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Department of Electrical and Electronics Engineering

Ref: KEC/EA/2017-2018/918

05/09/2018

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a Green Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 03rd September, 2018. The audit process investigates the following activities.

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

Audited and Accounted for June2017 to May2018

Yours Truly

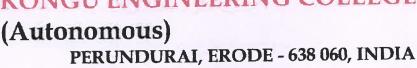
DEPT. OF ELECTRICAL & ELECTRONICS ENGG KONGU ENGINEERING COLLEGE,

THOPPUPALAYAM (PO) PERUNDURAL (TX), ERODE - 838 000

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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 electric		
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. RAMAB ANS, M.C. Ph.D.,

PRINCIPAL

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Nagapa unam (Ut) Tomit Nadu

Yours Truly

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ENVIRONMENTAL AUDIT CERTIFICATE

05/09/2018

This is to certify that we have conducted an Environmental Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 03rd September, 2018. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

		Type of fuel and	their conver	sion process
S.No.	Description	Electrical energy consumed	Diesel	LPG
Ĭ	Annual Energy Consumption	309417 kWh	3,20,000 lit	540 Nos.
2	CO ₂ Emission standards	0.95 kg/kWh	2.68	56.2 kg/cyl.
3	Total CO ₂ emission(tonne/Annum)		1181.9	
4	Total No. of students and staff		2990	
5	Per capita CO ₂ emission per year	0.39	95 tonnes (+)	
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)		200	
7	CO ₂ neutralised due to matured trees		4.4 tonnes	
8	CO ₂ to be neutralised per capita per year	0.3	94 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 2017 to May 2018

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Ref: KEC/GA/2018-2019/918

09/08/2019

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a Green Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 9th August, 2019. The audit process investigates the following activities.

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

Audited and Accounted for June2018 to May2019

Yours Truly

JEH I. OF ELECTRICAL & ELECTRONICS ENG. KONGU ENGINEERING COLLEGE,

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		Type of fuel and their convers		nversion
S.No.	Description	Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	333121 kWh	366000 lit	534 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)		1327.35	
4	Total No. of students and staff		2828	
5	Per capita CO ₂ emission per year	0.	.469 tonne (+)	
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)		200	
7	CO ₂ neutralised due to matured trees		4.4 tonne	
8	CO ₂ to be neutralised per capita per year	C	.468tonne (-)	

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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ATTESTER

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ENERGY AUDIT CERTIFICATE

09/08/2019

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		Parameters
1	Annual Energy/ fuel Consumption		itres diesel, 534 LPG 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

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18/09/2020

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a Green Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 15th September, 2020. 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 June2019 to May2020

Yours Truly

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18/09/2020

ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an Environmental Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 15th September, 2020. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

		Type of fue	el and their co process	nversion
S.No.	Description	Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	362548 kWh	382000 lit	538 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)		1398.42	
4	Total No. of students and staff		2961	
5	Per capita CO ₂ emission per year	0.	472 tonne (+)	
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)		200	
7	CO ₂ neutralised due to matured trees		4.4 tonne	
8	CO ₂ to be neutralised per capita per year	0	.471 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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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		ption Parameters
1	Annual Energy/ fuel Consumption		litres diesel,538 LPG & 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

Yours Truly

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08/11/2021

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a Green Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 4th November, 2021. 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 June2020 to May2021

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08/11/2021

ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an Environmental Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 4th November, 2021. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

		Type of fuel and	d their convei	rsion process
S.No.	Description	Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	177910 kWh (after deduction from 80 kW solar plant)	17860 lit	235 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)		230.09	
4	Total No. of students and staff		3048	
5	Per capita CO ₂ emission per year	0.0	075 tonne (+)	
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)		200	
7	CO ₂ neutralised due to matured trees		4.4	4.
8	CO ₂ to be neutralised per capita per year	0.0	074 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 2020 to May 2021

Dr. S. RAMABALAN, M.E. Ph.D. E.G.S. Pillay Engineering College, Thethi, Nagore - 617 502. Nagapattinam (Dt) Tamil Nadu

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ENERGY AUDIT CERTIFICATE

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S.No.	Description	Parameters 17860 litres diesel,235 LPG cylind & 177910 kWh electricity	
ı	Annual Energy/ fuel Consumption		
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/GA/2021-2022/918

24/01/2023

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a Green Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 19th January, 2023. The audit process investigates the following activities.

- Coverage of matured trees
- II) Site Preservation
- III) Reduction of heat island effects
- IV) Inspection of the water conservation measures
- V) Pedestrian network
- VI) Energy efficiency
- VII) Health and well-being facilities

Audited and Accounted for June 2021 to May 2022

Yours Truly

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24/01/2023

ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that we have conducted an Environmental Audit in EGS Pillay Engineering College, Nagapattinam, Tamil Nadu on 19th January, 2023. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

		Type of fuel an	d their conver	rsion process
S.No.	Description	Electrical energy consumed	Diesel	LPG
1	Annual Energy Consumption	335590 kWh (after deduction from 110 kW solar plant)	12000 lit	220 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)		363.33	
4	Total No. of students and staff		3357	
5	Per capita CO ₂ emission per year	0.	108 tonne (+)	
6	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)		210	
7	CO ₂ neutralised due to matured trees (tonne/Annum)		4.62 tonnes	
8	CO ₂ to be neutralised per capita per year	0.	107 tonnes(-)	

Systems Audited

- Electricity consumption
- Diesel consumption
- LPG consumption

Systems Inspected

- Solid & Bio-medical waste handling & Management
- Usage of chemical, salts & acids
- RO system

Audited and Accounted for June 2021 to May 2022

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S.No.	Description	Parameters	
1	Annual Energy/ fuel Consumption	12000 litres diesel, 220 LPG cy & 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

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

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