



KONGU ENGINEERING COLLEGE
(Autonomous)
PERUNDURAI, ERODE - 638 060, INDIA



Dr.P.Naveethakrishnan, M.E., Ph.D
Professor
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E-mail : pnkmech@gmail.com

Ref: KEC/EA/2021-22/103

17.04.2021

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit in M/s.Paavai Engineering College**, Namakkal, Tamil Nadu on 15th April 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	223660 kWh, 90000 lt diesel, 120 cylinders
2	Annual Energy Cost	Rs 79,33,790
3	Energy Savings due to the installation of 150 kW roof top solar PV plant (Life cycle time = 20 years)	223660 kWh
4	Proposed annual Energy Savings	Rs 14,53,790
5	Initial Investment Required	Rs 54,00,000
6	Payback period	3.7 years

Equipment/Systems Audited

Electrical Network
Inverter, UPS and Battery System
Lightings, Fans & Air Conditioning System
LPG Consumption for Cooking Application
Transportation and Gen-set fuel Consumption

Audited and Accounted for April 2020 to March 2021

Yours Truly


Dr.P.NAVANEETHAKRISHNAN
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GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a **Green Audit in M/s.Paavai Engineering College,** Namakkal, Tamil Nadu on 15th April 2021. This audit process investigates the following activities;

- I) Coverage of matured trees and turfs
- II) Inspection of the water conservation measures
- III) Inspection of rain water harvesting methods
- IV) Waste disposal methods in use

Audited and Accounted for April 2020 to March 2021

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17.04.2021

ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an **Environmental Audit in M/s.Paavai Engineering College**, Namakkal, Tamil Nadu on 15th April 2021. 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	223660 kWh	90000 lt	120 nos.
2	CO ₂ Emission (tonne/Annum)	208	234	6.6
3	Total CO ₂ emission	448.6		
4	Total No. of students and staff	4002		
5	Per capita CO ₂ emission	0.112 T		
6	No. of Matured Trees	452		
7	CO ₂ neutralised due to trees	9.5 T		
8	Per Capita CO ₂ Emission to be Neutralized	0.109 T		

Systems Audited

- ✓ Electricity consumption and generation
- ✓ Diesel consumption
- ✓ LPG consumption

Systems Inspected

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

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Ref: KEC/EA/2020-21/101

17.01.2020

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit in M/s.Paavai Engineering College**, Namakkal, Tamil Nadu on 6th Jan 2020. 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	8,44,691 kWh, 1,62,000 lt diesel, 1200 cylinders
2	Annual Energy Cost	Rs 1,61,99,692
3	Energy Savings due to a)the installation of 100 kW roof top solar PV plant(Life cycle time = 20 years) b)Energy efficiency in Transportation cooking and electricity usage	1,44,000 kWh 15,000 lt diesel + 20 cylinders
4	Proposed annual Energy Savings	Rs 19,39,000
5	Initial Investment Required	35,00,000
6	Payback period	1.8 years

Equipment/Systems Audited

Electrical Network

Inverter, UPS and Battery System

Lightings, Fans & Air Conditioning System

LPG Consumption for Cooking Application

Transportation and Gen-set fuel Consumption

Audited and Accounted for Jan 2019 to Dec 2019

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[Signature]
17/01/2020

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This is to certify that, we have conducted a **Green Audit in M/s. Paavai Engineering College,** Namakkal, Tamil Nadu on 6th Jan 2020. This audit process investigates the following activities;

- I) Coverage of matured trees and turfs
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- IV) Waste disposal methods in use

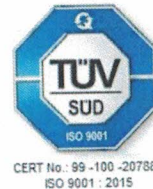
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This is to certify that we have conducted an **Environmental Audit in M/s.Paavai Engineering College**, Namakkal, Tamil Nadu on 6th Jan 2020. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

S.No.	Description	Type of fuel and their conversion process		
		Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	844691 kWh	162000 lt	1200
2	CO ₂ Emission (tonne/Annum)	785	421	7
3	Total CO ₂ emission	1213		
4	Total No. of students and staff	4000		
5	Per capita CO ₂ emission	0.303 T		
6	No. of Matured Trees	435		
7	CO ₂ neutralised due to trees	9.135 T		
8	Per Capita CO ₂ Emission to be Neutralized	0.300 T		

Systems Audited


- ✓ Electricity consumption and generation
- ✓ Diesel consumption
- ✓ LPG consumption

Systems Inspected

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

Audited and Accounted for Jan 2019 to Dec 2019

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17/01/2020
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Ref: KEC/EA/2019-20/105

10.01.2019

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit in M/s.Paavai Engineering College,** Namakkal, Tamil Nadu on 7th Jan , 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	883931 kWh, 1,69,500 lt diesel, 128 cylinders
2	Annual Energy Cost	Rs 1,69,42,252
3	Energy Savings due to the installation of 200 kW roof top solar PV plant (Life cycle time = 20 years)	2,88,000 kWh
4	Proposed annual Energy Savings	Rs 18,72,000
5	Initial Investment Required	Rs 70,00,000
6	Payback period	3.73 years

Equipment/Systems Audited

Electrical Network
Inverter, UPS and Battery System
Lightings, Fans & Air Conditioning System
LPG Consumption for Cooking Application
Transportation and Gen-set fuel Consumption

Audited and Accounted for Jan 2018 to Dec 2018

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[Signature]
10/1/2019

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10/11/2019
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S.No.	Description	Type of fuel and their conversion process		
		Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	883931 kWh	1,69,500 lt	128 nos.
2	CO ₂ Emission (tonne/Annum)	822	440	7
3	Total CO ₂ emission	1269 T		
4	Total No. of students and staff	3980		
5	Per capita CO ₂ emission	0.318 T		
6	No. of Matured Trees	422		
7	CO ₂ neutralised due to trees	9.2 T		
8	Per Capita CO ₂ Emission to be Neutralized	0.316 T		

Systems Audited

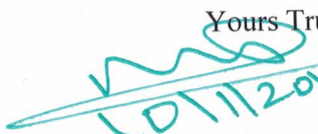
- ✓ Electricity consumption and generation
- ✓ Diesel consumption
- ✓ LPG consumption

Systems Inspected

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

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