

KNOWLEDGE INSTITUTE OF TECHNOLOGY
KAKAPALAYAM, SALEM-637504
(Autonomous)

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Professor

BEE Certified Energy Auditor (Regd.No: EA3643)

Department of Mechanical Engineering

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Ref: KIOT/EA/2022-23/210

10.06.2023

GREEN AUDIT CERTIFICATE

This is to certify that, we have conducted a **Green Audit** in **M/s. Muslim Arts College, Thiruvithancode** on 10th August 2024. 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

Audited and Accounted for May 2022 to June 2023

Yours Truly



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ENVIRONMENT AUDIT CERTIFICATE

This is to certify that we have conducted an **Environmental Audit** in **M/s. Muslim Arts College, Thiruvithancode on 10th August 2024**. 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	22000 Units	100 Lit	4
2	CO ₂ Emission standards	0.95 kg/kWh	2.68 kg/lit	56.2 kg/cyl
3	Total CO ₂ emission (tonne/Annum)	150 tonnes		
4	Total No. of students and staff	1800		
5	Per capita CO ₂ emission per year	0.098 tonne (+)		
6	CO ₂ neutralised due to Renewables	-		
7	No. of Matured Trees (1 tree absorbs 22 kg CO ₂ /year)	400		
8	CO ₂ neutralised due to trees	9.34 tonne (-)		
9	Per Capita CO ₂ Emission to be Neutralized	0.096 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

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ENERGY AUDIT CERTIFICATE

This is to certify that, we have conducted an **Energy Audit** in **M/s. Muslim Arts College, Thiruvithancode on 10th August 2024**. 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	100 litres diesel, 4 LPG cylinders & 22000 kWh
2	Present Annual Energy Cost	Rs 2,88,000.00
3	Proposed cost Savings due to the replacement 50 fans with BLDC fans	Rs.25000.00
4	Proposed cost Savings per year from LPG cylinders by efficient usage.	Rs. 2000.00
5	Proposed cost savings per year due to the installation of 10 KW solar PV Plant .	Rs. 40,000.00
6	Proposed cost savings per year due to energy efficiency and conservation in transportation/DGs	Rs. 25000.00
7	Initial Investment Required	Rs 6,00,000.00
8	Total savings ((3)+(4)+(5)+(6))	Rs 92,000.00
9	Payback period	6.50 years

Equipment/Systems Audited

Electrical Network

Inverter, UPS and Battery System

Lightings, Fans & Air Conditioning System

LPG Consumption for Cooking Application

Diesel Fuel Consumption

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