



**BHARATH COLLEGE OF SCIENCE AND
MANAGEMENT
Thanjavur-613005, Tamil Nadu.**



GREEN AUDIT



IQAC

**BHARATH COLLEGE OF
SCIENCE AND MANAGEMENT**



YOJO NETWORK & TRAINING CENTER

(Registered Audit Agencies)

1st Floor, Devas Complex, Mutt St

Kumbakonam – 612 001

Mobile: +91 9047205733

GST no: 33AYXPP0304R1ZT

E-mail: yojoauditnetwork@gmail.com

(Chennai ♦ Kumbakonam ♦ Karaikal)

CERTIFICATE FOR GREEN AUDIT PROCESS

This is to certify that, we have conducted a **GREEN AUDIT** in Bharath College of Science and Management, Thanjavur, Tamil Nadu, India on Date of audit **27th July 2022**. This audit process investigates the following activities;

1. Coverage of Mature trees, bushes & shrubs
2. Plan to increase the green coverage and natural water bodies.
3. Pollution certificates for all transport vehicles.
4. Inspection on Rain Water Harvesting (RWH) both from buildings and road run-off.
5. Initiatives taken to promote green coverage inside the college campus.
6. Recommendation for Roof top Solar PV plant with grid inter active model.
7. Recommendation on Solar Thermal system for cooking application.
8. Solar thermal water heating system for hostel students (bathing application).
9. Study on effective Solid Waste Management (SWM) system.
10. E-waste: Collection, Segregation, Storage and Safe Disposal.
11. Identification of Waste to Wealth, Waste to Energy possibilities.
12. Planning for improvement of Indoor and Ambient Air Quality (IAQ) & Indoor Environment Quality (IEQ).
13. Maintaining excellent Bio-diversity & Ecology.

NOTE:

- Detailed Recommendation on Green Initiatives is represented In the Audit report.

Thank You

Audit Conducted and Verified by,


LEAD AUDITOR
YOJO NETWORK
MAT STREET
KUMBAKONAM-612 001
THANJAVUR-DIST.



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CERTIFICATE FOR ENERGY AUDIT PROCESS

This is to certify that, we have conducted an **ENERGY AUDIT** in Bharath College of Science and Management, Thanjavur, Tamil Nadu, Tamil Nadu, India. The audit team has come out with **8 Energy Conservation Proposals (ENCONs)** and the summary of the audit processes represented as:

Systems Audited:

Electrical System	The annual System
• All major Electrical Equipment's	• Inverter, UPS and Battery System
• Electrical Distribution System	• Diesel Generator, Pumps and Motors
• Indoor & Outdoor Lightings & Fans	• Energy Efficiency in Appliances
• Air Conditioning System	• LPG & Wood for cooking application

Note:

Detailed recommendations are presented In the Audit report.

Thank You

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CERTIFICATE FOR ENVIRONMENTAL AUDIT PROCESS

This is to certify that, we have conducted an ENVIRONMENTAL AUDIT in Bharath College of Science and Management, Thanjavur, Tamil Nadu, Tamil Nadu, India on 27th July 2022. This audit process highlights the present CO₂ emission and methods adopted to neutralize the same in the college campus.

Environmental System: CO₂ Balance Sheet (2016-17)

S. No	Annual Energy Consumption & CO ₂ Emission			Annual CO ₂ Neutralization		
	Description	Usage	CO ₂ Emission (Tons)	Description	Usage	CO ₂ Neutralized (Tons)
1.	Diesel	2,60,080 Litres	12.9	Mature Trees	2,010No's	12.9
2.	Electrical Energy	2,11,241 kwh	79.7			
3.	Wood	10.11 Tons	25.5	Biogas	-	16.0
4.	LPG	2,103 kg	16.6			
Total Emission			134.7	Total-Neutralized		28.9
Balance CO ₂ to be Neutralized = 693.7 Tons / Annum & Per Capita CO ₂ Consumption = 0.30 Tons / Annum ¹						

Environmental System: CO₂ Balance Sheet (2017-18)

S. No	Annual Energy Consumption & CO ₂ Emission			Annual CO ₂ Neutralization		
	Description	Usage	CO ₂ Emission (Tons)	Description	Usage	CO ₂ Neutralized (Tons)
1.	Diesel	2,68,245 Liters	13.5	Mature Trees	996 No's	20.5
2.	Electrical Energy	2,12,152 kWh	99.4			
3.	Wood	20.5Tons	29.1	Biogas	2,979kg	10.8
4.	LPG	2,414kg	15.9			
Total Emission			167.9	Total- Neutralized		31.3
Balance CO ₂ to be Neutralized = 660.9 Tons/Annum & Per Capita CO ₂ Consumption = 0.19 Tons/Annum ²						

Environmental System: CO₂ Balance Sheet (2018-19)

S. No.	Annual Energy Consumption & CO ₂ Emission			Annual CO ₂ Neutralization		
	Description	Usage	CO ₂ Emission (Tons)	Description	Usage	CO ₂ Neutralized (Tons)
1.	Diesel	1,76,329Litres	11.6	Mature Trees	987 No's	18.6
2.	Electrical Energy	1,45,242 kWh	172.6			
3.	Wood	09.6Tons	15.8	Biogas	1570 kg	09.3
4.	LPG	1,911kg	11.7			
Total Emission			211.7	Total- Neutralized		37.9
Balance CO ₂ to be Neutralized = 563.1 Tons / Annum & Per Capita CO ₂ Consumption = 0.9 Tons / Annum ³						

Environmental System: CO₂ Balance Sheet (2019-20)

S. No.	Annual Energy Consumption & CO ₂ Emission			Annual CO ₂ Neutralization		
	Description	Usage	CO ₂ Emission (Tons)	Description	Usage	CO ₂ Neutralized (Tons)
1.	Diesel	1,71,955 Litres	12.6	Mature Trees	870 No's	10.7
2.	Electrical Energy	1,71,241kWh	167.3			
3.	Wood	13.6 Tons	17.9	Biogas	985kg	6.9
4.	LPG	1,647kg	12.8			
Total Emission			210.6	Total- Neutralized		17.6
Balance CO ₂ to be Neutralized = 576.8 Tons / Annum & Per Capita CO ₂ Consumption = 0.12 Tons / Annum ⁴						

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