INDUSTRY INSTITUTE PARTNERSHIP CELL



KONGU ENGINEERING COLLEGE

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Ref: KEC/GA/2022-2023/5912

07/12/2023

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a Green Audit in in Pandian Saraswathi Yadav Engineering College, Arasanoor, Thirumansolai Post, Madurai-Sivagangai Highway, Tamil Nadu-630 561 on 04th December, 2023. The audit process investigates the following activities.

- I) Coverage of matured trees
- II) Site Preservation
- III) Reduction of heat island effects
- IV) Inspection of the water conservation measures
- V) Pedestrian network
- VI) Energy efficiency
- VII) Health and well-being facilities

Audited and Accounted for June 2022 to May 2023

Yours Truly

Dr.T.Logeswaran

Certified Energy Auditor EA-13164, IGBC – AP, ISO 14001:2015 -Environmental Management Systems Lead Auditor

DEPT. OF ELECTRICAL & ELECTRONICS ENGG.
KONGU ENGINEERING COLLEGE,
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ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an Environmental Audit in in Pandian Saraswathi Yadav Engineering College, Arasanoor, Thirumansolai Post, Madurai-Sivagangai Highway, Tamil Nadu - 630 561 on 04th December, 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	116816 kWh	24861 lit	2470 kg
2	CO ₂ Emission standards	0.95 kg/kWh	2.68 kg/lit	2.983kg/k
3	Total CO ₂ emission(tonne/Annum)	184.97 tonnes		
4	Total No. of students and staff		737	
5	Per capita CO ₂ emission per year	0.25	1 tonne (+)	
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)	702		
7	CO ₂ neutralised due to matured trees (tonne/Annum)	15.44 tonnes		
8	CO ₂ to be neutralised per capita per year	0.23	3 tonnes(-)	

Systems Audited

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

Systems Inspected

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

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Ref: KEC/EA/2022-2023/5912

07/12/2023

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an Energy Audit in in Pandian Saraswathi Yadav Engineering College, Arasanoor, Thirumansolai Post, Madurai-Sivagangai Highway, Tamil Nadu -630 561 on 04th December, 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	24861 litres diesel, 2470 kg of LPG & 116816 kWh electricity
2	Present Annual Energy Cost	Rs.4032562
3	Proposed cost Savings due to the replacement 100 fans with BLDC fans	Rs. 75,000.00
4	Proposed cost Savings per year from LPG cylinders by efficient usage.	Rs. 34,000.00
5	Proposed cost savings per year due to the installation of 50 kW solar PV Plant.	Rs. 4,62,000.00
6	Initial Investment Required	Rs. 19,00,000.00
7	Total savings $((3)+(4)+(5))$	Rs. 5,71,000.00
8	Payback period in years	3.33

Equipment/Systems Audited

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

Audited and Accounted for June 2022 to May 2023

Yours Truly

Dr.T.Logeswaran

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DEPT. OF ELECTRICAL & ELECTRONICS ENGG. KONGU ENGINEERING COLLEGE, THOPPUPALAYAM (PO) PERUNDURAI (TK), ERODE - 638 080