

# GREEN AUDIT REPORT

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### PART-A

## WATER UTILIZATION, CONSERVATION & WATER MANAGEMENT

AUDIT CONDUCTED BY

YOJO NETWORK & TRAINING CENTER

(Registered Audit Agencies)

GST no: 33AYXPP0304R1ZT

(Chennai ♦ Kumbakonam ♦ Karaikal)

Mobile: +91-9047205733

E-mail: [yojoauditnetwork@gmail.com](mailto:yojoauditnetwork@gmail.com)



1.1: Source of Water, Storage and Distribution:

Table-1 shows the source of water, location of storage along with their application.

Table-1: Source of Water, Location of Storage and Application

Type of Water	Source	Application
Bore Water (Interconnected)	• Bore-1; North Side –170ft	• Input to the RO plant
	• Bore-2; Management Block Front Side–150ft	• Cooking Utensil Cleaning, • Bathing & Cloth Washing
Rain Water (10Nos)	• Collected from i) buildings run off and ii) road run-offs • Each building has RWH	• Used to increase the ground water level
		• Small pond is also available to Collect the rain water
Treated Water using RO Plant (1 Nos) from Bore well Water. Treated Water using RO Water Purifiers (2Nos) from water tank.		• RO Water: Drinking and Cooking
		• Grey Water: Gardening & Toilet Cleaning (Good Initiative)
• Raw water tank capacity and Location	Raw water tank capacity	
	• Main Block –5000 L • Arts Block – 2000 L	• 7,000 Litres
<ul style="list-style-type: none"> <li>• All tanks are cleaned monthly once (Good practice).</li> <li>• Water filling is now in manual operation.</li> </ul>		

### 1.2: Treated Water for Drinking Application:

- The college management is keen on providing uninterrupted, safe and healthy drinking water to all; throughout the year.
- The over head tanks storing the drinking water which are cleaned at regular intervals and the water management team has been maintaining a cleaning schedule.
- The specifications of RO Plant and distribution of potable water to the entire campus is given in Table-2.

Table- 2: Specifications of RO Plant and Potable Water Distribution System

S. No.	Parameters	Description
1.	Total no. of RO Plant	• 01 No's (Total 500L PH)
2.	Source of raw water	• Bore Water
3.	% of RO & grey water out put	• 75 % RO water: 25% grey water
4.	Usage of grey water	• Used for Toilet Cleaning (Good Initiative)
5.	Cleaning schedule of filter	• Once in three months (Replaced every year)
6.	Cleaning schedule of membrane	• Yearly twice
7.	Functioning of RO Plant	• Manual operation
8.	Quality of RO water	• Internally tested (50 TDS)
9.	RO water storage	• Stored in the HPDE tanks and distributed
10.	RO water tank capacity & location	• Main Block – 1000 Liter & Hostel –3000 Liter

### 1.3 : Water Savings in Foreign Toilets:

The list of availability of Indian & Foreign style toilets are presented in the below Table-3.

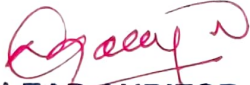
Table-3: List of Indian & Foreign Style Toilets

S. No.	Location	No. of Toilets	
		Indian	Western
1.	Arts Block	30	3
2.	Main Block	20	3
Total		50	6

- In general the flush tank capacity may be 8 to 10 Liters (depends on make and model). Water savings also leads to power saving it saves the operating duration of the water pumps directly.

1.4 : Rain Water Harvesting (RWH) – from Building Roof Area & Run-off Area:

- The audit team appreciates the effects taken by the management of Sri Venkateshwara College of Arts and Science for harvesting the rain water almost in all buildings with proper maintenance.
- The roof area is so arranged to collect the rainwater and then passed through proper piping system, and then bring back to the RWH pits which are located close to each pits
- The building run off are collected through each pits mostly located in each buildings. Common area and road run-off are properly collected and routed to nearby water body.

  
**LEAD AUDITOR**  
**YOJO NETWORK**  
MUTT Street, Kumbakonam  
B.O. : Opp. to NLC Arch,  
Neyveli Plaza, Neyveli (TN).



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### PART-B

## WASTE HANDLING & MANAGEMENT

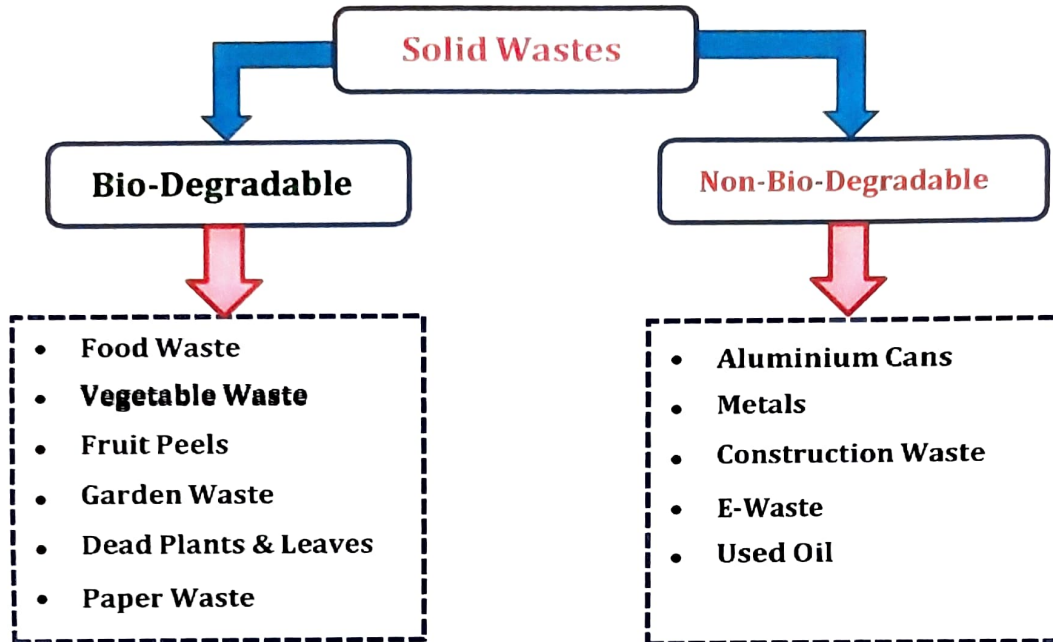


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Mobile: +91-9047205733  
E-mail: [yojoauditnetwork@gmail.com](mailto:yojoauditnetwork@gmail.com)

1.1 : Solid Waste Management System:

Different types of wastes generated inside the college premises are represented in the block diagram given below.



1.2: Process of Solid Waste Management:

The college management practiced efficient methods to treat the waste generated and Table-1 shows the process of treating the solid waste generated inside the college campus.

Table-1: Process of Waste Management

S. No.	Waste Type	Waste Treatment
Bio-Degradable Waste Management		
1.	Food and Vegetable Waste	Collected and dumped in a yard (used as manure)
2.	Garden Wastes and Plant Leaves	Daily collected and dumped in a yard

3.	Paper Waste	Collected and stored in a separate place to dispose further.
		Sold to third party for recycling
4.	Napkin Pads	Collected, dumped in a separate Napkin incinerator unit is available in the campus.
<b>Non-Bio- Degradable Waste Management</b>		
5.	Plastics	Banned in the college campus (Welcome step).The chemical / salt storage plastic containers are disposed to third party.
6.	Metals	Construction metals or metals from any other sources are stored in a separate place.
		Used for sale to third party for recycling
7.	Transport Oil + Tyres	Stored in a separate place and used for sale to Third Party.
8.	Transport Vehicle and Computer Batteries	Procuring new batteries with buyback offer (old battery replacement)
9.	Used edible oil	Almost zero waste. Mostly used for internal cooking and frying.
10.	E- Waste Management	Used for sale to third party for recycling



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### PART-C

## ASSESSMENT ON MATURED TREES AND BIO DIVERSITY



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GST no: 33AYXPP0304R1ZT  
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E-mail: [yojoauditnetwork@gmail.com](mailto:yojoauditnetwork@gmail.com)





1.1 : Campus Greenery:


The college is completely covered with mature trees grown for more than 20 years. The total number of mature trees available in the college campus is 387 with 40 varieties of trees. Apart from the mature trees; preserving the ecology; the entire college campus is planted with various flowering shrubs and bushes.



Total No. of Mature Trees available in the college campus is 387 which contributes for reduction of 20.4 Tons of CO<sub>2</sub> emission/ Annum

1.2 : Recommendations for Indoor Plants as Natural Air Purifier:

- Indoor plants are available more numbers in the institution campus, which will be helpful to look good while bringing life to our living space and they also help to purify the air.

  
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**YOJO NETWORK**  
MUTT Street, Kumbakonam  
B.O. : Opp. to NLC Arch,  
Neyveli Plaza, Neyveli (TN).



## AUDIT SUMMARY & CONCLUSION



SUMMARY OF THE AUDIT PROCESS:

In order to make Sri Venkateshwara College of Arts and Science campus 100 % Environmental sustainability and lush Greenery, the audit team appreciate the measures followed by the institution to maintain environmental friendly, green campus.

The following measures are followed by the institution:

i. Water Conservation & Management:

- Retrofit aerator based water taps are used for good water savings
- Water treatment log (for RO plant) is maintained for treated and outlet water quality
- Installed sensor based water controller in each Over Head Tanks to reduce the water waste and power required to operate the pump

ii. Waste Management:

- The institution stores solid wastes properly in a separate place for safe disposal.
- Scientific method of handling chemicals/Acids/Salt and safe disposal through 3<sup>rd</sup> party
- Used napkins are safely disposed using napkin disposal machine
- Having all records for the solid waste items given to the 3<sup>rd</sup> party

iii. Way Forward towards Energy & Environmental Sustainability:

- Available an exclusive Energy and Environment Policy based on the energy and environment practices are followed in the campus and reflects the
  - i) Present energy consumption & generation
  - ii) Projection of energy need
  - iii) Commitment by the college to conserve energy
  - iv) Roadmap to achieve the commitment
  - v) Facilities needed to achieve the same

- vi) Roles and responsibilities of all stakeholder
  - vii) Corrective measures, if the results deviates from the committed value
- Implemented ENCONs and best operating practices proposed in the audit report
  - Adopted effective Waste Management Policy and reduced the food print of wastegeneration (Net zero waste campus)
  - Working towards Net Zero Energy and Net Zero Water Campus and achieve Gold rated Global Leadership campus (as per IGBC rating) and/or 4-star rated campus



## COMPLETION OF THE REPORT

This report is prepared as a part of the Environment and Green Audit process conducted at Sri Venkateshwara College of Arts and Science, Peravurani, Thanjavur District, Tamilnadu by YoJo Network and Training Center, Tamilnadu.

  
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**YOJO NETWORK**  
MUTT Street, Kumbakonam  
B.O. : Opp. to NLC Arch,  
Neyveli Plaza, Neyveli (TN).





**YOJO NETWORK & TRAINING CENTER**

*(Registered Audit Agencies)*

*1st Floor, Devas Complex, Mutt St*

*Kumbakonam – 612 001*

*Mobile: +91 9047205733*

**GST no: 33AYXPP0304RIZT**

**E-mail: [yojoauditnetwork@gmail.com](mailto:yojoauditnetwork@gmail.com)**

**(Chennai ♦ Kumbakonam ♦ Karaikal)**

## CERTIFICATE FOR ENVIRONMENT & GREEN AUDIT PROCESS

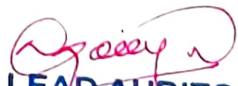
This is to certify that, we have conducted ENVIRONMENT & GREEN AUDIT at Sri Venkateshwara College of Arts and Science, Peravurani, Thanjavur District, Tamilnadu India from 3/01/2023 to 6/01/2023 and it is appreciated that, the institution strictly follows and maintain environment friendly clean and green campus initiatives to provide conducive atmosphere for active teaching learning.

This process investigates the following activities;

- ✓ Coverage of Mature trees and more bushes & shrubs (nearly 387 Matured trees)
- ✓ Plan to increase the green coverage and natural water bodies
- ✓ Pollution certificates for all transport vehicles, Ambulance and verified.
- ✓ Inspection on Rain Water Harvesting (RWH) both from buildings and road run-off verified.
- ✓ Initiatives taken to promote green coverage inside the college campus
- ✓ Recommendation for Rooftop Solar Thermal system for cooking application and water heating system for hostel students (bathing application).
- ✓ Study on effective Solid Waste Management (SWM) system
- ✓ E-waste: Collection, Segregation, Storage and Safe Disposal are verified.
- ✓ Availability of Waste to Wealth, Waste to Energy possibilities
- ✓ Improvement of Indoor and Ambient Air Quality (IAQ) and Indoor Environment quality (IEQ)
- ✓ Maintaining excellent Bio-diversity and Ecology
- ✓ Detailed Recommendation on green initiatives are represented in the Audit report

Thank You



  
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