Report

On

Green Audit

At

Late Ku Durga K Banmeru Science College,
Lonar, Buldhana
(Year 2019-20)

Prepared by

Nutan Urja Solutions

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6.6 Green Landscaping with Trees and Plants	į,



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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 Late Ku Durga K Banmeru Science College, Lonar, Buldhana is conducted by Nutan Urja Solutions, Pune. Based On the audit field study, following important points can be presented.

1. Present Energy Consumption

Late Ku Durga K Banmeru Science College, Lonar, Buldhana 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.

Energy CO2				
Sr no	Parameter	Energy consumed, (Units)	Emission (MT)	
1	Maximum	486	0.39	
2	Minimum	30	0.02	
3	Average	320	0.26	
4	Total	3,843	3.07	

Table no 1: Details of energy consumption

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.

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

4. 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.

5. Notes and Assumptions

1. Daily working hours-10 Nos

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- 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

Late Ku. Durga K. Banmeru Science College, Lonar Dist. Buldana, is an academic excellence and achievement, was established in June 2000. Main objective of institute is the Students of the institute should be skillfull, knowledgebale & all-round in science so that they become multidimensional. The institute provide the basic as well as advance science courses.

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

			Bill
		Energy	Amount
No	Month	(kWh)	(Rs)
1	Sep-20	319	3,700
2	Aug-20	30	345
3	Jul-20	414	4,720
4	Jun-20	342	4,172
5	May-20	272.5	3,406
6	Apr-20	391	4,927
7	Mar-20	289	3,439
8	Feb-20	336.5	4,038
9	Jan-20	359.5	4,350
10	Dec-19	276	3,367
11	Nov-19	327	4,055
12	Oct-19	486	5,735
	Total	3842.5	46254

Variation in energy consumption is as follows,



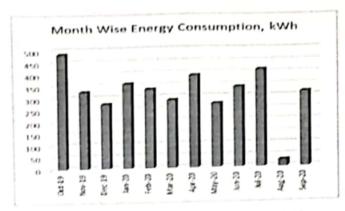


Figure 2.1: Month wise energy consumption

Monthly variation in electricity bill is as follows,

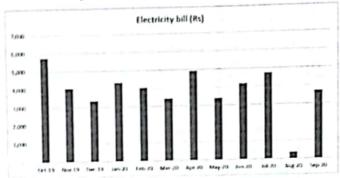


Figure 2.2: Month wise electricity bill

Key observations of electricity bill are as follows,

Table no 2.2: Key observations

		Energy	CO2
		consumed,	Emission
. Sr no	Parameter	(Units)	(MT)
1	Maximum	486	0.39
2	Minimum	30	0.02
3	Average	320	0.26
4	Total	3,843	3.07



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

		Energy	CO2
		Consumed,	Emissions,
No	Month	kWh	MT
1	Sep-20	319	0.26
2	Aug-20	30	0.02
3	Jul-20	414	0.33
4	Jun-20	342	0.27
5	May-20	273	0.22
6	Apr-20	391	0.31
7	Mar-20	289	0.23
8	Feb-20	337	0.27
9	Jan-20	360	0.29
10	Dec-19	276	0.22
11	Nov-19	327	0.26
12	Oct-19	486	0.39
	Total	3,843	3.07

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

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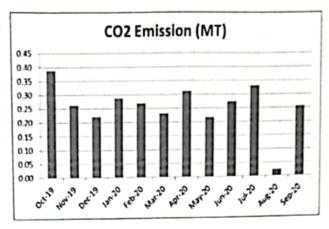


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4. Study of Rain Water Harvesting

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





5. Study of Waste Management

5.1 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:



5.2 e-Waste Management

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



6. Study of Green Practices

6.1 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.

6.2 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. Institute encourages students to not to use automobiles.

6.3 Pedestrian Friendly Roads

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

6.4 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
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The internal communication of the Institute is through the Internet. There are hardly any day to day operations, where printing is required.

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The Institute has beautiful maintained Garden.



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Sr no Parameter (Units) CO2

Maximum 659 0.53

Minimum

Average

Total

Table no 1: Details of energy consumption

100

331

3,973

0.08

0.26

3.18

2. Various Measures Adopted for Energy Conservation

2

3

4

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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

1			Bill
		Energy	Amount
No	Month	(kWh)	(Rs)
1	Sep-21	333	7,510
2	Aug-21	280	3,450
3	Jul-21	183	2,420
4	Jun-21	497	6,075
5	May-21	100	1,320
6	Apr-21	382	4,966
7	Mar-21	268	3,430
8	Feb-21	365	4,891
9	Jan-21	365	4,964
10	Dec-20	206	2,472
11	Nov-20	335	3,987
12	Oct-20	659	7,776
1	Total	3973	53261

Variation in energy consumption is as follows,



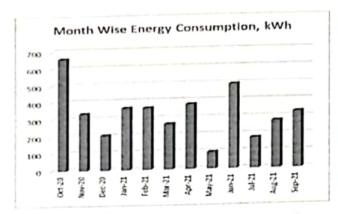


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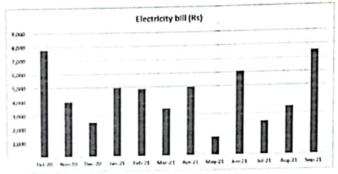


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Key observations of electricity bill are as follows,

Table no 2.2: Key observations

		Energy	CO2
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Sr no	Parameter	(Units)	(MT)
1	Maximum	659	0.53
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10	Dec-20	206	0.16
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12	Oct-20	659	0.53
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In the following Chart we present the CO2 emissions due to usage of Electrical Energy.



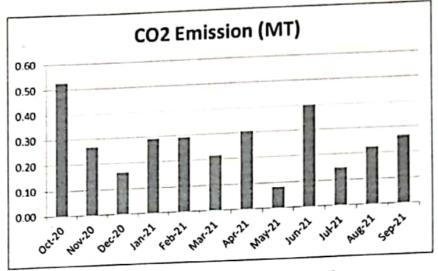


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Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	445	0.36
2	Minimum	183	0.15
3	Average	315	0.25
4	Total	3,778	3.02

Table no 1: Details of energy consumption

2. Various Measures Adopted for Energy Conservation

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2	May-22	445	10,100.00
3	Apr-22	400	4,800.00
4	Mar-22	310	3,760.00
5	Feb-22	308	3,750.00
6	Jan-22	354	4,220.00
7	Dec-21	346	4,150.00
8	Nov-21	319	3,860.00
9	Oct-21	313	3,800.00
10	Sep-21	333	7,510.00
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12	Jul-21	183	2,420.00
	Total	3778	59630

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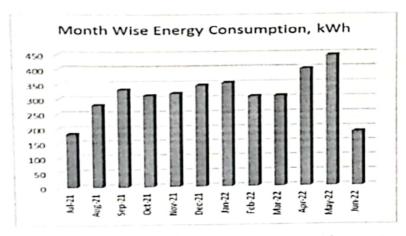


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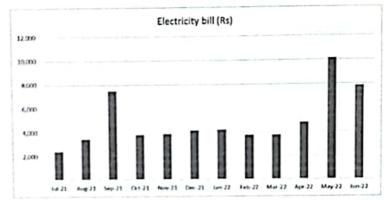


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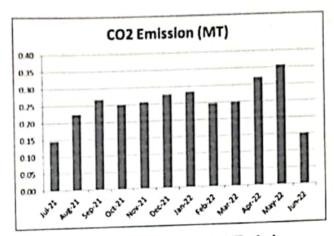


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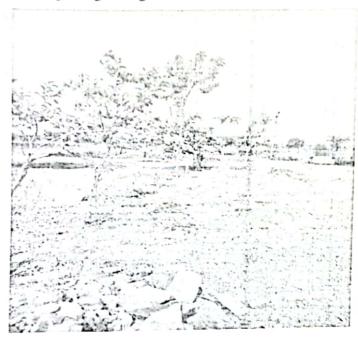


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