

# ENERGY AUDIT

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

Sustainability study

## AUDIT REPORT

Studied for  
Chittrotpala Sikshan Samiti's  
**Seth Phoolchand**  
**Agrawal Smriti Mahavidyalaya**  
Nawapara, Rajim, District Raipur, Chhattisgarh - 493881

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 **Chittrotpala Sikshan Samiti's Seth Phoolchand Agrawal Smriti Mahavidyalaya** located at Nawapara, Rajim, District Raipur, Chhattisgarh – 493881 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.

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## Greenvio Solutions

*Developing Healthy and Sustainable Environments*

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## Introduction

### About Seth Phoolchand Agrawal Smriti Mahavidyalaya

The College is one of the oldest in the region and run by Chitrotpala Shikshan Samiti. The main aim of the samiti is primarily to cater to the educational needs of all sections of students and develop their personality to become a responsible citizen. The College was envisioned as an institution that would inculcate strong human values along with modern knowledge, so as to fulfil the motto.

A committed and supportive management, dedicated teachers, caring and co-operative parents blend harmoniously to create a student centric college. The official and unofficial feedback of students, alumni, parents, educationists, IQAC, Local Managing Committee and industry experts helps in the move towards excellence.

- Dr. Shobha Gawri, Principal

### Assessment of the Institute

The College has received

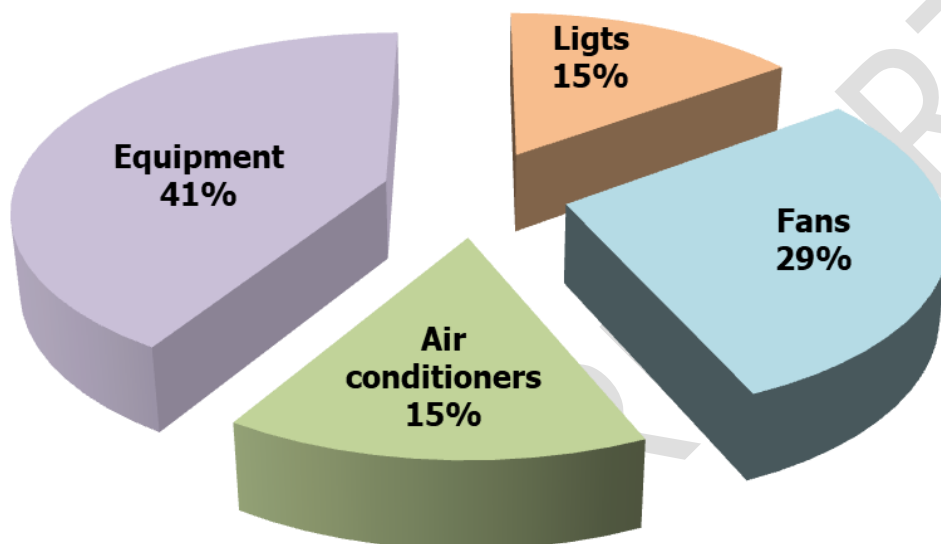
- AISHE Code - 21761 since 2016
- It has been part of NIRF rankings
- It has received UGC 2f and 12(B)

### Total Institute Area & Institute Building Spread Area

The **total site area is 5 acres** and the **total Built-up area of the Institute is 65,098 sq. ft.** for an approximately **1,873 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; the equipment study has been excluded for statistical purposes.



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

The above graph shows that equipment consumes 41% whereas the fans consume 29% the air conditioners and lights consume 15% each currently at the site.

