

# ENERGY AUDIT

## 2019-21

## AUDIT REPORT

Studied for

**St. Xavier's Education Society's  
St. Xavier's Institute of Education**

40-A, New Marine Lines, Mumbai - 400020

Analysed by



**9 December 2021**

## Disclaimer

Green Audit Team has prepared this report for the **St. Xavier's Education Society's St. Xavier's Institute of Education, 40-A, New Marine Lines, Mumbai - 400020** 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 St. Xavier's Institute of Education

Before the Institute came to be located in the present premises at Churchgate, it started out in the premises of St. Xavier's College in June 1953. In 1953, when the Institute was granted affiliation to Bombay University, Fr. Angel Solagran started the B.Ed. Degree Course. He was the architect and founder of SXIE and SXBA and its first Superior and Principal. In 1955, it took over the Dip. Ed. Course from St. Xavier's College and for a long time was the only college affiliated to the Bombay University to run this course, till its discontinuance by the University in 1977.

The College has completed 68 years as a Teacher Education College par excellence, with alumni ranging from Principals of various colleges, a Vice Chancellor of Mumbai University and Heads of Department of Education. The College aims at imparting Quality Teacher Education and all round development.

**It is one of the oldest Government aided Teacher Education College for the course of B.Ed in Mumbai.**

### Assessment of the College

**University** - The institution is affiliated to Mumbai University.

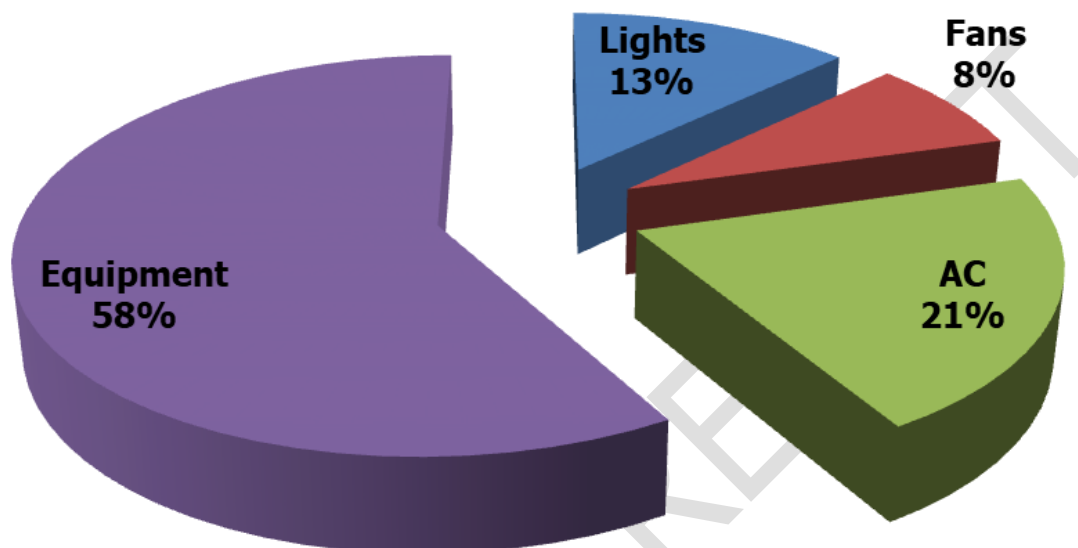
**Recognition** – It is recognized by the National Council for Teacher Education (N.C.T.E.)

### Total Institute Area & College Building Spread Area

**The total site area is 0.347 acres** and total built-up area for Third, fourth and Fifth floor is 1,603 sq. m or 17,248.28 sq. ft. In the floor plans shared by the College the Ground floor which is common to School and College is also considered, **thus total built-up area of College is 21,444.68 sq. ft.** for approx. 64 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 58% followed by AC at 21% Lights at 13% and Fans at 8% of the total calculated electrical energy.

