



RAM KALAM CENTRE FOR ENERGY CONSULTANCY & TRAINING

No.8, VPK Garden, Mylapatti, Coimbatore – 641 062

GSTIN: 33AAZFR8890A1ZN



GREEN AUDIT CERTIFICATE

RAM KALAM/SSMCET/GA/December/2023/03

This is to certify that, we have conducted a detailed GREEN AUDIT in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul – Palani Highway, Dindigul - 624 002, Tamilnadu, India on 20 December 2023. The college has exemplary greenery, transportation system with Pollution Control Certificates, effective waste management and rich collection of Flora & Fauna.

Audit conducted and verified by

Dr. S.R. SIVARASU

BEE Certified Energy Auditor (EA-27299)

Lead Auditor – ISO 14001: EM5; IGBC AP, GRIHA CP

CII Certified Professional in SWM

ISO-14064: Implementor & Auditor - Carbon Footprint Management



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AUDIT SUMMARY

- ❖ Assessment of Mature trees, bushes & shrubs (nearly 651 No's)
- ❖ Investigation of Solar Hot Water System (1,000 Litres)
- ❖ Assessment of Rain Water Harvesting (RWH)
- ❖ Pollution certificates for all transport vehicles
- ❖ Study on effective Solid Waste Management (SWM) system
- ❖ Best Operating Practices on Battery Management
- ❖ Maintaining excellent Bio-diversity & Ecology



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ENVIRONMENT AUDIT CERTIFICATE

RAM KALAM/SSMCET/ENA/December/2023/02

This is to certify that, we have conducted a detailed ENVIRONMENT AUDIT in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul – Palani Highway, Dindigul - 624 002, Tamilnadu, India on 20 December 2023. The college has upholding excellent Balance of CO2 emission & reduction, providing quality water, preserving great environment system and also educating the same to all the students.

Audit conducted and verified by

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ENVIRONMENT AUDIT CERTIFICATE

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AUDIT SUMMARY

S. No.	Annual Energy Consumption & CO ₂ Emission			Annual CO ₂ Neutralization		
	Description	Energy Quantity	CO ₂ Emission (Tons)	Description	Parameters	CO ₂ Neutralized (Tons)
1.	Electricity	3,48,104 kWh	285.4	Electricity (DG)	65,520 kWh	53.7
2.	Diesel	75,751 Litres	200.0	Mature Tree	651 Nos	14.2
3.	LPG	2,736 kg	8.2	Solar Thermal ¹	7,240 kWh	5.9
Total Emission			493.6	Total-Neutralized		73.9
Balance CO ₂ to be Neutralized = 419.8 Tons/Annum						

(¹ Electrical equivalent is being considered)



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ENERGY AUDIT CERTIFICATE

RAM KALAM/SSMCET/EA/December/2023/01

This is to certify that, we have conducted a detailed ENERGY AUDIT in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul – Palani Highway, Dindigul - 624 002, Tamilnadu, India on 20 December 2023. The college is now practicing various energy conservation measures, implemented energy efficient lighting system, following Best operating Practices (BoP) and utilizing all kind of energy in a Judicious manner.

Audit conducted and verified by

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ENERGY AUDIT CERTIFICATE

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AUDIT SUMMARY

Date of Audit	20 December 2023
Present Annual Energy Consumption	3,19,219kWh + 2,736 kg LPG
Present Energy Cost	Rs. 45.9 Lakhs
Proposed % of Energy Savings	14.8 % Electricity + 36.0 % LPG
Annual Energy Savings	51,481 kWh + 986 kg LPG
Annual Financial Savings	Rs. 7.4 Lakhs
Initial Investment Required	Rs. 7.7 Lakhs
Simple Payback Period	Nearly 1.0 Year (12.5 Months)

(Detailed Energy Conservation Proposals are presented in the Audit Report)