## INDUSTRY INSTITUTE PARTNERSHIP CELL

### KONGU ENGINEERING COLLEGE

# (Autonomous)





Estd: 198

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

Phone

Dr. I . Logeswaran, M

+91- 4294 - 226538 Assistant Professor (Senior Grade)

Mobile

: 97877-33910

BEE Certified Energy Auditor (Regd.No:EA13164)

E-mail

: logeskec@gmail.com

Department of Electrical and Electronics Engineering

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 3<sup>rd</sup> 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

TI\_m

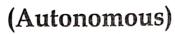
Dr.T.Logeswaran

Assistant Professor(Senior Grade)

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

# INDUSTRY INSTITUTE PARTNERSHIP CELL

# KONGU ENGINEERING COLLEGE



PERUNDURAI, ERODE - 638 060, INDIA



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

Phone

: +91- 4294 - 226538

Assistant Professor (Senior Grade)

Mobile

: 97877-33910

BEE Certified Energy Auditor (Regd.No:EA13164)

E-mail

: logeskec@gmail.com

Department of Electrical and Electronics Engineering

Ref: KEC/GA/2018-2019/5912

07/08/2019

#### **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 3<sup>rd</sup> 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

Dr.T.Logeswaran
Assistant Professor(Senior Grade)

JEPT. OF ELECTRICAL & ELECTRONICS ENGG.
KONGU ENGINEERING COLLEGE,
THOPPUPALAYAM (PO)
PERUNDURA! (TK), ERODE - 638 060

# INDUSTRY INSTITUTE PARTNERSHIP CELL



# KONGU ENGINEERING COLLEGE

# (Autonomous) PERUNDURAI, ERODE - 638 060, INDIA



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

Phone

: +91- 4294 - 226538

Assistant Professor (Senior Grade)

Mobile

: 97877-33910

BEE Certified Energy Auditor (Regd.No:EA13164)

E-mail

: logeskec@gmail.com

Department of Electrical and Electronics Engineering

Ref: KEC/EN/2018-2019/5912

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 3<sup>rd</sup> August, 2019. This audit process highlights the present CO<sub>2</sub> 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	116265 kWh	26990 lit	2565 kg
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)	190.436		
4	Total No. of students and staff	940		
5	Per capita CO <sub>2</sub> emission per year	0.203 tonne (+)		
6	No. of Matured Trees (1 tree absorbs 22 kg CO <sub>2</sub> /year)	678		
7	CO <sub>2</sub> neutralised due to matured trees (tonne/Annum)	14.916 tonnes		
8	CO <sub>2</sub> 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

Yours Truly

Dr.T.Logeswaran

Assistant Professor(Senior Grade)

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