

**NUR MOHAMMAD  
SMRITI  
MAHAVIDYALAYA**

**DUCK-BANGLOW, DHULIYAN**

**DIST.: MURSHIDABAD**

**WEST BENGAL - 742202**

**Energy  
Audit  
2023- '24**



## Energy Audit

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### Energy Audit team

1. Dr. Rajesh Das
2. Dr. Amit Bhowmik
3. Md. Mostak Azad
4. Md Modan Mondal

### Preface

Data collection for Energy Audit of Campus was conceded by a team mentioned before for the period of April 2023 to March 2024. This audit was undertaken as a convenience to know progress of the college regarding energy competence. To minimize energy utilization, this audit required to recognize mainly energy efficient appliances. The data was collected from each Classroom, Library, Administrative office. In this data, total number of Tube Light, Computers, LED Bulbs, Fan, all other electric instruments etc. was taken into consideration.

### Objective of Energy Audit

When the object of study is an occupied building then reducing energy consumption while maintaining or improving Students and Staff comfort, health and safety are of primary concern. Beyond simply identifying the sources of energy use, an energy audit seeks to prioritize the energy uses according to the greatest to least cost-effective opportunities for energy savings.

### Introduction

Energy auditing applies the law of conservation of energy. It simply means that we can account for energy because it is neither created nor destroyed in the facilities and systems we operate.

In the last several decades, energy audits have exploded as the demand to lower increasingly expensive energy costs and move towards a sustainable future have made energy audits greatly important. Their importance is magnified since energy



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spending is a major expense everywhere. Audits performed externally tend to focus on energy-saving technologies and capital improvements. It also reveals energy-saving opportunities that are less capital intensive and focus more on operations. Organizations that conduct an energy audit internally gain considerable experience in how to manage their energy consumption and costs. By going through the auditing process, one can understand that energy is a manageable expense. The people become able to analyze use of energy and are more aware of how their day-to-day actions affect energy consumption.

An energy audit is the key to developing an energy management program. Although energy audits have various degrees of complexity; the audit is designed to determine how energy is being used. This information can then be used to identify opportunities to improve efficiency, decrease energy costs and reduce greenhouse gas emissions that contribute to climate change. Energy audits can also verify the effectiveness of energy management Programs that have been implemented. Energy audits can be done using internal resources.

In the present study, Institutional electricity audit has been done. Exact contribution of bulb, Tube Lights, Fans, Computer, Instruments etc. in the total requirement of electricity are considered. We studied all these mentioned things by collecting exact data form survey.

### Electric Connections

We have one meter for college campus. Followings are the particulars of thatv meter.

- Meter No. : LT538587
- Consumer Id: 313284126

### Data Collection

All required data is collected by the team for the survey of the college. In all Buildings, in Every Class rooms and Departments, how many Fans, Tube lights CFL Bulbs, Computer, Printer and other instrument on electricity etc. were measured. According to survey following data is collected.

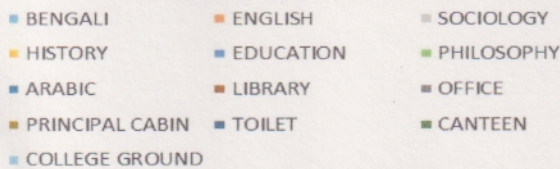
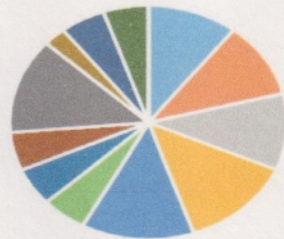


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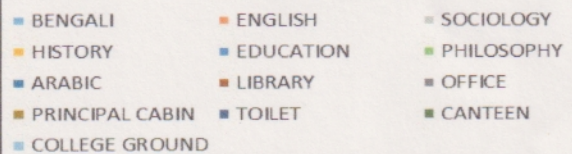
## Energy Audit

Dept.	No. of Tube Light	No. of Led	No. of Fan	No. of Computer	No. of Printer	No. of Exhaust Fan	No. of Projector	No. of Fridge	Instruments	Total Watt
BENGALI	16	10	24	01	01	02	0	0	0	
ENGLISH	16	10	24	01	01	02	0	0	0	
SOCIOLOGY	16	10	24	01	01	02	0	0	0	
HISTORY	20	18	30	01	01	02	0	0	0	
EDUCATION	20	18	20	01	01	04	0	0	0	
PHILOSOPHY	8	8	12	01	01	0	0	0	0	
ARABIC	08	08	12	01	01	0	0	0	0	
LIBRARY	08	20	12	04	02	02	0	0	0	
OFFICE	20	04	12	04	04	02	0	0	0	
PRINCIPAL CABIN	04	03	03	01	01	01	0	0	0	
TOILET	08	20	0	0	0	0	0	0	0	
CANTEEN	08	04	10	0	0	1	0	0	0	
COLLEGE GROUND	0	16	0	0	0	0	0	0	0	

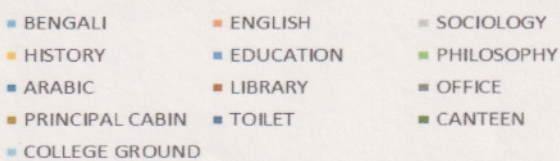
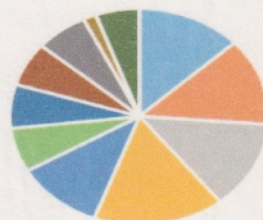
No. of Tube Light



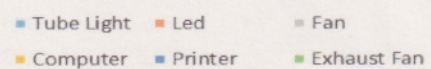
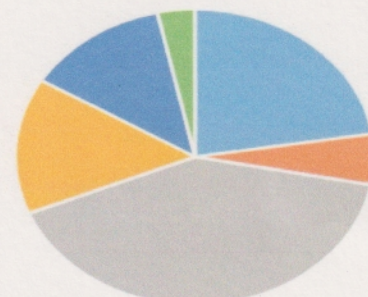
No. of Led



No. of Fan



Wattage used





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## Energy Audit

### Observation

Electricity is the main energy source for the college. Computers are run in power saving mode. Unnecessary consumption of power is not allowed and all switches are carefully operated.

### Conclusion

Energy audit is an effective tool in identifying and perusing a comprehensive energy management program. A careful audit of any type will give the organization a plan with which it can effectively manage the energy consumption at minimum cost. Through this analysis, suggestion/ recommendations has been made to reduce the electrical power consumption in the college campus.

### Energy Audit Committee:

1. Rajesh Das .....
2. Abh Bhronid .....
3. Ud Mastak Azad .....
4. Medan Mondal .....

Checked and Signed by External Expert

Signature: Probhas Kr Das

Name: PROBHAS KR DAS

Designation:

**Probhas Kr Das**  
E S C C No 15371  
D F E (W B)

Rajesh Das .....

Dr. Rajesh Das

Principal

Nur Mohammad Smriti Mahavidyalaya,  
Murshidabad

Principal  
Nur Mohammad Smriti Maha-Vidyalaya  
Duck Banglow, Dhuliyon, Msd