




## Contents

Preface	3
Vision & Mission	5
Executive Summary	6
Green Audit 2021, Procedures & Priorities.	8
Layout of Building Premises.	12

## Component Audit

1. Energy Audit	13
2. Use of Renewable Energy	15
3. Water Audit	16
4. Natural Environment – Bio diversity Audit	16
5. Transportation & Environmental Quality	19
6. Carbon Foot Print	21
Green Audit Certificate	27
Green Audit Compliance Statement	28
Acknowledgement	29
Photo Gallery	

S. G. Gounhalli  
HOAC Coordinator  
Smt. Veeramma Gangasiri  
College for Women  
Kalaburagi - 585 102

  
PRINCIPAL  
Smt. Veeramma Gangasiri  
College for Women  
Kalaburagi - 585 102

**GREEN AUDIT OF SMT VG COLLEGE OF WOMEN KALABURAGI**

*Green is the colour of Nature Implied it,*



## 1. Energy Audit

Year by year, the electrical energy of this college and Sustainability Audit identified immediate and no cost, low cost and high cost options that can be pursued Table-1. The VG College has advised to be act continuously on the first three opportunities during the year 2021, which are as follows:

1. Minimise the phantom load in the electrical system. Immediate returns will come with practically no investment. Replace the existing multiple units of UPS system for computers by properly optimized single unit UPS system.
3. Replace existing ordinary tube lights and CFLs with LED lights in the Guest House and in the Hostels. Bring down the consumption without reducing illumination levels or human comfort.

Phantom load is the energy that will be measured by energy meters, even when the equipment is out of use. Computers, LCD projectors, Printers, Photostat machines, Fridges, TV units etc. which are normally hooked to the power line all the 24 hours, may be active only for part of the day. When not in use, unless they are isolated by switching off (not stopping by remote electronic controls), a small percentage of the full load will still be consumed and felt by the energy meter.

Most of them were under-loaded and idled for hours every day. Also, the batteries were old and very weak. Failure of any one UPS unit used to totally disable the devices connected to it, till it is set right. With the suggested new system, a single unit of sufficient capacity is connected in parallel mode to all the user outlets.

The following housekeeping measures required for achieving the cited gains were introduced during the Audit year:


- a) Displayed stickers to switch off equipment - like Computers, Printers, Photocopiers, etc. – when not required; also to isolate them from power supply, whenever possible.
- b) Maintenance schedules for switchboards and distribution boards prepared and followed.
- c) Log Books for recording energy consumption, extent of power failures and running of standby generators were introduced.
- d). Meters for sub-units for monitoring monthly energy consumption in every building to be Implemented in the immediate future.

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S. G. Gounkatti

IQAC Coordinator  
Smt. Veeramma Gangasiri  
College for Women  
Kalaburagi - 585 102

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PRINCIPAL  
Smt. Veeramma Gangasiri  
College for Women  
Kalaburagi - 585 102