

Nutan Urja Solutions

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Date: 07/08/2023

CERTIFICATE

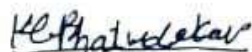
This is to certify that we have conducted Green Audit at Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon for the year 2022-23.

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

- Installation of Rain Water Harvesting system
- Installation of Bio composting pit
- Installation of 5 kW Roof Top Solar PV Power Plant.
- Usage of Energy Efficient LED
- 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,

Certified Energy Auditor,

EA - 22428



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This is to certify that we have conducted Environmental Audit at Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon in the year 2022-23.

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

- Installation of Bio Composting Pit
- Installation of Rain Water Harvesting System
- Installation of 5 kW Solar PV Power Plant.

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

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This is to certify that we have conducted Energy Audit at Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon as per the guidelines of Maharashtra Energy Development Agency (www.mahaurja.com) in the year 2022-23.

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 5 kW Roof Top Solar PV Power Plant

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

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**Report
On
Energy Audit
At
Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit
Shirish Madhukarrao Chaudhari College,
Jalgaon
(Year 2022-23)**

Prepared by
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Acknowledgement

We at Nutan Urja Solutions, Pune, express our sincere gratitude to the management of Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon 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 CO₂ 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, (kWh)	CO2 Emission (MT)
1	Total	6559	5.25
2	Maximum	990	0.79
3	Minimum	73	0.06
4	Average	547	0.44

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. Usage of LED Lights for outdoor lighting.

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 53 %.

5. Percentage of Usage of LED Lighting

The College has various Types of Light fittings. The percentage of Annual LED Lighting Usage to Annual Lighting requirement works out to be 17 %.

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 96 Nos T-8 fittings with 20W LED fittings	1,920	21,120	61,536	35
2	Replacement of 107 Nos Old Ceiling Fans with STAR rating fans	5,350	58,850	2,32,618	47
	Total	7,270	79,970	2,94,154	44

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

Shirish Madhukarrao Chaudhari College is located in Jalgaon. The college is established by Dhanaji Nana Chaudhari Vidya Prabodhini in 2000. The college is well equipped with modern research laboratories which are recognized by the university. Wide range of co-curricular, extra-curricular and extension activities are implemented for the personality development of the students.. The college is affiliated to Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

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	Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon
2	Address	DNCVP Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon Old Khedi Rd, near Talele Colony, Sagar Nagar, Jalgaon,
3	Affiliation	Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

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	FT L (40 W)	CF L	LED tube (20 W)	L E D bu lb (1 2 W)	Comput ers (65W)	Fans	1.5 Tr rated AC
1	Office	6				6	7	
2	Record room	3		1			3	
3	Staff room	2					3	
4	Staff room washroom		2					
5	IQAC	5					2	1
6	Principal room				11		4	
7	Management room			2	14		4	2
8	Gents toilet				1			
9	Physics lab	3		1			4	
10	Electronics lab	1		1		3	3	
11	Computer lab 1	4		1		15	2	2
12	Computer lab	4		1		10	2	2
13	Classroom-1	1					2	
14	Classroom-2	2		1			2	
15	Classroom-3	1		1			2	
16	Classroom-5			3			4	
17	Classroom-6	2					2	
18	Classroom-7	4					6	
19	Classroom-8	1		1			2	
20	Classroom-9	1		1			2	
21	Classroom-10	2					2	
22	Gents toilet 1ST FLOOR	1						
23	Microbiology Lab	4				1	4	

24	Ladies toilet 1ST FLOOR	1						
25	Research lab	2					2	
26	Ladies room ground floor							
27	ICT lab	1		1		11	5	
28	Botany lab zoology Lab	3		1			4	
29	Conference Hall			4			6	
30	Passage second floor		6					
31	Passage first floor		8					
32	Passage ground floor	5	3	3			8	
33	YCMOU	3					2	
34	NSS	3					2	
35	Chemistry lab	12					9	
36	Library	19				6	7	
	Total	96	19	23	26	52	107	7

Apart from above load, the college has pumps, street lights. Individual fitting wise load is as under.

Table No 2.2: Equipment wise Connected Load

No	Equipment	Qty	Load, W/Unit	Load, kW
1	F T L-40 W	96	40	3.8
2	CFL	19	24	0.5
3	LED Tube-20W	23	20	0.5
4	LED bulb	26	12	0.3
5	Computers	52	65	3.4
6	Ceiling Fan	107	65	7.0
7	AC (1.5Tr)	7	1838	12.9
8	LED focus Street light	3	35	0.1
9	Pumps (2HP)	1		1.5
	Total			21.4

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

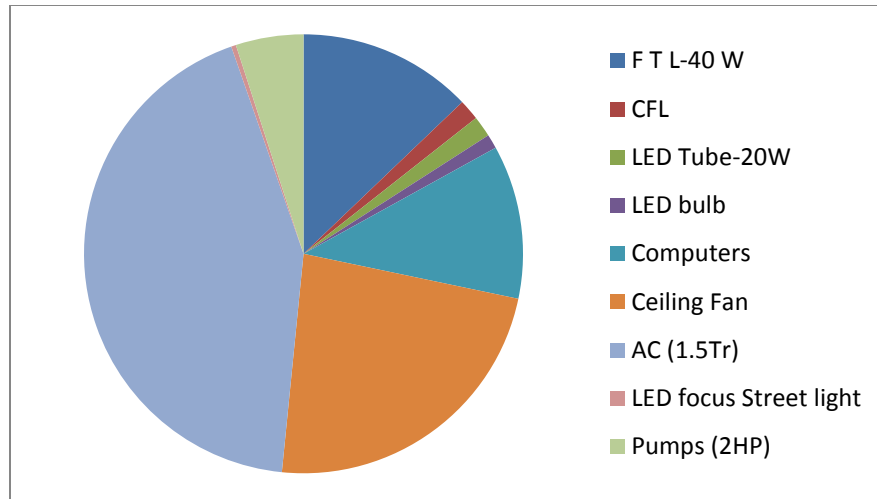


Figure 2.1: Distribution of connected load.

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	Jun-23	825	7,460
2	May-23	619	5,712
3	Apr-23	692	6,328
4	Mar-23	316	3,005
5	Feb-23	351	3,289
6	Jan-23	461	4,180
7	Dec-22	73	6,707
8	Nov-22	356	3,329
9	Oct-22	449	403
10	Sep-22	760	6,602
11	Aug-22	667	5,849
12	Jul-22	990	8,466
	Total	6,559	61,330

Variation in energy consumption is as follows,

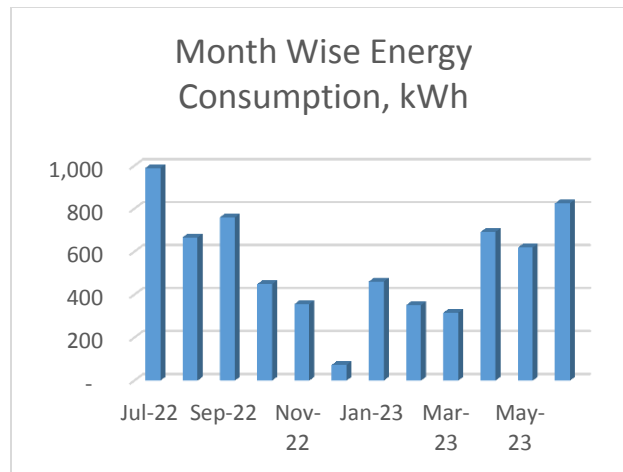


Figure 3.1: Month wise energy consumption

Monthly variation in electricity bill is as follows,

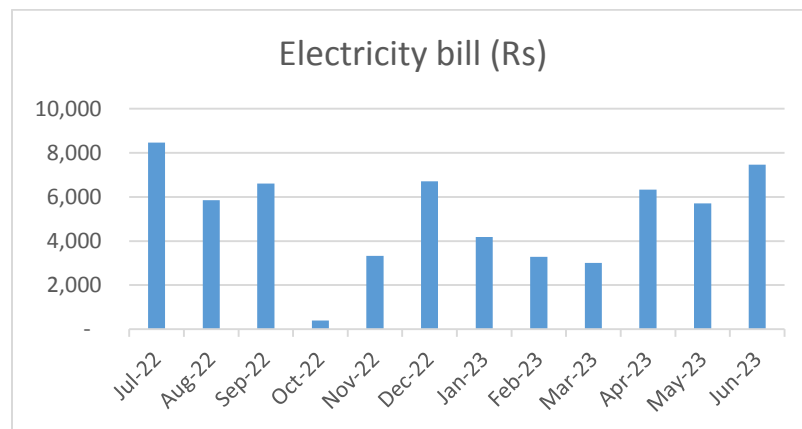


Figure 3.2: Month wise electricity bill

Key observations of electricity bill are as follows,

Table no 3.2: Key observations

Sr no	Parameter	Energy consumed, (kWh)	CO2 Emission (MT)
1	Total	6559	6.25
2	Maximum	990	0.79
3	Minimum	73	0.06
4	Average	547	0.44

4. Carbon Foot printing

1. A Carbon Foot print is defined as the Total Greenhouse Gas emissions (CO₂ 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 CO₂ Emissions:

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

- 1 Unit (kWh) of Electrical Energy releases **0.8 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

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

Table 4.1: Month wise Consumption of Electrical Energy & CO₂ Emissions

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jun-23	825	0.66
2	May-23	619	0.50
3	Apr-23	692	0.55
4	Mar-23	316	0.25
5	Feb-23	351	0.28
6	Jan-23	461	0.37
7	Dec-22	73	0.06
8	Nov-22	356	0.28
9	Oct-22	449	0.36
10	Sep-22	760	0.61
11	Aug-22	667	0.53
12	Jul-22	990	0.79
	Total	6,559	5.25

In the following Chart we present the CO₂ emissions due to usage of Electrical Energy.

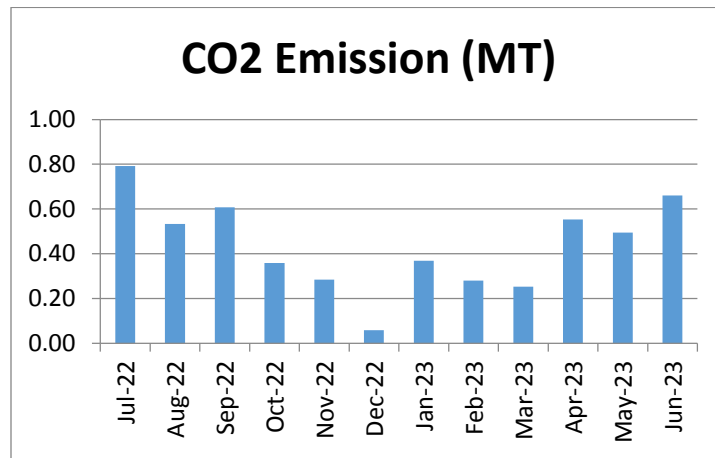


Figure 4.1: Month wise CO2 Emission

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 96 FTL fittings with Electronic/ magnetic chokes , 19 nos of CFLs, 23 nos of LED tubes, 26 nos of LED bulbs. It is recommended to install the 20 W LED Tube light fittings in place of these old T-8 fittings. There are 3 No of LED street lights.

5.3 Air-conditioners

In the facility, there are about 07 Nos. of 1.5 Tr Air-conditioners.

5.4 Ceiling Fans

At building facility, there are about 107 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 1 Water pumps with 2HP capacity.

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 **05 kWp**.

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

No	Particulars	Value	Unit
1	Annual Energy Purchased from MSEDCL	6,559	kWh/Annum
2	Energy Generated by Roof Top Solar PV System	7500	kWh/Annum
3	Total Energy Requirement of College	14,059	kWh/Annum
4	% of Usage of Alternate Energy to Annual Energy Requirement	53	%

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	96	40	3.8
2	CFL	19	24	0.5
	LED lighting load			
1	LED tube	23	20	0.5
2	LED bulbs	26	12	0.3
3	LED street lights	3	35	0.1
	Total LED lighting load			0.9
	Total Lighting load			5.2

It can be seen that out of total lighting load 17% 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 96 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	96	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	7.68	kWh/Day
7	Annual Working Days	250	Nos
8	Annual Energy Saving possible	1920	kWh/Annum
9	Rate of Electrical Energy	11	Rs/kWh
10	Annual Monetary saving	21120	Rs/Annum
11	Cost of 20 W LED Tube	641	Rs/Unit
12	Investment required	61536	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 107 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	107	Nos
2	Energy Demand of Old Ceiling Fan fitting	65	W/Unit
3	Energy Demand of STAR Rated Fan	40	W/Unit
4	Reduction in demad	25	W/Unit
5	Average Daily Usage period	8	Hrs/Day
6	Daily saving in Energy	21.4	kWh/Day
7	Annual Working Days	250	Nos
8	Annual Energy Saving possible	5350	kWh/Annum
9	Rate of Electrical Energy	11	Rs/kWh
10	Annual Monetary saving	58850	Rs/Annum
11	Cost of STAR Rated Ceiling Fan	2174	Rs/unit
12	Investment required	232618	Rs lump sum
13	Simple Payback period	47	Months

8.3 Summary of Savings

No	Recommendation	Annual Saving potential, kWh/Annum	Annual Monetary Gain, Rs.	Investment Required, Rs.	Payback period, Months
1	Replacement of 96 Nos T-8 fittings with 20W LED fittings	1,920	21,120	61,536	35
2	Replacement of 107 Nos Old Ceiling Fans with STAR rating fans	5,350	58,850	2,32,618	47
	Total	7,270	79,970	2,94,154	44

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Acknowledgement

We at Nutan Urja Solutions, Pune wish to express our sincere gratitude to the management of Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon 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.

Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon consumes various resources for day to day operations, namely: Air, Water, Electrical Energy & LPG.

1. Various Pollution due to College Activities:

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

2. Present Level of CO₂ Emissions:

No	Parameter /Value	Energy, kWh	CO ₂ Emissions, MT
1	Maximum	990	0.79
2	Minimum	73	0.06
3	Average	547	0.44
4	Total	6,559	5.25

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 5 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 CO₂ 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
M D	: 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	Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon
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3	Affiliation	Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

2. Study of Consumption of Various Resources

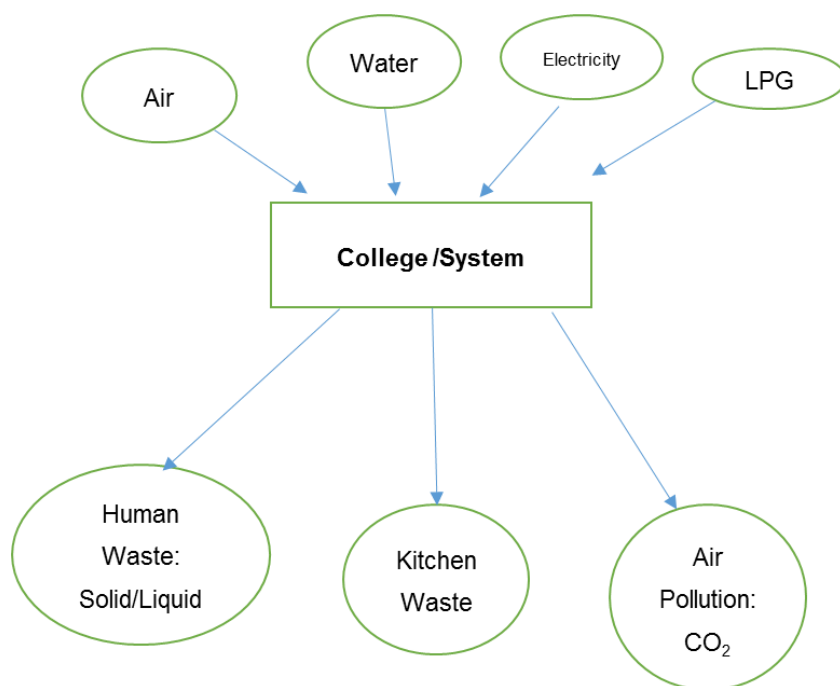
The Institute consumes following basic/derived Resources:

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.



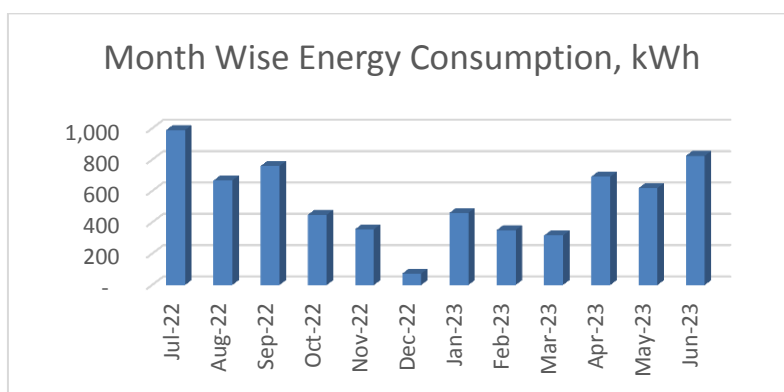
Now we compute the Generation of CO₂ on account of consumption of Electrical Energy & LPG as under.

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

Table 2.1: Electrical Energy Consumption

No	Month	Energy Consumed, kWh
1	Jun-23	825
2	May-23	619
3	Apr-23	692
4	Mar-23	316
5	Feb-23	351
6	Jan-23	461
7	Dec-22	73
8	Nov-22	356
9	Oct-22	449
10	Sep-22	760
11	Aug-22	667
12	Jul-22	990
	Total	6,559
	Maximum	990
	Minimum	73
	Average	547

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	990
2	Minimum	73
3	Average	547
4	Total	6,559

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 CO₂ in the atmosphere
- 1 Kg of LPG emits 3 Kg of CO₂ in the atmosphere

In the following Table, we present the CO₂ emissions.

Table 3.1: Month wise Consumption of Electrical Energy & CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jun-23	825	0.66
2	May-23	619	0.50
3	Apr-23	692	0.55
4	Mar-23	316	0.25
5	Feb-23	351	0.28
6	Jan-23	461	0.37
7	Dec-22	73	0.06
8	Nov-22	356	0.28
9	Oct-22	449	0.36
10	Sep-22	760	0.61
11	Aug-22	667	0.53
12	Jul-22	990	0.79
	Total	6,559	5.25
	Maximum	990	0.79
	Minimum	73	0.06
	Average	547	0.44

In the following Chart we present the CO₂ emissions due to usage of Electrical Energy.

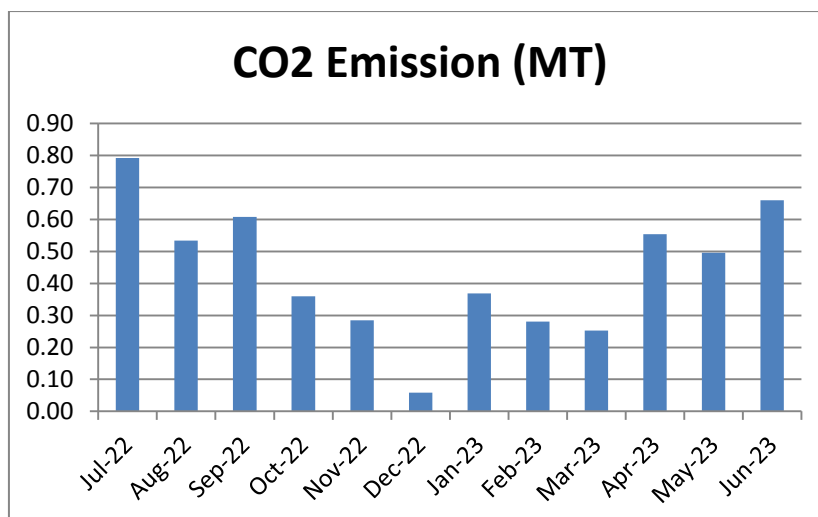


Figure 2.1: CO2 emission due to usage of electrical energy.

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.

3.3 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 Soak Pit

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

Report
On
Green Audit
At
Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit
Shirish Madhukarrao Chaudhari College
Jalgaon
(Year 2022-23)



Prepared by
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Acknowledgement

We at Nutan Urja Solutions, Pune, express our sincere gratitude to the management of Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College Jalgaon 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 Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit Shirish Madhukarrao Chaudhari College, Jalgaon is conducted by Nutan Urja Solutions, Pune. Based On the audit field study, following important points can be presented.

1. Present Energy Consumption

Shirish Madhukarrao Chaudhari College, Jalgaon 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	990	0.79
2	Minimum	73	0.06
3	Average	547	0.44
4	Total	6,559	5.25

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 5 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

Shirish Madhukarrao Chaudhari College is located in Jalgaon. The college is established by Dhanaji Nana Chaudhari Vidya Prabodhini in 2000. The college is well equipped with modern research laboratories which are recognized by the university. Wide range of co-curricular, extra-curricular and extension activities are implemented for the personality development of the students.. The college is affiliated to Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

1.1 Objectives

1. To study present level of Energy Consumption
2. To Study the present CO₂ 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	Jun-23	825	7,460
2	May-23	619	5,712
3	Apr-23	692	6,328
4	Mar-23	316	3,005
5	Feb-23	351	3,289
6	Jan-23	461	4,180
7	Dec-22	73	6,707
8	Nov-22	356	3,329
9	Oct-22	449	403
10	Sep-22	760	6,602
11	Aug-22	667	5,849
12	Jul-22	990	8,466
	Total	6,559	61,330

Variation in energy consumption is as follows,

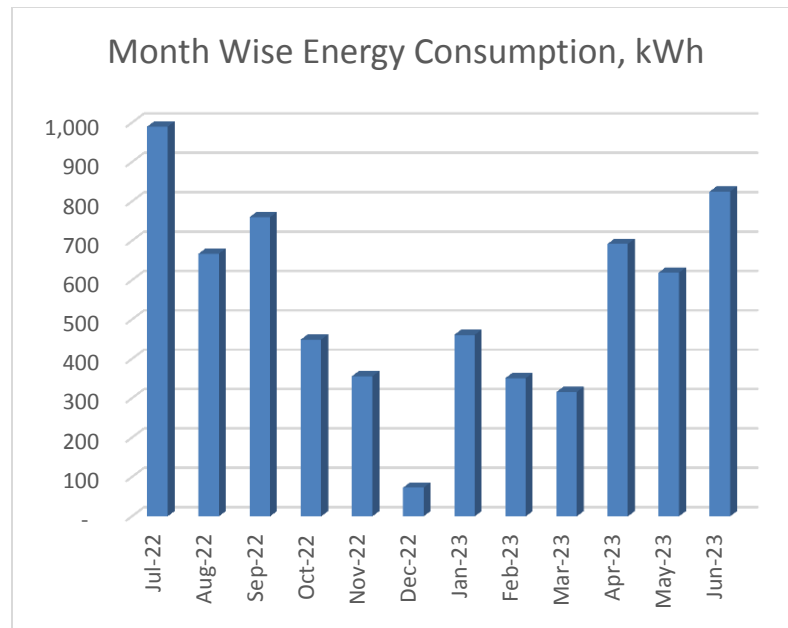


Figure 2.1: Month wise energy consumption

Monthly variation in electricity bill is as follows,

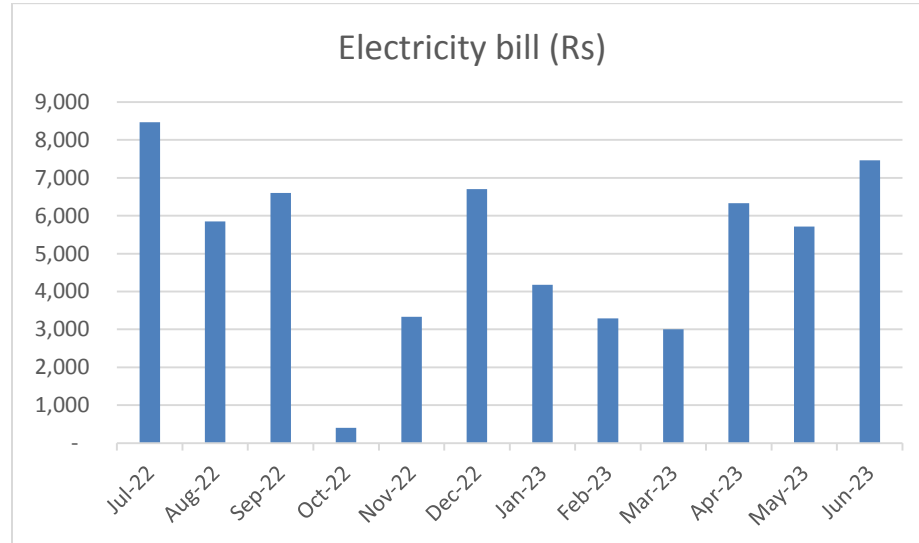


Figure 2.2: Month wise electricity bill

Key observations of electricity bill are as follows,

Table no 2.2: Key observations

Sr no	Parameter	Energy consumed, (Units)	CO2 Emmision (MT)
1	Maximum	990	0.79
2	Minimum	73	0.06
3	Average	547	0.44
4	Total	6,559	5.25

3. Carbon Foot printing

1. A Carbon Foot print is defined as the Total Greenhouse Gas emissions (CO₂ 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 CO₂ Emissions:

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

- 1 Unit (kWh) of Electrical Energy releases **0.8 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

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

Table 3.1: Month wise Consumption of Electrical Energy & CO₂ Emissions

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jun-23	825	0.66
2	May-23	619	0.50
3	Apr-23	692	0.55
4	Mar-23	316	0.25
5	Feb-23	351	0.28
6	Jan-23	461	0.37
7	Dec-22	73	0.06
8	Nov-22	356	0.28
9	Oct-22	449	0.36
10	Sep-22	760	0.61
11	Aug-22	667	0.53
12	Jul-22	990	0.79
	Total	6,559	5.25

In the following Chart we present the CO₂ emissions due to usage of Electrical Energy.

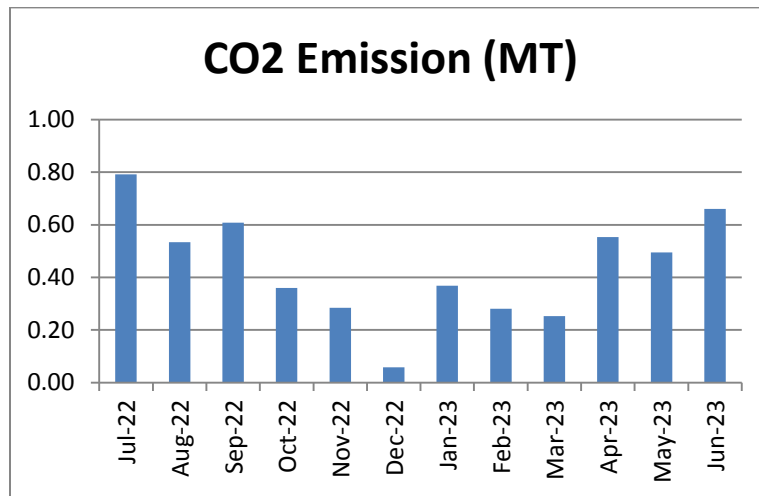


Figure 3.1: Month wise CO2 Emission

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 Solar PV System of 5kW capacity.

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

No	Particulars	Value	Unit
1	Annual Energy Purchased from MSEDCL	6,559	kWh/Annum
2	Energy Generated by Roof Top Solar PV System	7500	kWh/Annum
3	Total Energy Requirement of College	14,059	kWh/Annum
4	% of Usage of Alternate Energy to Annual Energy Requirement $= 2 \times 100 / 3$	53	%

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 Soak Pit.

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.

6.2 e-Waste Management

The internal communication is through emails and hence 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. 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.

7.6 Green Landscaping with Trees and Plants

The Institute has beautiful maintained Garden.



Figure 7.1: Beautiful maintained Garden of college

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महाविद्यालय, जळगाव

नेक मानांकन श्रेणी 'ब'

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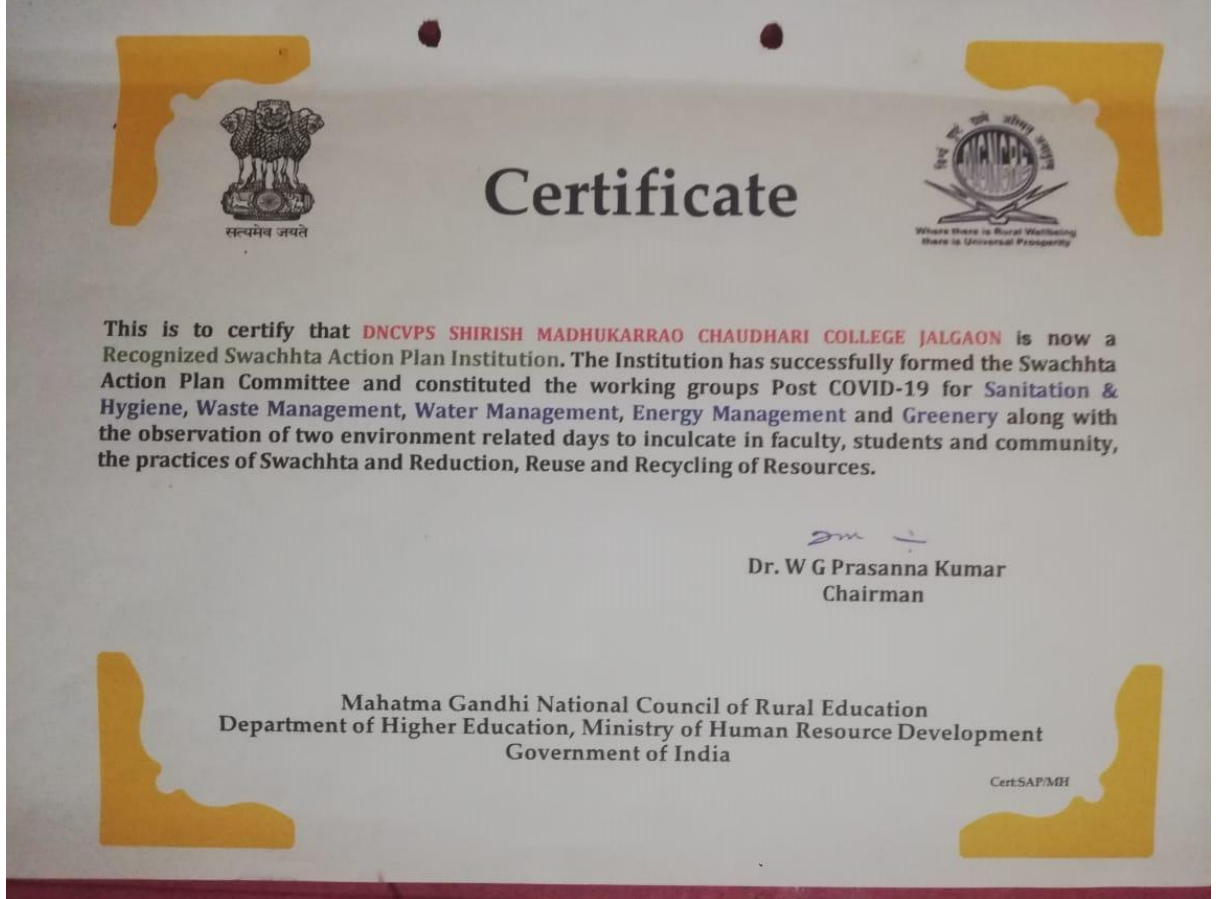
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Dr. Rajendra B. Waghulade, Principal

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GPS Map Camera



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2H7M+FJR, Sagar Nagar, Jalgaon,
Maharashtra 425001, India
Lat 21.014679°
Long 75.584027°
04/01/22 12:39 PM

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Pedestrian Friendly Pathways



Jalgaon, Maharashtra, India

Unnamed Road, Sagar Nagar, Jalgaon,
Maharashtra 425001, India

Lat 21.014603°

Long 75.583794°

13/09/21 01:15 PM



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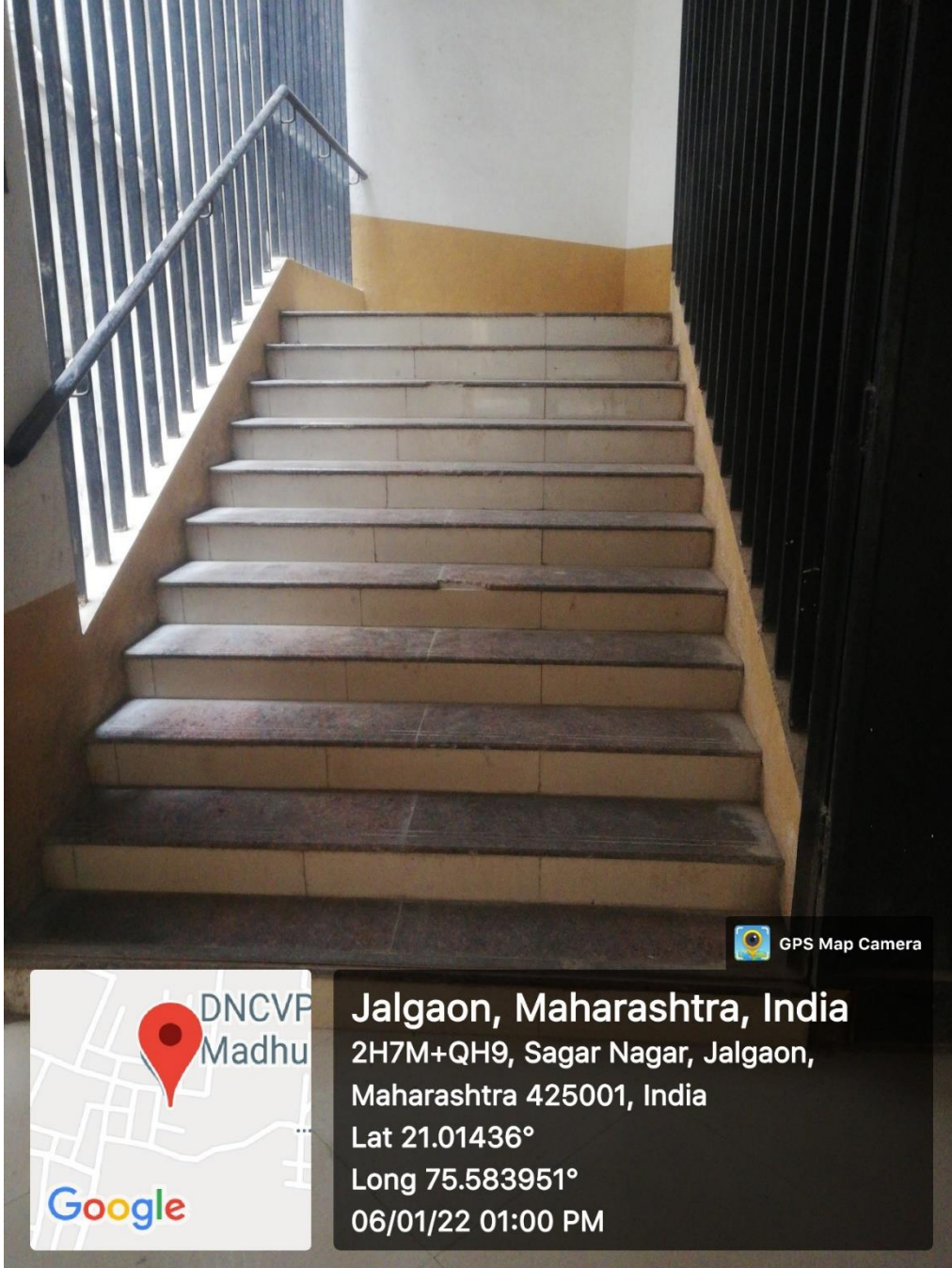
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Long 75.583951°
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जुना खेडी रोड, जळगाव (महा.), ४२५००१

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Old Khedi Road, Jalgaon (MH), 425001

● Contact : 90216 33400 ● E-mail: dncvp@rediffmail.com, smccjal@gmail.com ● Website: www.dncvp.org

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित
शिरीष मधुकरराव चौधरी
महाविद्यालय, जळगाव



ISO 9001:2015
Certified

Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit
SHIRISH MADHUKARRAO CHAUDHARI
COLLEGE, JALGAON

नेक मानांकन श्रेणी 'ब'

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ
जळगाव संलग्न

डॉ. राजेंद्र भा. वाघुळदे, प्राचार्य

NAAC Accredited Grade 'B'

Affiliated to Kavayitri Bahinabai Chaudhari North
Maharashtra University, Jalgaon

Dr. Rajendra B. Waghulade, Principal

संदर्भ/Ref:SMCCJ/

दिनांक/Date : / /20



पत्ता : गट नं. ७८/५, शंकरराव नगर, तळेले कॉलनी जवळ,
जुना खेडी रोड, जळगाव (महा.), ४२५००१

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शिरीष मधुकरराव चौधरी
महाविद्यालय, जळगाव



Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit
SHIRISH MADHUKARRAO CHAUDHARI
COLLEGE, JALGAON

नेक मानांकन श्रेणी 'B'

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ
जळगाव संलग्न

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Maharashtra University, Jalgaon

Dr. Rajendra B. Waghulade, Principal

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दिनांक/Date : / /20

Landscaping With Trees and Plants



पत्ता : गट नं. ७८/५, शंकरराव नगर, तळेले कॉलनी जवळ,
जुना खेडी रोड, जळगाव (महा.), ४२५००१

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धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित
शिरीष मधुकरराव चौधरी
महाविद्यालय, जळगाव

नेक मानांकन श्रेणी 'ब'

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ
जळगाव संलग्न

डॉ. राजेंद्र भा. वाघुळदे, प्राचार्य

संदर्भ/Ref:SMCCJ/



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SHIRISH MADHUKARRAO CHAUDHARI
COLLEGE, JALGAON

NAAC Accredited Grade 'B'

Affiliated to Kavayitri Bahinabai Chaudhari North
Maharashtra University, Jalgaon

Dr. Rajendra B. Waghulade, Principal

दिनांक/Date : / /20



पत्ता : गट नं. ७८/५, शंकरराव नगर, तळेले कॉलनी जवळ,
जुना खेडी रोड, जळगाव (महा.), ४२५००१

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शिरीष मधुकरराव चौधरी
महाविद्यालय, जळगाव



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Dhanaji Nana Chaudhari Vidya Prabodhini Sanchalit
SHIRISH MADHUKARRAO CHAUDHARI
COLLEGE, JALGAON

नॅक मानांकन श्रेणी 'ब'

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ
जळगाव संलग्न

डॉ. राजेंद्र भा. वाघुलदे, प्राचार्य

NAAC Accredited Grade 'B'

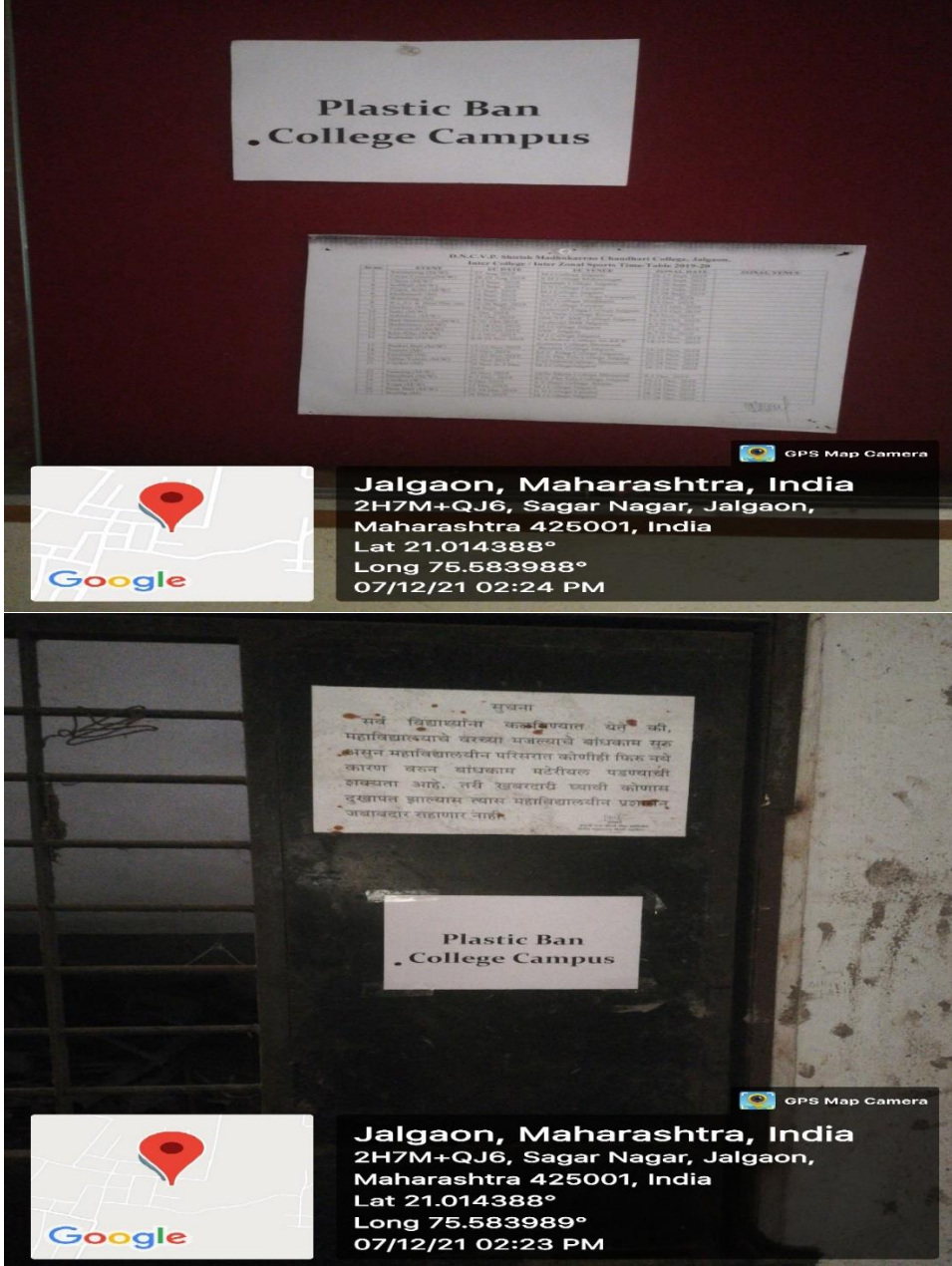
Affiliated to Kavayitri Bahinabai Chaudhari North
Maharashtra University, Jalgaon

Dr. Rajendra B. Waghulade, Principal

संदर्भ/Ref:SMCCJ/

दिनांक/Date : / /20

Plastic Ban Campus



पत्ता : गट नं. ७८/५, शंकरराव नगर, तळेले कॉलनी जवळ,
जुना खेडी रोड, जळगाव (महा.), ४२५००१

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● Contact : 90216 33400 ● E-mail: dncvp@rediffmail.com, smccjal@gmail.com ● Website: www.dncvp.org



**Dhanaji Nana Chaudhari Vidya Prabodhini'S
Shirish Madhukarrao Chaudhari College,
Jalgaon**
(NAAC Accreditation 'A' grade)



Date: 8/07/2020

Tree planting by Shirish Madhukarrao Chaudhari College

Dhanaji Nana Chaudhari Vidya prabodhani Sanchalit Shirish Madhukarrao Chaudhuri College, run by on 8th July, 2020. The campaign was started by the university to plant trees and keep the trees alive. And students from the National Service Scheme participated by planting trees at home and in the village. These include Shankarrao Nagar, Kholhe Nagar, Old Nasirabad Road, Jalgaon, Khiroda, Raver, Babrud. Pachora planted trees in the area. The principal of the college, Dr. R. B. Waghulde Under the guidance of, NSS Program Officer Prof. Anil Sonawane, Assistant Program Officer Prof. Rajshri Pachpande introduced eco-friendly Shisam, Chinch, Wad etc. to the planting trees.

Photos



Academy

Rajshri



**Dhanaji Nana Chaudhari Vidya Prabodhini'S
Shirish Madhukarrao Chaudhari College,
Jalgaon**
(NAAC Accreditation 'A' grade)



Date:02/10/2020

One Day Student Solar Ambassador Online Workshop at Shirish Madhukarrao Chaudhari College on the occasion of Mahatma Gandhi Jayanti

A one-day Student Solar Ambassador Online Workshop was organized on the occasion of Mahatma Gandhi Jayanti through Science Forum and Green Club at Shirish Madhukarrao Chaudhari College, Jalgaon. The event was jointly organized by IIT Bombay and the college. The online workshop was organized by under the guidance of the principal of the college, Dr. R. B. Waghulde, 51 students of the college participated. To the participating students, Dr. Chetan Singh Solanki, Dr. Anil Kakodkar, Mrs. Gandhi, Dr. Subhasis Chaudhary, Dr. K Vijayaraghavan, an expert from IIT Bombay, provided valuable guidance to the students through a webinar and provided basic information on environmental conservation. He also emphasized the importance of solar energy to the students in this workshop. These students will be given 51 solar lamps and certificates from IIT Bombay. This online workshop was organized by. Dr. Milind Kale, Anil Sonawane, Dr. Ravindra Ladhe, Dr. Rajkumar Lokhande, Assisted by Vanita Nemade.

Photos



Abhoy *Rajkumar*
श्री. राजकृष्ण चोबरी महाविद्यालय, जलगांव
जिल्हा शिक्षण अधिकारी, जलगांव



गटचर्चा



व्याख्याते डॉ. दयाधन राणे यांचे स्वागत करताना



शेबिरास भेट देतांना कबचौ उमवि रासेयो विभागाचे संचालक डॉ. सचिन नांदे आणि मान्यवर



मंदिर परिसरातील नाले सफाई करताना स्वयंसेवक



श्रमदान करतांना स्वयंसेवक



भोजनाचा आनंद घेतांना स्वयंसेवक



पथ नाट्य सदर करतांना स्वयंसेवक





डॉ. सर्वपल्ली राधा कृष्णन जयंती



ओझोन दिनानिमित्त जनजागृती रॅली



बेडी गावात परिसरात औषधी वनस्पतीची लागवड

XMCI+9HH, Beli, Maharashtra 425309, India

Latitude 20.970191666666665° Longitude 75.68256°

Local 12:14:11 PM Altitude 141.3 meters
GMT 06:44:11 AM Thursday, 08 Sep 2022



राष्ट्रीय सेवा योजना स्थापना दिनानिमित्त एक दिवसीय चर्चासत्र



म. गांधी जयंती निमित्त स्वच्छता अभियानाचे आयोजन



डॉ. ए. पी. जे. अब्दुल कलाम जयंती



प्लेस्टीक मुक्त अभियान



पर्यावरण संवर्धन जनजागृती



राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

(NAAC Accredited Grade: 'B' & ISO Certified: 9001:2015)

75
आज़ादी का
अमृत महोत्सव



शिरीष मधुकरराव चौधरी महाविद्यालयात

वृक्षारोपण संपन्न

दिनांक 16 जुलै रोजी कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठाचे नवनियुक्त प्र कुलगुरु प्रा. डॉ. एस टी इंगळे यांची प्र. कुलगुरु पदी निवड झाल्यानिमित्त महाविद्यालयातर्फे, संस्थेचे उपाध्यक्ष श्री सुनील पाटील यांच्या हस्ते सत्कार करण्यात आला. या प्रसंगी प्रा. डॉ. एस टी इंगळे यांनी महाविद्यालयाच्या नॅक मानांकनाबाबत मार्गदर्शन केले. या सत्कार समारंभास संस्थेचे सचिव डॉ. प्रमोद चौधरी, संचालक डॉ. विनय पाटील, समाजकार्य महाविद्यालयाचे प्राचार्य डॉ. राकेश चौधरी, महाविद्यालयाचे प्राचार्य डॉ. राजेंद्र वाघुळदे मान्यवर म्हणून उपस्थित होते.

सदर सत्काराचा कार्यक्रम समाप्ती नंतर नवनियुक्त प्र कुलगुरु प्रा. डॉ. एस टी इंगळे आणि संस्थेचे सचिव डॉ. प्रमोद चौधरी यांच्या हस्ते वृक्षारोपणाचा कार्यक्रम संपन्न झाला. यावेळी रासेयो चे कार्यक्रम अधिकारी डॉ. मिलिंद काळे, डॉ. रवींद्र लढे आणि इतर शिक्षक आणि शिक्षकेत्तर कर्मचारी उपस्थित होते. यावेळी रासेयोचे स्वयंसेवक बहुसंख्येने उपस्थित होते.



नवनियुक्त प्र कुलगुरु प्रा. डॉ. एस टी इंगळे आणि संस्थेचे सचिव डॉ. प्रमोद चौधरी यांच्या हस्ते वृक्षारोपण



प्राचार्य



राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

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75
आजादी का
अमृत महोत्सव



उपस्थिती पत्रक

विषय

कृद्वारोपण.

दिनांक

16.07.22

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
1.	Tejal. Rajiv. Dhore	Sy.bsc	Tejal
2.	Himanshu Kishor patil		
3.	Sayan Asit Panda	TyBcom.	Sayan
4.	Soumy Himanshu.	T.Y.BSc	Himanshu
5.	Gauri Hemraj Bhongale	Sy BSc	Bhongale
6.	Bhagyashri Yogesh Nehete	Sy BSc	Nehete
7.	Mrunali Girish Savdekar	Sy BSc	Savdekar
8.	Vrushali Vinod Parkhad	Sy BSc	V.V. Parkhad
9.	Umati Bhaskar yeole	Sy BSc	Yeole
10.	Vaishnavi Ratilal Patil	S.Y.BSc	Patil
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राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

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अमृत महोत्सव



समूहिक राष्ट्रगीत गायन



वृक्षारोपण करतांना महाविद्यालयाचे प्राचार्य डॉ. वाघुळदे आणि महाविद्यालयीन कर्मचारी



राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

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शिरीष मधुकरराव चौधरी महाविद्यालया तर्फे

वृक्षारोपणाचा कार्यक्रम उत्साहात साजरा

दिनांक 8 सप्टेंबर 2022 रोजी धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित शिरीष मधुकरराव चौधरी महाविद्यालय आणि लेवा भ्रातृमंडळ पिंपळे सौदागर पुणे यांच्या संयुक्त विद्यमाने जळगावपासून 22 कि.मी. अंतरावर असलेल्या बेडी गावातील कुण्डलेश्वराच्या मंदिर परिसरात राष्ट्रीय सेवा योजना एका तर्फे सुमारे 40 विविध औषधी वनस्पतींची लागवड करण्यात आली.

या कार्यक्रमांच्या साठी लेवा भ्रातृमंडळ पिंपळे सौदागर पुणेचे अध्यक्ष श्री पिंपळे आणि त्यांचे सहकारी श्री खडसे, रासेयो चे कार्यक्रम अधिकारी डॉ. मिलिंद काळे, डॉ. रवींद्र लढे, बेडी गावाच्या गो शाळेचे सेवेकरी आणि राष्ट्रीय सेवा योजनेचे स्वयंसेवक बहुसंख्येने उपस्थित होते.



XMCI+9HH, Beli, Maharashtra 425309, India

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Latitude 20.970203333333334° Longitude 75.68254666666667°

Local 12:12:32 PM Altitude 143.6 meters
GMT 06:42:32 AM Thursday, 08 Sep 2022



[Signature]
प्राचार्य

धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित



राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संयलित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

(NAAC Accredited Grade: 'B' & ISO Certified: 9001:2015)



उपस्थिती पत्रक

75
आज़ादी का
अमृत महोत्सव

विषय

हस्तारोपण. (लेडी गाव)

दिनांक

08.09.22

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
1.	Sachin Namdev Jadhav	F.Y.BSC	
2.	Kunal Santosh Dhamdhere	F.Y.BSC	
3.	Bhalekar Shubham Sunil	F.Y.BSC	
4.	Badguler Chetan Kirhor	F.Y.BSC	
5.	Umesh Prakash Mali	F.Y.BSC	
6.	Moreskar Shrikrishna Wani	F.Y.BSC	
7.	Tarkesh Vasudev Ingate	F.Y.BSC	
8.	Vikas Shivdas Thakare	F.Y.BSC	
9.	Badguler Mayuresh Raju	F.Y.BSC	
10.	Devgar Nagesh Dube	F.Y.BSC	
11.	Deval Pramod Choudhary	F.Y.BSC	
12.	Rohit Prabhakar Dhande	F.Y.BSC	
13.	Krishna Bhaskar Dipake	F.Y.BSC	
14.	Purila Uthra Patil	F.Y.BSC	
15.	Vedant Swit Shinde	F.Y.BSC	
16.	Varade Chary Dattatray	F.Y.BSC	
17.	Jayesh Prashant Aharde	F.Y.BSC	
18.	Vaishnavi Manoj Patil	F.Y.BSC	
19.			



अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
20.	Kallesh Balagahab more	T.Y BSc	<u>Kallesh</u>
21.	Kailash Gurbab Patil	T.Y. BSc	<u>K.G. Patil</u>
22.	Mayuri Vishnu Londage.	S.Y BSc	<u>Mandage</u>
23.	shubhangi Ganesh choudhari	FY BSc	<u>S.G. choudhari</u>
24.	Patil Vaishnavi Pathan	S.Y. BSc	<u>V. Patil</u>
25.	Divya Rajendree Pachpande	S.Y. B.Sc	<u>Divya Pachpande</u>
26.	Shantana Subhakar Phule	F.Y BSc	<u>S. Phule</u>
27.	Yogeshwar Sandul Udale	T.Y BSc	<u>Y. Udale</u>
28.	Chetana Tekchand chaudhari	S.Y Bcom	<u>C. Chaudhari</u>
29.	choudhari chandhild Vivex	F.Y BSc	<u>C.V. Chaudhari</u>
30.	Nimali Chandarkant Mahajan	S.Y. Bcom	<u>H.C. Mahajan</u>
31.	Gaurav m Sapkale	T.Y BSc	<u>G. Sapkale</u>
32.	Aaditya Pratapsing Parmar	F.Y. BCA	
33.	Vaishnavi Yashwant Pegade	F.Y. BSc Pegade	<u>V. Pegade</u>
34.	pravina prakesh Nair	T.Y BSc	<u>P. Nair</u>
35.	Patil Sahil Sanjay	S.Y. Bcom	<u>S. Patil</u>
36.	Rajput Alkesh Vinod	F.Y. BSc	<u>A. Rajput</u>
37.	Mali Vijay kishor	S.T. Bcom	<u>V. Mali</u>
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राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव
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आज़ादी का
अमृत महोत्सव



शिरीष मधुकरराव चौधरी महाविद्यालयात

ओझोन दिनानिमित्त जनजागृती रॅलीचे आयोजन

आज दिनांक १६ सप्टेंबर २०२२ रोजी ओझोन दिनानिमित्त शिरीष मधुकरराव चौधरी महाविद्यालयातील राष्ट्रीय सेवा योजना आणि विद्यार्थी विकास विभाग यांच्या संयुक्त विद्यमाने ओझोन दिनानिमित्त जनजागृती रॅलीचे आयोजन करण्यात आले.

या प्रसंगी महाविद्यालयाचे प्राचार्य डॉ. राजेंद्र वाघुळदे यांनी ओझोन थर, त्याचे महत्त्व आणि पर्यावरणावर त्याचे परिणाम याचे महत्त्व विषद केले. त्यानंतर रॅलीला सुरुवात झाली. सदर रॅली महाविद्यालय परिसरात काढण्यात आली. या वेळी कनिष्ठ महाविद्यालयाच्या उपप्राचार्या सौ. प्रिती बोंडे, रासेयो कार्यक्रम अधिकारी डॉ. मिलिंद काळे, डॉ. रवींद्र लढे, विद्यार्थी विकास अधिकारी डॉ. राजकुमार लोखंडे, क्रीडा संचालक डॉ. प्रमोद चौधरी, ग्रंथपाल सुनील पाटील, डॉ. संदीप जोशी, प्रा. सौ. प्रियांका बऱ्हाटे तसेच महाविद्यालयातील शिक्षक आणि शिक्षकेत्तर कर्मचारी आणि विविध शाखांमधील विद्यार्थी आणि रा. से. यो. चे स्वयंसेवक बहुसंख्येने उपस्थित होते.



ओझोन दिनानिमित्त जनजागृती रॅलीचे आयोजन



[Signature]

प्राचार्य

धनाजी नाना चौधरी विद्या प्रबोधिनी



राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

(NAAC Accredited Grade: 'B' & ISO Certified: 9001:2015)



उपस्थिती पत्रक



विषय

ओशोन दिन

दिनांक

16.09.22

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
1.	Vikas Shivdas Thakare	F.Y BSC	
2.	Moveshwar Shrinikshan Wani	F.Y BSC	
3.	Tanvesh Vasudeu Ingale	F.Y BSC	
4.	Rohit Prabhakar Dhande	F.Y BSC	
5.	Badguler Chetan Kirhar	F.Y BSC	
6.	Kailash Guldab Patil	F.Y BSC	
7.	Purva Ukha Patil	F.Y BSC	
8.	Jayesh Prashant Attarde	F.Y BSC	
9.	Krishna Bhaskar Dipake		
10.	Umesh Prakash Modi	F.Y BSC	
11.	Vedant Shrit Shinde	F.Y BSC	
12.	Varade Chary Dattatray	F.Y BSC	
13.	Bhalerao Shabham Sunil	F.Y BSC	
14.	Deval Premod Phadkary	F.Y BSC	
15.	Shubhangi Ganesh Chaudhari	F.Y BSC	
16.	Kunal Santosh Dhamdhare	F.Y BSC	
17.	Sachin Namdev Jadhav	F.Y BSC	
18.	Badgujar Mayuresh Raju	F.Y BSC	
19.	Aditya Pratapsing Parmar	F.Y BSC	

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
20.	Kalpesh Balasahel Patil	T.Y. BSc	Patil
21.	Yogeshwar Sanjay Ugale	T.Y. BSc	Patil
22.	Sagar Nagesh Dubé	F.Y. BSc	Patil
23.	Vaishnavi Manoj Patil	F.Y. BSc	Patil
24.	Mayuri Vishnu Landage	S.Y. BSc	Wandke
25.	Divya Rajendra Pachpande	S.Y. B.Sc	Pachpande
26.	Shantanu Siddhanta Chaudhari	F.Y. BSc	Patil
27.	Chetana Tekchand Chaudhari	S.Y. Bcom	Chaudhari
28.	Patil Vaishnavi Patil	S.Y. BSc	Patil
29.	Himali Chandrakant Mahajan	S.Y. Bcom	H.C. Mahajan
30.	Vaishnavi Yashwant Fegade	F.Y. BSc	Fegade
31.	Pravina P. Nair	T.Y. BSc	P.P. Nair
32.	Gaurav M. Sapkale	T.Y. BSc	Patil
33.	Patil Sahil Sanjay	S.Y. Bcom	Patil
34.	Rajput Akash Vinod	F.Y. BSc	Patil
35.	Mali Vijay Kishor	S.Y. Bcom	V.K. Mali
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राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

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शिरीष मधुकरराव चौधरी महाविद्यालयात

म. गांधी जयंती निमित्त स्वच्छता अभियानाचे आचोजन

आज 2 ऑक्टोबर गांधी जयंतीच्या निमित्त राष्ट्रीय सेवा योजना एकक, शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव आणि स्वामिनारायण मंदिर जळगाव यांच्या संयुक्त विद्यमाने सकाळी 07 वाजेला स्वच्छता अभियान कार्यक्रम आयोजित करण्यात आला होता.

सदर कार्यक्रमाचा उद्घाटन सोहळा कालिका माता मंदिर परिसरात संपन्न झाला. या प्रसंगी मंदिराचे नयनस्वामी, पी.पी. शास्त्री, शिवसेना अध्यक्ष विष्णूभाऊ भंगाळे, नगरसेवक डॉ. खडके उपस्थित होते. या अभियानामुळे महात्मा गांधीजींचे स्वच्छ भारत स्वप्न पूर्ण होऊ शकेल असे पी.पी. शास्त्री यांनी उद्घाटन करताना प्रतिपादन केले. तर स्वच्छ भारत चळवळ ही लोकचळवळ, लोकसहभाग चळवळ निर्माण व्हावी असे विष्णूभाऊ भंगाळे यांनी मनोगत व्यक्त केले. डॉ. खडके यांनी स्वच्छता अभियानास शुभेच्छा व्यक्त केल्या.

या अभियानात सात ट्रॅक्टर भरून केरकचरा गोळा करण्यात आला. सर्वांना झाडू, पेशव्या, मास्क वाटप करण्यात आले. याप्रसंगी विविध शाळांमधील बहुसंख्य विद्यार्थी, हरिभक्त व नागरिकांनी सहभाग घेतला. यात गुजराथी मंडळ जळगाव, का. उ. कोल्हे विद्यालय, वर्धमान स्कूल, बी. यु. रायसोनी स्कूल अथोद्या नगर, महादेव दत्त मंदिर, श्री. श्री. रविशंकर यांचा फोंगर ग्रुप, फ्रेड्स ऑफ ॲनिमल ग्रुप जळगाव, धनाजी नाना महाविद्यालय जळगाव, यांचा सहभाग लाभला होता. यानंतर महाविद्यालयात सकाळी 10.30 वा. म. गांधी आणि लाल बहादूर शास्त्री यांच्या प्रतिमेस पुष्प अर्पण करून महाविद्यालयीन कर्मचाऱ्यांतर्फे मानवंदना देण्यात आली.



म. गांधी जयंती आणि स्वच्छता अभियान

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राष्ट्रीय सेवा योजना विभाग

धनार्जी नाना चौधरी विद्या प्रबोधिनी संचालित

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आजादी का
अमृत महोत्सव





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उपस्थिती पत्रक



विषय

म. गांधी जयंती : (स्वाच्छता मोहिम)

दिनांक

02/10/22

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
1.	Purva Ukha Patil	Fy bsc	P. U. Patil
2.	Himali Chandarkant Mahajan	S.Y. Bcom	H.C. Mahajan
3.	chetana Tekchand Chaudhari	S.Y. Bcom	G. Chaudhari
4.	shubhangi Gonesh chaudhari	T.Y. Bsc	S. Chaudhari
5.	Unnati Bhaskar yeole	S.Y. Bsc	U. Yeole
6.	Namrata Ponderang Mali	Sy Bsc.	N. Mali
7.	Sagar Nagesh Dube	Fy. BSC	S. Dube
8.	Payal Thakur Tadele	Sy BSC	Payal
9.	Rina Ashok Chismade	S.Y. Bcom	R. Chismade
10.	Vaishnavi Yashwant Fegade	FY BSC	V. Fegade
11.	Moreshuar Shrikrishna Wani	T.Y BSC	M. Wani
12.	Chaudhari Pooja Sunil	S.Y. Bcom	P. Chaudhari
13.	Kunal Ganesh Dhamdhare	F.Y. BSC	K. Dhamdhare
14.	Patil Vaishnavi Ratilal	S.Y. BSC	V. Patil
15.	Tarakesh Udayrao Ingle	FY BSC	T. Ingle
16.	Jarhavi. Rajendra Patil	S.Y. BSC	J. Patil
17.	Vaishnavi Manoj Patil	FY BSC	V. Patil
18.	Deval Parnod Chaudhari	Fy BSC	D. Chaudhari
19.	Vikas Shivdas Thakara	F.Y BSC	V. Thakara

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
20.	Kailash Gudab Patil	P.Y. BSC	K.G. Patil
21.	Krishna Bhaskar Dipake	Fy BSC	R
22.	Yodheshwar Sanjay Ugale	Ty BSC	L
23.	Kalpesh Balasahel patil	Ty BSC	Patil
24.	Shantanu Sudhakar Dhindare	FM BSC	S
25.	Pravina Prakash Nair	TY BSC	P. Prakash
26.	Aaditya Pratapsingh Parmar	Fy BCA	A
27.	Rohit Prabhakar Dhanoo	Fy BSC	R
28.	Sachin Ramdev Jadhav	Fy BSC	S. Ramdev
29.	Patil Sushil Parmar	Fy BSC	R
30.	Bonde Sandesh Chagan	Fy. BSC	S.C. Bonde
31.	Budgutar mayuresh Ravi	Fy. BSC	B
32.	Varade Charu Dattatray	Fy BSC	Charu
33.	Tejal. Rajiv. Dhore	Sy BSC	T
34.	Jayesh Prashant Attarde	Sy BSC	J
35.	Budgutar chetan Kirhor	Fy. BSC	B
36.	Patil Sahil Sanjay	Sy. Bcom	S
37.	Rajput Alkesh Vinod	Fy. BSC	A
38.	Mali Vijay Kishor	S.T. Bcom	V
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राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

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शिरीष मधुकरराव चौधरी महाविद्यालयाचे

प्लॅस्टिक मुक्त अभियानात उत्कृत योगदान

दिनांक 19 ऑक्टोबर 2022 रोजी जळगाव येथे कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठा तर्फे "क्लीन इंडिया मेगा इव्हेंट" चे आयोजन करण्यात आले होते. त्या अंतर्गत प्लास्टिक मुक्त अभियान राबवले गेले. सदर अभियानाच्या यशस्वीतेसाठी विद्यापीठ रासेयो विभागाने इतर महाविद्यालयांना अभियानात सामील होण्यासाठी आवाहन केले होते. या अभियानांत शिरीष मधुकरराव चौधरी महाविद्यालयाच्या राष्ट्रीय सेवा योजना एककाने आपला उत्कृत प्रतिसाद नोंदवला. या अभियानांत जी. एस. ग्राउंड, गोलाणी मार्केट परिसर, महानगर पालिका परिसर, तसेच रेल्वे स्टेशन आणि परिसर भागातील प्लास्टिक संकलन केले गेले. नंतर तो इकत्रीत कचरा महानगर पालिकेला सोपवण्यात आला. सदर अभियानात नागरीकांना प्लास्टिक मुक्तीचा संदेश देण्यात आला. यावेळेस विद्यापीठाच्या रासेयो विभागाचे संचालक डॉ. सचिन नांदे आणि पालिकेचे अधिकारी उपस्थित होते. सदर अभियानांत स्वयंसेवकांनी मोठ्याप्रमाणावर आपला सहभाग नोंदवला.



प्लास्टिक संकलन करतांना आणि जनजागृती करतांना रा.से.यो. स्वयंसेवक



Signature
प्राचार्य

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित



राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

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उपस्थिती पत्रक



विषय

साप्ताहिक मुक्त अभ्यास.
(G.S. Ground).

दिनांक

19.10.22

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
1.	Aditya Pratapsing Parmar	F.Y.BCA	
2.	Sagar Nagesh Dabe	F.Y.BSC	
3.	Varade Chary Dattatray	F.Y.BSC	Chary
4.	Badgajar chetan Kithar	F.Y.BSC	
5.	Yodeshwar Santak Udale	F.Y.BSC	
6.	Vedant Surit Shinde	F.Y.BSC	Shinde
7.	Purva Utha Patil	F.Y.BSC	P.V. Patil
8.	Badgajar Mayuresh Raju	F.Y.BSC	
9.	Bhalerao Shubham Sunil	F.Y.BSC	Shubham
10.	Morekumar Shrikrishna Wani	F.Y.BSC	Wani
11.	Devul Pramod Chaudhary	F.Y.BSC	
12.	Vaishnavi Mahaj Patil	F.Y.BSC	
13.	Divya Rajendra Pachpande	S.Y.BSC	Pachpande
14.	Tankesh Marudav Ingale	F.Y.BSC	Tankesh Ingale
15.	Shahman Sudhakar Chaudhary	F.Y.BSC	
16.	Krishna Bhaskar Dipak	F.Y.BSC	
17.	Chetgh Tekghad Chetghadi	S.Y.BSC	Chetghadi
18.	Rohit Prabhakar Chande	F.Y.BSC	
19.	Vikas Shivdas Thakare	F.Y.BSC	Thakare

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
20.	Sachin Namdev Jadhav	F.Y.BSC	<u>Sachin</u>
21.	Kunat Santosh Dhamdhere	F.Y.BSC	<u>Kunat</u>
22.	Kalpesh Balasahar Patil	T.Y.BSC	<u>Kalpesh</u>
23.	Omesh Prakash Mali	F.Y.BSC	<u>Omali</u>
24.	Kailash Gulab Patil	T.Y.BSC	<u>K.G. Patil</u>
25.	Mayuri Vishnu Landage	S.Y.BSC	<u>Landage</u>
26.	Jayesh Prashant Attarde	S.Y.BSC	<u>Attarde</u>
27.	Shubhangi Ganesh Chaudhari	F.Y.BSC	<u>S.G. Chaudhari</u>
28.	Patil Vairnani Pratilal	S.Y.BSC	<u>Pratilal</u>
29.	Himali Chandrakant Mahajan	S.Y.Bcom	<u>H.C. Mahajan</u>
30.	Pravina Prakash Nair	T.Y.BSC	<u>P.P. Nair</u>
31.	Ganraj Mohan Sapkele	T.Y.BSC	<u>Ganraj</u>
32.	Patil Sahil Sanjay	S.Y.BCOM	<u>Sahil</u>
33.	Rajrat Alkesh Vinod	F.Y.BSC	<u>Alkesh</u>
34.	Mali Vijay Kishor	S.Y. Bcom	<u>V.K. Mali</u>
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राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

(NAAC Accredited Grade: 'B' & ISO Certified: 9001:2015)



शिरीष मधुकरराव चौधरी महाविद्यालयातर्फे

पर्यावरण संवर्धन जनजागृती

दिनांक 19 नोव्हेंबर रोजी पर्यावरण मास निमित्त राष्ट्रीय सेवा योजना एकक, शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव तर्फे दत्तक गाव तरसोद येथे पर्यावरण संवर्धनबद्दल जनजागृती करण्यात आली. यावेळी रासेयो स्वयंसेवकांनी यावेळी रासेयो चे कार्यक्रम अधिकारी डॉ. मिलिंद काळे, डॉ. रवींद्र लढे, हे उपस्थित होते. यावेळी रासेयोचे स्वयंसेवक बहुसंख्येने उपस्थित होते.



[Signature]
प्राचार्य

धनाजी नाना चौधरी विद्या प्रबोधिनी संचलित



राष्ट्रीय सेवा योजना विभाग

धनाजी नाना चौधरी विद्या प्रबोधिनी संचालित

शिरीष मधुकरराव चौधरी महाविद्यालय जळगाव

(NAAC Accredited Grade: 'B' & ISO Certified: 9001:2015)



उपस्थिती पत्रक (2022-23)

विषय

पर्यावरण जनजागृती. मास

दिनांक

19.11.22

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
1.	Patil Veishnavi Patil	S.Y. BSc	Patil
2.	Mali Umesh Prakash	P.Y. BSc	Mali
3.	Bhalerao Shubham Sunil	F.Y. BSc	Bhalerao
4.	Chetana Tekchand Chauthari	S.Y. Bcom	Chauthari
5.	Mureshwar Shivkeshav Wani	T.Y. BSc	Wani
6.	Aditya Pratapsing Parmar	F.Y. BCA	Parmar
7.	Unnati Bhaskar Yeole	S.Y. BSc	Yeole
8.	Rohit Prabhakar Phanje	P.Y. BSc	Phanje
9.	Chaudhari Pooja Sunil	S.Y. BCOM	Chaudhari
10.	Sagar Nagesh Dube	P.Y. BSc	Dube
11.	Mali Yegita Sanjay	S.Y. BCOM	Mali
12.	Patil Veishnavi Manoj	F.Y. BSc	Patil
13.	Tanvesh Vasudev Ingale	F.Y. BSc	Ingale
14.	Krishna Bhaskar Dipake	F.Y. BSc	Krishna
15.	Patil Janhavi Rajendra	F.Y. BSc	Janhavi
16.	Kailash Gulab Patil	P.Y. BSc	K.G. Patil
17.	Vikas Shivdas Thakare	F.Y. BSc	Thakare
18.	Devul Pramad Choudhary	F.Y. BSc	Choudhary
19.	Sachin Namdev Jadhav	F.Y. BSc	Jadhav
20.	Vedant Sujit Shinde	F.Y. BSc	Shinde

अनु. क्र.	स्वयंसेवकाचे / विद्यार्थ्याचे नाव	वर्ग	सही
21.	Varade Charu Dattatray	Fi BSc	Charu
22.	Kunal Santosh Dhamdhere	Fi BSc	Kunal
23.	Badgujar Mayurash Raju	Fy BSc	Mayur
24.	Purna Usha Patil	Fy BSc	P.U. Patil
25.	Shubhangi Ganesh Chaudhari	Fi BSc	S.G. Chaudhari
26.	Jayesh Prashant Attarde	Sy BSc	Jayesh
27.	Patil Janhavi. Rajendra	Fy BSc	Janhavi
28.	Yogeshwar Sanjay Udale	Ty BSc	Yogesh
29.	Kalpesh Balash-b Patil	Ty BSc	Kalpesh
30.	Patil Sushil Ramrao	Fy BSc	Sushil
31.	Shantaram Sudhakar Dhiwar	Fi BSc	Shantaram
32.	Namrata P. Mali	Sy BSc	Namrata
33.	Badgujar Chetan Kirshor	Fy BSc	Chetan
34.	Rajal Trakya Tade	Sy BSc	Rajal
35.	Vrushali Vinod Parkhad	Sy BSc	Vrushali
36.	Rina Ashok Chirmade	Sy Bcom	Rina
37.	Himali Chandarkant Mahajan	Sy Bcom	H.C. Mahajan
38.	Pravina P. Nair	Ty BSc	P.P. Nair
39.	Chaudhari Charnushila Vivek	Fy BSc	C.V. Chaudhari
40.	Mayuri Vishnu Landage	Sy BSc	Mayuri
41.	Divya Rajendra Pachpande	Sy BSc	Divya
42.	Gaurav M. Sapkale	Ty BSc	Gaurav
43.	Pravina P. Nair	Ty BSc	P.P. Nair
44.	Tajal Rajiv. Dhore	Sy BSc	Tajal
45.	Vaishnavi Yashwant Regade	Fy BSc	Vaishnavi