



## **CERTIFICATE FOR** **GREEN AUDIT**

Certificate Number: PSQC 144

**This is to certify that, we have conducted a GREEN AUDIT in Lead college of Management, Dhoni, Palakkad, Kerala-678009, India during 07/07/2023. The Audit investigates the following activities.**

- 1. Coverage of matured trees (nearly 195 trees available in the college campus & Farm)**
- 2. Assessment of RO purifier and water distribution network**
- 3. Implemented many flowers, shrubs and indoor plants**
- 4. Analysis of waste water treatment in STP and treated water utilization**
- 5. Future expansion of Solar PV & Thermal energy systems for regular activities**
- 6. Evaluation of solid and E-waste management system**
- 7. Plan for implementing solar water heating system in hostel area to pre-heat the water**
- 8. Identification of expansion of green coverage for planting more trees**
- 9. 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 ENVIRONMENTAL AUDIT

**Certificate Number: PSQC 143**

**This is to certify that, we have conducted an ENVIRONMENTAL AUDIT in Lead college of Management, Dhoni, Palakkad, Kerala - 678009, India. during 07/07/2023. 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 <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	<b>Electrical Energy</b>	<b>380412 kwh</b>	<b>323.3</b>	<b>energy generation from PV solar</b>	<b>214 KWH</b>	<b>0.182</b>
2	<b>Diesel</b>	<b>30761 Liters</b>	<b>81.6</b>			
3	<b>LPG Consumption</b>	<b>13870 kg</b>	<b>40.75</b>	<b>CO2 Neutralized</b>	<b>195 NO'S</b>	<b>4.3</b>
4	<b>Total Emission</b>		<b>453.28</b>	<b>Total Neutralized</b>		<b>4.82</b>
<b>Balance CO<sub>2</sub> to be Neutralized</b>				<b>448.8 Tons/Annum<sup>1</sup></b>		
<b>Per capita CO<sub>2</sub> consumption</b>				<b>0.64 Tons/Annum<sup>1</sup></b>		
<b>(Calculated based on the weighted average of total strength of students, teaching and technical staff =700)</b>						

## System Audited

<b>Electricity Consumption</b>	<b>Cleaning Agents</b>
<b>Diesel Consumption (Transport + DG)</b>	<b>RO Plant and Water distribution system</b>
<b>Petrol Consumption (Transport)</b>	<b>STP and waste water utilization</b>
<b>LPG Consumption</b>	<b>Rain water harvesting system</b>

The detailed environmental aspects & impacts are presented in the Audit

**Authorized Auditor**

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# CERTIFICATE FOR ENERGY AUDIT

Certificate Number: PSQC 142

**This is to certify that, we have conducted an ENERGY AUDIT in Lead college of Management, Dhoni, Palakkad, Kerala-678009, India during 07/07/2023. The Audit team has identified 08 Energy Conservation Proposals (ENCONs), 1 ENCON on Renewable Energy System. summary of the energy audit is given below.**

Description/Year	2022-2023		
Annual Electricity Consumption (kWh)	380198 KWH		
Annual LPG consumption (kg)	13870Kg of LPG		
Summary of Energy Conservation (ENCON) Proposals			
Description	Parameters		
	Present	After	Savings
Annual Energy Consumption	380198 kWh + 13870 Kg of LPG	367298 kWh + 13176 kg of LPG	12900 kWh + 694 kg of LPG
Annual Energy Cost	41.5 lakhs	38.7 lakhs	2.8 lakhs
Simple Payback Period	-	-	1.2 years

## Equipment's/Systems Audited

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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