



ENERGY AUDIT REPORT 2021-22



**BABA BHAIRABANANDA AUTONOMOUS MAHAVIDYALAYA
CHANDIKHOLE, JAJPUR, ODISHA-755044**

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Chapter-I

INTRODUCTION

Energy audit report is a report in which the study of energy flows for the purpose of conservation is examined at college campus. It states to a technique which needs to reduce the amount of energy consumption in college campus without impacting the output. The audit includes recommendations of alternative means and methods for achieving energy savings to a greater extend. The main objective of an energy auditing consumption is to reduce energy consumption in different departments, office, hostel with campus of the college.

Chapter-II

OBJECTIVES

1. To know month wise unit of energy consumption in college campus.
2. To examine electrical appliances used in different departments, office and hostel in college campus.
3. To analyse month wise expenditure on electricity consumption in college campus.
4. To examine the sources of electricity consumption.
5. To suggest suitable measures for reducing energy consumption.

Chapter-III

ANALYSIS OF ENERGY CONSUMPTION

3.1. Energy Consumption in College Campus:

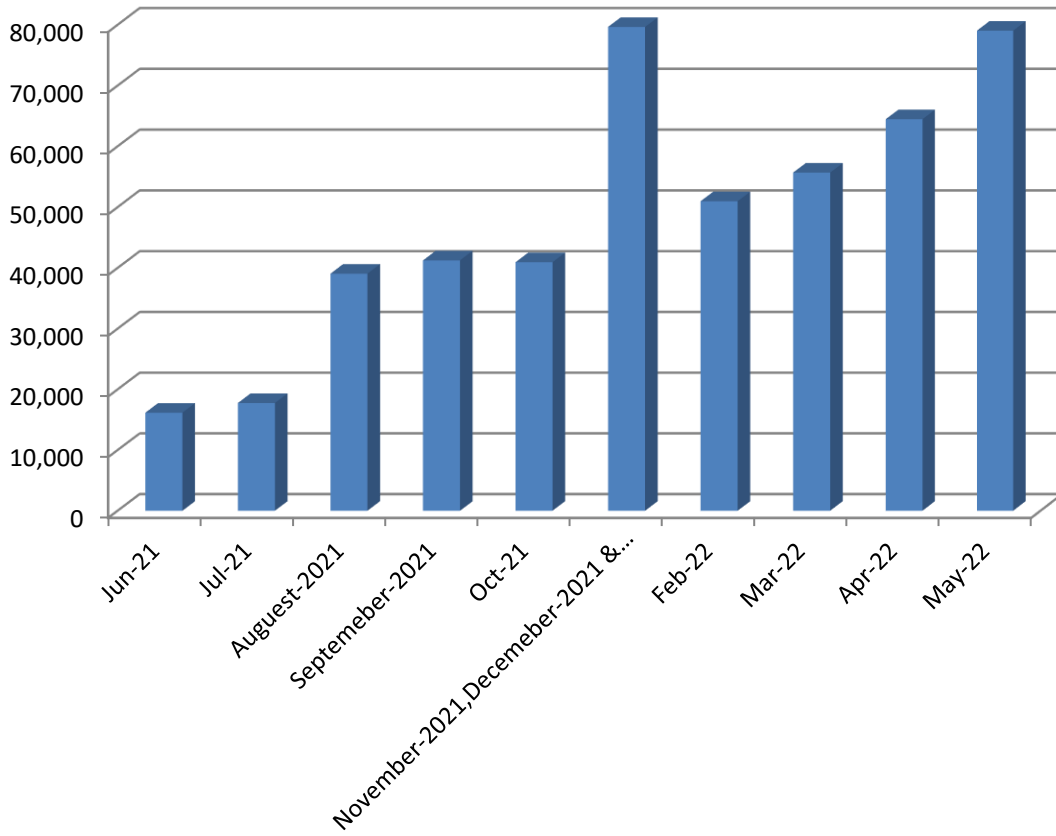
The source of energy in the campus of the college is the general electric supply from TP Northern Odisha Distribution Limited (TPNODL). The average energy consumption unit per month by different Departments, Office and Boys and Girls Hostel located in the campuses of the college is 6294 for the session of 2021-22. The total expenditure on electric city consumption in the college campus for the session is Rs.4,84,913.65/-.

The electricity consumption expenditure is given in table-1 as follows:

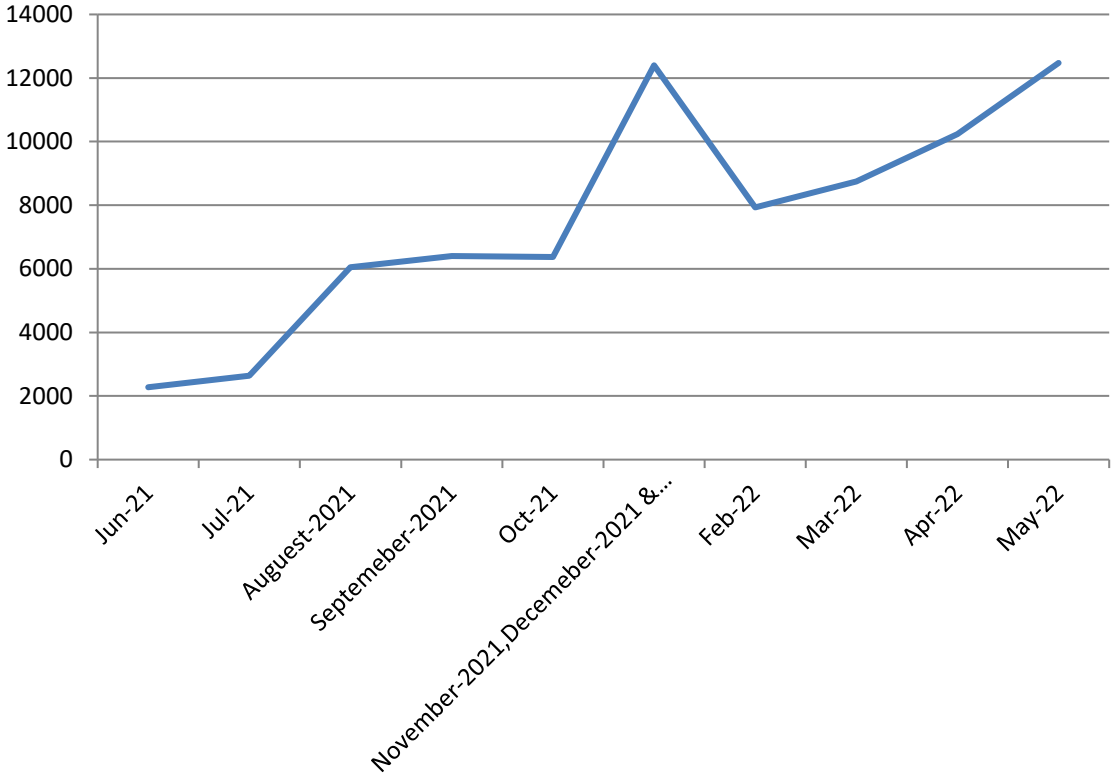
Table-1: Electricity Consumption Expenditure.

Month	Unit	Amount(Rs)
June-2021	2276	16,158
July-2021	2641	17,755.37
August-2021	6049	39,051.48
Septemeber-2021	6407	41,236.58
October-2021	6374	40,935.05
November-2021,Decemeber-2021 & January-2022	12403	79,646.03
February-2022	7927	50,970.14
March-2022	8743	55,679
April-2022	10236	64,457
May-2022	12475	79025
Total	75531	4,84,913.65

Electricity Consumption Expenditure (Rs.) at College Campus



Electricity Consumption(Unit) at College Campus





Diesel Generator at College Campus



Use of Inverter in front of Principal Chamber



Use of LED bulb at College



Use of Air Conditioner at Designated Place



Solar Energy source at College Campus

Chapter-IV

Conclusion

Considering the fact that the college is a well-established, long time run establishment with good reputation, there is significant scope for conserving energy and make the campus as self-sustained in it. The energy conservation initiatives taken up by the college are substantial. Energy efficient lighting and necessary power backups are being practiced by the college. Few recommendations, in addition, can further improve the energy savings of the college. This may lead to the prosperous future in context of Energy Efficiency Campus and thus sustainable environment and community development to the stakeholders in coming years to come.

Chapter-V

Recommendations

1. More number power of solar energy may be installed in college campus.
2. More LED Bulb/Tube may be used.
3. Lighting controlling switches may be maintained.
4. More number of power saving consumption A.C may be replaced.
5. Use fans whenever required.
6. Use light whenever necessary.

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