

ENERGY AUDIT

STUDY PERIOD (TWO YEARS) 2020-21 & 2021-22

Sustainability study

AUDIT REPORT

Studied for

Shikshana Prasarak Mandal's

Ramnarain Ruia Autonomous College

L. Nappo Road, Matunga, Mumbai - 400019



Studied by

Greenenvia
Solutions

Valid till May 2023

Disclaimer

The Audit Team has prepared this report for the **Shikshana Prasaraka Mandali's Ramnarain Ruia Autonomous College** located at L. Nappo Road, Matunga, Mumbai - 400019 based on input data submitted by the College and analyzed 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 a 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

We are an Environmental and Architectural Design Consultancy firm

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Introduction

About Shikshana Prasaraka Mandali

Founded in 1888, Shiksha Prasaraka Mandali is one of the pioneers of educational societies in our state. The institution since its inception is determined to build an environment that encourages the spirit of free-thinking, thus imparting quality education to more than 45,000 students.

S.P. Mandali owns educational institutions including pre-primary, primary, secondary, and higher secondary schools, colleges for Arts, Science, and Commerce, a school for hearing impaired children, a therapeutic drug monitoring laboratory, and an institute carrying out research in Ayurvedic and Herbal Medicine and management institutes.

Assessment of the College

NAAC - The following are details of the reaccreditation of the College.

Cycle	First	Second	Third	Fourth
CGPA	NA	NA	3.65	3.70
Grade	Four star level	A Level	A	A+
Year	1999	2007	2012	2017

Table 1: NAAC Accreditation details of the Institute

The College is due to enter its Fifth cycle of NAAC.

Total College Area & College Building Spread Area

The **total site area is 2 acres** and the **total Built-up area of the College is 1,12,062 sq. ft.** for a **total of 3,561 footfalls.**

Energy Audit

The following analysis is combined for the entire premise taking into consideration the duration before the pandemic to understand the consumption pattern on a regular day.

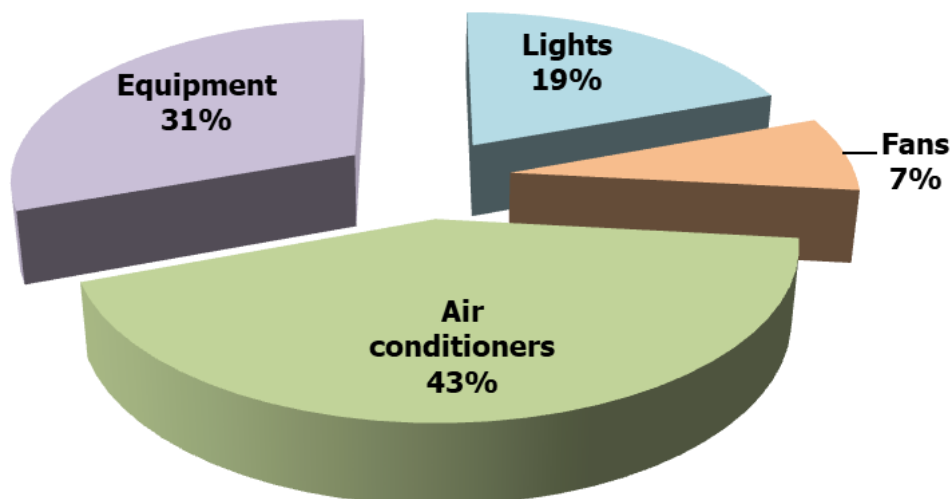


Figure 1: Summary of the calculated electrical consumption as per inventory

The above graph shows that air conditioners consume 43% followed by equipment at 31% lights at 19% and the fans consume 7% of the total calculated electrical energy.

