

ENERGY AUDIT

STUDY PERIOD (TWO YEARS) 2020-2021 AND 2021-2022

Sustainability study
AUDIT REPORT

Studied for
Arya Vidya Sabha's
Dayanand Arya
Kanya Mahavidyalaya
Near Janta Hospital, Jaripatka,
Nagpur, Maharashtra – 440014

Studied in the capacity of
An accredited & Certified Green Building Professional



Studied by

Greenenvia
Solutions

Valid till **December 2023**

Disclaimer

The Audit Team has prepared this report for the **Arya Vidya Sabha's Dayanand Arya Kanya Mahavidyalaya** located at near Janta Hospital, Jaripatka, Nagpur, Maharashtra – 440014 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

Sustainable Academe is our department for conducting Audits

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Introduction

About the Institution

The college is dedicated to the upliftment of socially and economically backward girls. The aim of our college is to develop the intellectual, physical, and mental faculties of the students. The management body also tries its level best to help as many girls as possible to attain higher education with their generous help and motivation. The college provides safe & healthy environment to the girls in which they can undertake any curricular or co-curricular activities whole heartedly for their all-round development.

Assessment of the College

Affiliations

- The College has all its courses approved and affiliated to **the Rashtrasant Tukadoji Maharaj Nagpur University, Maharashtra state.**
- **AISHE** – The College has the AISHE Code C-18873.

Total College Area & College Building Spread Area

The **total site area is 2 Acres** and the **total Built-up area of College is 84,570 sq. ft. for a total of 845 footfalls.**

Energy Audit

The following analysis is combined for entire premise taking into considerations the duration before pandemic to understand the consumption pattern as post pandemic the premise is used only for a few hours.

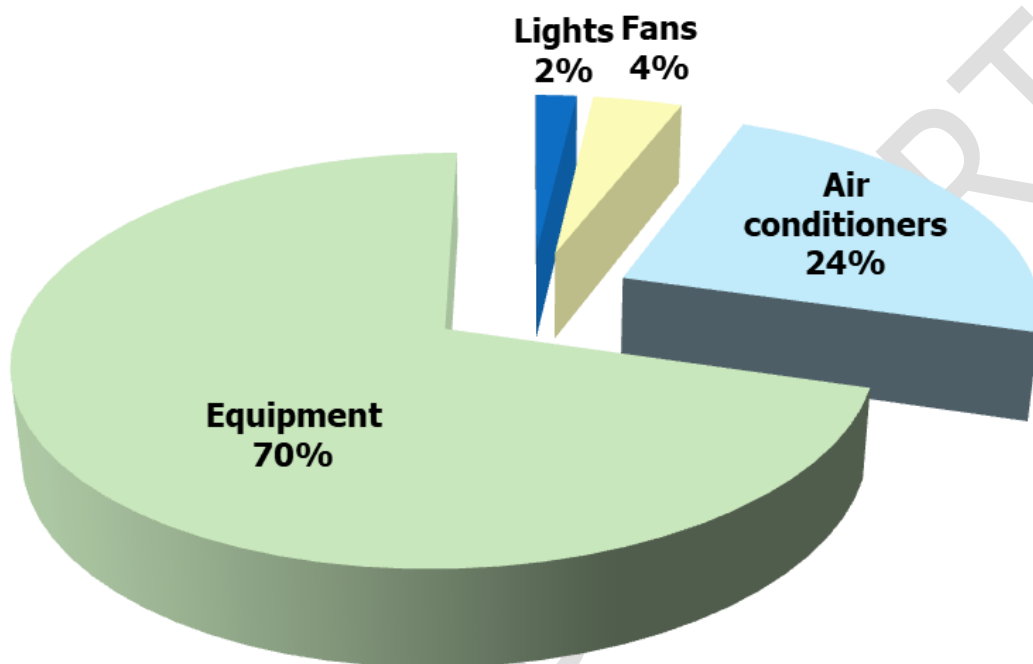


Figure 1: Summary of the calculated electrical consumption as per inventory

The above graph shows that Equipment consumes 70% followed by air conditioners at 24% whereas the fans consume 4% and the lights consume 2% of the total calculated electrical energy.

