



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

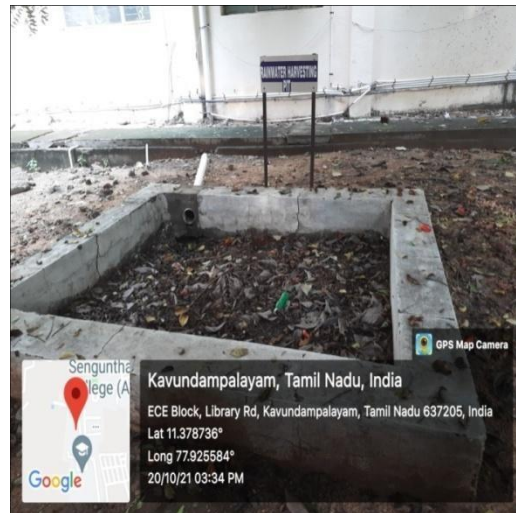
TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



7.1.4 - Water conservation facilities available in the Institution:

1. Rain water harvesting:

Roof top Rain water harvesting facility is installed in the college and hostel buildings. All the Rainwater harvesting Pits have been cleaned and ensured the effective functioning periodically.





Total quantity of rain water collected through the Roof top rain water harvesting system in the College

S. No	Building	Calculation	Rainwater collected* (in litres)
1	Boys Hostel	716.54x1239.65X0.9	799432.93
2	CIVIL & MECH block	716.54x546.55X0.9	352462.44
3	Central Library	716.54x399.04X0.9	257335.31
4	ECE & EEE block	716.54x1020.5X0.9	658106.16
Total quantity of rainwater collected per Annum			2067336.84

(* Rainwater collected (in litres) = Mean annual rainfall in mm x area in m² x runoff factor)

2. Bore well /Open well recharge

Abandoned bore wells are used to discharge the rain water to improve the groundwater level in the campus.

3. Construction of tanks and bunds

As the water crisis continues to become severe, there is a need for water conservation of rainwater for future use and to improve the groundwater table. As a part of the water conservation initiative in this institute we created a large artificial pond near the hostel to collect and store the rainwater to recharge the groundwater table, rather than allowing it to run off.

4. Maintenance of water bodies and distribution system in the campus

The Sengunthar Institutions has 6 Bore wells for water supply. Water from the Bore well is pumped to the overhead tank and 6 underground tanks through the pumps. The water from the overhead tank is distributed to all taps across the campus. The maintenance of the plumbing system is outsourced. Whenever the problems are identified immediate actions are



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taken to restrict wastage of water. RO water is supplied to the college campus and hostel for drinking purposes.



Drinking Water Supply Point (RO water)



CERTIFICATE FOR ENVIRONMENTAL AUDIT PROCESS

This is to certify that, we have conducted an **ENVIRONMENTAL AUDIT** in **SENGUNTHAR ENGINEERING COLLEGE**, Tiruchengode, Namakkal – 637 205, Tamil Nadu on **17 DECEMBER 2021**. This audit process highlights the **energy balance sheet** indicating various energy carriers associated with the regular activities of the college and their CO₂ mapping.

S. No.	Energy Consumption & CO ₂ Emission			CO ₂ Neutralization		
	Description	Energy Quantity (Annum)	CO ₂ Emission (Tons/Annum)	Description	Energy Usage	CO ₂ Neutralized (Tons/Annum)
1.	Electrical Energy	1,36,530 kWh	112.0	Mature Trees	195 No's	2.6
2.	Diesel (Transport + DG)	7,797 Litres	20.6	Energy generation from DG	3,153 kWh	4.3
3.	LPG Consumption	1,428 kg	4.3			
4.	Total Emission		136.8	Total-Neutralized		6.9
5.	Balance CO₂ to be Neutralized = 129.9 Tons/Annum & Per Capita CO₂ Consumption = 0.17 Tons/Annum¹					

(¹ Total strength of students, Teaching & technical staff = 783)

Systems Audited:

• Electricity Consumption	• Usage of Chemical, Salts & Acids
• Diesel Consumption (Transport + DG)	• Cleaning Agents
• LPG Consumption	• RO Plant and Water Distribution System
• Solid and E-Waste Handling & Management	• STP and Waste Water Utilization

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Audit conducted and verified by,

(Dr. S.R. SIVARASU)

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