



CERTIFICATE FOR **GREEN AUDIT**

Certificate Number: PSQC993

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 15th July 2021 (for the academic year 2020-2021).

The Audit investigates the following activities.

1. Coverage of matured trees (nearly 94 trees available in the college campus)
2. Implemented many shrubs and indoor plants
3. Assessment of RO water distribution network
4. Evaluation of solid and E-waste management system
5. Future expansion of thermal energy system

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: PSQC994

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 15th July 2021 (for the academic year 2020-2021). The Audit team has identified 10 Energy Conservation Proposals (ENCONs) and summary of the energy audit is given below.

Description/Year	2020-21		
Annual Electricity Consumption (kWh)	1,35,917 kWh		
Summary of Energy Conservation (ENCON) Proposals			
Description	Parameters		
	Present	After	Savings
Annual Energy Consumption	1,35,917 kWh	1,15,530 kWh	20,387 kWh
Annual Energy Cost	9.51 lakhs	8.08 lakhs	1.43 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: PSQC995

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 15th July 2021 (for the academic year 2020-2021). 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 (2020-2021)

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	135917 kWh	111.45	Matured Trees	94 Nos	2.05
2	Total Emission		111.45	Total Neutralized		2.05
Balance CO ₂ to be Neutralized				109.4 Tons/Annum		
CO ₂ Accountability for RASC Campus				1823.22 Tons/Annum¹		

(Calculated based on the weighted average of total strength of students, teaching and technical staff = 1447)

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

BEE Certified Energy Auditor (EA-21875)

Lead Auditor - ISO 14001, EMS

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