



PRATHYUSHA ENGINEERING COLLEGE

CRITERIA-7

7.1 Institutional Values and Social Responsibilities

- 7.1.6 Quality audits on environment and energy regularly undertaken by the Institution.**

Energy Audit Certificate



CERTIFICATE FOR ENERGY AUDIT PROCESS

This is to certify that, we have conducted a detailed **Energy Audit** in **PRATHYUSHA ENGINEERING COLLEGE**, Aranvoyaluppam, Thiruvallur, Tamil Nadu 602 025 during **22 - 23 September 2020**. The audit team has identified **13 Energy Conservation Proposals (ENCONS)** and summary of the Energy Audit Process is given below.

S. No.	Description	Parameters
1.	Present Annual Energy Consumption	4,04,520 kWh + 19,720 kg of LPG + 120 Tons of Wood + 36 Tons of Pellets
2.	Present Annual Energy Cost	Rs. 63.81 Lakhs
3.	Proposed Energy Savings	87,996 kWh + 1,815 kg of LPG + 10.9 Tons of Pellets
4.	Proposed Financial Savings	Rs. 13.45 Lakhs
5.	Initial Investment Required	Rs. 20.30 Lakhs
6.	Simple Payback Period	Nearly 1.5 Years
7.	% Reduction of Energy Consumption	22 % Electrical + 9.2 % LPG + 30.3 % Pellets

Equipments/Systems Audited:

Electrical System	Thermal System
• All major electrical equipment's	• Inverter, UPS and Battery System
• Electrical distribution system	• Diesel generators, Pumps and motors
• Lightings, Fans & Air Conditioning system	• Boiler, Steam distribution, Biomass pellets
• Roof top solar PV system	• LPG for cooking application

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

Audit conducted and verified by,

S.R. Sivarasu

(Dr. S.R. SIVARASU)

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