



KONGU ENGINEERING COLLEGE (Autonomous)

PERUNDURAI, ERODE - 638 060, INDIA



CERT No: 99-100-20752
ISO 9001:2015

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

Associate Professor

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Ref: KEC/EA/2017-2018/918

05/09/2018

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit** in **EGS Pillay Engineering College**, Nagapattinam, Tamil Nadu on 03rd September, 2018. 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	320000 litres diesel, 540 LPG cylinders & 309417 kWh electricity
2	Present Annual Energy Cost	Rs. 2,51,04,762.00
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. 12,650.00
6	Initial Investment Required	Rs. 3,50,000.00
7	Total savings ((3)+(4)+(5))	Rs. 1,40,900.00
8	Payback period in years	2.48

Equipment/Systems Audited

Electrical Network

Inverter, UPS and Battery System

Lightings, Fans & Air Conditioning System

Diesel Fuel Consumption

Audited and Accounted for June 2017 to May 2018

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Therthi Nagar, 631 002,
Nagapattinam (Dt) Tamil Nadu.

Yours Truly



DEPT. OF ELECTRICAL & ELECTRONICS ENG.
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CERT No. 96-100-20788
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Ref: KEC/EG/2018-2019/918

09/08/2019

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit** in **EGS Pillay Engineering College**, Nagapattinam, Tamil Nadu on 9th 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	366000 litres diesel, 534 LPG cylinders & 333121 kWh electricity
2	Present Annual Energy Cost	Rs. 2,82,33,082.00
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. 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

ATTESTED

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Ref: KEC/EA/2019-2020/918

18/09/2020

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit** in **EGS Pillay Engineering College**, Nagapattinam, Tamil Nadu on 15thSeptember, 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	382000 litres diesel,538 LPG cylinders & 362548 kWh electricity
2	Present Annual Energy Cost	Rs. 3,29,15,698.00
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. 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

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08/11/2021

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit** in **EGS Pillay Engineering College**, Nagapattinam, Tamil Nadu on 4th November, 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	17860 litres diesel, 235 LPG cylinders & 177910 kWh electricity
2	Present Annual Energy Cost	Rs. 34,27,137.00
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

80 kWp Solar PV Power Plant


Inverter, UPS and Battery System

Lightings, Fans & Air Conditioning System


Diesel Fuel Consumption

Audited and Accounted for June 2020 to May 2021

ATTESTED


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Ref: KEC/EA/2021-2022/918

24/01/2023

ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit** in **EGS Pillay Engineering College**, Nagapattinam, Tamil Nadu on 19th January, 2023. 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	12000 litres diesel, 220 LPG cylinders & 335590 kWh electricity
2	Present Annual Energy Cost	Rs. 41,59,836.00
3	Proposed cost Savings due to the replacement 100 fans with BLDC fans	Rs. 75,000.00
4	Proposed cost Savings per year from LPG cylinders by efficient usage.	Rs. 34,000.00
5	Proposed cost savings per year due to the installation of 50 kW solar PV Plant.	Rs. 4,62,000.00
6	Initial Investment Required	Rs. 19,00,000.00
7	Total savings ((3)+(4)+(5))	Rs. 5,71,000.00
8	Payback period in years	3.33

Equipment/Systems Audited

Electrical Network

110 kWp Solar PV Power Plant

Inverter, UPS and Battery System

Lightings, Fans & Air Conditioning System

Diesel Fuel Consumption

Audited and Accounted for June 2021 to May 2022

ATTESTED

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