

**Sri Vijay Vidyalaya College of Arts and Science,  
Nallampalli, Dharmapuri.**

(Affiliated to Periyar University, Salem-11, Tamilnadu, India)  
Recognized 2f and 12b under the UGC Act, 1956  
Accredited with A grade by NAAC.



**[2018-2023]**

**7.1.3 QUALITY AUDITS ON ENVIRONMENT AND  
ENERGY INITIATIVES**

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**[2018-2023]**

**GREEN AUDIT**



# பசுமை மற்றும் கல்வி அறக்கட்டளை தருமபுரி.

REG No : 22/2022

NGO No : TN/2022/0330192

PAN NO : AAETG2371G

UNDER TAX EXEMPTION 12A AND 80G

URN 12A : AAETG2371GE20221

URN 80G : AAETG2371GF20221

CELL : 96779 46902.

Email : gettrustdpi@gmail.com

## GREEN ENVIRONMENT CERTIFICATE

This is to certify that Sri Vijay Vidyalaya College of Arts and Science, Dharmapuri has undergone a Green campus audit for the year 22-23. This audit is based on the data and documents submitted by the internal Green audit team. The content is personally verified and validated via visiting the campus of the institution by the certifying agency on 07.08.2023. With due deliberation, it is endorsed that the Green campus initiative and effort the institution has carried out is found satisfactory and it is evident that there is a sustainable contribution towards a Green environment.

**For Green and Educational Trust**

  
**Managing Trustee**



# பசுமை மற்றும் கல்வி அறக்கட்டளை தருமபுரம்.

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## Audit Report

This report contains a Green Audit, Energy Audit, and Environmental Audit Carried out at Sri Vijay Vidyalaya College of Arts and Science for Women, Dharmapuri, Tamilnadu for the period of June 2022-May 2023

### Assessment team:

#### Internal

Dr.Balasundharam, Principal.

Mrs N.Amudha, Hod of Botany

Mrs G.Kokila, HOD of Zoology

#### External

Mr N.Mahendran

Founder,

Green Environmental Trust

**For Green and Educational Trust**

  
Managing Trustee





# பசுமை மற்றும் கல்வி அறக்கட்டளை தருமபுரம்.

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## 1. INTRODUCTION:

Assessing and considering the college's environmental sustainability practices and policies is a part of a green audit. A reduction in environmental impact, resource conservation, and the promotion of sustainable practices are the objectives.

A green audit was started with the intention of examining the work being done within the institutions whose contribution could endanger the health of the local population and the environment. Through the green audit, insight is gained to improve the environmental structure, and there are a number of elements that have influenced the expansion of the green environment.

## 2. NEED FOR THE STUDY:

There is a necessity in finding and evaluating whether an institution's operations are sustainable and environmentally friendly. The institution has a reputation for being wise in plantation and now it has to understand its contribution toward Green Earth and effective users of natural resources. Excessive consumption of resources like energy and water has become ingrained in everyone over time, so there is a need to measure the institution's stand in the conservation of energy.

All of these measures, provide an idea of effective methods for utilizing natural resources. Verifying the processes and changing them to green, clean ones is vital in the age of climate change and resource depletion.

## 3. OBJECTIVES OF GREEN AUDIT:

- To be more proactive in plantation and contribution towards Green Earth.
- To ensure that the natural resources are utilized properly as per the national policy of environment.

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➤ To study waste minimization and safe disposal of waste particularly hazardous wastes.

- To measure water and energy conservation.
- To determine the green practices' strengths and weaknesses.
- To analyze and offer solutions to the issues we find
- To raise awareness of environmental issues on campus
- To recognize and evaluate environmental risk.
- To motivate students and staff for optimized sustainable use of available resources.

#### 4. BENEFITS OF GREEN AUDIT

It would support environmental protection on and around the campus. Understand how to reduce costs by reducing waste and conserving energy. Encourage the college to create a highly environment-friendly campus. It presents a positive image of the college by providing a spotless and lush campus.

#### 5. METHODOLOGY

In order to perform a Green, Energy, and Environment audit the methodology included different processes such as Physical inspection of the campus, surveillance, review of the documentation, measurements, and recommendations.

Sri Vijay Vidyalaya College of Arts and Science green audit could comprise the following significant elements:

1. **Examining the campus's green spaces:** The examination of the landscape, in order to find ways to improve biodiversity, conserve water, and spread sustainable landscaping techniques.

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## 2. Curriculum and education. Examining how sustainability-related subjects are

included in the curriculum and looking into ways to incorporate environmental education into different fields of study.

3. **Energy Consumption:** This entails assessing how much electricity, heating, and cooling are used in campus buildings. The audit may reveal options for insulation, HVAC, and lighting upgrades that use less energy.

4. **Water Conservation:** Analyzing how much water is used on campus and coming up with strategies to use less by using low-flow fixtures, rainwater collection, and effective irrigation.

5. **Waste management:** Examining the college's procedures for producing and removing waste. Programs for recycling, composting efforts, and waste minimization techniques might all fall under this category.

### Sri Vijay Vidyalaya College of arts and science Infrastructure:

The campus is spread over an <sup>11.70 ✓</sup> acres of land with <sup>192796.705 sq.ft. ✓</sup> build-up area. It has got 3 floors and each floor has three wings. Every wing has a drinking water facility, dust bins for food waste, and degradable and non-degradable wastes. On each floor, wash areas are situated on both the wing corners with adequate toilets and cleaning areas. Every wash area is provided with a provision for waste disposables.

1. **Examining the campus's green spaces:** The examination of the landscape, in order to find ways to improve biodiversity.

The institution has many trees to improve biodiversity. Many plantation programs are organized by our students as well as NSS units inside the campus and in and around the college. The institution also conducts various programs among villages in Dharmapuri to create awareness of tree plantations. It distributes lots of saplings of wild varieties and medicinal plants to encourage an eco-friendly environment.

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## LIST OF MEDICINAL PLANTS IN SVVCAS CAMPUS FLORA.

S. No.	Binomial Name	Family Name	Parts	Medicinal uses
1.	<i>Andrographis paniculata</i> (Burm.f.) Wall.	Acanthaceae	Whole plant	Malaria fever, dengue fever, and antidote for snakebite.
2.	<i>Justicia adhatoda</i> L.	Acanthaceae	Leaves	Asthma and respiratory problems.
3.	<i>Justicia tranquebariensis</i> L.f.	Acanthaceae	Twig	Dental problems.
4.	<i>Rhinacanthus nasutus</i> (L.) Kuntze.	Acanthaceae	Leaves	Viral fever and antidote for snakebite.
5.	<i>Achyranthes aspera</i> L.	Amaranthaceae	Whole plant	Dog bite and dental problems.
6.	<i>Rauvolfia tetraphylla</i> L.	Apocynaceae	Root	Hypertension and antidote for snakebite.
7.	<i>Gymnema sylvestre</i> (Retz.) Schult.	Asclepiadaceae	Leaves	Diabetes.
8.	<i>Hemidesmus indicus</i> (L.) R. Br.	Asclepiadaceae	Root	Cooling agent and improve digestion.
9.	<i>Tylophora indica</i> (Burm.) Merr.	Asclepiadaceae	Leaves	Asthma, cold, cough, and respiratory problems.
10.	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae	Leaves	Fever and cold.
11.	<i>Cleome gynandra</i> L.	Cleomaceae	Leaves	Earache.
12.	<i>Evolvulus alsinoides</i> L.	Convolvulaceae	Whole plant	Fever and memory power.
13.	<i>Cheilocostus speciosus</i> (J. Koenig) C. Specht.	Costaceae	Leaves	Diabetes.
14.	<i>Coccinia grandis</i> (L.) Voigt	Cucubitaceae	Fruit	Diabetes and digestion.
15.	<i>Cyperus rotundus</i> L.	Cyperaceae	Rhizome	General weakness and improved immunity.

For Green and Educational Trust

*[Signature]*  
Managing Trustee



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				Improved immunity.
16.	<i>Acalypha indica</i> L.	uphorbiaceae	Whole plant	Skin diseases and cold.
17.	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Leaves	Diabetes and fever.
18.	<i>Phyllanthus amarus</i> Schumacher & Thonn.	Euphorbiaceae	Whole plant	Jaundice and digestion.
19.	<i>Abrus precatorius</i> Wall.	Fabaceae	Seed	Anti-inflammatory.
20.	<i>Mucuna pruriens</i> (L.) DC.	Fabaceae	Seed	Infertility and general weakness.
21.	<i>Pterocarpus marsupium</i> Roxb.	Fabaceae	Resin	Skin diseases.
22.	<i>Ocimum basilicum</i> L.	Lamiaceae	Leaves	Skin diseases and cold.
23.	<i>Ocimum tenuiflorum</i> L.	Lamiaceae	Whole plant	Fever, cold, and cough.
24.	<i>Aloe barbadensis</i> (L.) Burm.f.	Liliaceae	Leaves	Skin diseases, digestion, and cooling agents.
25.	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Flower	Heart disease and hair growth.
26.	<i>Sida acuta</i> Burm.F.	Malvaceae	Leaves	Skin diseases and dandruff control.
27.	<i>Tinospora cordifolia</i> Willd.	Menispermaceae	Stem	Diabetes, fever, digestion, and piles.
28.	<i>Mimosa pudica</i> L.	Mimosaceae	Whole plant	Skin diseases and piles.

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29.	<i>Moringa oleifera</i> Lam.	Moringaceae	Leaves	Infertility and general weakness.
30.	<i>Psidium guajava</i> L.	Myrtaceae	Leaves	Diabetes.
31.	<i>Syzygium cumini</i> (L.)	Myrtaceae	Seed	Diabetes.
32.	<i>Boerhavia diffusa</i> L.	Nyctaginaceae	Whole plant	Kidney problems and digestion.
33.	<i>Morinda citrifolia</i> L.	Rubiaceae	Fruit	General weakness and boost immunity.
34.	<i>Spermacoce hispida</i> L.	Rubiaceae	Whole plant	Nerve disorders and boosts immunity.
35.	<i>Cardiospermum halicacabum</i> L.	Sapindaceae	Leaves	Rheumatism and joint pains.
36.	<i>Withania somnifera</i> (L.) Dunal	Solanaceae	Tuber	Nerve disorder and infertility.
37.	<i>Clerodendrum phlomidis</i> L.f.	Verbenaceae	Leaves	Rheumatism and joint pains.
38.	<i>Vitex negundo</i> L.	Verbenaceae	Leaves	Fever, cold and cough.
39.	<i>Hybanthus enneaspermus</i> (L.) F. Muell	Violaceae	Whole plant	Infertility and general weakness.

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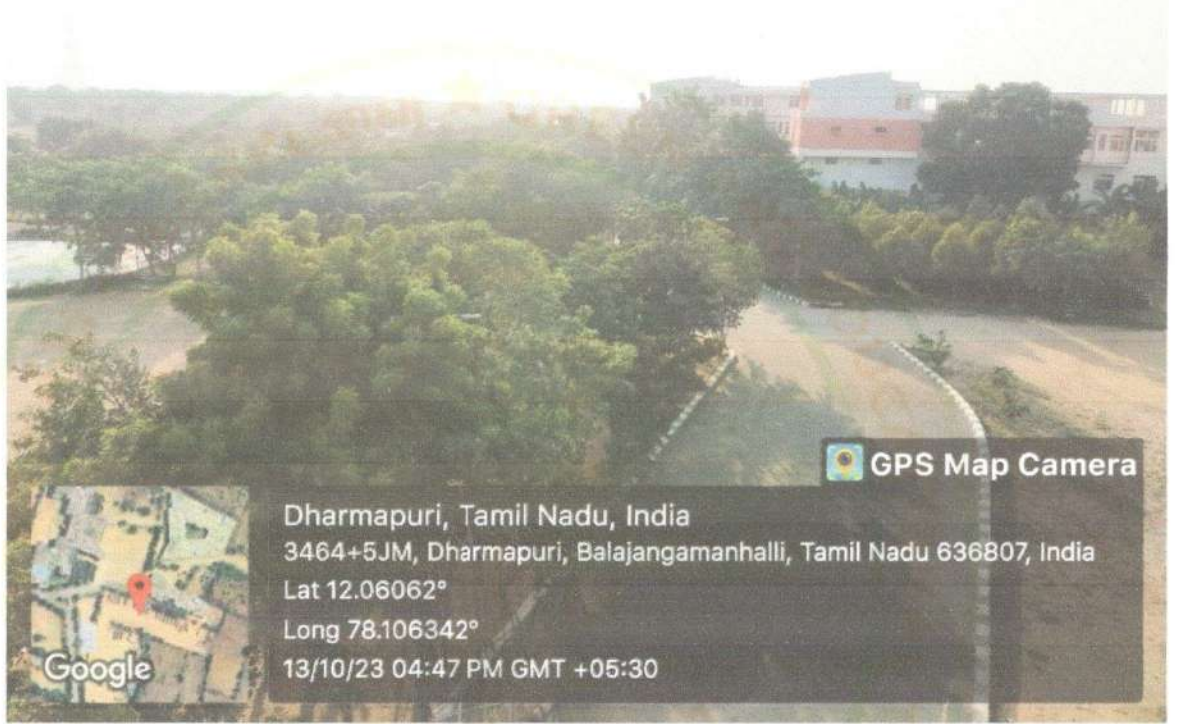
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## CAMPUS AERIAL VIEW



## CAMPUS GARDEN



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## 2. Curriculum and education. Examining how sustainability-related subjects are

included in the curriculum and looking into ways to incorporate environmental education into different fields of study.

The college management involves and encourages our Students in gardening and maintenance of the campus. Also the students and faculty make use of the lush area of the institution for relaxation during leisure time, study periods, group discussions, and combined studies. This gives them a stress-free environment away from a tailor-made class room.

The college gives lots of plantation and scope for them to conduct practical for students of Botany and Environmental studies. The observation of insects, birds and butterflies also enables the Students from Department of Zoology to assist their study.

- Preparation of vermicomposting, training on Mushroom culture conducted along the environmental study.

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**Managing Trustee**





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## PLANT GARDENING



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## BIRDS VIEW



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## INSECTS VIEW



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## PLANT EXPLANATION



## VERMICULTURE



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### 3. ENERGY CONSUMPTION:

#### a) Energy Storage:

1 Number of GRID is installed in SVVCAS Campus. This entails expanding or constructing new high-voltage transmission lines. These lines transport electricity between regions and from power plants to substations.

As per Last 6 months grid bill is reduced Approximately Rs.20,000 per month

### ALTERNATE THE POWER BY USING GRID



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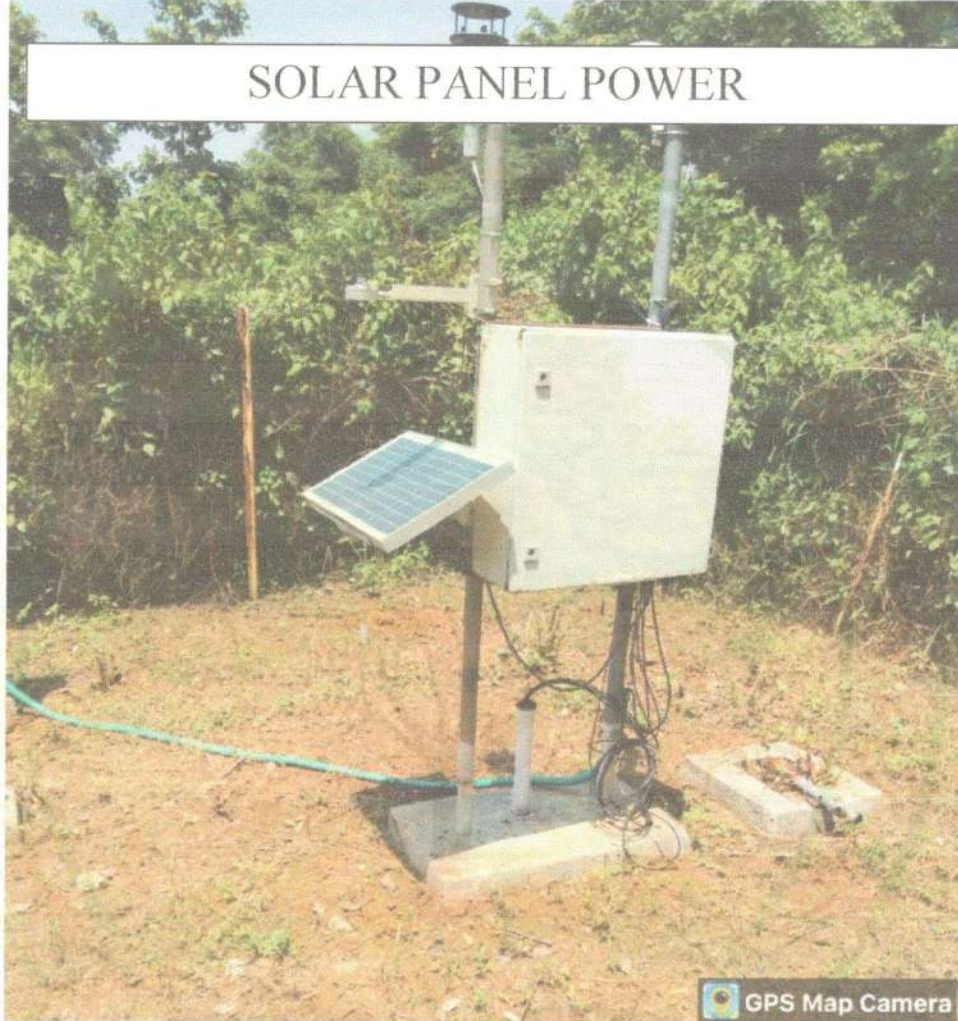
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## SOLAR PANEL POWER



GPS Map Camera



nallampalli, Tamil Nadu, India  
45QQ+358, nallampalli, Tamil Nadu 636704, India  
Lat 12.13762°  
Long 78.188196°  
11/08/22 11:36 AM GMT +05:30

For Green and Educational Trust

  
Managing Trustee





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### ALTERNATE THE POWER BY USING GRID



**Nallampalli, Tamil Nadu, India**

3464+9MW, Dharmapuri Main Rd, Nallampalli,

Tamil Nadu 636807, India

Lat 12.061344°

Long 78.105624°

23/11/20 01:58 PM GMT +05:30

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**Managing Trustee**





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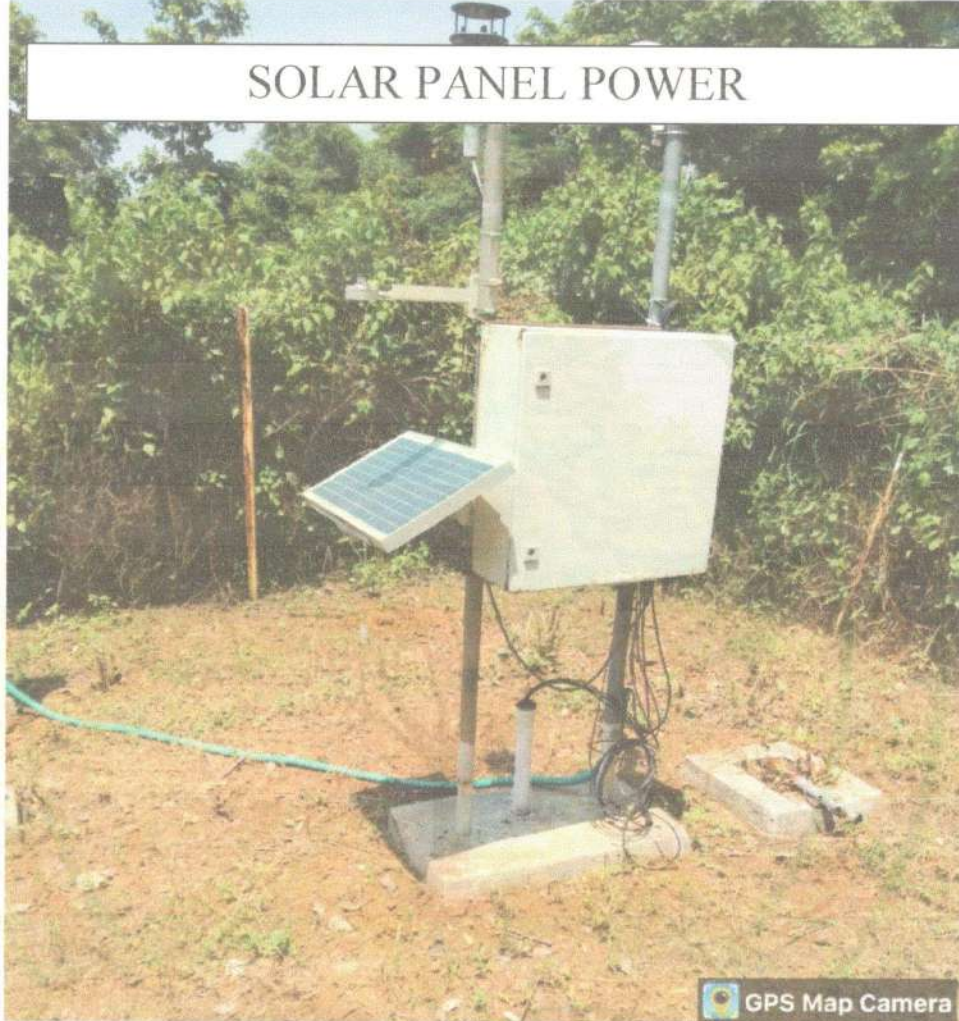
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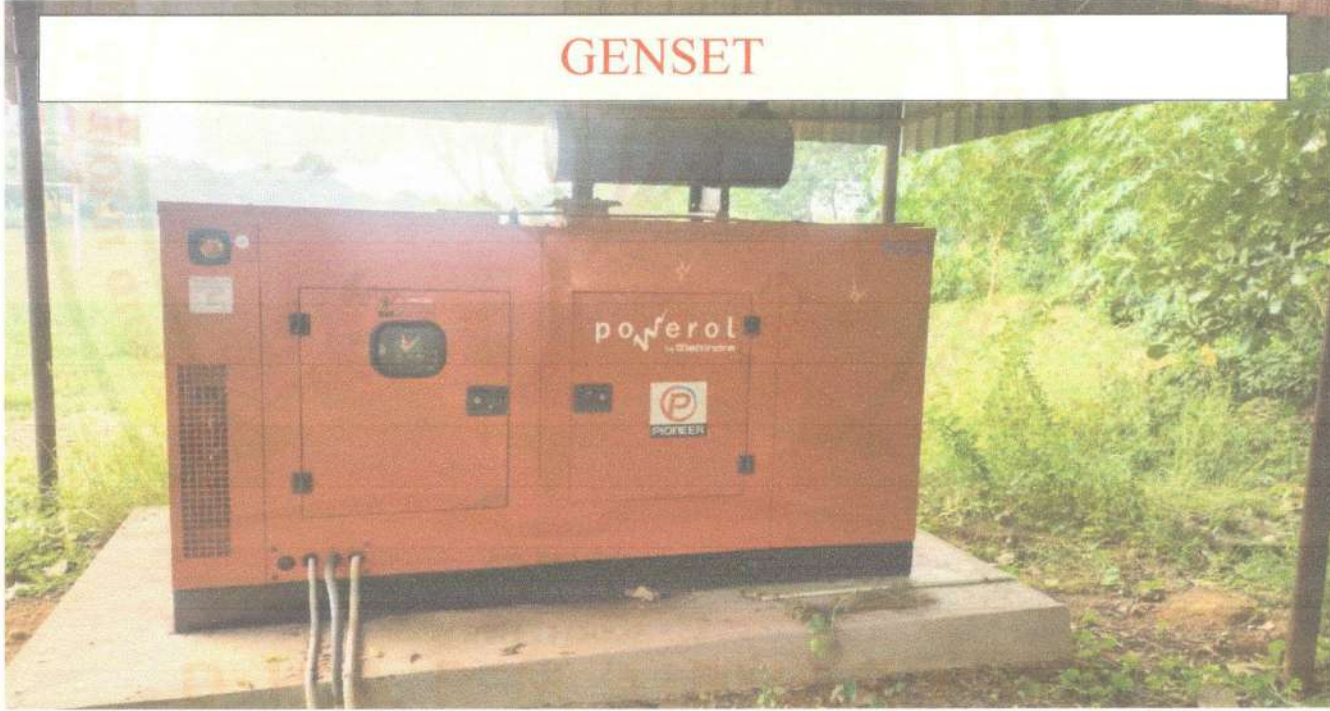
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b) Electrical power generation unit:

One number of generator set is installed in our college campus. When an electrical grid is unavailable or during power outages, gensets are frequently utilized to supply backup power.



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c) Light Emitting Diode:

SVVCAS Campus Majorly using LED Lights which are much more energy-efficient than conventional incandescent bulbs, requiring up to 80–90% less energy. This may result in huge electricity bill savings.

Old Bulbs are replaced with LED bulbs

Automatic on/off for street light set

## USE OF LED LIGHTS TO POWER



For Green and Educational Trust

*[Signature]*  
Managing Trustee





# பசுமை மற்றும் கல்வி அறக்கட்டளை தருமபுரம்.

REG No : 22/2022

NGO No : TN/2022/0330192

PAN NO : AAETG2371G

UNDER TAX EXEMPTION 12A AND 80G

URN 12A : AAETG2371GE20221

URN 80G : AAETG2371GF20221

CELL : 96779 46902.

Email : gettrustdpi@gmail.com

d) Solar Panel Power Consumption:



SOLAR PANEL POWER CONSUMPTION

For Green and Educational Trust

  
Managing Trustee





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e) Battery powered vehicles:

In SVVCAS Campus majorly using battery powered vehicle to conserve energy.



For Green and Educational Trust

  
Managing Trustee





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Email : gettrustdpi@gmail.com

## 4. Water Conservation:

### RAIN WATER CONSUMPTION BORE WELL



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Managing Trustee



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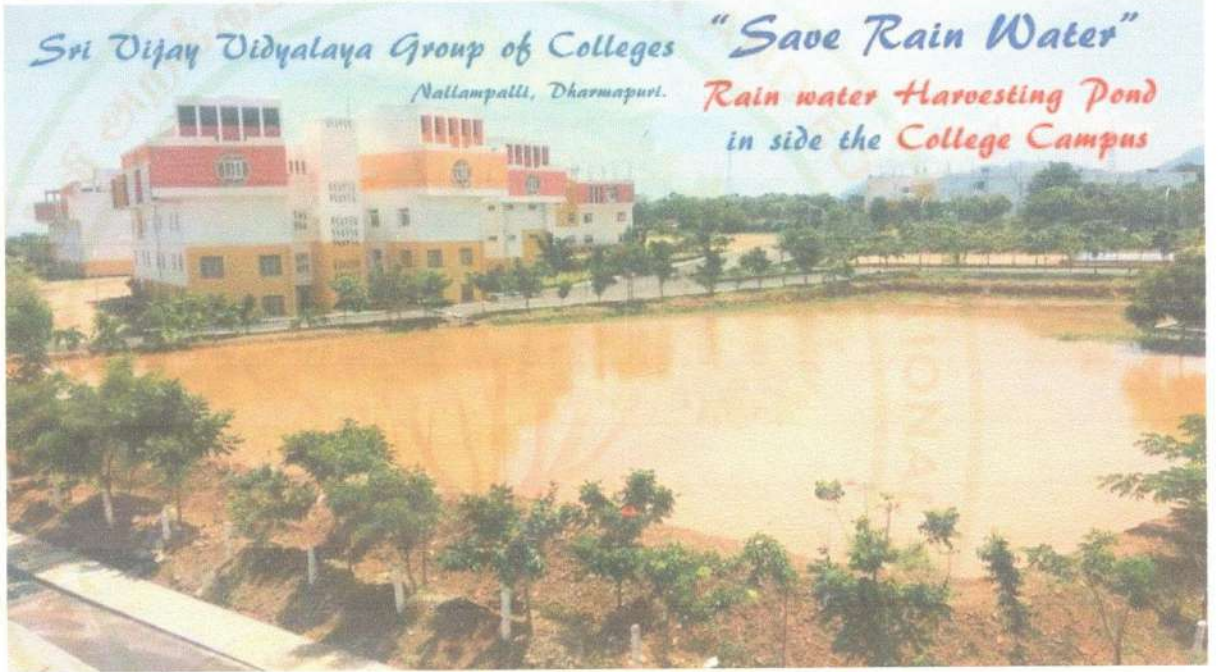
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D H A R M A P U R I

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Managing Trustee





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Email : gettrustdpi@gmail.com

## WASTE WATER RECYCLE PROCESS



**Nallampalli, Tamil Nadu, India**  
3464+9MW, Dharmapuri Main Rd, Nallampalli,  
Tamil Nadu 636807, India  
Lat 12.061344°  
Long 78.105624°  
28/08/20 02:52 PM GMT +05:30

### 5. Waste Management:

The waste management is well organized in SVVCAS Campus.

#### a) Solid Waste Management.

The systematic collection, handling, disposal, and recycling of solid waste is referred to as solid waste management. This comprises several types of trash, junk, refuse, and other materials that have been abandoned as a result of human activity. Sustainable development, environmental preservation, and public health all depend on effective solid waste management.

#### b) Liquid waste Management.

In SVVCAS CAMPUS Wastewater is transported to treatment facilities by collection systems such sewage networks, drains, and pumping stations.

**For Green and Educational Trust**

  
**Managing Trustee**





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Email : gettrustdpi@gmail.com



GPS Map Camera



Balajangamanhalli, Tamil Nadu, India  
3464+379, Balajangamanhalli, Tamil Nadu 636807, India  
Lat 12.059889°  
Long 78.105565°  
13/10/23 04:53 PM GMT +05:30

D H A R M A P U R I

For Green and Educational Trust

  
Managing Trustee





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c) Recycling and reuse:

In SVVCAS College Campus following systematic methods for recycling. It is the process of creating new goods from waste materials. This method conserves natural resources, uses less energy, and emits less greenhouse gases.



For Green and Educational Trust

*[Signature]*  
Managing Trustee





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d) Chemical Hazards Management:

A system is in place to Keep a complete inventory of all the chemicals employed at the college campus. This must contain details such as the chemical's name, amount, location, level of hazard, and safety data sheets (SDS).

e) Water conservation:

In SVVCAS Campus usages rainwater collection system has many advantages. It offers the most effective and sustainable method of managing water.



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Managing Trustee





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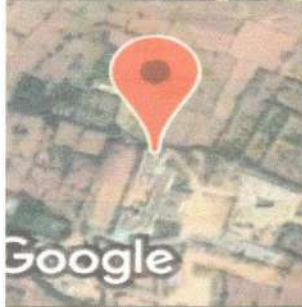
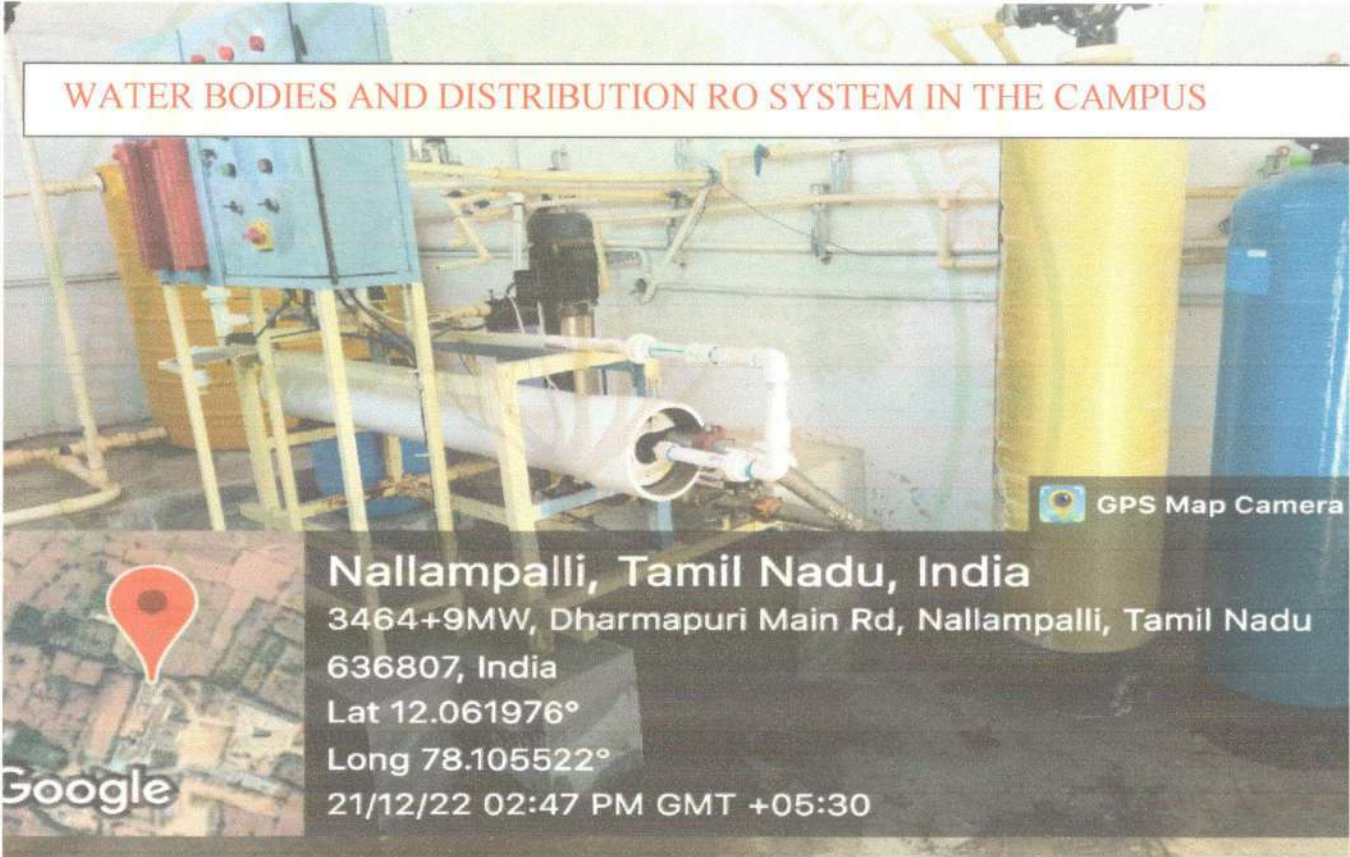
f) Bore Well

Water Conservation Bore well is provided inside the campus to supply water to the entire campus.

g) RO System:

RO System is provided inside the campus to supply water to entire campus.

## WATER BODIES AND DISTRIBUTION RO SYSTEM IN THE CAMPUS



Nallampalli, Tamil Nadu, India

3464+9MW, Dharmapuri Main Rd, Nallampalli, Tamil Nadu

636807, India

Lat 12.061976°

Long 78.105522°

21/12/22 02:47 PM GMT +05:30

For Green and Educational Trust

  
Managing Trustee





# பசுமை மற்றும் கல்வி அறக்கட்டளை தருமபுரம்.

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Green Area

In SVVCAS Campus maintaining Existing and added plantation to the landscape environment.

Plantation is done surrounding the SVVCAS campus.

## GREEN CAMPUS



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Managing Trustee





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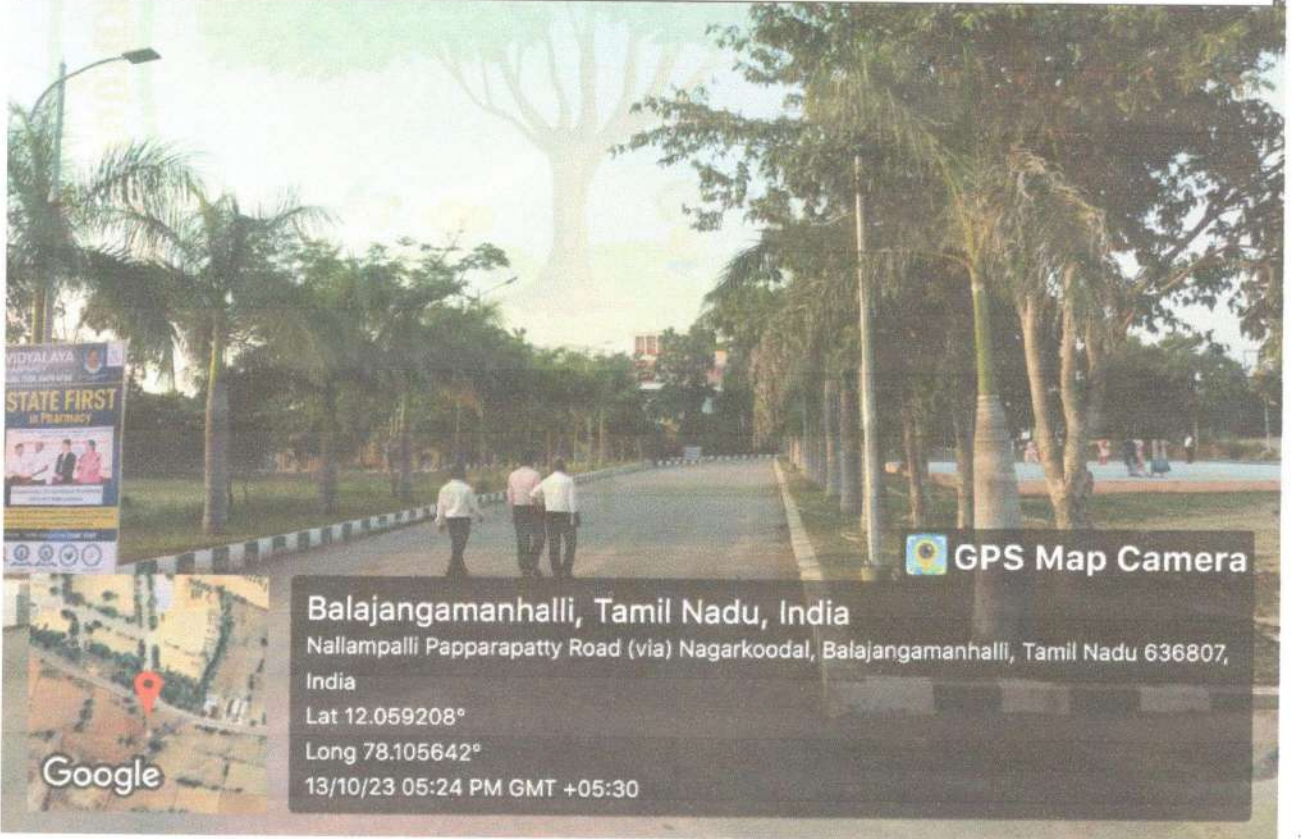
URN 80G : AAETG2371GF20221

Email : gettrustdpi@gmail.com

1) Pedestrian Path way

In SVVCAS Campus well planed and structured path war is provided for easy accessibility.

## PEDESTRIAN PATH WAY



Balajangamanhalli, Tamil Nadu, India

Nallampalli Papparapatty Road (via) Nagarkoodal, Balajangamanhalli, Tamil Nadu 636807, India

Lat 12.059208°

Long 78.105642°

13/10/23 05:24 PM GMT +05:30

For Green and Educational Trust

  
Managing Trustee



# பசுமை மற்றும் கல்வி அறக்கட்டளை தருமபுரி.

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## RECOMMENDATIONS

- Ensure adequate natural lights in the classroom
- Solar plant maintenance checklist to be implemented
- Control the use of pesticides and herbicides
- The campus is more of the wild tree, so more fruit trees can be planted
- Reusable waste can be more productively used.

For Green and Educational Trust

  
Managing Trustee



**Sri Vijay Vidyalaya College of Arts and Science,  
Nallampalli, Dharmapuri.**

(Affiliated to Periyar University, Salem-11, Tamilnadu, India)  
Recognized 2f and 12b under the UGC Act, 1956  
Accredited with A grade by NAAC.



**[2018-2023]**

**ENERGY AUDIT**

### CERTIFICATE FOR ENERGY AUDIT PROCESS

This is to certify that, we have conducted a detailed ENERGY AUDIT in M/s Sri Vijay Vidyalaya College of Arts and Science, Nallampalli, Dharmapuri, Tamilnadu-636807 during March 2023. The audit team has identified 6 Energy Conservation Proposals and the summary of the energy audit process is given below

S.No	Description	Parameters
1	Present Annual Consumption	620500kwh+220 of LPG
2	Present Annual Energy Cost	Nearly 6.65 Lakhs
3	Proposed % of Energy Savings	12.23 of Electrical +0.0432 of LPG
4	Proposed Annual Energy Savings	6986 Kwh +0.08kg of LPG
5	Proposed Financial Savings	1.45 Lakhs

#### Equipment/System Audited

Electrical System	Thermal System
Electrical System & Network	Motors & Water Pumping Systems
Lighting, Fan & Air Conditioning System	Boiler and Steam system
Inverter, UPS, and Battery system	LPG Consumption

(Audited and Academic Year 2022-2023)

For Morca Products Private Limited

Thank You

*S. Aranganathan*  
26/05/23  
Director







**Hi-Tech Solar & Power control**

GST-33CEAPK7251M1ZE

No; 37A, Adiyaman Bye-Pass Road,

Dharmapuri – 636701.

Office: 04342 -265 988

Mobile: 944 323 9315

Email: [hitechsolarpowercontrol@gmail.com](mailto:hitechsolarpowercontrol@gmail.com)

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(Audited and Academic Year 2022-2023)

Thank You



**"Make Sun as your Slave using our Projects and encourage Green Energy"**  
**THANK YOU FOR YOUR BUSINESS.....!!!!**