



KONGU ENGINEERING COLLEGE
(Autonomous)
PERUNDURAI, ERODE - 638 060,INDIA



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Ref: KEC/EA/2023-24/103

17.04.2023

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an Energy Audit in M/s.Paavai Engineering College, Namakkal, Tamil Nadu on 15th April 2023. The audit team has identified energy saving measures and the summary of Energy Audit Process is given below.

S.No.	Description	Parameters
1	Annual Energy/ fuel Consumption	223660 kWh, 90000 lt diesel, 120 cylinders
2	Annual Energy Cost	Rs 79,33,790
3	Energy Savings due to the installation of 150 kW roof top solar PV plant (Life cycle time = 20 years)	223660 kWh
4	Proposed annual Energy Savings	Rs 14,53,790
5	Initial Investment Required	Rs 54,00,000
6	Payback period	3.7 years

Equipment/Systems Audited

Electrical Network
Inverter, UPS and Battery System
Lightings, Fans & Air Conditioning System
LPG Consumption for Cooking Application
Transportation and Gen-set fuel Consumption

Audited and Accounted for April 2022 to March 2023

Yours Truly

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ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an Environmental Audit in M/s.Paavai Engineering College, Namakkal, Tamil Nadu on 15th April 2023. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

S.No.	Description	Type of fuel and their conversion process		
		Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	223660 kWh	90000 lt	120 nos.
2	CO ₂ Emission (tonne/Annum)	208	234	6.6
3	Total CO ₂ emission		448.6	
4	Total No. of students and staff		4002	
5	Per capita CO ₂ emission		0.112 T	
6	No. of Matured Trees		452	
7	CO ₂ neutralised due to trees		9.5 T	
8	Per Capita CO ₂ Emission to be Neutralized		0.109 T	

Systems Audited

- ✓ Electricity consumption and generation
- ✓ Diesel consumption
- ✓ LPG consumption

Systems Inspected

- ✓ Solid & E waste handling & Management
- ✓ Usage of chemical, salts & acids
- ✓ RO system
- ✓ Waste water treatment

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17.04.2023

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a **Green Audit** in **M/s.Paavai Engineering College,** Namakkal, Tamil Nadu on 15th April 2023. This audit process investigates the following activities;

- I) Coverage of matured trees and turfs
- II) Inspection of the water conservation measures
- III) Inspection of rain water harvesting methods
- IV) Waste disposal methods in use

Audited and Accounted for April 2022 to March 2023

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