



Founder



Karmaveer Bhausaheb Ambedkar

MAHATMA GANDHI VIDYAMANDIR'S PHARMACY COLLEGE

Approved by : All India Council of Technical Education (AICTE) and Pharmacy Council of India, New Delhi;
Recognized by : Director of Technical Education, Mumbai and Govt. of Maharashtra.
Permanently Affiliated to : Savitribai Phule Pune University, Pune (CPHN017660)
NBA Accredited (B Pharmacy), AISHE Code - C - 41939

7.1.3 Quality audits on environment and energy regularly undertaken by the institution.

The institutional environment and energy initiatives are confirmed through the following

1. *Green audit / Environment audit*
2. *Energy audit*
3. *Clean and green campus initiatives*
4. *Beyond the campus environmental promotion activities*

Action taken reports and achievement report as clear and green campus initiatives

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MGV's Pharmacy College
Panchavati, Nasik-422 003



Energy audit report 2021-22 and 2020-21 Action Taken Report

Sr. No.	Recommendations Suggested by the Auditor Team	Action Taken
1.	1. Executive Summary : A. Regular cleaning and maintenance of equipments is important to reduce energy losses.	Housekeeping staff appointed for cleaning
	B. Use of star rated equipment's is also strongly recommended specially in case of Fans and Air conditioning.	70 % equipments are star rated
	C. cleaning of ceiling fan and exhaust fan blades will reduce the drag on the fan and intern will reduce energy loss.	Cleaning staff appointed for the same
	D. Awareness amongst energy users is very essential step to reduce wastage of electricity.	Instructions given to staff & students
	E. Energy conservation awareness programs can be conducted once a year. Increasing energy Awareness of energy users motivates them to work as a team can lead to reductions in energy consumption and save the money.	Recommendation accepted
2.	5. Actual Measurements : It is recommended to install suitable size of active harmonic filter to suppress current total harmonic distortion.	Recommendation accepted
3.	6. Energy Conservation Measures : ECM 1 : Replacement of tube-light with suitable LED : During energy audit, it is observed that facility has installed 192 tube lights of 40 watt at different locations. Also, energy team at facility has already replaced some of the tube lights with CFLs the operating hours for these lightings are around 5 hours. Type of fixture and wattage with equivalent LED fixture there by achieving significant reduction in energy consumption. The LED's could be replaced in such manner that it has same fixture so there will not be retro fitting cost attached to the replacement. The replacement could be done in a phased manner. LED lights have better efficacy as well as better lifetime than conventional lights.	70 % campus equipped with energy saving LED lamps
	ECM 2 : Replacement of old fan with energy efficient super fan : During energy audit it is observed that facility has installed non star rated fans and exhaust fans so we recommend to replace energy consuming fan with energy efficient super fan.	



<p>ECM 3 : Replacement of no star AC with 5 Star AC : It is recommended to install 5 star ACs in phase manner. Here replacement of 12 ACs are considered so total investment is on higher side but it is always recommended to replace with phase manner.</p>	70 % ACs replaced with 5 star AC
<p>ECM 4 : Optimization of set temperature of ACs : 1. During assessment, it is observed that ACs set point was 20 - 21 degree Celsius. Hence, it is recommended to increase set temperature setting to 23 - 24° C as well as improve maintenance of AC frequency.</p>	Temp. set at 23 - 24° C
<p>2. It is known that, a 1 degree Celsius raise in evaporator temperature can help to save almost 3% on power consumption. 3. The TR capacity of the same refrigeration will also increase with increase in the evaporator temperature.</p>	Recommendation accepted
<p>ECM 5 : Optimize the power factor : To get the PF incentive, it is recommended to check the operation of each capacitor Bank installed once in a month and maintain the PF to Unity.</p>	Staff appointed



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