



## **CERTIFICATE FOR GREEN AUDIT**

Certificate Number: **PSQC239**



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 17/02/2021 - 18/02/2021. 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

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## **CERTIFICATE FOR ENERGY AUDIT**

Certificate Number: **PSQC240**



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 17/02/2021 - 18/02/2021 The Audit team has identified Energy Conservation Proposals (ENCONs) and summary of the energy audit is given below.

Description/Year	2020–2021		
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**

<b>Electrical System</b>	<b>Thermal System</b>
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

**G. ARIVARASAN**

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## **CERTIFICATE FOR ENVIRONMENTAL AUDIT**

Certificate Number: **PSQC241**



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Environmental system: CO<sub>2</sub> **Balance sheet (2020-2021)**

S. No	Energy Consumption & CO <sub>2</sub> Emission			CO <sub>2</sub> Neutralization		
	Description	Annual Usage	CO <sub>2</sub> Emission (Tons/Annum)	Description	Annual Usage	CO <sub>2</sub> 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 <sub>2</sub> to be Neutralized				5,277.53 Tons/Annum <sup>1</sup>		
CO <sub>2</sub> Accountability for SRM TRP TIRUCHIRAPPALLI Campus				7067.5 Tons/Annum <sup>1</sup>		
(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

**G. ARIVARASAN**

BEE Certified Energy Auditor (EA-21875)

Lead Auditor - ISO 14001, EMS

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