



# **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.**

**Environment Audit Certificate**



**CERTIFICATE FOR ENVIRONMENTAL AUDIT PROCESS**

This is to certify that, we have conducted an **ENVIRONMENTAL AUDIT** in **PRATHYUSHA ENGINEERING COLLEGE**, Aranvoyalkuppam, Thiruvallur, Tamil Nadu 602 025 during **22 – 23 September 2020**. This audit process highlights the **energy balance sheet** indicating various energy carriers associated with the regular activities of the college and their CO<sub>2</sub> mapping.

S. No.	Description	Type of Fuel and their CO <sub>2</sub> Conversion Process				
		Electricity	Diesel	Wood	Pellets	LPG
1.	Total Annual Consumption	4,04,520 KWh	1,11,438 Litre (Transport + DG)	120 Tons	36 Tons	19,720 kg
2.	CO <sub>2</sub> Emission (Tons/Annum )	331.7	294.2	228.0	66.2	59.2
<b>3.</b>	<b>Total CO<sub>2</sub> Emission</b>	<b>979.3 Tons/Annum (↑)</b>				
4.	No. of Matured Trees Available in the Campus	<b>1,111</b>				
5.	Annual Solar Energy Generation	<b>1,61,646 kWh</b>				
6.	<b>CO<sub>2</sub> Neutralized due to Trees</b>	<b>24.2 Tons/Annum (↓)</b>				
7.	<b>CO<sub>2</sub> Neutralized due to SPV Plant</b>	<b>132.6 Tons/Annum (↓)</b>				
8.	<b>Total CO<sub>2</sub> Neutralized</b>	<b>156.8 Tons/Annum (↓)</b>				
9.	<b>Amount of CO<sub>2</sub> to be Neutralized (Final)</b>	<b>822.5 Tons/Annum (↔)</b>				
10.	<b>Per Capita CO<sub>2</sub> Consumption<sup>1</sup></b>	<b>0.35 Tons/Annum</b>				

<sup>(1</sup> Total strength of students - 2,190 + Teaching and technical staff - 127 = 2,317)

**Systems Audited:**

• Electricity Consumption	• Usage of Chemical, Salts & Acids
• Diesel Consumption (Transport + DG)	• Cleaning agents
• LPG, Wood & Pellets Consumption	• RO Plant and water distribution system
• Solid and E-Waste Handling & Management	• STP and waste water utilization

Audit conducted and verified by,

*S.R. Sivarasu*

(Dr. S.R. SIVARASU)

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