



INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDANA'S

**Dr. RAJENDRA GODE COLLEGE OF PHARMACY  
MALKAPUR**

Buldana Road, MALKAPUR – 443101 Dist – Buldana (M.S)

Phone: (07267) 227337/39, Fax: (07267) 227338

E-mail : cop\_malkapur@rediffmail.com, Web : [www.drgcop.co.in](http://www.drgcop.co.in)

Recognized by AICTE & PCI, New Delhi Affiliated to S.G.B. Amravati University, Amravati.

---

**Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra**

---

**Shri. Yogendra R. Gode**  
President

**Dr. P. K. Deshmukh**  
Principal

---

## **Green Audit Report**

# Nutan Urja Solutions

(ISO 9001:2015, ISO 50001:2018, ISO 14001:2015,  
ISO/ IEC 17020:2012)

A 703, Balaji Witefield, Near Sunni's World,  
Sus Road, Sus, Pune 411 021

Phone: 83568 18381. Email: [nutanurja.solutions@gmail.com](mailto:nutanurja.solutions@gmail.com)



Date: 14/12/2022

## CERTIFICATE

This is to certify that we have conducted Green Audit at Dr. Rajendra Gode College of Pharmacy, Malkapur for the year 2021 – 22.

The College has already adopted **Green** practices like:

- Installation of Rain Water Harvesting system
- Installation of Bio composting pit
- Usage of Energy Efficient LED
- Installation solar PV of 25kW capacity
- Usage of Energy Efficient BEE STAR Rated equipment

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

Nutan Urja Solutions,

*K G Bhatwadekar*

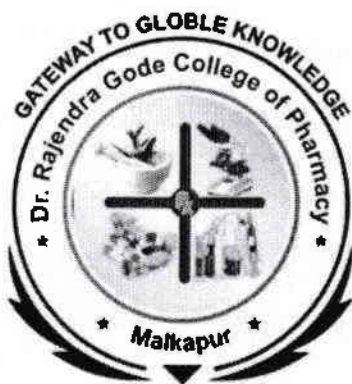
K G Bhatwadekar,

Certified Energy Auditor,

EA – 22428



**Report**  
**On**  
**Green Audit**  
**At**  
**Dr. Rajendra Gode College of Pharmacy, Malkapur**  
**(Year 2021-22)**



Prepared by

**Nutan Urja Solutions**

A 703, Balaji Witefield, Near Sunni's World,

Sus Road. Sus, Pune 411 021

Phone: 83568 18381. Email: [nutnurja.solutions@gmail.com](mailto:nutnurja.solutions@gmail.com)



## Contents

Acknowledgement .....	2
Executive Summary .....	3
Abbreviations .....	5
1. Introduction .....	6
1.1 Objectives .....	6
1.2 Audit methodology .....	6
2. Study of Electrical Energy Consumption .....	7
3. Carbon Foot printing .....	9
4. Study of Usage of Alternate Energy .....	11
5. Study of Rain Water Harvesting .....	12
6. Study of Waste Management .....	13
6.1 Solid Waste Management .....	13
6.2 e-Waste Management .....	13
7. Study of Green Practices .....	14
7.1 No of students who don't use own Vehicle for coming to Institute .....	14
7.2 Usage of Public Transport .....	14
7.3 Pedestrian Friendly Roads .....	14
7.4 Plastic Free Campus .....	14
7.5 Paperless Office .....	15
8. Green Landscaping with Trees and Plants .....	16



## **Acknowledgement**

We at Nutan Urja Solutions, Pune, express our sincere gratitude to the management of Dr. Rajendra Gode College of Pharmacy, Malkapur for awarding us the assignment of Green Audit of their college premises.

We are also thankful to various Head of Departments & other Staff members for helping us during the field measurements.

We hope that the recommendations stated in this report will be useful and worthy of discussions to take things forward to help implementation of energy conservation measures and green practices. While we have made every attempt to adhere to high quality standards, in both data collection and analysis through the report, we would welcome your suggestions so as to improve upon this report further.



## Executive Summary

Green Audit of Rajendra Gode College of Pharmacy, Malkapur is conducted by Nutan Urja Solutions, Pune. Based On the audit field study, following important points can be presented.

### 1. Present Energy Consumption

Rajendra Gode College of Pharmacy, Malkapur uses Electrical Energy as the source of Energy for various equipment in the college campus. In the following Table, we present the details of Energy Consumption.

**Table no 1: Details of energy consumption**

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	1,568	1.25
2	Minimum	-	-
3	Average	590	0.47
4	Total	7,084	5.67

### 2. Various Measures Adopted for Energy Conservation

1. Usage of STAR Rated ACs at new installations
2. Usage of LED lights at some indoor locations
3. Usage of LED Lights for outdoor lighting.

### 3. Usage of Renewable Energy

The collage has installed 25 kW Solar PV Power Plant.

### 4. Rain Water Harvesting

The College has installed the Rainwater harvesting project, to reduce dependency on municipal corporation water supply.

### 5. Waste Management

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

The internal communication is through emails and there is hardly any generation of e-Waste in the premises.

### **6. Notes and Assumptions**

1. Daily working hours-10 Nos
2. Annual working Days-250 Nos
3. Average Rate of Electrical Energy : Rs 11/- per kWh



## Abbreviations

CFL	:	Compact Fluorescent Lamp
FTL	:	Fluorescent Tube Light
LED	:	Light Emitting Diode
V	:	Voltage
I	:	Current
kW	:	Kilo- Watt
kWh	:	kilo-Watt Hour
kVA	:	Active Power





## **1. Introduction**

Dr. Rajendra Gode College of Pharmacy, Malkapur is one of the leading and topmost institutions of Maharashtra which was established in the year 2005. The grown tree what we see on today in the form of DRGCOP Malkapur is the one which once was planted by the great visionary Late Honorable Dr. Rajendraji Gode, founder president of IBSS. Our institute is well known in the region for its academic excellence and state of the art infrastructure to provide higher Education in the field of Pharmaceutical Sciences. It is located on sprawling 3 acres of campus on SH 176 Buldana to Malkapur.

### **1.1 Objectives**

1. To study present level of Energy Consumption
2. To Study the present CO<sub>2</sub> emissions
3. To assess the various equipment/facilities from Energy efficiency aspect
4. To measure various Electrical parameters
5. To study Scope for usage of Renewable Energy
6. To study various measures to reduce the Energy Consumption

### **1.2 Audit methodology**

1. Study of connected load
2. Study of various Electrical parameters
3. To prepare the Report with various Encon measures with payback analysis



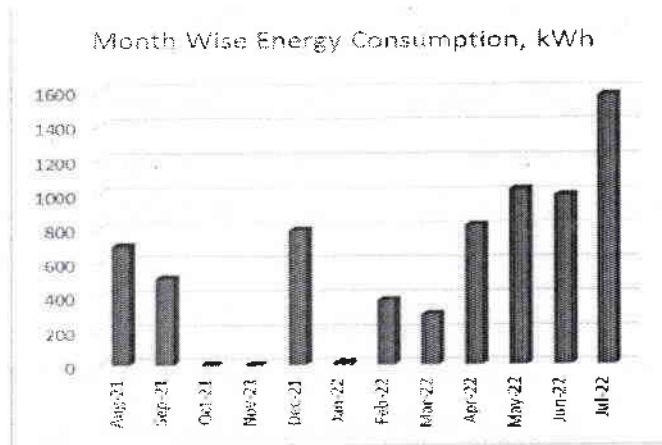
## 2. Study of Electrical Energy Consumption

In this chapter, electricity bills are studied for the analysis of electrical energy consumption.

**Table no 2.1: Summary of electricity bills**

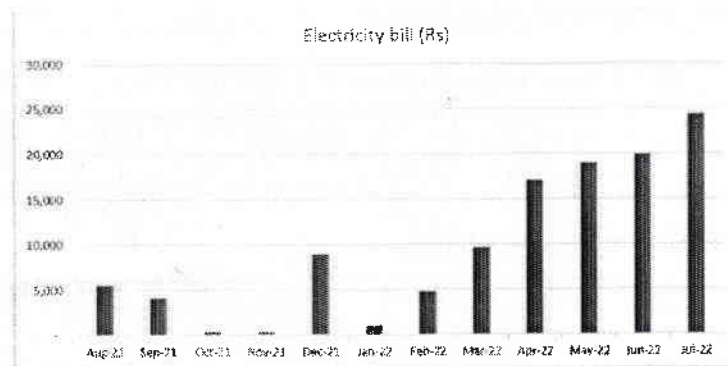
No	Month	Energy (kWh)	Bill Amount (Rs)
1	Jul-22	1568	24,287
2	Jun-22	988	19,884
3	May-22	1025	18,953
4	Apr-22	816	17,072
5	Mar-22	294	9,585
6	Feb-22	380	4,751
7	Jan-22	18	1,049
8	Dec-21	788	8,923
9	Nov-21	0	373
10	Oct-21	0	373
11	Sep-21	509	4,102
12	Aug-21	698	5464
	<b>Total</b>	<b>7084</b>	<b>114816</b>

Variation in energy consumption is as follows,



**Figure 2.1: Month wise energy consumption**

Monthly variation in electricity bill is as follows,



**Figure 2.2: Month wise electricity bill**

Key observations of electricity bill are as follows,

**Table no 2.2: Key observations**

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	1,568	1.3
2	Minimum	-	-
3	Average	590	0.5
4	Total	7,084	5.7



### 3. Carbon Foot printing

1. A **Carbon Foot print** is defined as the Total Greenhouse Gas emissions (CO<sub>2</sub> emissions), emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various form of Electrical Energy used by the College for performing its day to day activities

#### 2. Basis for computation of CO<sub>2</sub> Emissions:

The basis of Calculation for CO<sub>2</sub> emissions due to Electrical Energy is as under

- 1 Unit (kWh) of Electrical Energy releases **0.8 Kg of CO<sub>2</sub>** into atmosphere.

Based on the above Data we compute the CO<sub>2</sub> emissions which are being released in to the atmosphere by the College due to its Day to Day operations

We herewith furnish the details of various forms of Energy consumption as under

**Table 3.1: Month wise Consumption of Electrical Energy & CO<sub>2</sub> Emissions**

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jul-22	1,568	1.3
2	Jun-22	988	0.8
3	May-22	1,025	0.8
4	Apr-22	816	0.7
5	Mar-22	294	0.2
6	Feb-22	380	0.3
7	Jan-22	18	0.0
8	Dec-21	788	0.6
9	Nov-21	-	0.0
10	Oct-21	-	0.0
11	Sep-21	509	0.4
12	Aug-21	698	0.6
	<b>Total</b>	<b>7,084</b>	<b>5.7</b>

In the following Chart we present the CO<sub>2</sub> emissions due to usage of Electrical Energy.



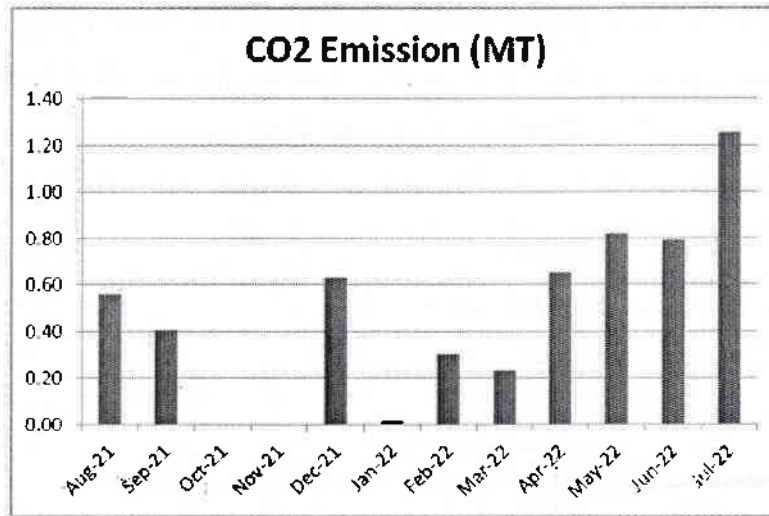


Figure 3.1: Month wise CO2 Emission



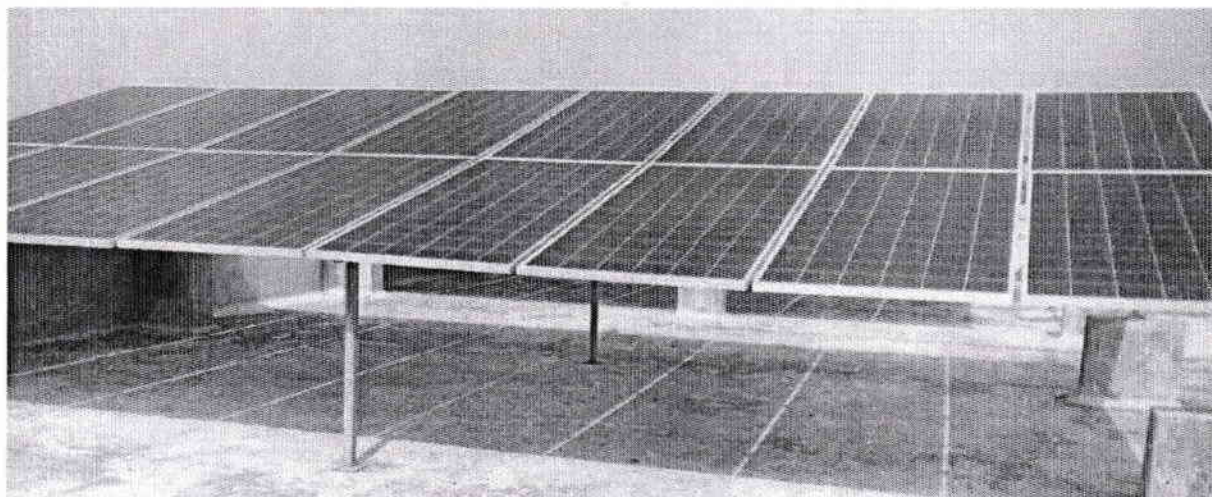
#### 4. Study of Usage of Alternate Energy

In this Chapter, we compute the percentage of Usage of Alternate/Renewable Energy to Annual Energy Requirement of the College. The College has installed Roof Top Solar PV System. The Installed Capacity of Solar PV Plant is 25 kWp.

**Table 4.1: Computation of % Usage of Alternate Energy to Annual Energy Requirement**

No	Particulars	Value	Unit
1	Annual Energy Purchased from MSEDCL	7,084	kWh/Annum
2	Energy Generated by Roof Top Solar PV System	37,500	kWh/Annum
3	Total Energy Requirement of College	44,584	kWh/Annum
4	% of Usage of Alternate Energy to Annual Energy Requirement	84	%

#### Photograph of Solar PV plant



## 5. Study of Rain Water Harvesting

The College has already installed Rain Water Harvesting project, wherein the rain water falling on the terrace is collected and through pipes it is fed to underground Water Storage tank. This stored water is then reused for domestic purpose.

### Photograph of Rain Water Harvesting pipe



## **6. Study of Waste Management**

### **6.1 Solid Waste Management**

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

#### **Photographs of Bio Composting Storage Tanks:**



### **6.2 e-Waste Management**

The internal communication is through emails and there is hardly any generation of e-Waste in the premises.



## **7. Study of Green Practices**

### **7.1 No of students who don't use own Vehicle for coming to Institute**

Out of total students coming to Institute, about 60% students use own Automobile.

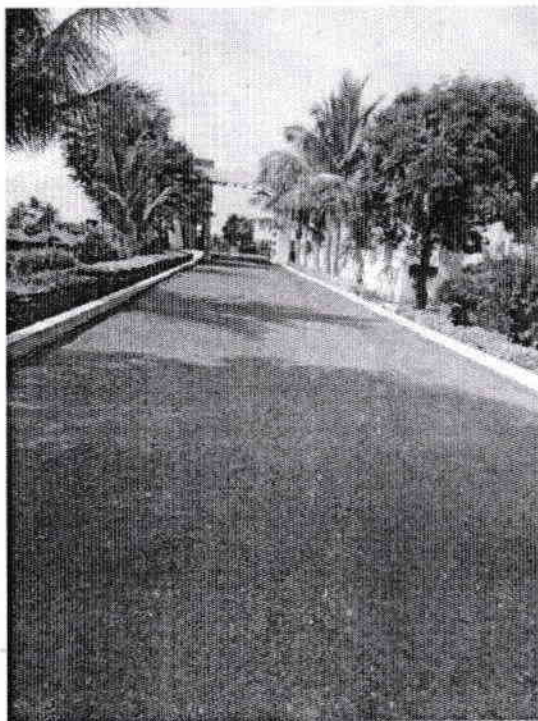
### **7.2 Usage of Public Transport**

During the Students transport study, it was revealed that the local students who are residing near areas make use of Public Transport like Municipal Transport local buses, local sharing type auto rickshaws. Some students use bicycles. The average number of students is approximately 40 %. Institute encourages students to not to use automobiles.

### **7.3 Pedestrian Friendly Roads**

The Institute has well defined pedestrian foot paths as to facilitate the easy movement of the students within the campus.

#### **Photograph of Road within campus**



### **7.4 Plastic Free Campus**

The Institute is an active participant in the Government of India's most prestigious project of SWATCHH BHART ABHIYAN. The Institute has displayed boards in the Campus, to make the campus plastic free. Various measures adopted for this purpose are as follows

- Installation of Separate waste bins for Dry waste & wet waste
- Usage of paper tea cups in the Institute canteen
- Display of boards in the campus for Plastic Free campus

#### **7.5 Paperless Office**

The internal communication of the Institute is through the Internet. There are hardly any day to day operations, where printing is required.



## 8. Green Landscaping with Trees and Plants

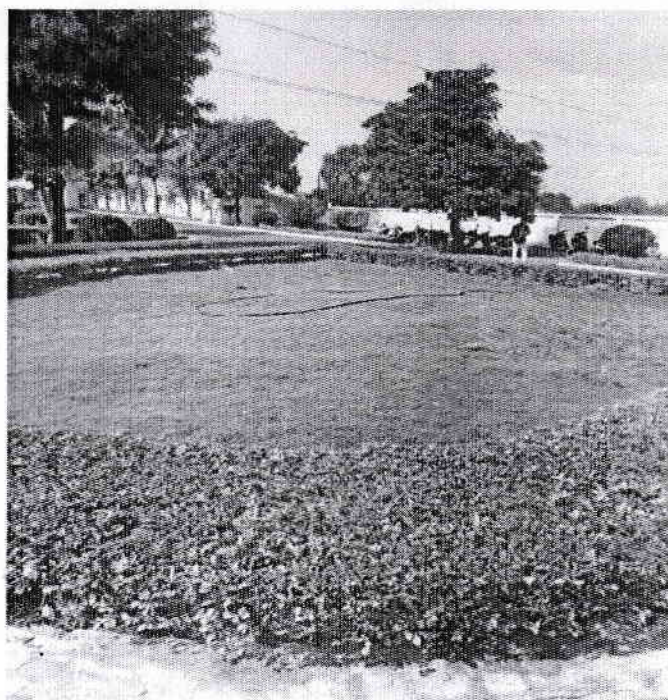
The Institute has beautiful maintained Garden. List of trees in garden are as follows.

**Table 8.1: List of trees**

Sr no	Botanical Name	Name of Plants	No of plants
1	Prunus Dulcis	Almond	1
2	Annona Squamosa	Sitafhal	4
3	Saraca Asoca	Ashoka	5
4	Phyllanthus Emblica	Amala	4
5	Aloe Barbadensis	Aloes	1
6	Terminalia Arjuna	Arjuna Bark	2
7	Justicia Adhotoda	Adulsa	2
8	Ficus Glomerata	Avdumbar	1
9	Aegle Marmelos	Bel Fruit	3
10	Terminalia Bellirica	Beheda	3
11	Mimusops Elengi	Bakula	5
12	Syzygium Cumini	Java Plum	7
13	Thuja	Vidya	52
14	Cirtus Sinensis	Sweet Orange	3
15	Crotona Tiglium	Jamalgota	1
16	Cocos Nucifera	Coconut	24
17	Datura Stramonium	Datura	1
18	Tinospora Cordifolia	Gulvel	1
19	Cissus Quadrangularis	Hatjod	1
20	Hibiscus Rosa-sinensis	Jaswand	2
21	Carissa Carandas	Karvanda	1
22	Murraya Koenigii	Karipatta	1
23	Chrysopon Zizanioides	Khas	2
24	Cymbopogon Citratus	Lemon Grass	1
25	Artocarpus Heterophyllus	Jackfruit	4
26	Glycyrrhiza Glabra	Liquorice	1
27	Cirtus Limon	Lemon	2
28	Lawsonia Inermis	Mehandi	1
29	Mangifera Indica	Mango	30
30	Vitex Negundo	Nirgudi	4
31	Azidirachta Indica	Neem	5
32	Ficus Religiosa	Pimpal	1
33	Psidium Guajava	Peru	5



34	Piperv Betla	Nagar-Bel	3
35	Bryophyllum Pinnatum	Panfuti	2
36	calotropis Procera	Rue	1
37	Annona Reticulata	Ramphal	1
38	sapindus Mukorossi	Ritha	1
39	Tripidium Bengalense	Sarkanda	1
40	Mentha Spicata	Spearmint	20
41	Asparagus Recemosus	Shatavari	1
42	Alstonia Scholaris	Satparni	14
43	Curcuma	Turmeric	1
44	Drimia Indica	Wild Onion	1
45	Azadirachta Indica	Neem	12
46	Bauhinia Racemosa	Apta	2
47	Dalberdia Sissoo	Shisam	1
48	Catharanthus Roseus	Periwinkle	10
49	Cymbopogon Winterianus Jowitt	Citronella Grass	1



**Figure 8.1: Beautiful maintained Garden of college**



INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDANA'S

**Dr. RAJENDRA GODE COLLEGE OF PHARMACY  
MALKAPUR**

Buldana Road, MALKAPUR – 443101 Dist – Buldana (M.S)

Phone: (07267) 227337/39, Fax: (07267) 227338

E-mail : [cop\\_malkapur@rediffmail.com](mailto:cop_malkapur@rediffmail.com), Web : [www.drgcop.co.in](http://www.drgcop.co.in)

Recognized by AICTE & PCI, New Delhi Affiliated to S.G.B. Amravati University, Amravati.

---

**Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra**

---

**Shri. Yogendra R. Gode  
President**

---

**Dr. P. K. Deshmukh  
Principal**

---

## **Environmental Audit Report**

# Nutan Urja Solutions

(ISO 9001:2015, ISO 50001:2018, ISO 14001:2015,  
ISO/ IEC 17020:2012)

A 703, Balaji Witefield, Near Sunni's World,

Sus Road, Sus, Pune 411 021

Phone: 83568 18381. Email:  
[nutanurja.solutions@gmail.com](mailto:nutanurja.solutions@gmail.com)



Date: 14/12/2022

## CERTIFICATE

This is to certify that we have conducted Environmental Audit at Dr. Rajendra Gode College of Pharmacy, Malkapur in the year 2021-22.

The College has already adopted following projects for making the campus **Green and Energy Efficient.**

- Installation of Bio Composting Pit
- Installation of Rain Water Harvesting System

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

**Nutan Urja Solutions,**

*K G Bhatwadekar*

K G Bhatwadekar,  
Certified Energy Auditor,  
EA - 22428



**Report**  
**On**  
**Environmental Audit**  
**At**  
**Dr. Rajendra Gode College of Pharmacy, Malkapur**  
**(Year 2021-22)**



Prepared by

**Nutan Urja Solutions**

A 703, Balaji Witefield, Near Sunni's World.

Sus Road, Sus, Pune 411 021

Phone: 83568 18381. Email: [nutanurja.solutions@gmail.com](mailto:nutanurja.solutions@gmail.com)

## Table of Contents

Acknowledgement .....	3
Executive Summary .....	4
ABBREVIATIONS .....	6
1. Introduction.....	7
1.1 Important Definitions:.....	7
1.2 Objectives.....	8
1.3 Audit Methodology:.....	8
1.4 General Details of College.....	8
2. Study of Consumption of Various Resources.....	9
2.1 Variation of Monthly Electrical Energy Consumption.....	10
2.3 Key Inference drawn.....	11
3. Study of Environmental Pollution .....	12
3.1 Air Pollution.....	12
3.2 Study of Solid Waste Generation.....	13
3.4 Study of Liquid Waste Generation.....	13
3.5 Study of e-Waste Management:.....	14
4. Study of Rain Water Harvesting.....	15
5. Recommendations.....	16





## **Acknowledgement**

We at Nutan Urja Solutions, Pune wish to express our sincere gratitude to the management of Dr. Rajendra Gode College of Pharmacy, Malkapur for assigning the work of Environmental Audit of college campus.

We appreciate the co-operation and support extended to our team members during the entire tenure of field study.

We are also thankful to various Head of Departments & other Staff members for helping us during the field measurements.

We are also thankful to all other staff members who helped us during the Measurements at the field and for giving us the necessary inputs to carry out this vital exercise.



## Executive Summary

After the Field measurements & analysis, we present herewith important observations made and various measures to reduce the dependency on Natural resources & reduce the pollution.

Dr. Rajendra Gode College of Pharmacy, Malkapur consumes various resources for day to day operations, namely: Air, Water, Electrical Energy & LPG.

### 1. Various Pollution due to College Activities:

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

### 2. Present Level of CO<sub>2</sub> Emissions:

Sr no	Parameter	Energy consumed, (Units)	CO <sub>2</sub> Emission (MT)
1	Maximum	1,568	1.3
2	Minimum	-	-
3	Average	590	0.5
4	Total	7,084	5.7

### 3. The various projects already implemented for Environmental Conservation:

- Usage of Energy Efficient BEE STAR Rated ACs
- Usage of Natural Day light in corridors
- Implementation of Bio Composting pit for disposal of Bio degradable waste
- Implementation of Rain Water Harvesting
- Installation of 25 kW Solar PV Power Plant.

### 4. Recommendations:

1. Installation of Bio Gas Generator Plant instead of Bio composting Plant.
2. Installation of Sewage treatment Plant to make campus a Zero Discharge campus



**5. Notes & Assumptions:**

1. **1 kWh** of Electrical Energy releases **0.8 Kg of CO<sub>2</sub>** into atmosphere
2. 1 kWp Solar PV plant generates 5 kWh/day Electrical Energy for 300 days in an year.



## Abbreviations

AC	: Air conditioner
PES	: Progressive Education Society
CFL	: Compact Fluorescent Lamp
FTL	: Fluorescent Tube Light
LED	: Light Emitting Diode
kWh	: kilo-Watt Hour
Qty	: Quantity
W	: Watt
kW	: Kilo Watt
PF	: Power Factor
MD	: Maximum Demand
PC	: Personal Computer
MSEDCL	: Maharashtra State Electricity Distribution Company Ltd



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

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

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

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

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

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

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

### 1.2 Objectives

1. To study present usage of Natural resources the College is consuming
2. To Study the present pollution sources
3. To study various measures to make the campus Self sustainable in respect of Natural resources
4. To suggest the various measures to reduce the pollution: Air, Water, Noise

### 1.3 Audit Methodology:

1. Study of College as System
2. Study of Electrical Energy Consumption
3. Study of CO2 emissions
4. Suggestions on usage of Renewable Energy

### 1.4 General Details of College

No	Head	Particulars
1	Name of Institution	Dr. Rajendra Gode College of Pharmacy, Malkapur
2	Address	Dr. Rajendra Gode College of Pharmacy, near Nimbari, Phata, Malkapur, Maharashtra 443 101.
3	Affiliation	Sant Gadge Baba Amravati University, Amravati



## 2. Study of Consumption of Various Resources

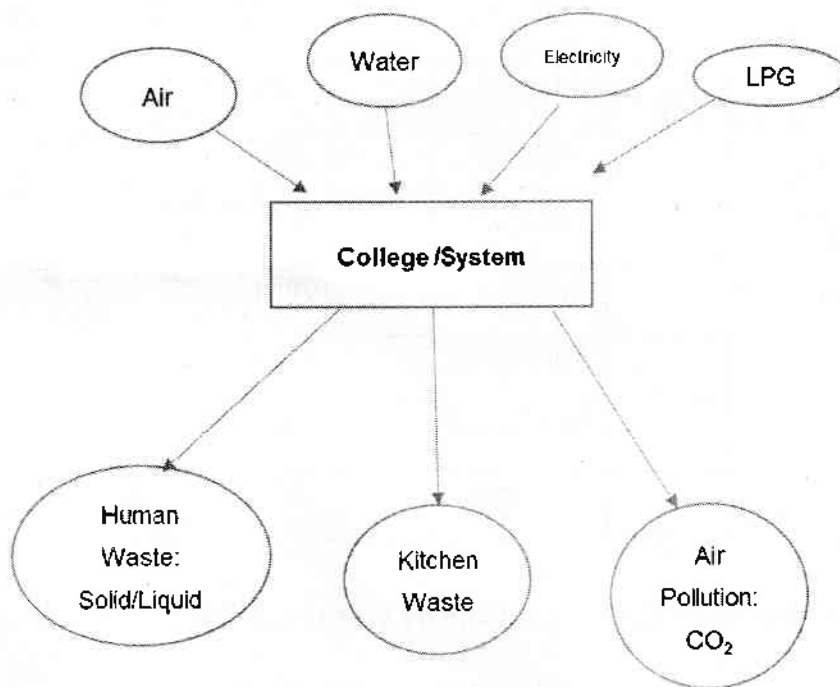
The Institute consumes following basic/derived Resources:

1. Air
2. Water
3. Electrical Energy
4. Liquefied Petroleum Gas

Also, college emits following pollutants to environment

1. Human Waste: Solid/ Liquid
2. Kitchen waste
3. Air pollution

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



Now we compute the Generation of CO<sub>2</sub> on account of consumption of Electrical Energy & LPG as under.

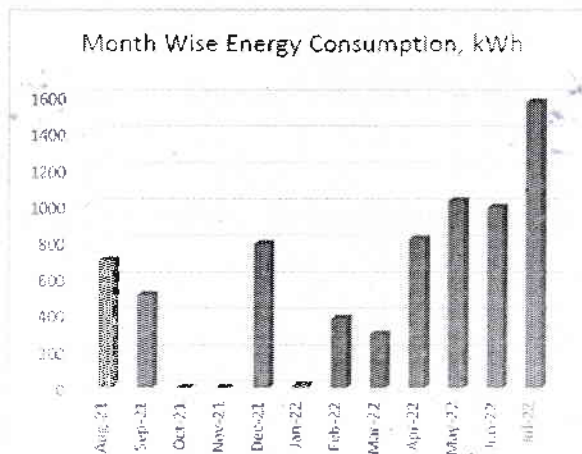
The calculation of electrical energy consumption by college can be given as,



**Table 2.1: Electrical Energy Consumption**

No	Month	Energy (kWh)
1	Jul-22	1568
2	Jun-22	988
3	May-22	1025
4	Apr-22	816
5	Mar-22	294
6	Feb-22	380
7	Jan-22	18
8	Dec-21	788
9	Nov-21	0
10	Oct-21	0
11	Sep-21	509
12	Aug-21	698
	<b>Total</b>	<b>7084</b>
	<b>Maximum</b>	<b>1568</b>
	<b>Minimum</b>	<b>0</b>
	<b>Average</b>	<b>590</b>

**2.1 Variation of Monthly Electrical Energy Consumption**



**Figure 2.1 : Monthly Electrical Energy Consumption**





## 2.2 Key Inference drawn

From the above analysis, we present following important parameters:

**Table 2.2: Variation in Important Parameters**

No	Parameter/ Value	Energy Consumed, kWh
1	Maximum	1568
2	Minimum	0
3	Average	590
4	Total	7,084



### 3. Study of Environmental Pollution

In this Chapter, we present the various types of Pollution as under:

#### 3.1 Air Pollution

The College is using two forms of Energies, namely: Thermal in the form of LPG and Electrical Energy used for day to day operations of the College. The major pollutant on account of above Energy forms is the Carbon Di Oxide.

- 1 unit (kWh) of Electrical Energy emits 0.8 Kg of CO<sub>2</sub> in the atmosphere
- 1 Kg of LPG emits 3 Kg of CO<sub>2</sub> in the atmosphere

In the following Table, we present the CO<sub>2</sub> emissions.

**Table 3.1: Month wise Consumption of Electrical Energy & CO<sub>2</sub> Emissions:**

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jul-22	1,568	1.3
2	Jun-22	988	0.8
3	May-22	1,025	0.8
4	Apr-22	816	0.7
5	Mar-22	294	0.2
6	Feb-22	380	0.3
7	Jan-22	18	0.0
8	Dec-21	788	0.6
9	Nov-21	-	0.0
10	Oct-21	-	0.0
11	Sep-21	509	0.4
12	Aug-21	698	0.6
	<b>Total</b>	<b>7,084</b>	<b>5.7</b>
	<b>Maximum</b>	1,568	1.3
	<b>Minimum</b>	-	-
	<b>Average</b>	590	0.5



In the following Chart we present the CO<sub>2</sub> emissions due to usage of Electrical Energy.

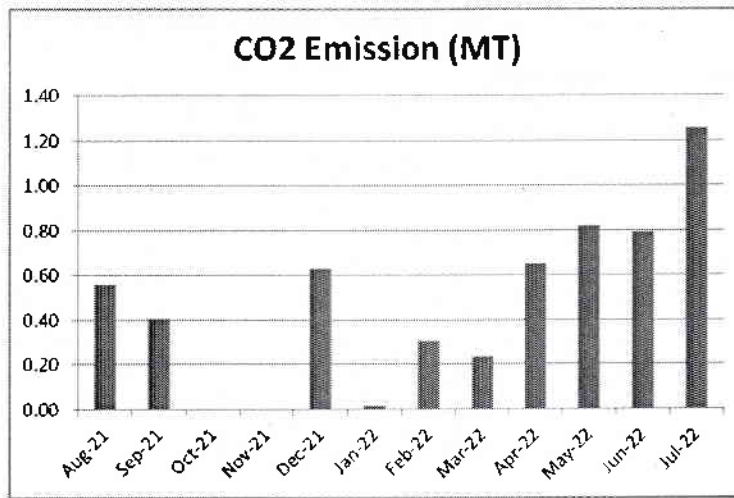


Figure 3.1: CO<sub>2</sub> emission due to usage of electrical energy.

### 3.2 Study of Solid Waste Generation

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

#### 3.2.1 Photograph of Bio Composting Processing Tanks



### 3.3 Study of Liquid Waste Generation

At present the Liquid Waste generated due to day to day operations is drained off to the municipal Corporation through a pipe.

### **3.4 Study of e-Waste Management:**

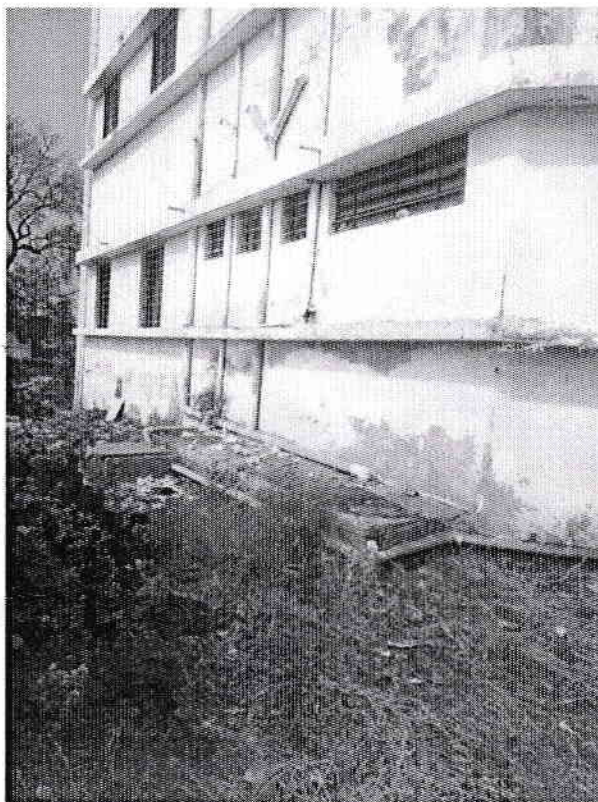
The internal communication is through emails and hence there is hardly any generation of e-Waste in the premises.



#### **4. Study of Rain Water Harvesting**

The College has already installed Rain Water Harvesting project, wherein the rain water falling on the terrace is collected and through pipes it is fed to underground Water Storage tank. This stored water is then reused for domestic purpose.

#### **Photograph of Rain Water Harvesting Pipe:**



## 5. Recommendations

In order to reduce the dependency on Natural resources and also in order to reduce the various pollutions arising due to the day to day operations of the College we herewith recommend following recommendations.

- Installation of Bio Gas Generator Plant instead of Bio composting Plant.
- Installation of Sewage treatment Plant to make campus a Zero Discharge campus





INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDANA'S

**Dr. RAJENDRA GODE COLLEGE OF PHARMACY  
MALKAPUR**

Buldana Road, MALKAPUR – 443101 Dist – Buldana (M.S)

Phone: (07267) 227337/39, Fax: (07267) 227338

E-mail : [cop\\_malkapur@rediffmail.com](mailto:cop_malkapur@rediffmail.com), Web : [www.drgcop.co.in](http://www.drgcop.co.in)

Recognized by AICTE & PCI, New Delhi Affiliated to S.G.B. Amravati University, Amravati.

---

**Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra**

---

**Shri. Yogendra R. Gode  
President**

---

**Dr. P. K. Deshmukh  
Principal**

---

## **Energy Audit Report**

# Nutan Urja Solutions

(ISO 9001:2015, ISO 50001:2018, ISO 14001:2015,  
ISO/ IEC 17020:2012)

A 703, Balaji Witefield, Near Sunni's World,  
Sus Road, Sus, Pune 411 021

Phone: 83568 18381. Email: [nutanurja.solutions@gmail.com](mailto:nutanurja.solutions@gmail.com)



Date: 14/12/2022

## CERTIFICATE

This is to certify that we have conducted Energy Audit at Dr. Rajendra Gode College of Pharmacy, Malkapur as per the guidelines of Maharashtra Energy Development Agency ([www.mahaurja.com](http://www.mahaurja.com)) in the year 2021-22.

The College has already adopted **Energy Efficient** practices like:

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEE STAR Rated equipment
- Installation of 25 kWp solar PV system

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

**Nutan Urja Solutions,**



K G Bhatwadekar,

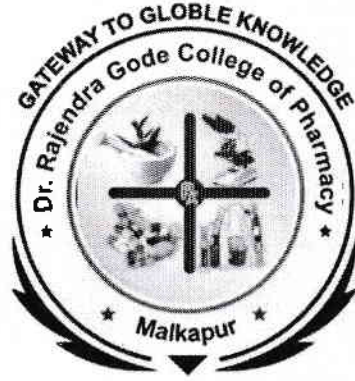
Certified Energy Auditor,

EA - 22428





**Report  
On  
Energy Audit  
At  
Dr. Rajendra Gode College of Pharmacy, Malkapur  
(Year 2021-22)**



Prepared by  
**Nutan Urja Solutions**  
A 703, Balaji Witefield, Near Sunni's World,  
Sus Road, Sus, Pune 411 021  
Phone: 83568 18381. Email: [nutanurja.solutions@gmail.com](mailto:nutanurja.solutions@gmail.com)



## Contents

Acknowledgement .....	2
Executive Summary .....	3
Abbreviations .....	5
1. Introduction .....	6
1.1 Objectives .....	6
1.2 Audit Methodology: .....	6
1.3 General Details of College .....	6
2. Study of connected load .....	7
3. Study of Electrical Energy Consumption .....	11
4. Carbon Foot printing .....	13
5. Study of utilities .....	15
5.1 Study of Lighting .....	15
5.2 Air-conditioners .....	15
5.3 Ceiling Fans .....	15
5.5 Water Pumps .....	15
6. Study of usage of alternate energy .....	16
7. Study of usage of LED lighting .....	17
8. Energy conservation proposals .....	18
8.1 Replacement of Old T-8 FTLs with 20 W LED fittings .....	18
8.2 Replacement of old fans with STAR Rated fans .....	19
8.3 Replacement of 1.5 TR Old ACs with STAR Rated ACs .....	20
8.4 Summary of Savings .....	21



## **Acknowledgement**

We at Nutan Urja Solutions, Pune, express our sincere gratitude to the management of Dr. Rajendra Gode College of Pharmacy, Malkapur for awarding us the assignment of Energy Audit of their college premises.

We are also thankful to various Head of Departments & other Staff members for helping us during the field measurements.

We hope that the recommendations stated in this report will be useful and worthy of discussions to take things forward to help implementation of energy conservation measures through energy savings. While we have made every attempt to adhere to high quality standards, in both data collection and analysis through the report, we would welcome your suggestions so as to improve upon this report further.



## Executive Summary

After the Field measurements & analysis, we present herewith important observations made and various measures to reduce the Energy Consumption & mitigate the CO<sub>2</sub> emissions. College consumes Energy in the form of Electrical Energy used for various gadgets, Office & other facilities.

### 1. Present Energy Consumption

In the following Table, we present the details of Energy Consumption.

**Table no 2.1: Details of energy consumption**

Sr no	Parameter	Energy consumed, (Units)	CO2 Emmision (MT)
1	Maximum	1,568	1.25
2	Minimum	-	-
3	Average	590	0.47
4	Total	7,084	5.67

### 2. Energy Conservation Projects already installed

1. Usage of STAR Rated ACs at new installations
2. Usage of LED lights at some indoor locations
3. Installation of Solar PV of 25kW capacity.

### 3. Key Observations

1. Usage of LED lights.
2. Usage of star rated equipment.
3. Maintained a good power factor.

### 4. Percentage of Usage of Alternate Energy

The College has installed a Roof Top Solar PV Plant. The percentage of usage of Alternate Energy to Annual Energy Requirement is 84 %.

### 5. Percentage of Usage of LED Lighting

The College has various Types of Light fittings, namely: LED, FTL & CFL. The percentage of Annual LED Lighting Usage to Annual Lighting requirement works out to be 63.4 %.

### 6. Recommendations

**Table no 1: Recommendations for energy savings**

No	Recommendation	Annual Saving potential, kWh/Annum	Annual Monetary Gain, Rs.	Investment Required, Rs.	Payback period, Months
1	Replacement of 21 Nos T-8 fittings with 20W LED fittings	420	4,620	13,461	35
2	Replacement of 214 Nos Old Ceiling Fans with STAR rating fans	2,782	30,602	465,236	182
3	Replacement of 2 Nos Old 1.5 TR Acs with STAR rating Acs	2,000	22,000	105,750	58
	<b>Total</b>	<b>5,202</b>	<b>57,222</b>	<b>584,447</b>	<b>123</b>

### 7 Notes & Assumptions

1. Daily working hours-10 Nos
2. Annual working Days-300 Nos
3. Average Rate of Electrical Energy : Rs 11/- per kWh



## Abbreviations

CFL	:	Compact Fluorescent Lamp
FTL	:	Fluorescent Tube Light
LED	:	Light Emitting Diode
V	:	Voltage
I	:	Current
kW	:	Kilo- Watt
kWh	:	kilo-Watt Hour
kVA	:	Active Power

## 1. Introduction

Dr. Rajendra Gode College of Pharmacy, Malkapur is one of the leading and topmost institutions of Maharashtra which was established in the year 2005. The grown tree what we see on today in the form of DRGCOP Malkapur is the one which once was planted by the great visionary Late Honorable Dr. Rajendraji Gode, founder president of IBSS. Our institute is well known in the region for its academic excellence and state of the art infrastructure to provide higher Education in the field of Pharmaceutical Sciences. It is located on sprawling 3 acres of campus on SH 176 Buldana to Malkapur.

### 1.1 Objectives

1. To study present level of Energy Consumption
2. To Study Electrical Consumption
3. To assess the various equipment/facilities from Energy efficiency aspect
4. To study various measures to reduce the Energy Consumption

### 1.2 Audit Methodology:

1. Study of connected load
2. Study of various Electrical parameters
3. To prepare the Report with various Encon measures with payback analysis

### 1.3 General Details of College

Table No-1.1: Details of college

No	Head	Particulars
1	Name of Institution	Dr. Rajendra Gode College of Pharmacy, Malkapur
2	Address	Dr. Rajendra Gode College of Pharmacy, near Nimbari, Phata, Malkapur, Maharashtra 443-101.
3	Affiliation	Sant Gadge Baba Amravati University, Amravati



## 2. Study of connected load

In this chapter, we present details of various connected electrical equipment and electrical load.

**Table No-2.1: Location wise study of Electrical fittings in various buildings**

No	Location	LED Tube (20W)	LED Bulb (12W)	CFL	FTL	Fan	Computers	1.5TR Star rated AC	1.5TR old Acs
	<b>Ground Floor</b>								
1	Passage			10					
2	Office		4	7		9	7	1	
3	Principal Cabin		1	7		3	1		
4	Chemistry lab 2	6				1	1		
5	Wash Room		1						
6	Chemistry I	6				1			
7	House keeping	1							
8	Class room	3				5			
9	Store rooms	20				10			
10	Library	9				14	11		
11	Class room 2	3				5			
12	Tutorial Room	1				1			
13	Wash Room			1					
14	Boys Common room	1				4			
15	Maintenance								



Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

	Room								
16	Pharmacology Lab	12				14	1		
	<b>First Floor</b>								
17	Passage			9					
18	Girls Common Room		2			4			
19	Girls wash room		1						
20	Tutorial Room		1			3			
21	Class Room 3		1			5			
22	Anatomy Lab				4	5			
23	Animal House		7			1			1
24	Pharmacology Lab				4	5			
25	Class Room 4	3				5			
26	Staff Room				2	2			
27	Exam Room				1	1			
28	NSS Room				4	4	1		
29	Biotechnology Lab				3	6		1	
30	Pharma lab I				3	7			
31	Class Room 5	4				6			
32	President Room	9				3		1	
33	Pharma Lab II	4				7	1		
34	Pharma Lab III	4				7			
	<b>Second Floor</b>								
35	Passage			4					



Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

36	Seminar Hall	24				9		7	
37	Machine Room	6				5		3	
38	Computer Lab	2				2	20		
39	Pharmy Lab	8				14			
40	Boys Common room	1				4			
41	Gents Wash Room	1							
42	Ladies Wash Room	1							
43	Girls Common Room	1				1			
44	Class Room 6	3				5			
45	Physiology Lab	4				4			
46	Class Room 7	3				5			
47	Staff Room	1				1			
48	HOD	1				1	1		
49	Tutorial Room	1				4			
50	Pharma Lab	4				7			
51	Biochemistry Lab	4				7			
52	Wash Room	1							
53	Guest Room	5				4			1
54	Canteen	3				3			
	<b>Total</b>	<b>160</b>	<b>18</b>	<b>38</b>	<b>21</b>	<b>214</b>	<b>44</b>	<b>13</b>	<b>2</b>

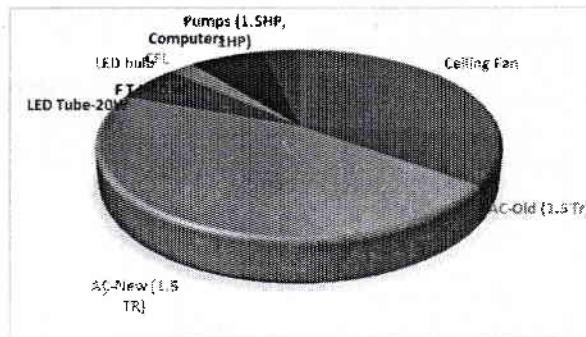
Apart from above load, the school has pumps, LED street lights, CFLs and LED focus street lights on streets and grounds. Individual fitting wise load is as under.



**Table No 2.2: Equipment wise Connected Load**

No	Equipment	Qty	Load, W/Unit	Load, kW
1	Ceiling Fan	214	65	13.9
2	AC-Old (1.5 Tr)	2	2200	4.4
3	AC-New (1.5 TR)	13	1838	23.9
4	LED Tube-20W	160	20	3.2
5	LED bulb	18	12	0.2
6	CFL	47	24	1.1
7	F T L-40 W	21	40	0.8
8	Computers	44	65	2.9
9	Pumps (1.5HP, 1HP)			1.9
	<b>Total</b>			<b>52.3</b>

Data can be represented in terms of PIE chart as under,



**Figure 2.1: Distribution of connected load.**

### 3. Study of Electrical Energy Consumption

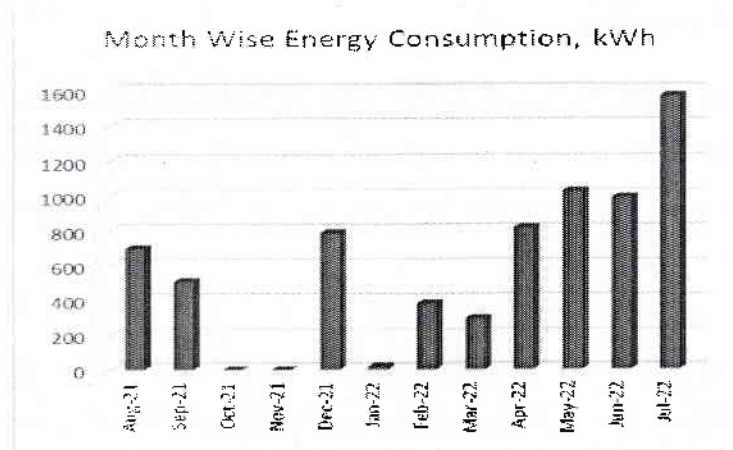
In this chapter, electricity bills are studied for the analysis of electrical energy consumption.

**Table no 3.1: Summary of electricity bills**

No	Month	Energy (kWh)	Bill Amount (Rs)
1	Jul-22	1,568	24,287
2	Jun-22	988	19,884
3	May-22	1,025	18,953
4	Apr-22	816	17,072
5	Mar-22	294	9,585
6	Feb-22	380	4,751
7	Jan-22	18	1,049
8	Dec-21	788	8,923
9	Nov-21	0	373
10	Oct-21	0	373
11	Sep-21	509	4,102
12	Aug-21	698	5,464
	<b>Total</b>	<b>7,084</b>	<b>1,14,816</b>

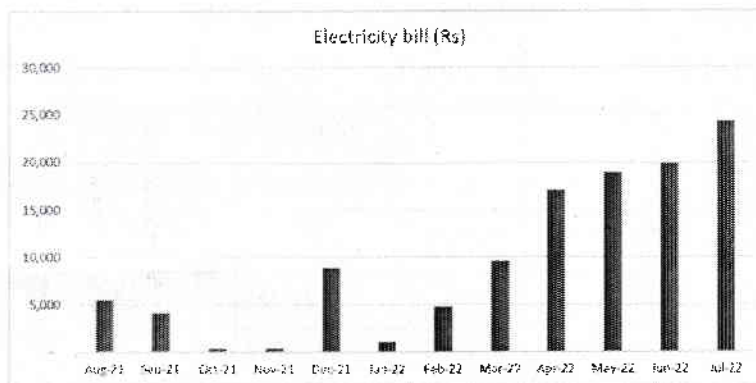
Variation in energy consumption is as follows,





**Figure 3.1: Month wise energy consumption**

Monthly variation in electricity bill is as follows,



**Figure 3.2: Month wise electricity bill**

Key observations of electricity bill are as follows,

**Table no 3.2: Key observations**

Sr no	Parameter	Energy consumed, (Units)	CO2 Emmission (MT)
1	Maximum	1,568	1.25
2	Minimum	-	-
3	Average	590	0.47
4	Total	7,084	5.67



#### 4. Carbon Foot printing

1. A **Carbon Foot print** is defined as the Total Greenhouse Gas emissions (CO<sub>2</sub> emissions), emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various form of Electrical Energy used by the College for performing its day to day activities

#### 2. Basis for computation of CO<sub>2</sub> Emissions:

The basis of Calculation for CO<sub>2</sub> emissions due to Electrical Energy is as under

- 1 Unit (kWh) of Electrical Energy releases **0.8 Kg of CO<sub>2</sub>** into atmosphere.

Based on the above Data we compute the CO<sub>2</sub> emissions which are being released in to the atmosphere by the College due to its Day to Day operations

We herewith furnish the details of various forms of Energy consumption as under

**Table 4.1: Month wise Consumption of Electrical Energy & CO<sub>2</sub> Emissions**

No	Month	Energy Consumed, kWh	CO <sub>2</sub> Emissions, MT
1	Jul-22	1,568	1.25
2	Jun-22	988	0.79
3	May-22	1,025	0.82
4	Apr-22	816	0.65
5	Mar-22	294	0.24
6	Feb-22	380	0.30
7	Jan-22	18	0.01
8	Dec-21	788	0.63
9	Nov-21	-	0.00
10	Oct-21	-	0.00
11	Sep-21	509	0.41
12	Aug-21	698	0.56
	<b>Total</b>	<b>7,084</b>	<b>5.67</b>

In the following Chart we present the CO<sub>2</sub> emissions due to usage of Electrical Energy.



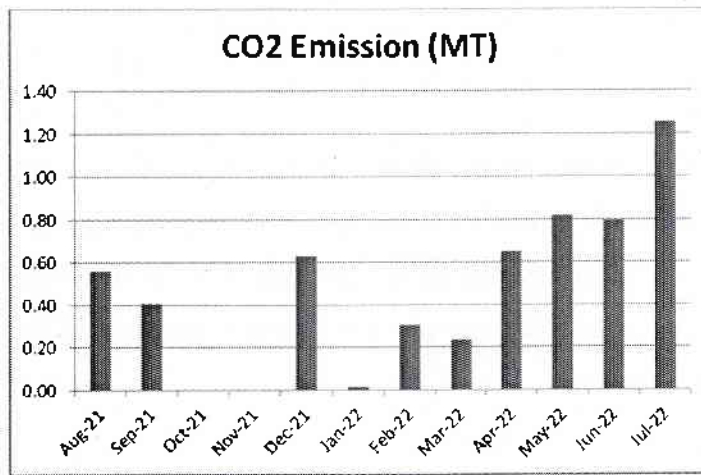


Figure 4.1: Month wise CO2 Emission



## **5. Study of utilities**

### **5.1 Study of Lighting**

In the facility, the lighting system can be divided mainly in to parts, indoor lighting and outdoor lighting. There are 21 nos of FTL fittings with Electronic/ magnetic chokes, 18 no of LED bulbs and 160 nos of LED tubes in indoor lightings. It is recommended to install the 20 W LED Tube light fittings in place of these old T-8 fittings. There are 38 number of CFL lights. There are 9 No of CFL street lights.

### **5.2 Air-conditioners**

In the facility, there are about 02 Nos. of 1.5 Tr old Air-conditioners. It is recommended to replace these Old ACs with BEE STAR Rated ACs. There is 13 nos of star rated new AC of 1.5Tr capacity.

### **5.3 Ceiling Fans**

At building facility, there are about 214 Nos Old Ceiling Fans, which consumed about 65 W of Electrical Energy. It is recommended to replace these old Fans with BEE STAR Rated Ceiling Fans.

### **5.5 Water Pumps**

There are in total 2 Water pumps with 1.5HP and 1HP capacities respectively.





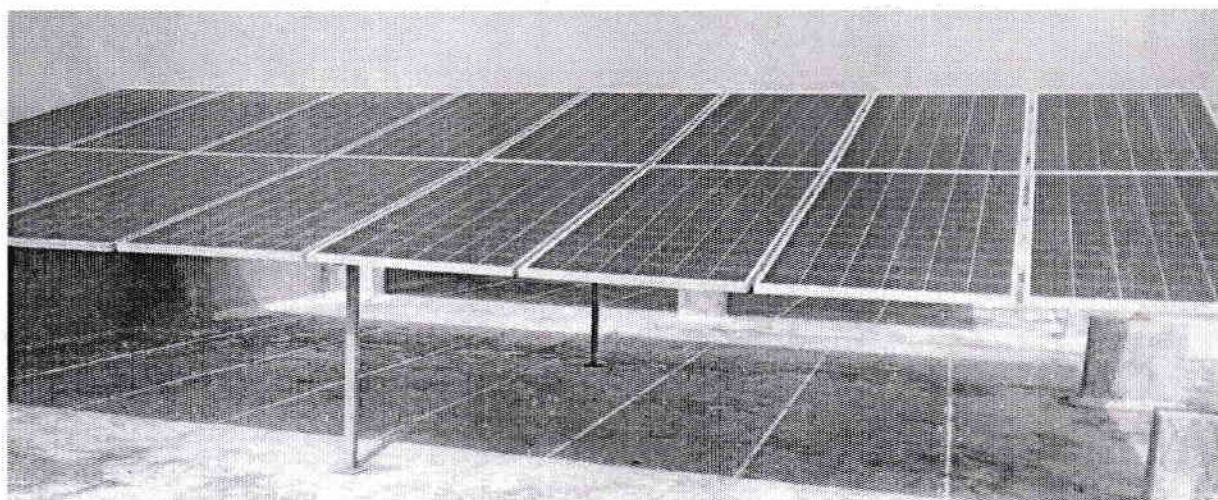
## 6. Study of usage of alternate energy

In this Chapter, we compute the percentage of Usage of Alternate/Renewable Energy to Annual Energy Requirement of the College. The College has installed Roof Top Solar PV System. The Installed Capacity of Solar PV Plant is 25 kWp.

**Table 6.1: Computation of % Usage of Alternate Energy to Annual Energy Requirement**

No	Particulars	Value	Unit
1	Annual Energy Purchased from MSEDCL	7,084	kWh/Annum
2	Energy Generated by Roof Top Solar PV System	37,500	kWh/Annum
3	Total Energy Requirement of College	44,584	kWh/Annum
4	% of Usage of Alternate Energy to Annual Energy Requirement	84	%

### Photograph of Solar PV plant



## 7. Study of usage of LED lighting

In this chapter we study the lighting system of college and compute the percentage of total load catered by LED lighting.

**Table 7.1: Total lighting load**

No	Particulars	Qty	Load, W/Unit	Load, kW
1	F T L-40 W	21	40	0.8
2	CFL	47	24	1.1
	<b>LED lighting load</b>			
1	LED tube	160	20	3.2
2	LED Bulbs	18	12	0.2
	<b>Total LED lighting load</b>			3.4
	<b>Total Lighting load</b>			5.4

It can be seen that out of total lighting load 63% load is LED lighting load.



## 8. Energy conservation proposals

### 8.1 Replacement of Old T-8 FTLs with 20 W LED fittings

In the facility, there are about 21 Nos, T-8, FTL fittings with Electronic/magnetic chokes. It is recommended to install the 20 W LED Tube light fittings in place of these old T-8 fittings. In the following Table, we present the savings, investment required & payback analysis.

No	Particulars	Value	Unit
1	Present Qty of T-8 fittings	21	Nos
2	Energy Demand of T-8 fitting	40	W/Unit
3	Energy Demand of 20 W LED fittin	20	W/Unit
4	Reduction in demad	20	W/Unit
5	Average Daily Usage period	4	Hrs/Day
6	Daily saving in Energy	1.68	kWh/Day
7	Annual Working Days	250	Nos
8	Annual Energy Saving possible	420	kWh/Annum
9	Rate of Electrical Energy	11	Rs/kWh
10	Annual Monetary saving	4620	Rs/Annum
11	Cost of 20 W LED Tube	641	Rs/Unit
12	Investment required	13461	Rs lump sum
13	Simple Payback period	35	Months

## 8.2 Replacement of old fans with STAR Rated fans

During the Audit, it was observed that there are 214 no of fans. It is recommended to replace these old fans with STAR Rated fans.

In the following Table, we present the savings, investment required & payback analysis.

No	Particulars	Value	Unit
1	Present Qty of Old Ceiling Fan fittings	214	Nos
2	Energy Demand of Old Ceiling Fan fitting	65	W/Unit
3	Energy Demand of STAR Rated Fan	52	W/Unit
4	Reduction in demad	13	W/Unit
5	Average Daily Usage period	4	Hrs/Day
6	Daily saving in Energy	11.128	kWh/Day
7	Annual Working Days	250	Nos
8	Annual Energy Saving possible	2782	kWh/Annum
9	Rate of Electrical Energy	11	Rs/kWh
10	Annual Monetary saving	30602	Rs/Annum
11	Cost of STAR Rated Ceiling Fan	2174	Rs/unit
12	Investment required	465236	Rs lump sum
13	Simple Payback period	182	Months

### 8.3 Replacement of 1.5 TR Old ACs with STAR Rated ACs

During the Audit, it was observed that there are 2 Nos, of 1.5 TR old ACs. It is recommended to replace these old ACs with STAR Rated ACs.

In the following Table, we present the savings, investment required & payback analysis.

No	Particulars	Value	Unit
1	Present Qty of 1.5 TR Old ACs	2	Nos
2	Energy Demand of Old 1.5 TR AC	2.15	kW/Unit
3	Energy Demand of New AC	1.15	kW/Unit
4	Reduction in demad	1	kW/Unit
5	Average Daily Usage period	4	Hrs/Day
6	Daily saving in Energy	8	kWh/Day
7	Annual Working Days	250	Nos
8	Annual Energy Saving possible	2000	kWh/Annum
9	Rate of Electrical Energy	11	Rs/kWh
10	Annual Monetary saving	22000	Rs/Annum
11	Cost of STAR Rated 1.5 TR AC	52875	Rs/unit
12	Investment required	105750	Rs lump sum
13	Simple Payback period	58	Months



### 8.4 Summary of Savings

No	Recommendation	Annual Saving potential, kWh/Annum	Annual Monetary Gain, Rs.	Investment Required, Rs.	Payback period, Months
1	Replacement of 21 Nos T-8 fittings with 20W LED fittings	420	4,620	13,461	35
2	Replacement of 214 Nos Old Ceiling Fans with STAR rating fans	2,782	30,602	465,236	182
3	Replacement of 2 Nos Old 1.5 TR Acs with STAR rating Acs	2,000	22,000	105,750	58
	<b>Total</b>	<b>5,202</b>	<b>57,222</b>	<b>584,447</b>	<b>123</b>



### 3. Clean and Green Campus Initiative

#### 3.1 Clean Campus Initiative

#स्वच्छ भारत 2.0# प्लास्टिक निर्मूलन अभियान



*Prasad*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



GPS Map Camera  
Wakodi, Maharashtra, India  
R6X2+VVQ, Wakodi, Maharashtra 443101, India  
Lat 20.849896°  
Long 76.201548°  
12/10/22 05:25 PM GMT +05:30



GPS Map Camera  
Wakodi, Maharashtra, India  
R6X2+VVQ, Wakodi, Maharashtra 443101, India  
Lat 20.850188°  
Long 76.201425°  
12/10/22 05:22 PM GMT +05:30



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.





*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.

### 3.2 Cleanliness Drive Beyond the Campus

#### 1. Cleanliness Drive At Bus Stand 2018

**मलकापूर येथे डॉ.राजेंद्र गोडे कॉलेज ऑफ फार्मसी तर्फे स्वच्छता अभियान पंधरवडा**



मलकापूर(प्रतिनिधी):-  
डॉ.राजेंद्र गोडे कॉलेज ऑफ फार्मसी मलकापूर येथे राष्ट्रीय सेवा योजना पथकाद्वारा 13ऑगस्ट ते 15 ऑगस्ट दरम्यान स्वच्छ भारत अभियान पंधरवडा राबविण्यात आला.सबूर चौहिनैतगत रासेयो विद्याव्यद्वारा महाविद्यालय परिसर स्वच्छता स्थानिक वसस्थानका ,उपजिल्हा रुग्णालय यांची स्वच्छता करण्यात आली दि.13ऑगस्ट रोजी हेमू जनजागृती कार्यशाळा घेण्यात आली.तसेच दि.14ऑगस्ट रोजी स्थानिक गाडगे महाराजांच्या पुतळ्याचे पुजा करून परिसर स्वच्छता करण्यात आला स्वच्छतेच्या जनजागृती संदर्भित भाव्य वेलीचे आयोजन करण्यात आले.वरील विशेष मोहिम राबविण्यासाठी महाविद्यालयाचे प्राचार्य डॉ.वि.एन.अरीख हे कार्यक्रम अधिकारी प्रा.एस.ए.शिंदे,प्रा.एम.आर.भिरें,तसेच महिला कार्यक्रम अधिकारी प्रा. एस.ए.चव्हाण यांनी परिश्रम घेतले.

#### 2. Cleanliness Drive At Specially Abled Children’s Hostel 2022



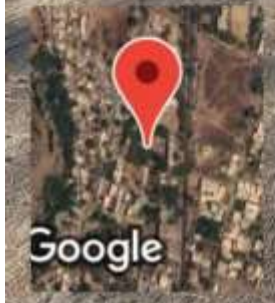
*Prasanna*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



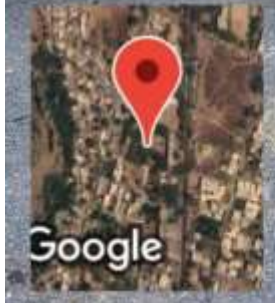
GPS Map Camera



**Malkapur, Maharashtra, India**  
V6G2+JQP, Buldana Rd, Malkapur, Maharashtra  
443101, India  
Lat 20.876481°  
Long 76.201825°  
20/12/22 09:29 AM GMT +05:30



GPS Map Camera



**Malkapur, Maharashtra, India**  
V6G2+JQP, Buldana Rd, Malkapur, Maharashtra  
443101, India  
Lat 20.876481°  
Long 76.201825°  
20/12/22 09:33 AM GMT +05:30

# दिव्य मराठी

आमच्या देशात शांततेचा वसाहतीचा विकास होऊन जनतेला सुखी जीवन मिळावे

आजची मराठी - 23 डिसेंबर 2022



GPS Map Camera

**Malkapur, Maharashtra, India**  
 V6G2+JQP, Buldana Rd, Malkapur,  
 Maharashtra 443101, India  
 Lat 20.876481°  
 Long 76.201825°  
 20/12/22 09:57 AM GMT +05:30

Google

## गाडगे महाराज पुण्यतिथी निमित्त वसतीगृह परिसराची स्वच्छता



स्वच्छता अधिकाऱ्यात सहभागी विद्यार्थी.

### प्रतिनिधी | मलकापूर

केव्हील डॉ. राजेंद्र गोडे फार्मसी महाविद्यालयात राष्ट्रीय सेवा योजना कार्यक्रमार्थीत २० डिसेंबर रोजी संत गाडगेबाबा यांच्या पुण्यतिथी निमित्त व दत्तमूर्ती वर आयोजित कार्यक्रमाचे आयोजन भगवान महावीर निवासी मूकवीर विद्यालयाच्या वसतीगृहामध्ये करण्यात आले होते.

कार्यक्रमाची सुरुवात संत गाडगे महाराज यांच्या प्रतिमा पुजन भगवान महावीर निवासी मूकवीर विद्यालयाचे मुख्याध्यापक संजय पाटील व फार्मसी महाविद्यालयाचे प्राचार्य डॉ. जयराज देशमुख यांच्या हस्ते करण्यात आले. त्यानंतर राष्ट्रीय सेवा योजनेच्या स्वयंसेवकांनी वसतीगृह परिसराची स्वच्छता करून वसतीगृहातील विद्यार्थ्यांसोबत सहभाजन केले. तसेच यावेळी त्यांनी विद्यार्थ्यांसोबत संवाद साधला. कार्यक्रमाचे प्रास्ताविक व

सुसंभालून राष्ट्रीय सेवा योजने स्वयंसेवक अन्तर्गत भुमकट घानी केले. यावेळी त्यांनी आपल्या प्रास्ताविकाने संत गाडगेबाबा यांच्या दत्तमूर्तीची माहिती दिली. तर आभार प्रदर्शन राष्ट्रीय सेवा योजनेचे कार्यकारी अधिकारी प्रा. मुक्ता वापुळकर घानी केले. कार्यक्रमाच्या यत्तिकेसाठी महिले कार्यक्रमाधिकारी प्रा. पुनम पटोळे व प्रा. पूजा शिंदे, प्रा. वैश्व देवामुख, राष्ट्रीय सेवा योजनेचे विभागाचे सहाय्यक सतीश धनेकर, धीरज इंगळे, कुमाल देवामुख यांच्यासह इतर स्वयंसेवकांनी प्रा. तिलक पोटे यांच्या मार्गदर्शनाखाली प्रयत्न केले. कार्यक्रमात भगवान महावीर निवासी मूकवीर वसती गृहाचे अधीक्षक डॉ. जयराज, डॉ. राजेंद्र गोडे फार्मसी महाविद्यालयाच्या सेवा योजनेचे इयत्तम अधिकाऱी व राष्ट्रीय सेवा योजनेचे स्वयंसेवक पोटाळ संश्रुतीने उपस्थित होते. कार्यक्रमाची सांगत राष्ट्रीयतेने करण्यात आली.



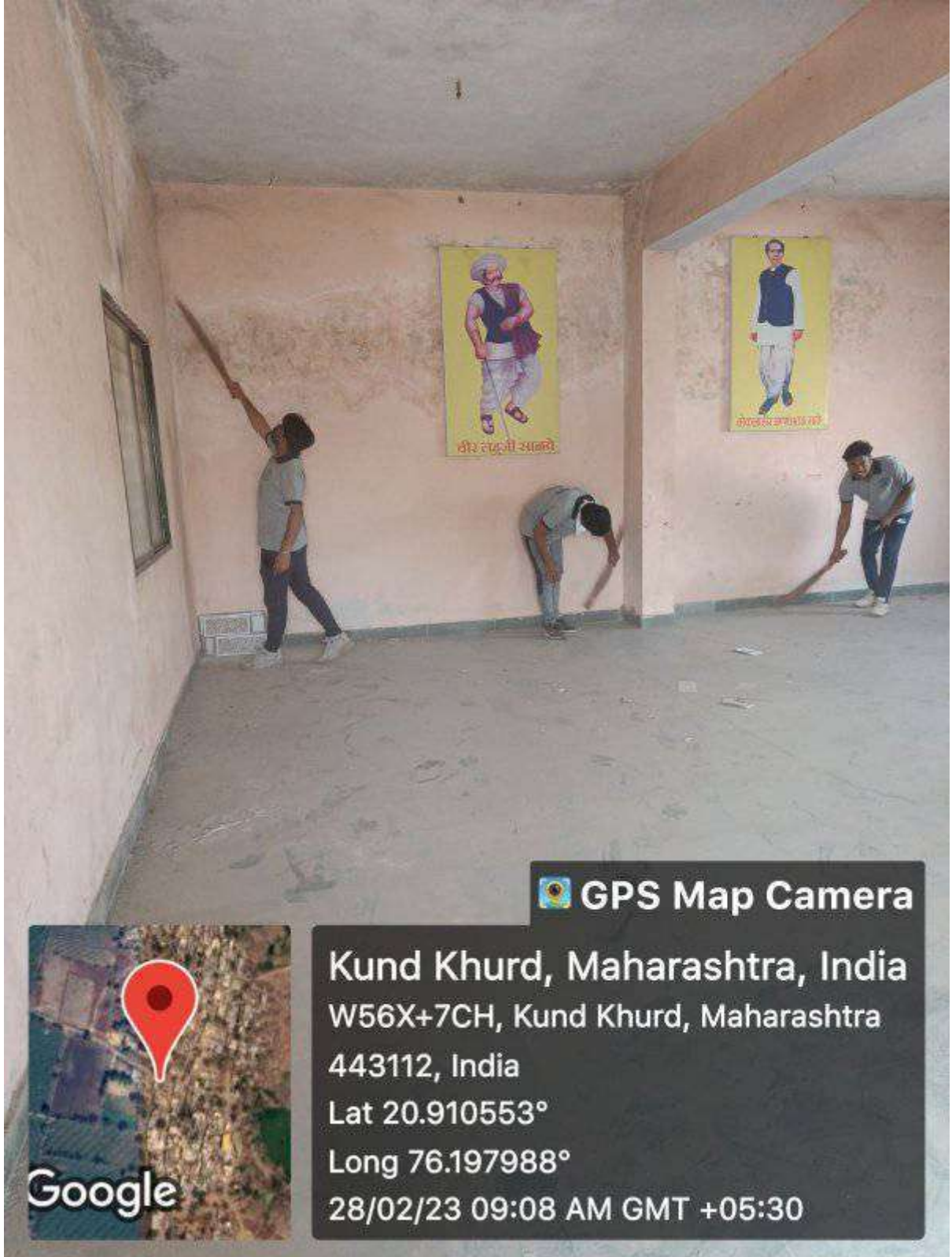
*Rajendra Gode*  
 Principal,  
 Dr. Rajendra Gode College  
 of Pharmacy, Malkapur  
 Dist. Buldana.

### 3 Cleanliness Drive by NSS Unit at NSS Adopted Village Kund Kh.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.





*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.

## Before



## After



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.

### 3.2 Green Campus Initiative

#### 3.2.1 Medicinal Garden and Tree Plantation inside the Campus

2017



2018



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.

2019



2020




*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.

2021



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



  
 Principal,  
 Dr. Rajendra Gode College  
 of Pharmacy, Malkapur  
 Dist. Buldana.





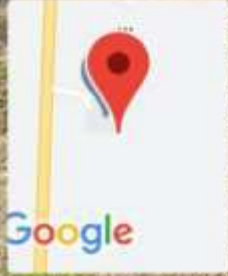
2022



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



GPS Map Camera



Wakodi, Maharashtra, India  
 R6X2+VVQ, Wakodi, Maharashtra 443101, India  
 Lat 20.849493°  
 Long 76.202602°  
 26/09/22 12:14 PM GMT +05:30



GPS Map Camera



Wakodi, Maharashtra, India  
 R6X2+VVQ, Wakodi, Maharashtra  
 443101, India  
 Lat 20.850045°  
 Long 76.202354°  
 22/11/22 10:54 AM GMT +05:30



GPS Map Camera



Wakodi, Maharashtra, India  
 R6X2+VVQ, Wakodi, Maharashtra  
 443101, India  
 Lat 20.849973°  
 Long 76.202571°  
 22/11/22 10:52 AM GMT +05:30



*Rajendra Gode*  
 Principal,  
 Dr. Rajendra Gode College  
 of Pharmacy, Malkapur  
 Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.

### 3.2.2 Tulsi Tree Plantation on the Occasion of Birthdays of Staff Oxygen Concentrator



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.

#### 4. Beyond the campus environment promotion and sustainability activities

##### 4.1 Students Tree Plantation at their Home and Taking Care of Their Growth



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



## Guava Tree



**Before**



**Now**



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



## 4.2 Tree Plantation Drive by NSS Unit along with Villagers at NSS Adopted Village Kund Kh.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.



*Rajendra Gode*  
Principal,  
Dr. Rajendra Gode College  
of Pharmacy, Malkapur  
Dist. Buldana.