



CERTIFICATE FOR GREEN AUDIT

Certificate Number: **PSQC225**



This is to certify that, we have conducted a **GREEN AUDIT** in **SRM TRP ENGINEERING COLLEGE, SRM NAGAR, IRUNGALUR, TIRUCHIRAPPALLI - 621 105, TAMIL NADU** during 22/03/2023 - 23/03/2023. The Audit investigates the following activities.

1. Coverage of matured trees (nearly 5015 trees available in the college campus)
2. Implemented many flowers, shrubs and indoor plants
3. Analysis of Rooftop solar PV plant (1 MW)
4. Assessment of RO plant and water distribution network
5. Analysis of waste water treatment in STP and treated water utilization
6. Evaluation of solid and E-waste management system
7. Future expansion of Solar PV & Thermal energy systems for regular activities
8. Plan for implementing solar water heating system in hostel area to pre-heat the water
9. Identification of expansion of green coverage for planting more trees
10. Survey on Bio-diversity and plan for improvement of Birds, Reptile and Amphibian

The detailed campus Greenery Coverage and initiatives are presented in the Audit Report.

Authorized Auditor


G. ARIVARASAN

BEE Certified Energy Auditor (EA-21875)

Lead Auditor - ISO 14001, EMS

P S QUALITY CERTIFICATION PVT. LTD.

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CIN: U74999TN2020PTC138625



CERTIFICATE FOR ENERGY AUDIT

Certificate Number: **PSQC226**



This is to certify that, we have conducted an **ENERGY AUDIT** in **SRM TRP ENGINEERING COLLEGE, SRM NAGAR, IRUNGALUR, TIRUCHIRAPPALLI - 621 105, TAMIL NADU** during 22/03/2023 - 23/03/2023 The Audit team has identified Energy Conservation Proposals (ENCONs) and summary of the energy audit is given below.

Description/Year	2022–2023		
Annual Electricity Consumption (kWh)	60,30,820 kWh		
Annual LPG consumption (kg)	1,08,271 kg		
Summary of Energy Conservation (ENCON) Proposals			
Description	Parameters		
	Present	After	Savings
Annual Energy Consumption	60,30,820 kWh + 1,08,271 kg of LPG	57,29,279 kWh + 1,02,857 kg of LPG	3,01,001 kWh + 5684 kg of LPG
Annual Energy Cost	616.95 lakhs	586.1 lakhs	30.85 lakhs
Simple Payback Period	–	–	1.5 years

Equipment's/Systems Audited

Electrical System	Thermal System
All major electrical equipment's	Inverter, UPS and battery system
Electrical Distribution system	Diesel, generators, pumps and motors
Lightings, Fans and Air conditioning system	LPG for cooking application
Rooftop solar PV system	

The detailed Energy Conservation Proposals are presented in the Audit Report.

Authorized Auditor

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CERTIFICATE FOR ENVIRONMENTAL AUDIT

Certificate Number: **PSQC227**



This is to certify that, we have conducted an **ENVIRONMENTAL AUDIT** in **SRM TRP ENGINEERING COLLEGE, SRM NAGAR, IRUNAGALUR, TIRUCHIRAPPALLI - 621 105, TAMIL NADU** during 22/03/2023 - 23/03/2023. This Audit highlights the energy balance sheet indicating various energy carriers associated with the regular activities of the institution and their CO₂ mapping.

Environmental system: CO₂ **Balance sheet (2022-2023)**

S. No	Energy Consumption & CO ₂ Emission			CO ₂ Neutralization		
	Description	Annual Usage	CO ₂ Emission (Tons/Annum)	Description	Annual Usage	CO ₂ Emission (Tons/Annum)
1	Electrical Energy	50,30,800	4834.3	Matured Trees	5015 Nos	109.3
2	Diesel	40.035 Litres	112.5			
3	LPG Consumption	1,02,271 kg	320.8			
4	Biogas plant	820.1 kwh	0.50			
5	Total Emission		5,268.1	Total Neutralized		109.3
Balance CO ₂ to be Neutralized				5,277.53 Tons/Annum ¹		
CO ₂ Accountability for SRM TRP TIRUCHIRAPPALLI Campus				7067.5 Tons/Annum ¹		
(Calculated based on the weighted average of total strength of students, teaching and technical staff = 5447)						

System Audited

Electricity Consumption	Usage of Chemicals, Salts, Acids & Cleaning Agents
Diesel Consumption (Transport + DG)	Biogas Plants
LPG Consumption	RO Plant and Water distribution system
Solid and E-waste Handling & Management	STP and waste water utilization

The detailed environmental aspects & impacts are presented in the Audit Report.

Authorized Auditor

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