

Energy Audit Report

Introduction:

Sir Rashbehari Ghosh Mahavidyalaya was established through a notification of the Government of West Bengal (Memo No. 608-Edn 9CS)/4C-60/10, dated 05.08.2010). The College got its conditional affiliation when the University of Burdwan directed to start the academic programme through its Letter No. IC/Affln/P/179/518, dated 18.08.2010. The college is surrounded by greenery. At its inception, the College offered a three-year degree Course in Arts with the subjects available – Bengali, English, History, Political Science and Sanskrit in the Academic Session 2010-2011. Eventually, the College was started on 15th September, 2010 with 59 students, 5 temporary teaching staff and 2 temporary non-teaching staff in the building of Ukhrid High School (Morning Shift). The building of the College was initiated through a grand ceremony on 10th October 2010 in the presence of the then Chief Minister of the Government of West Bengal. Further development occurred when the College got permission from the University of Burdwan to start Honours Course in English and History. From the Academic Session 2013-2014, three more subjects were added to the honours courses – Bengali, Political Science and Sanskrit and one more subject was added to the general courses - Philosophy. From the Academic Session 2016-2017, Philosophy Honours and Education General were also introduced. The College is now offering six Honours and seven General Courses to almost 250 students with the help of a Principal, five Assistant Professors, 17 SACTs, a temporary Clerk and a temporary Office Bearer. The College is still suffering from severe infrastructural and financial problems.

Executive Summary:

In accordance with the Format of Energy Audit and Evaluation Plan of Sir Rashbehari Ghosh Mahavidyalaya

Ukhrid, Khandaghosh, Purba Bardhaman 713142 for the year 2021-'22. This audit was conducted in the month of March 2022.

Significant observation:

- College has prepared energy usage policy and the utilities. They have taken efforts for sustainable development strategy.

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- College has formed an efficient audit team comprising of the teachers and staff of the college who conducts the study thoroughly and regularly and prepares a detailed report with specific suggestions.
- Installations of energy efficient star rated devices, LED lighting system is completed and all the new installations are as per the regulations and standard of the National Electrical Code (NEC) in India.
- College has processed the installations of roof top Solar PV system.
- Some of the good practices of switching off the light and fans when not in use and installations of automatic switching system is suggested.

However, after detailed examinations of the report and physical verification it is noted that, some of the practices are required to be followed or added by the College in implementing the energy Policy of the institution and the applicable standards. In addition, certain processes could benefit from further review in order to improve their efficiency, fairness and consistency.

- Permissible Load
- Load distribution
- Energy consumption by the electrical appliances

SL	Electrical Devices	Number	Power (Watt)	Usage Time (Hr / Day)
1	Normal Tube light	20	40 watt	10 AM to 5 PM
2	LED Tube light	54	20watt	10 AM to 5 PM
3	Normal Bulb	02	60watt	10 AM to 5 PM
4	LED Bulb	14	09watt	10 AM to 5 PM
5	Ceiling Fan	72	52watt	10 AM to 5 PM
6	Stand Fan	02	160watt	10 AM to 5 PM
7	LED Metal	03	130watt	6 PM to 6 AM
8	Exhaust Fan	01	65watt	10 AM to 5 PM

Details of Water Consumption:

Description	2021-22
Capacity of Rain Water Harvesting	NIL
Total Water Consumption	1201 lit
Total Water Bill	Rs 990/-

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Details of Energy Consumption:

Description	2021-22
Total Energy Generated in Campus	NIL
Total Energy Consumed based on Electricity Bill	1403 KW

Statement of Assurance:

In our professional judgment, as far as possible and appropriate audit procedures were completed and evidence gathered to support the accuracy of the conclusions reached and contained in this report. We hope that the time to time Energy Audit will provide an accurate snapshot of the college's betterment at this point in time, and that it will aid the campus in prioritizing positive steps it can take to improve overall sustainability. We intend this document to be revisited annually and updated by the college..

Recommendations:

The proposal of solar PV installations is required to be expedite.

All new installations must be at per the regulations and standard of NEC of India.

Amalish Kr. Mandal 

MANAGEMENT SYSTEM CONSULTANCY

Authorization:

- ISO 14001:2015 (Environment) (CQI-IRCA Delegate ID: 173839, Certificate No. 46957) Lead Auditor Certificate
- ISO 9001:2015 (Quality) (NABET Accredited, Certificate No. IRCLASS/QMS/2016/02/03/01 of 07) Lead Auditor Certificate
- ISO 45001:2018 (OHSAS) (CQI-IRCA Delegate ID: 111285, Certificate No. 44532) Lead Auditor Certificate.
- ISO 50001:2018 (Energy) (CQI-IRCA Delegate ID: 218048, Certificate No. ENR-00728617) Lead Auditor Certificate
- Certified PG Diploma in Environment and Sustainable Development (En Roll No-BU/13/706432) from Bundelkhand University.
- Certified PG Diploma in Fire and Safety Management from Jawaharlal Nehru Technological University Hyderabad (Cert. No. 15359120506)

Declaration

I agree with the all observations and recommendations mentioned in the report.

Rashbehari Ghosh
PRINCIPAL
Sir Rashbehari Ghosh Mahavidyalaya
Utkhrid (Khandaghosh)
Purba Bardhaman, W.B.-713142

SIR RASHBEHARI GHOSH MAHAVIDYALAYA

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