

# Guru Nanak College, Budhlada

NAAC Accredited 'A' Grade,  
Under the management of S.G.P.C. Sri Amritsar Sahib  
Affiliated with Punjabi University, Patiala & Approved by AICTE

## ENERGY AUDIT REPORT 2018-19

PRINCIPAL  
DR. KULDIP SINGH BAL

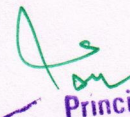


*Dr. Kuldip Singh Bal*  
Principal  
Guru Nanak College  
BUDHLADA

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## Energy Audit Team

We, the external Energy Audit Committee members carried out the Energy Audit of Guru Nanak College Budhlada- 151502 (Mansa) Punjab for session 2018-19, assessed the energy consumption and energy conservation practices conducted in the Campus and supporting documents presented by the internal committee were examined and certified.

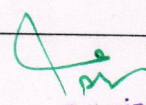
## Internal Committee

1. Dr.Narinder Singh, Coordinator IQAC
2. Dr.Gurjasjeet Kaur, Assist. Prof. Department of English
3. Dr. Rishi Kumar, Assist. Prof. Department of Physics
4. Dr.Hardeep Singh, Assist. Prof. Department of Physics

## External Committee

Sr. No.	Name and Designation	Signature
1.	Dr.Ramneek Kaur Department of Physics, Mata Gujri College, Fatehgarh Sahib (Punjab)	
2.	Dr.Rajpal Singh Department of Physics, Government Rajindra College, Bathinda (Punjab)	
3.	Sh. Jagmail Singh Rtd. S.D.O. PSPCL Budhlada (Punjab)	



  
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## 1. Introduction

An energy audit is a survey in which energy consumption is examined in the Organization, for the purpose of energy conservation. The audit includes suggestions of alternative means and methods for achieving energy savings to a larger extent. In general, the primary objective of an energy auditing and management of energy consumption is to offer services at the lowest possible cost and with the least impact on environmental. The purpose for an energy audit is to identify the savings potential and cost reducing methods, understand the ways in which energy is used and find the scope for improvement.

Energy Audit is defined as "the verification, monitoring and analysis of use of energy including submission of technical report containing recommendations for improving energy efficiency with cost benefit analysis and an action plan to reduce energy consumption".

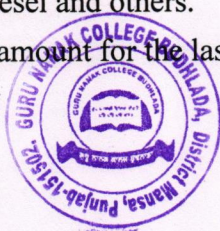
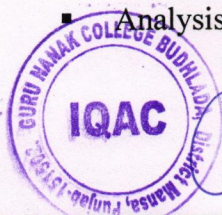
## 2. Need for an Energy Audit

The energy management function constitutes a strategic area for cost reduction. Energy Audit will help to understand more about the ways energy and fuel are used, and help in identifying the areas where waste can occur and where scope for improvement exists. The Energy Audit would give a positive orientation to the energy cost reduction, preventive maintenance and quality control programmes. In general, Energy Audit is the translation of conservation ideas into realities. The primary objective of Energy Audit is to determine ways to reduce energy consumption per unit of product output or to lower operating costs. Energy Audit provides a Reference point for managing energy in the organization and also provides the basis for planning a more effective use of energy throughout the organization. It also increases overall consciousness among the people working in institution towards an environment.

## 3. Aims and Objectives of an Energy Audit

An energy audit is a useful tool for developing and implementing comprehensive energy management plans of an Organization. The aim of an energy audit is to identify the energy efficiency, conservation and savings opportunities at the premises of the audit sites in a systematic manner. The audit process is carried out as per the following.

- Identification of additional various energy conservation measures and saving opportunities.
- Implementation of alternative energy resources for energy saving opportunities and decision making in the field of energy management.
- Detailed analysis on the calculation of energy consumption.
- List ways that the use of energy in terms of electricity, electric stove, kettle, microwave, LPG, Petrol, diesel and others.
- Analysis of electricity bill amount for the last years.



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