

INDUSTRY INSTITUTE PARTNERSHIP CELL
KONGU ENGINEERING COLLEGE



Estd : 1984

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Department of Electrical and Electronics Engineering



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

Ref: KEC/EA/2018-2019/5912

07/08/2019

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an Energy Audit in Pandian Saraswathi Yadav Engineering College, Arasanoor, Thirumansolai Post, Madurai-Sivagangai Highway, Tamil Nadu - 630 561 on 3rd August, 2019. 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	116265 kWh electricity, 26980 Litres diesel & 2565 kg of LPG
2	Present Annual Energy Cost	Rs.42,50,742
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. 14,950.00
6	Initial Investment Required	Rs. 3,60,000.00
7	Total savings ((3)+(4)+(5))	Rs. 1,43,200.00
8	Payback period in years	2.51

Equipment/Systems Audited

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

Audited and Accounted for June 2018 to May 2019

Yours Truly

Dr.T.Logeswaran

Assistant Professor(Senior Grade)

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GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a **Green Audit in Pandian Saraswathi Yadav Engineering College, Arasanoor, Thirumansolai Post, Madurai-Sivagangai Highway, Tamil Nadu - 630 561** on 3rd August, 2019. 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 June 2018 to May 2019

Yours Truly

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07/08/2019

ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an Environmental Audit in Pandian Saraswathi Yadav Engineering College, Arasanoor, Thirumansolai Post, Madurai-Sivagangai Highway, Tamil Nadu - 630 561 on 3rd August, 2019. 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	116265 kWh	26990 lit	2565 kg
2	CO ₂ Emission standards	0.95 kg/kWh	2.68 kg/lit	2.983kg/kg
3	Total CO ₂ emission(tonne/Annum)	190.436		
4	Total No. of students and staff	940		
5	Per capita CO ₂ emission per year	0.203 tonne (+)		
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)	678		
7	CO ₂ neutralised due to matured trees (tonne/Annum)	14.916 tonnes		
8	CO ₂ to be neutralised per capita per year	0.186 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 2018 to May 2019

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