

# INDUSTRY INSTITUTE PARTNERSHIP CELL

## KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE - 638 060, INDIA



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Ref: KEC/GA/2020-2021/5912

12/09/2021


### 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 2<sup>nd</sup> September, 2021. 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 turf and landscape

Audited and Accounted for June2020 to May2021

Yours Truly

  
DR. T. LOGESWARAN

DEPT. OF ELECTRICAL & ELECTRONICS ENGG.  
KONGU ENGINEERING COLLEGE,  
THOPPUPALAYAM (PO)  
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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 2<sup>nd</sup> September, 2021. This audit process highlights the present CO<sub>2</sub> 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	33910 kWh	--	--
2	CO <sub>2</sub> Emission standards	0.95 kg/kWh	2.68 kg/lit	2.983kg/kg
3	Total CO <sub>2</sub> emission(tonne/Annum)	32.21		
4	Total No. of students and staff	677		
5	Per capita CO <sub>2</sub> emission per year	0.0476 tonne (+)		
6	No. of Matured Trees (1 tree absorbs 22 kg CO <sub>2</sub> /year)	785		
7	CO <sub>2</sub> neutralised due to matured trees (tonne/Annum)	17.27 tonnes		
8	CO <sub>2</sub> to be neutralised per capita per year	0.0221 tonnes(-)		

#### Systems Audited

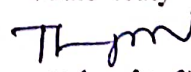
- ✓ Electricity consumption
- ✓ Diesel consumption
- ✓ LPG consumption

#### Systems Inspected

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

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Estd : 1984

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ISO 9001:2015

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**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 2<sup>nd</sup> September, 2021. 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	33910 kWh Electricity
2	Present Annual Energy Cost	Rs. 3,86,138.00
3	Proposed cost Savings due to the replacement 100 fans with BLDC fans	Rs. 78,750.00
4	Proposed cost savings per year due to the installation of 100 LED lights	Rs. 49,500.00
5	Proposed cost savings per year from LPG cylinders by efficient usage	Rs. 15,000.00
6	Initial Investment Required	Rs. 3,90,000.00
7	Total savings ((3)+(4)+(5))	Rs. 1,43,250.00
8	Payback period in years	2.72

**Equipment/Systems Audited**

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

Audited and Accounted for June 2020 to May 2021

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