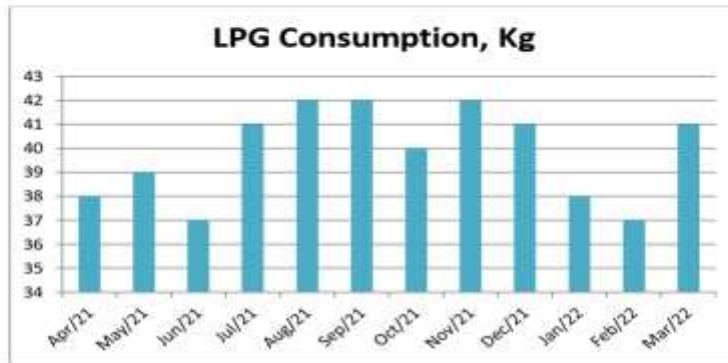


Table No 4: Variation in Important Parameters:

No	Parameter/ Variation	Energy Consumed, kWh	LPG Consumption, Kg	CO ₂ Emissions, MT
1	Total	10608	478	10.83
2	Maximum	1577	42	1.52
3	Minimum	456	37	0.52
4	Average	884	39.83	0.90



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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 taking into account the usage of the Electrical Energy.

Basis for computation of CO₂ Emissions:

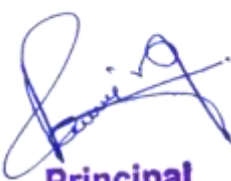
- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere

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

Table No5: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Apr-21	1577	1.52
2	May-21	700	0.73
3	Jun-21	463	0.52
4	Jul-21	456	0.52
5	Aug-21	477	0.54
6	Sep-21	652	0.70
7	Oct-21	671	0.71
8	Nov-21	1072	1.08
9	Dec-21	1121	1.12
10	Jan-22	1402	1.36
11	Feb-22	1036	1.03
12	Mar-22	981	0.99
13	Total	10608	10.83
14	Maximum	1577	1.52
15	Minimum	456	0.52
16	Average	884	0.90




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Chart No 3: Month wise CO₂ Emissions:

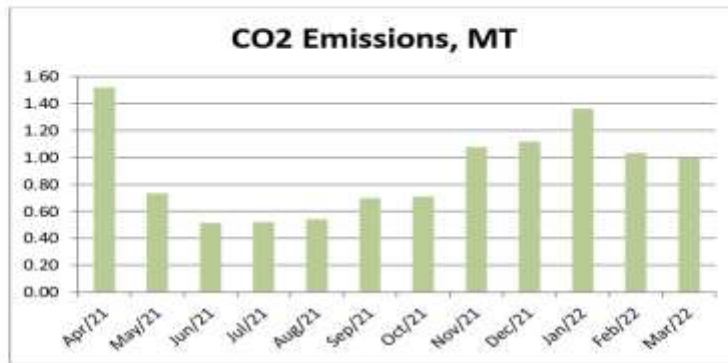


Table No 6: Important Parameters:

No	Parameter/ Variation	Energy Purchased, kWh	CO2 Emissions, MT
1	Total	10608	10.83
2	Maximum	1577	1.52
3	Minimum	456	0.52
4	Average	884	0.90



(Handwritten Signature)

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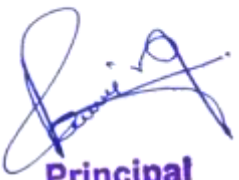


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CHAPTER V STUDY OF USAGE OF ALTERNATE ENERGY

As on today College has not install solar roof-top PV plant, It is recommended to install solar roof-top PV plant on the college building.




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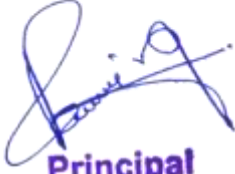
CHAPTER VI STUDY OF USAGE OF LED LIGHTING

In this chapter, we compute the percentage of usage of LED Lighting to Annual Lighting power requirement.

Table No 8: Percentage of Usage of LED Lighting to Annual Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	206	Nos
2	Demand of 40 W FTL Fitting	40	W/Unit
3	Total Electrical Load of 40 W FTL Fittings	8.24	kW
4	No of 20 W LED Tube Lights	19	Nos
5	Demand of 20 W LED Tube Light	20	W/Unit
6	Total Electrical Load of 20 W LED Fittings	0.38	kW
7	Annual Total Lighting Load = 3+6	8.62	kWh
8	Annual LED Lighting Load = 6	0.38	kWh
9	Annual Lighting Requirement met by LED= $8 \times 100 / 7$	4.41	%




Principal
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 Ghogaon, Tal. Karad, Dist. Satara

Regd. No. MH/4775/Satara

DTE Code : 6394, MSBTE Code : 2144



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Energy Audit Report

2020-21

ENERGY AUDIT REPORT OF SHREE SANTKRUPA COLLEGE OF PHARMACY, Ghogaon (Shivajinagar)



Year: 2020-21

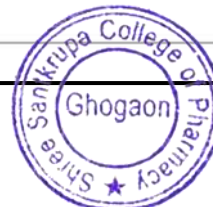
Prepared by:

Enrich Consultants

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

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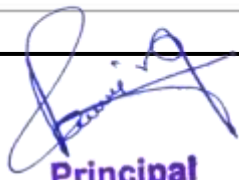
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MAHARASHTRA ENERGY DEVELOPMENT AGENCY <small>An ISO 9001:2000 Reg. No. RD 91/2002</small>	
	Maharashtra Energy Development Agency (Government of Maharashtra Institution) Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary, Aundh, Pune, Maharashtra 411067 Ph No: 020-35000450 Email: eee@mahaurja.com , Web: www.mahaurja.com
ECN/2021-22/CR-14/1577	22 nd 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 Muktangan 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
<ul style="list-style-type: none"> • 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)	




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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/SCP/20-21/01

Date: 26/05/2021

CERTIFICATE

This is to certify that we have conducted Energy Audit at Shree Santkrupa College of Pharmacy, Ghogaon in the Academic year 2020-21.

The College has adopted following Energy Efficient practices:

- Maximum usage of Day Lighting
- Usage of Energy Efficient LED Light Fitting

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

For Enrich Consultants,

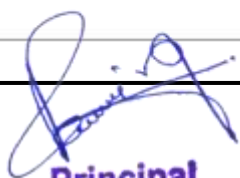


A Y Mehendale,
Certified Energy Auditor
EA-8192

Enrich Consultants, Pune

Page 3




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2	Study of Connected Load	9
3	Study of Present Energy Consumption	11
4	Carbon Foot Printing	13
5	Study of Usage of Alternate Energy	14
6	Study of LED Lighting	15


Principal

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Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

ACKNOWLEDGEMENT

We Enrich Consultants, Pune, express our sincere gratitude to the management of Shree Santkrupa College of Pharmacy, Ghogaon for awarding us the assignment of Energy Audit of their Campus for the Academic Year: 20-21.

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



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Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

EXECUTIVE SUMMARY

1. Shree Santkrupa College of Pharmacy, Ghogaon consumes Energy in the form of Electrical Energy used for various Electrical Equipment, Office & other facilities.
2. Present Energy Consumption & CO₂ Emission:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7132	6.418
2	Maximum	1239	1.115
3	Minimum	377	0.339
4	Average	594.33	0.534

3. Energy Conservation projects already installed:

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

4. Usage of Alternate Energy:

- As on today College has not installed solar rooftop power plant. It is recommended to install solar power rooftop system on the college building as per availability of funds.

5. Usage of LED Lighting:

- The Total Lighting load of College is 8.62 kW.
- The LED Lighting Load is 0.38 kW.
- The % of LED Lighting to Total Lighting Load is 4.41 %.

6. Assumptions:

1. 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
2. 100 LPD Solar Thermal System saves 1500 kWh of Electrical Energy per Annum.
3. Daily working hours-4 Nos (For Lighting Calculations)
4. Annual working Days-120 Nos (For Lighting Calculations)

7. References:

- For CO₂ Emissions: www.tatapower.com



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ABBREVIATIONS

LED	: Light Emitting Diode
MSEDCL	: Maharashtra State Electricity Distribution Company Limited
IQAC	: Internal Quality Assurance Cell
BEE	: Bureau of Energy Efficiency
FTL	: Fluorescent Tube Light
Kg	: Kilo Gram
kWh	: Kilo-Watt Hour
CO ₂	: Carbon Di Oxide
MT	: Metric Ton



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CHAPTER-I INTRODUCTION


1.1 Objectives:

1. To study present Energy Consumption
2. To Study the present CO₂ Emissions
3. To study usage of Alternate Energy
4. To study usage of LED Lighting

1.2 Table No 1: General Details of the College:

No	Head	Particulars
1	Name of Institution	Shree Santkrupa College of Pharmacy, Ghogaon
2	Address	Ghogaon (Shivajinagar) Dist. Satara (M.H.) – 415 111
3	Affiliation	Shivaji University, Kolhapur




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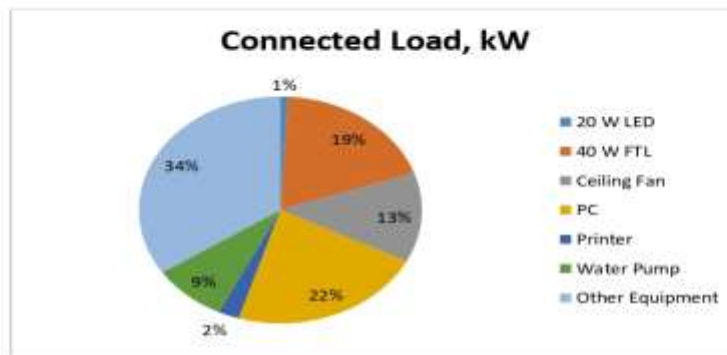
**CHAPTER-II
STUDY OF CONNECTED LOAD**

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

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	20 W LED	19	20	0.38
2	40 W FTL	206	40	8.24
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5	Printer	7	150	1.05
6	Water Pump	1	3730	3.73
7	Other Equipment	100	150	15
8	Total			44

Chart No 1: Study of Connected Load:



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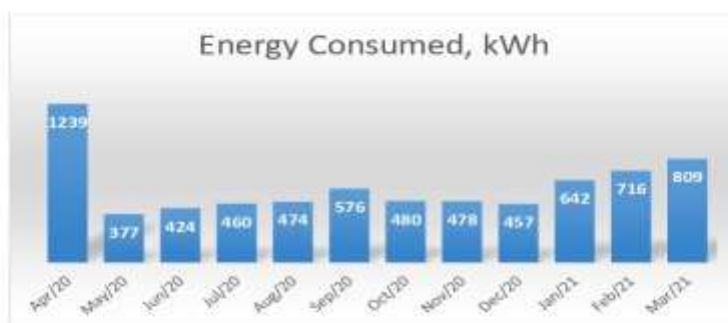
Energy Audit Report: Shree Santkrupa College of Pharmacy, Ghogaon: 20-21

CHAPTER-III**STUDY OF PRESENT ENERGY CONSUMPTION**

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

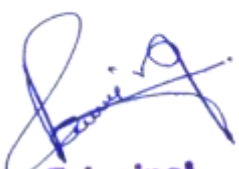
Table No 3: Electrical Bill Analysis- 2020-21:

No	Month	Energy Purchased, kWh
1	Apr-20	1239
2	May-20	377
3	Jun-20	424
4	Jul-20	460
5	Aug-20	474
6	Sep-20	576
7	Oct-20	480
8	Nov-20	478
9	Dec-20	457
10	Jan-21	642
11	Feb-21	716
12	Mar-21	809
13	Total	7132
14	Maximum	1239
15	Minimum	377
16	Average	594.33

Chart No 2: Variation in Monthly Energy Consumption:**Table No4: Variation in Important Parameters:**

No	Parameter/ Variation	Energy Purchased, kWh
1	Total	7132
2	Maximum	1239
3	Minimum	377
4	Average	594.33




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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 taking into account the usage of the Electrical Energy.

Basis for computation of CO₂ Emissions:

- 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 College due to its Day to Day operations

Table No5: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Apr-20	1239	1.115
2	May-20	377	0.339
3	Jun-20	424	0.381
4	Jul-20	460	0.414
5	Aug-20	474	0.426
6	Sep-20	576	0.518
7	Oct-20	480	0.432
8	Nov-20	478	0.430
9	Dec-20	457	0.411
10	Jan-21	642	0.577
11	Feb-21	716	0.644
12	Mar-21	809	0.728
13	Total	7132	6.418
14	Maximum	1239	1.115
15	Minimum	377	0.339
16	Average	594.333	0.534



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Chart No 3: Month wise CO₂Emissions:

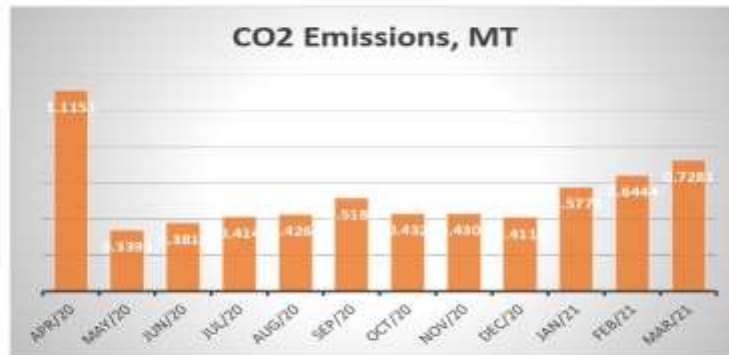


Table No 6: Important Parameters:

No	Parameter/ Variation	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7132	6.418
2	Maximum	1239	1.115
3	Minimum	377	0.339
4	Average	594.333	0.534



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CHAPTER V STUDY OF USAGE OF ALTERNATE ENERGY

As on today College has not install solar roof-top PV plant, Solar thermal water heating plant; the percentages of uses of alternate energy to the annual energy demand work to be zero percent.



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**CHAPTER VI
STUDY OF USAGE OF LED LIGHTING**

In this chapter, we compute the percentage of usage of LED Lighting to Annual Lighting power requirement.

Table No 8: Percentage of Usage of LED Lighting to Annual Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	206	Nos
2	Demand of 40 W FTL Fitting	40	W/Unit
3	Total Electrical Load of 40 W FTL Fittings	8.24	kW
4	No of 20 W LED Tube Lights	19	Nos
5	Demand of 20 W LED Tube Light	20	W/Unit
6	Total Electrical Load of 20 W LED Fittings	0.38	kW
7	Annual Total Lighting Load = 3+6	8.62	kWh
8	Annual LED Lighting Load = 6	0.38	kWh
9	Annual Lighting Requirement met by LED= $8 \times 100 / 7$	4.41	%



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Gender Audit Report

2022-23

NAAC "A++" Grade
With CGPA 3.52 (2021)

SHIVAJI UNIVERSITY, KOLHAPUR
LATE SMT. SHARADABAI GOVINDRAO PAWAR
ADHYASAN

The diagram consists of three overlapping ovals. The left oval is blue and labeled 'GENDER' with icons of a woman and a man. The right oval is yellow and labeled 'EQUALITY' with an equals sign between a woman and a man icon. The intersection of the two ovals is green and labeled 'GENDER EQUALITY' with a scale of justice icon.

One Year

GENDER AUDIT REPORT

GENDER AUDIT OF
SHREE SANTAKRUPA COLLEGE OF PHARMACY,
GHOGAO, TAL. KARAD, DISTRICT SATARA
(AUDIT PERIOD: 2022 - 2023)

Dated: 14 February 2024

Prof. Dr. Bharati Patil
Coordinator
Late Smt. Sharadabai Govindrao Pawar Adhyasan
Shivaji University, Kolhapur



Principal
Dr. Ramling G. Patrakar
Shree Santkrupa College of Pharmacy
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GENDER AUDIT OF
SHREE SANTAKRUPA COLLEGE OF PHARMACY,
GHOGAO, TAL.- KARAD, DISTRICT - SATARA
(AUDIT PERIOD: 2022 - 2023)

Education plays very pivotal role in promoting egalitarian values enshrined in the Constitution of India. University Grants Commission has stressed the need of analyzing educational institutes in the context of its reach to the marginalized and disadvantaged groups. Women and third gender, are two such groups, which are disadvantaged and needs special attention. Gender Equality, therefore should be the goal towards which all educational institutes must strive. Gender Audit can help them to cherish the goal of gender equality. Gender Audit of an educational institute/college helps it to assess and check the institutionalization of gender equality in their college/ institutions, including their policies, programs, proceedings, budget, etc. Once the gender audit is done, it helps colleges/ institutions to improve and fill the gaps to achieve the goal of Gender Equality.

Shree Santkrupa College of Pharmacy, Ghogao, Tal. Karad, District Satara submitted duly filled proforma of gender audit prepared by Late Smt. Sharadabai Govindrao Pawar Adhayasan. Shivaji University, Kolhapur. The audit period is 2022-2023. The College in run by Shree Santkrupa Shikshan Sanstha. The College caters the student's need, especially from rural area. The college has the faculty of Science and Technology. The College offers UG and PG programs ; B. Pharm and M. Pharm. The College is led by Principal Dr. Ramling Patrakar.


Principal

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Shree Santkrupa Shikshan Sanstha's

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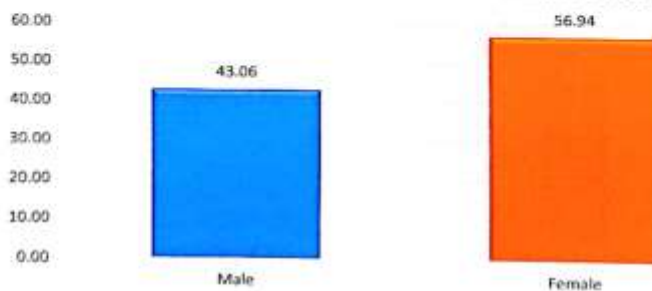
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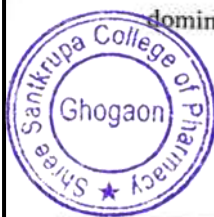
**PART A: GENERAL & PERSONNEL INFORMATION****1. Faculty wise Students' Male Female Ratio**

Shree Santkrupa College of Pharmacy, offers UG program; B. Pharm and PG program; M. Pharm. Following is the program wise male female students' ratio for assessment period.

B. Pharm : Student's Male Female Ratio						
Faculty	Year	Number of Students			Ratio	
		Male	Female	Total	Male	Female
B. Pharm	2022-23	124	164	288	43.06	56.94
	Total	124	164	288	43.06	56.94

B. Pharm : Student's Male Female Ratio

The above statistics shows male female students' ratio for B. Pharm during assessment period. The ratio for the assessment period is 43.06 : 56.94. There is dominance of female students, which is appreciable.



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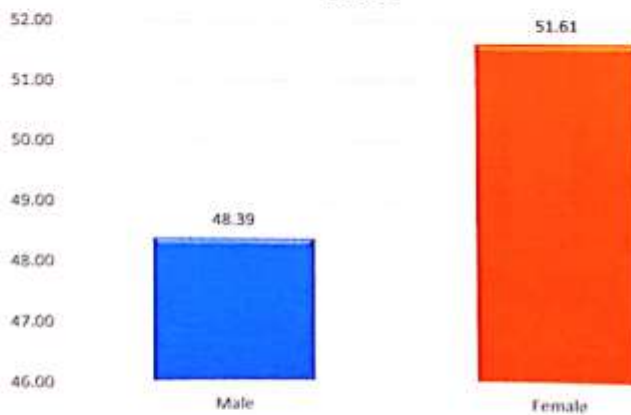
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M. Pharm : Student's Male Female Ratio						
Faculty	Year	Number of Students			Ratio	
		Male	Female	Total	Male	Female
M. Pharm	2022-2023	15	16	31	48.39	51.61
	Total	15	16	31	48.39	51.61

M. Pharm : Student's Male Female Ratio



The above statistics shows male female students' ratio for M. Pharm Program during assessment period. The ratio for the assessment period is 48.39 : 51.61

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Principal



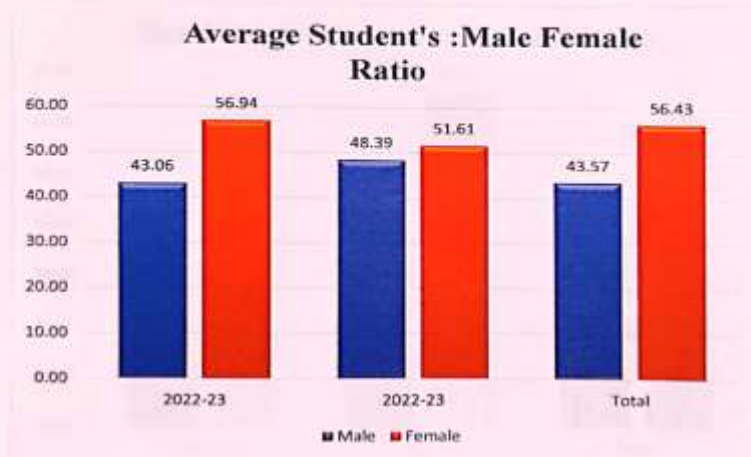
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Average Student's Male Female Ratio						
Faculty	Year	Number of Students			Ratio	
		Male	Female	Total	Male	Female
B. Pharm	2022-23	124	164	288	43.06	56.94
M. Pharm	2022-23	15	16	31	48.39	51.61
	Total	139	180	319	43.57	56.43



The above statistics shows average male female students' ratio for the assessment period. The average ratio for the assessment period is 43.57 : 56.43. There is dominance of female students, which is appreciable.



(Handwritten Signature)
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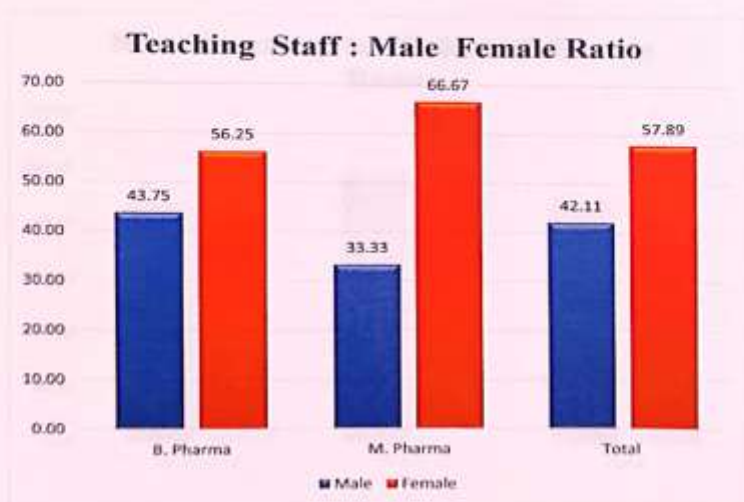
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Teaching Staff Male & Female Ratio						
Faculty	Year	Number of Teaching			Ratio	
		Male	Female	Total	Male	Female
B. Pharma	2022-23	7	9	16	43.75	56.25
M. Pharma		1	2	3	33.33	66.67
Total		8	11	19	42.11	57.89



The above statistics shows the male female ratio for Teaching staff. The average ratio for the assessment period is i. e. 42.11 : 57.89 female teachers outnumber the male teachers, which is very commendable .


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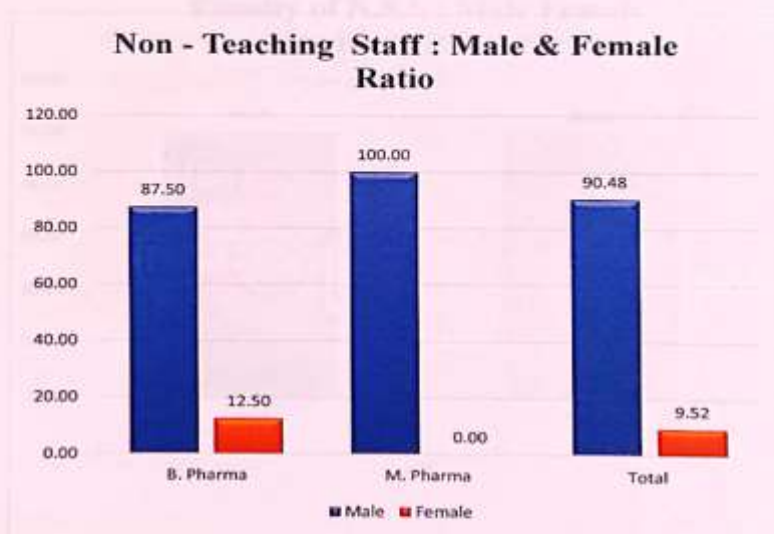
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Non - Teaching Staff Male & Female Ratio

Faculty	Year	Number of Teaching			Ratio	
		Male	Female	Total	Male	Female
B. Pharma	2022-23	14	2	16	87.50	12.50
M. Pharma		5	0	5	100.00	0.00
Total		19	2	21	90.48	9.52

Non - Teaching Staff : Male & Female Ratio



The above statistics shows the male female ratio for non-Teaching staff. The average ratio for the assessment period is **90.48 : 09.52** which shows male dominance. The College need to make efforts to get female administrative staff recruited.



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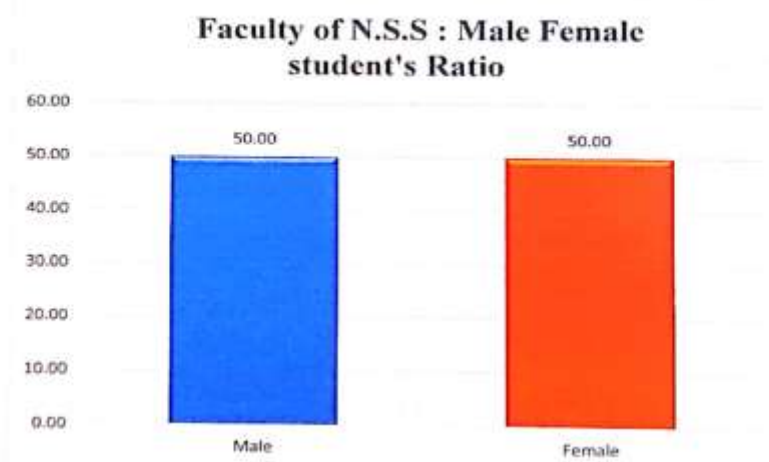


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N.S.S Students' : Male Female Ratio						
N. S. S	Year	Number of Students			Ratio	
		Male	Female	Total	Male	Female
	2022-23	20	20	40	50.00	50.00
	Total	20	20	40	50.00	50.00



The above statistics shows the male female ratio of NSS students, for the assessment period the ratio is 50.00 :50.00. This parity is good.



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PART B: COLLEGE INFRASTRUCTURE

1. Shree Santakrupa College of Pharmacy has two storeyed building, with UG and PG wings separately designed Toilet blocks are on every floor.
2. The college has a ladies common room with a size of 80 sq. ft. The room seems very spacious
3. The college has 4 toilet units for girls with daily twice cleanliness frequency. There is also Vending machine available in the toilet rooms.
4. The college has a playground which is used by both boys and girls. Indoor games such as carom, chess are available in the college.
5. Pure drinking water is provided by the college
6. Shree Santakrupa College of Pharmacy provides bus facility for the students and female students take benefit of it.
7. Security service with two security guards and CC TV surveillance is provided by the college.
8. College does not subscribe any women's magazine. Only four books related to women's issues are available in the library.

PART C : HOSTEL INFRASTRUCTURE

1. Shree Santakrupa College of Pharmacy provides hostel to female students
2. There are total five rooms with four girl students per room. It has four bathrooms and four toilet blocks.
3. The hostel provides all the facilities such as clean rooms, clean toilets, with vending machine, hot water and mess,
4. The Hostel has a full-time warden but the rules of the hostel are not there

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PART D: GENDER POLICY

1. The college has a written Gender Policy, but needs to be elaborated
2. It is not clear if the college encourages female staff for their academic development by sanctioning leaves whenever requested.
3. It is not clear if the College encourages teachers/staff to take maternity and paternity leaves.
4. The College has not provided any information if any financial provisions for gender equity programs is made.

PART E : INSTITUTIONAL MECHANISM

1. Shree Santakrupa College of Pharmacy has a Gender Sensitization Cell . Regular meetings of the Cell are conducted and an Action Plan is prepared by it. As per the plan few programs were organised by the Cell, which includes two lectures, one on Gender equality and the other on Women's Hygiene and Health. On the occasion of National Girl Child day, Selfie with Daughter event was organised
2. Internal Complaints committee (ICC) plays a very crucial rule in any institute/organization, in creating safe and healthy atmosphere in the institute.

Shree Santkrupa College of Pharmacy has Internal Complaint Committee which is constituted as per Act and meetings of the committee are organised on a regular basis. The college has not displayed the board of the committee members. No sexual harassment case was lodged during assessment period, which in very good. The ICC organised one program on International Women's Day, on which a lecture on 'Digit ALL, Innovation and Technology for Gender Equality' was organised.



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3. Shree Santakrupa College of Pharmacy has Anti Ragging committee. Its meetings are conducted regularly. However no sensitization program is organised by the Anti Ragging committee. It received no complaints during the assessment period.
4. The college has displayed the boards of ICC and Anti-Ragging committee members on the college walls.
5. College has mentoring scheme for female students. Mentoring Committee is constituted by the college and regular meetings of the committee are held.
6. Shree Santakrupa College of Pharmacy organised Webinar on GPAT guidance and a guest lecture on personality development and career opportunities.

Part F : Performance and Incentives

1. Shree Santkrupa College of Pharmacy gives all the scholarships given by the government. Female students also get benefit from these scholarships.
2. Six students of Shree Santkrupa College of Pharmacy got placed in Rank Order. Among these six are female students, which is very praiseworthy.
3. Participation of students in academic, cultural and sports activities is an important part of college life of students. It is therefore essential that college encourage students to participate in these events and equally important is to felicitate them. Shree Santkrupa College of Pharmacy organised **Pharmautsav 2K23** ; Annual Gathering, in which good number of female students participated and got certificates . However, the college needs to encourage students to participate in the University level events as well.

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4. Female teaching staff has participated and shown good performance in academics. One research article is published in journal as joint author. Female teachers have participated in conferences.
5. Female teachers have good representation in college governance, but equally it is important to encourage them to move to higher positions.

COMMENDATIONS

1. The male female ratio of students is very appreciable, especially on the background that the college is located in rural -semi urban area.
2. The number of female teachers is praiseworthy .
3. College has NSS, which is really commendable and shows that college is eager to imbibe values of discipline and social service among students.
4. The teaching faculty has shown good performance in academics.
5. Six female students have secured place in the University Rank Order, which is very praiseworthy.
6. The Alumni of the college, especially female students are placed at very good and prestigious positions.

RECOMMENDATIONS:

1. The College also has to make sea change in its recruitment policy and should make efforts to get female Non-Teaching staff recruited.
2. College need to invite Nirbhaya Pathak / Police Pathak frequently to the college, so that security of female students can be maintained
3. The college need to establish Women Recreation Centre and a gym for girls
4. College need to organize more focused Gender Equity programs and spend handsome amount of money on it.





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- 5 College may think of starting fellowships and prizes to the female students.
- 6 There are no women specific journals, neither there are women specific books. The College need to purchase or subscribe them.
- 7 College need to encourage their students to participate in the youth festival organised by University, so that they will get an opportunity to showcase their talent
- 8 A Counsellor, to address emotional problems of all the stakeholders will be a welcome feature

Thus on the basis of above observations and examination of the documents and proforma of Gender Audit submitted by the Shree Santkrupa College of Pharmacy, Ghogao has scored 100 marks out of 200 i.e. **College has secured 50 %**

Date : 14/02/2024

Place: Kolhapur

Prof. Dr. Bharati Patil
Co-ordinator

Late Smt. Sharadshah Govindrao Pawar Chair
Shivaji University, Kolhapur.



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