

# ENERGY AUDIT

STUDY PERIOD (TWO YEARS) 2020 – 2021 & 2021 – 2022

Sustainability study

## AUDIT REPORT

Studied for

**Kharagpur College**

OT Road, Inda, Kharagpur, Paschim Medinipur,  
West Bengal, India – 721305

Studied in the capacity of

Accredited with IGBC and Certified with ASSOCHAM GEM

Registered Architect & Green Building Professional



Studied by

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Valid till **March 2024**

## Disclaimer

The Audit Team has prepared this report for the **Kharagpur College** located at OT Road, Inda, Kharagpur, Paschim Medinipur, West Bengal, India – 721305 based on input data submitted by the College analysed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

These can be implemented phase wise or as a whole depending on the decision taken by the Hon'ble Management and College. The warranty or undertaking, expressed or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

The audit is a thorough study based on the inspection and investigation of data collected over a period of time and should not be used for any legal action. This is the property of Greenvio Solutions and should not be copied or regenerated in any form.

### Greenvio Solutions

*Developing Healthy and Sustainable Environments*

We are an Environmental and Architectural Design Consultancy firm

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## Introduction

### About the Institute and its history

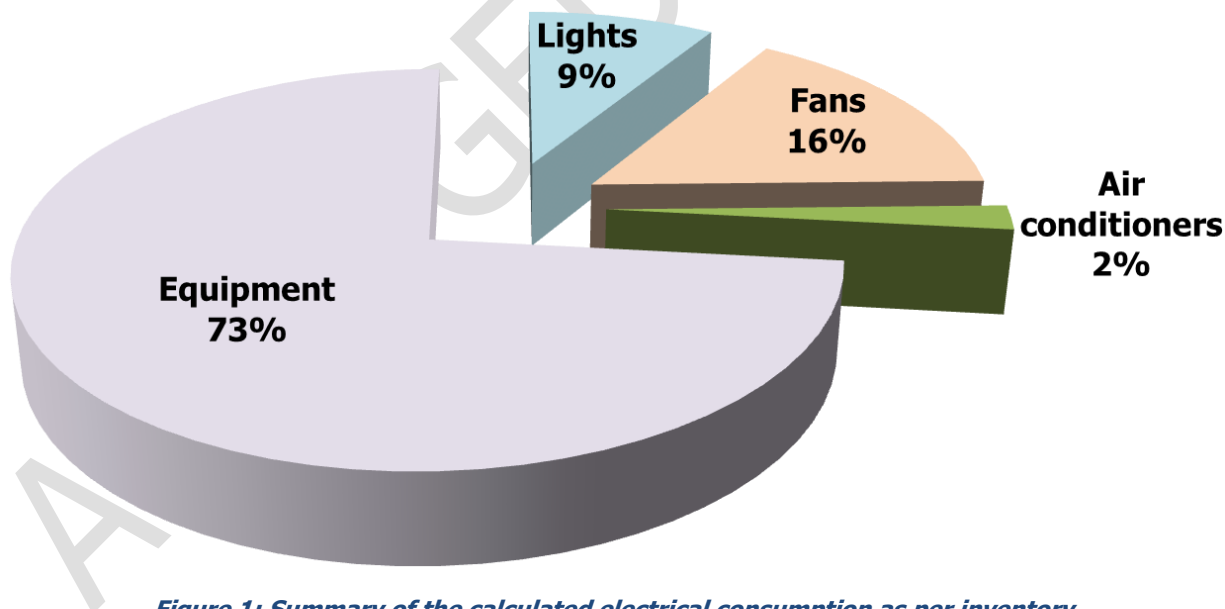
Kharagpur College is a highly esteemed co-educational academic institution offering UG & PG Courses in multifarious subjects. The College is situated on a lush sprawling campus at India.

### Total College Area & College Building Spread Area

The **total site area is 20.09 acres** & **total Built-up area of College is 1,80,187.86 sq. ft.** for around 3,763 populace footfalls.

## Energy Audit

The following analysis is combined for entire premise taking into considerations the duration as per schedule and usage of the premises.



*Figure 1: Summary of the calculated electrical consumption as per inventory*

The above graph shows that equipment consumes 73% whereas the fans consume 16% while the lights consume 9% and the air conditioners consume 2% of the total calculated electrical energy.



