INDUSTRY INSTITUTE PARTNERSHIP CELL

KONGU ENGINEERING COLLEGE





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

Phone

: +91- 4294 - 226538

Associate Professor

Mobile

: 97877-33910

E-mail

: logeskec@gmail.com

BEE Certified Energy Auditor (Regd.No:EA13164)

Department of Electrical and Electronics Engineering

Ref: KEC/GA/2019-2020/5912

10/01/2021

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 5th January, 2021. The audit process investigates the following activities.

- I) Coverage of matured trees
- II) Reduction of heat island effects
- Inspection of the water conservation measures III)
- IV) Coverage of turf and landscape

Audited and Accounted for June2019 to May2020

Yours Truly

Dr.T.Logeswaran Associate Professor

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

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(Autonomous) PERUNDURAI, ERODE - 638 060, INDIA



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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 5th January, 2021. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

	Description	Type of fuel and their conversion process		
S.No.		Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	93513 kWh	23982 lit	125 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)		160.13	
4	Total No. of students and staff		784	
5	Per capita CO ₂ emission per year	0.2	04 tonne (+)	
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)		680	
7	CO ₂ neutralised due to matured trees	14.96 tonnes		
8	CO ₂ to be neutralised per capita per year	0.1	85 tonne (-)	

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 2019 to May 2020

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10/01/2021

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 5th January, 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	23982 litres diesel, 125 cylinders of LPG & 93513 kWh electricity
2	Present Annual Energy Cost	Rs. 36,87,882
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. 13,000.00
6	Initial Investment Required	Rs. 3,74,000.00
7	Total savings $((3) + (4) + (5))$	Rs. 1,41,250.00
8	Payback period in years	2.64

Equipment/Systems Audited

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

Audited and Accounted for June 2019 to May 2020

Yours Truly

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PERUNDURAI (TK), ERODE - 638 060