

# ENERGY AUDIT

2019-20 & 2020-21

## AUDIT REPORT

Studied for

Karnataka Rashtriya Education Society's

**Karnatak Arts, Science  
and Commerce College, Bidar**

Hyderabad Road, Bidar (Karnataka), India - 585 401

Analysed by



**29 April 2022**

# Disclaimer

The Audit Team has prepared this report for the **Karnataka Rashtriya Education Society's Karnatak Arts, Science and Commerce College, Bidar** located at Hyderabad Road, Bidar (Karnataka), India - 585 401 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 the Karnataka Rashtriya Education Society

It was established in 1942. It is the master mind of Shri R.V. Bidap who founded the Society under the name of "Karnatak Rashtirya Education Society Bidar", its aim is to:

- To establish, run, maintain and expand various types of educational institutions and ancillary establishments including hostels libraries.
- To organize mobile libraries, clubs or academic interest and take steps to spread adult education especially in backward classes.
- To organize and conduct cultural activities
- To create K.R.E. Society's trust vesting all immobile assets of the society in it.

### Assessment of the College

**NAAC** - The following are details of the accreditation of the College.

Cycle	First	Second	Third
<b>CGPA</b>	-	3.05	3.24
<b>Grade</b>	B+	A	A
<b>Year</b>	2004	2012	2017

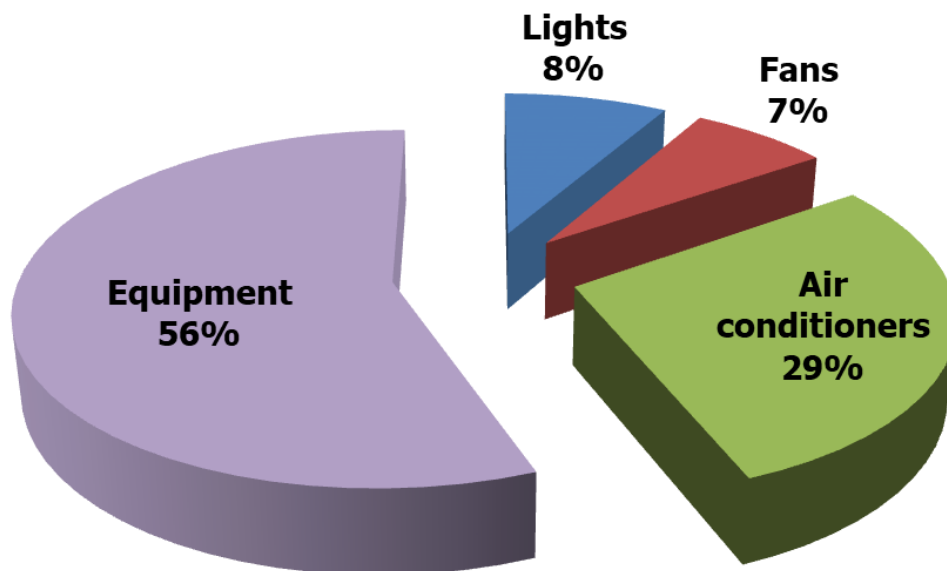
*Table 1: NAAC Accreditation details of the Institute*

### Total College Area & College Building Spread Area

The **total site area is 5.1 Acres** and the **total Built-up area of College is 81,085 sq. ft.** for a total of **2,157 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 60% followed by air conditioners at 31% the lights at 8% and the fans consume 7% of the total calculated electrical energy.

