



CERTIFICATE FOR **GREEN AUDIT**

Certificate Number: PSQC996

This is to certify that, we have conducted a **GREEN AUDIT** in **RAAK ARTS AND SCIENCE COLLEGE, NO.1, BASHEER CAMPUS, PERAMBAL ROAD, PERAMBAL, VANUR (T.K.), VILLUPURAM DISTRICT – 605 110 during 14th July 2022 (for the academic year 2021-2022).**

The Audit investigates the following activities.

1. Coverage of matured trees (nearly 100 trees available in the college campus)
2. Future expansion of the thermal energy system for regular activities
3. Evaluation of solid, liquid and e-waste management system
4. Identification of expansion of green coverage for planting more trees
5. Evaluation of water distribution network

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.

(Consultancy - Accreditation & Certification) Auditing & Training

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CIN: U74999TN2020PTC138625



PRINCIPAL
RAAK ARTS & SCIENCE COLLEGE
VILLIANUR POST-605 110
PERAMBAL.



CERTIFICATE FOR ENERGY AUDIT

Certificate Number: PSQC997

This is to certify that, we have conducted an **ENERGY AUDIT** in **RAAK ARTS AND SCIENCE COLLEGE, NO.1, BASHEER CAMPUS, PERAMBAL ROAD, PERAMBAL, VANUR (T.K.), VILLUPURAM DISTRICT – 605 110** during 14th July 2022 (for the academic year 2021-2022). The Audit team has identified 8 Energy Conservation Proposals (ENCONs) and summary of the energy audit is given below.

Description/Year	2021-22		
Annual Electricity Consumption (kWh)	1,23,561 kWh		
Summary of Energy Conservation (ENCON) Proposals			
Description	Parameters		
	Present	After	Savings
Annual Energy Consumption	1,23,561 kWh	1,05,027 kWh	18,534 kWh
Annual Energy Cost	8.64 lakhs	7.35 lakhs	1.29 lakhs
Simple Payback Period	---	---	1.5 years

Equipment's/Systems Audited

Electrical System	Thermal System
Electrical System & Network	Diesel, generators, pumps and motors
Lightings, Fans and Air conditioning system	Inverter, UPS and battery system

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

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CERTIFICATE FOR ENVIRONMENTAL AUDIT

Certificate Number: PSQC998

This is to certify that, we have conducted an **ENVIRONMENTAL AUDIT** in RAAK ARTS AND SCIENCE COLLEGE, NO.1, BASHEER CAMPUS, PERAMBAL ROAD, PERAMBAL, VANUR (T.K.), VILLUPURAM DISTRICT – 605 110 during 14th July 2022 (for the academic year 2021-2022). 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 (2021-2022)

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	123561 kWh	101.32	Matured Trees	100 Nos	2.18
2	Total Emission		101.32	Total Neutralized		2.18
Balance CO ₂ to be Neutralized				99.14 Tons/Annum		
CO ₂ Accountability for RASC Campus				1533.42 Tons/Annum¹		
(Calculated based on the weighted average of total strength of students, teaching and technical staff = 1217)						

System Audited

Electricity Consumption	Usage of Chemicals, Salts, Acids & Cleaning Agents
Diesel Consumption (Transport)	Solid E-waste Handling & Management
RO and Water distribution system	

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

Authorized Auditor

G. ARIVARASAN

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Lead Auditor - ISO 14001, EMS

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