



CERTIFICATE FOR GREEN AUDIT

Certificate Number: **PSQC971**

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 18th July 2019 (for the academic year 2018-2019).

The Audit investigates the following activities.

1. Coverage of matured trees (nearly 83 trees available in the college campus)
2. Implemented many shrubs
3. Assessment of water distribution network
4. Evaluation of solid and E-waste management system
5. Identification of expansion of green coverage for planting more trees

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



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





CERTIFICATE FOR **ENERGY AUDIT**

Certificate Number: PSQC972

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 18th July 2019 (for the academic year 2018-2019). The Audit team has identified 14 Energy Conservation Proposals (ENCONs) and summary of the energy audit is given below.

Description/Year	2018-19		
Annual Electricity Consumption (kWh)	1,64,459 kWh		
Summary of Energy Conservation (ENCON) Proposals			
Description	Parameters		
	Present	After	Savings
Annual Energy Consumption	1,64,459 kWh	1,39,791 kWh	24,668 kWh
Annual Energy Cost	11.51 lakhs	9.78 lakhs	1.72 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: PSQC973

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 18th July 2019 (for the academic year 2018-2019). 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 (2018-2019)

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	164459 kWh	134.86	Matured Trees	83 Nos	1.81
2	Total Emission		134.86	Total Neutralized		1.81
Balance CO ₂ to be Neutralized				133.05 Tons/Annum		
CO ₂ Accountability for RASC Campus				1852.2 Tons/Annum¹		
(Calculated based on the weighted average of total strength of students, teaching and technical staff = 1470)						

System Audited

Electricity Consumption	Usage of Chemicals, Salts, Acids & Cleaning Agents
Diesel Consumption (Transport + DG)	Solid E-waste Handling & Management
RO Plant 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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