GREEN AUDIT REPORT

of

SHREE L. R. TIWARI COLLEGE OF LAW,

Shree L. R. Tiwari Educational Campus, Mira Road (East) Thane 401 107



Year: 2020-21

Prepared by:

ENRICH CONSULTANTS

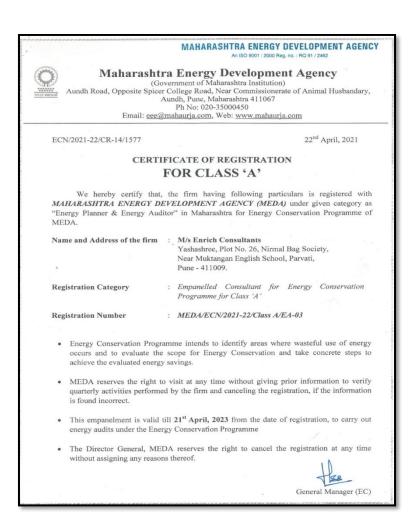
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REGISTRATION CERTIFICATES

No. 2942 Regn. No. EA-8192 **National Productivity Council** (National Certifying Agency) PROVISIONAL CERTIFICATE This is to certify that Mr. / Ms. ... Achyut Yashavant Mehendale son | daughter of Mr. Yashavant has passed the National Certification Examination for Energy Auditors in April - 2007, conducted on behalf of the Bureau of Energy Efficiency, Ministry of Power, Government of India. He | She is qualified as Certified Energy Manager as well as Certified Energy Auditor. He | She shall be entitled to practice as Energy Auditor under the Energy Conservation Act 2001, subject to the fulfillment of qualifications for the Accredited Energy Auditor and issue of certificate of Accreditation by the Bureau of Energy Efficiency under the said Act. This certificate is valid till the issuance of an official certificate by the Bureau of Energy Efficiency Llojnchidaulouan Place : Chennai, India ller of Examination Date : 10th August 2007

BEE ENERGY AUDITOR CERTIFICATE



MEDA EMPANELMENT CERTIFICATE

INDEX

Sr. No	Particulars	Page No
I	Acknowledgement	4
II	Executive Summary	5
III	Abbreviations	6
1	Introduction	7
2	Study of Present Energy Consumption	8
3	Study of Carbon Foot Printing	9
4	Study of Usage of Renewable Energy	10
5	Study of Waste Management	11
6	Study of Rain water Harvesting	12
7	Study of Green & Sustainable Practices	13

Green Audit Report: Shree L. R. Tiwari College of Law, Mira Road: 2020-21

ACKNOWLEDGEMENT

We Enrich Consultants, Pune, express our sincere gratitude to the management of Shree L. R. Tiwari College of Law, Shree L. R. Tiwari Educational Campus, Mira Road (East) Thane 401 107, for awarding us the assignment of Green Audit of their Campus for the Year: 2020-21.

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

EXECUTIVE SUMMARY

1. Shree L. R. Tiwari College of Law), Mira Road, consumes Energy in the form of Electrical Energy; used for various Electrical Equipment.

2. Present Energy Consumption & CO₂ Emission:

No	Parameter/ Value	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Total	17554	15.80
2	Maximum	2785	2.51
3	Minimum	197	0.18
4	Average	1462.83	1.32

3. Usage of Renewable Energy:

• The College has yet to install Roof Top Solar PV Plant.

4. Waste Management:

4.1 Segregation of Waste at Source:

The Dry and Wet waste is segregated at the source. Waste collection Bins are kept at various points.

5. Rain Water Management:

The Rain water falling on terrace is collected through Pipes and is used to increase the underground water table.

6. Green & Sustainable Practices:

- Good internal roads for easy movement of commuters
- Internal tree plantation in the campus
- Provision of Ramp for Divyangajan
- Creation of Awareness by Display of Posters on Plastic Free Campus

7. Assumptions:

- 1. Energy Consumption is computed based on Load Utilization Factor
- 2. 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere

8. Reference:

• For CO₂ Emission Computation: www.tatapower.com

Green Audit Report: Shree L. R. Tiwari College of Law, Mira Road: 2020-21

ABBREVIATIONS

Kg : Kilo Gram

MT : Metric Ton

kWh : kilo-Watt Hour

LPD : Liters per Day

LED : Light Emitting Diode

CHAPTER-I INTRODUCTION

1.1 Objectives:

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

1.2 Table No 1: General Details of College:

No	Head	Particulars
1	Name of College	Shree L. R. Tiwari Degree College (Arts, Commerce and Science
2	Address	Shree L. R. Tiwari Educational Campus, Mira Road (East) Thane 401 107
3	Affiliation	University of Mumbai

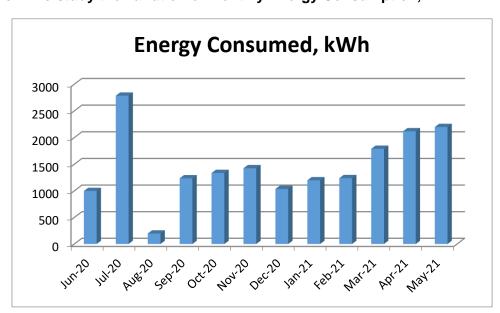
CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

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

Table No 2: Electrical Energy Consumption Analysis: 2020-21:

No	Month	Energy Consumed, kWh
1	Jul-20	997
2	Aug-20	2785
3	Sep-20	197
4	Oct-20	1236
5	Nov-20	1336
6	Dec-20	1425
7	Jan-21	1036
8	Feb-21	1198
9	Mar-21	1239
10	Apr-21	1789
11	May-21	2118
12	Jun-21	2198
13	Total	17554
14	Maximum	2785
15	Minimum	197
16	Average	1462.83

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



CHAPTER III STUDY OF CARBON FOOT PRINTING

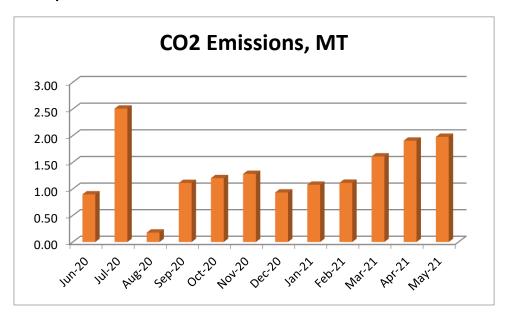
A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. Basis for computation of CO₂ Emissions:

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

Table No 3: Month wise CO₂ Emissions:

No	Month	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Jun-20	997	0.90
2	Jul-20	2785	2.51
3	Aug-20	197	0.18
4	Sep-20	1236	1.11
5	Oct-20	1336	1.20
6	Nov-20	1425	1.28
7	Dec-20	1036	0.93
8	Jan-21	1198	1.08
9	Feb-21	1239	1.12
10	Mar-21	1789	1.61
11	Apr-21	2118	1.91
12	May-21	2198	1.98
13	Total	17554	15.80
14	Maximum	2785	2.51
15	Minimum	197	0.18
16	Average	1462.83	1.32

Chart No 2: Representation of Month wise CO₂ Emissions:



CHAPTER IV
STUDY OF USAGE OF RENEWABLE ENERGY

The College has yet to install Roof Top Solar PV Plant.

CHAPTER V STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

The Dry and Wet waste is segregated at the source. Waste collection Bins are kept at various points.

Photograph of Waste Collection Bin:



CHAPTER-VI STUDY OF RAIN WATER MANAGEMENT

The Rain Water falling on the terrace is used to increase the underground Water Table.

Photograph of Rain Water Collecting Pipe:



CHAPTER-VII STUDY OF GREEN & SUSTAINABLE PRACTICES

7.1 Pedestrian Friendly Road:

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

Photograph of Internal Road inside the College Campus:



7.2 Green Landscaping with Trees and Plants:

The College has maintained Lawn and Tree plantation in the campus. Photograph of Tree Plantation in the College campus:



7.3 Creation of Awareness about Plastic Free Campus:

The College has displayed posters emphasizing on importance of Not Using Plastic. **Photograph of Poster on Plastic Free Campus:**

