



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



CERT No : 99-100-20788
ISO 9001 : 2015

Dr.T.Logeswaran, M.E., Ph.D

Associate Professor

BEE Certified Energy Auditor (Regd.No:EA13164)

Department of Electrical and Electronics Engineering

Phone : +91- 4294 - 226538

Mobile : 97877-33910

E-mail : logeskec@gmail.com

Ref: KEC/GA/2022-2023/331

14/11/2023

ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an **Environmental Audit** in **Excel Engineering College**, Komarapalayam, Namakkal, Tamilnadu on 30th October,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	622175.6 kWh(deducted181773.7kWh from solar)	68000 lit	2080 Nos.
2	CO ₂ Emission standards	0.95 kg/kWh	2.68 kg/lit	56.2 kg/cyl.
3	Total CO ₂ emission(tonne/Annum)	890.2		
4	Total No. of students and staff	3850		
5	Per capita CO ₂ emission per year	0.231 tonne (+)		
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)	360		
7	CO ₂ neutralised due to matured trees	7.92 tonnes		
8	CO ₂ to be neutralised per capita per year	0.229 tonnes(-)		

Systems Audited

- ✓ Electricity consumption
- ✓ Diesel consumption
- ✓ LPG consumption

Systems Inspected

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

Audited and Accounted for June 2022 to May 2023

Yours Truly

DR. T. LOGESWARAN, ASP

DEPT. OF ELECTRICAL & ELECTRONICS ENG.
KONGU ENGINEERING COLLEGE,
THOPPUPALAYAM (PO)
PERUNDURAI (TK), ERODE - 638 060



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ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit** in **Excel Engineering College**, Komarapalayam, Namakkal, Tamilnadu on 30th October,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	68000litres diesel,2080LPG cylinders &622175.6kWh electricity
2	Present Annual Energy Cost	Rs.1,44,07,685.30,874.00
3	Proposed cost savings per year due to the installation of 100 kW solar PV Plant	Rs. 12,15,000.00
4	Proposed cost Savings due to the replacement 100 fans with BLDC fans	Rs. 80,000.00
5	Proposed saving from improved maintenance of existing solar PV plant	Rs.3,53,750.00
6	Proposed cost savings per year from LPG cylinders by efficient usage	Rs. 35,000.00
7	Initial Investment Required	Rs. 35,00,000.00
8	Total savings ((3)+(4)+(5)+(6))	Rs. 16,83,750.00
9	Payback period in years	2.08

Equipment/Systems Audited

Electrical Network
Inverter, UPS and Battery System
Lightings, Fans & Air Conditioning System
Diesel Fuel Consumption

Audited and Accounted for June 2022 to May 2023

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GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a **Green Audit** in **Excel Engineering College**, Komarapalayam, Namakkal, Tamilnadu on 30th October,2023. The audit process investigates the following activities.

- I) Coverage of matured trees
- II) Reduction of heat island effects
- III) Inspection of the water conservation measures
- IV) Coverage of turfund landscape
- V) Water management efforts
- VI) Renewable energy implementation
- VII) Health and Well-being

Audited and Accounted for June2022 to May2023

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