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**REPORTS ON GREEN, ENERGY AND ENVIRONMENT AUDITS  
SUBMITTED BY THE AUDITING AGENCY**



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**RASI ORGAMIC AND RASI SOLAR HAS DONE MULTIPLE  
PROJECTS FOR VYSYA COLLEGE, SALEM.**

**As per our system based the auditing report is generated by the company.**



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## AUDIT REPORT

This report contains Green audit, Energy audit Environment audit carried out at Vysya College, Salem , Tamilnadu 636 103 for the period of March 2021 to - Dec 2021.

Assessment Team


(Internal)

- DR.P.VENKATESAN , PRINCIPAL
- Dr. S. REVATHI, ASST. PROF. IN BIOCHEMISTRY
- Dr. P. HEMALATHA, ASST.PROF.IN. BIOTECHNOLOGY
- Ms. J. SUWETHA, ASST. PROF. IN BOTANY
- Ms. M. ANUSUYA, ASST. PROF. IN ZOOLOGY
- VIJAY.R, ASSIT.PROF IN ENGLISH ( Coordinator)

(External)

Mr.P.Ramesh, Rasi Solar and Rasi Organic, Rasipuram, Namakkal Dt.

  
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### ACKNOWLEDGEMENT

I thank Hon'ble Correspondent & Secretary **Thiru. J. Rajendraprasad** for assigning this important work of Green Energy and Environment. I appreciate the Cooperation extended during the entire process. My special thanks to Principal **Dr. P. Venkatesan** for giving me the necessary guidance and inputs to carry out this very important exercise of Green, Environment and Energy Audit.

  
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## **INTRODUCTION**

Green Audit, Energy Audit & Environment Audit aims to analyze the environmental practices within the Institution, which will have adverse impact on the eco-friendly ambience, by identification, recording, reporting and analyzing components of environmental diversity of the institution. The process of green audit enables the Institution to determine how and where they are using the most energy or water or other resources and provide a direction on improving the condition of environment and reveals the way in which an institution can reduce energy consumption, water use and reduction in emission of carbon dioxide in the environment. The institution can then consider how to implement changes and make savings through reduction of resource use.



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## METHODOLOGY

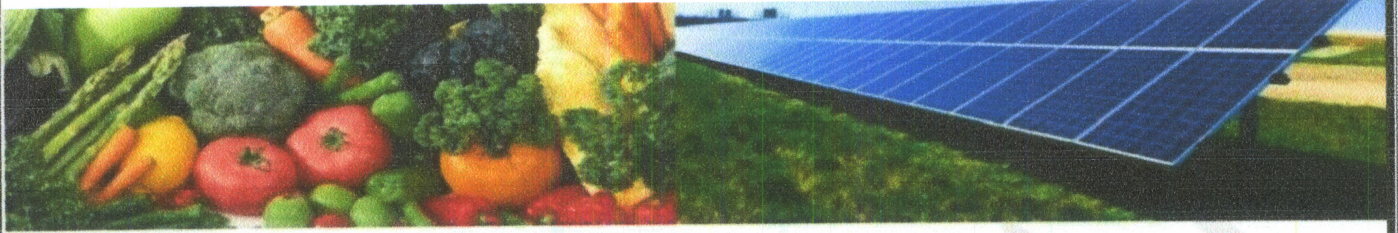
In order to perform Green, Energy & Environmental audit the methodology included different tools such as physical inspection of the campus, observation, review of the documentation, interviewing key persons, data analysis, measurements and recommendations. The study covered the following areas to summarize the present status in the campus.

1. Green area management
2. Waste management
3. Biodiversity conservation
4. Energy consumption patterns

  
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### OBSERVATIONS AND RECOMMENDATIONS

As per Rasi Organic , we are supplying organic products to maintain the Green environment inside the campus.

#### 1. Green area management

This indicates the plants, greenery, and sustainability of the campus to ensure the available Practices.

#### Observations

- Plantation is done surrounding the institute
- Institution is maintaining the existing and also added plantation to the landscape environment.
- We are using cow Dung, Vermi compost & Biogas plant waste is used as manure for plants, Trees, shrubs & Garden.
- We have Landscaping with LAWN up to 60 % ( Total Institution campus = 17 Acres).

#### Recommendations

- More fruit trees can be planted.
- Medicinal plants can be increased.
- Bamboo Trees, Thulshi plant ( produces more O<sub>2</sub> ) has to be planted.

  
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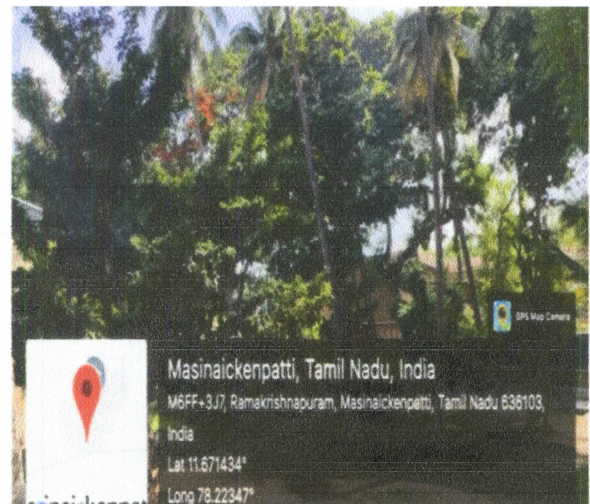
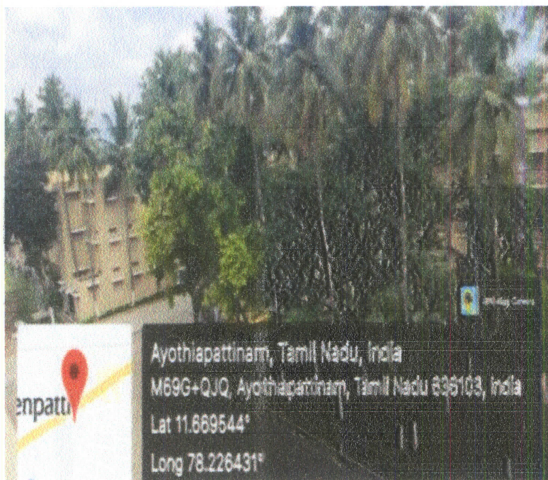


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## GREEN CAMPUS



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**COW-DUNG FOR MANURE**



**VERMI COMPOST FOR MANURE**

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## OBSERVATIONS AND RECOMMENDATIONS

### 2. Waste management

This indicator address waste production and disposal of different wastes like paper, food, plastics, biodegradable constructions, glass, dust etc.,

#### Observations

- The waste management is well organized in the institution.
- Buffet system is in place for effective food distribution in canteen/ mess.
- Don't waste food poster is placed inside canteen/ mess
- Communication is made with respect to minimize/ prohibit the use of plastic's inside the campus

#### Recommendations

- Reuse construction waste, paper waste
- Increase dustbins as per the waste generated and ensure its accessibility to everyone inside the campus.
- Degradable waste can be given to the Local Panchyath for disposal.

## WASTE WATER PURIFIER



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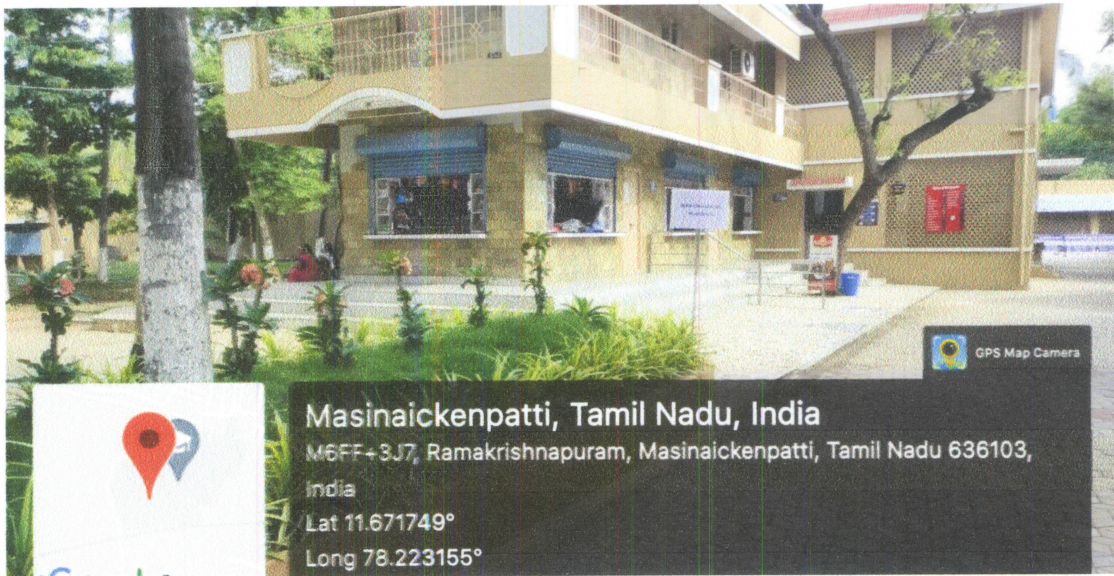
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### WATER SOFTNER PLANT



### BAN ON PLASTICS



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### 3. Biodiversity conservation

This indicates the extent of flora and fauna inside the campus and initiatives adopted by the institution for maintenance and observation

#### Observations

- Garden and lawns are well maintained
- Campus is lush green with plantation of trees, shrubs
- We are using cow Dung, Vermi compost & Biogas plant waste is used as manure for plants, Trees, shrubs & Garden.
- Biogas plant has been installed & Biogas plant waste is used for Garden, Plants & Trees.

#### Recommendations

- Promote sustainable activities such as cleaning area around the college outside the compound.
- Control the use of hazardous substances such as pesticides and herbicides.
- Botanical garden with wide variety of plants can be planted and Bio diversity events can be organized .
- Plantation on important days such as "Environmental Day" Check pollution level within the campus periodically.



**COW-DUNG FOR MANURE**



**VERMI COMPOST FOR MANURE**

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### GARDEN



### BIOGAS PLANT



### GARDEN



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#### 5. Energy consumption patterns:

This indicates the existing energy consumption pattern setting reference points and areas of improvement.

#### Observations

- Solar plant is installed to meet certain energy requirements
- Old bulbs are replaced with LED bulbs
- Automatic sensor lights have been installed.

#### Solar plant specifications

- As per solar technology 1 KWA is generating 4 units to 5 units per day average of 365 days.
- We have installed 10 KWA solar power plants at our institutions.
- 1 KWA produce power of 4 Unites per day/ 365 days average, so  $10 \text{ KWA} \times 4 \text{ Units} = 40 \text{ Units per day}$ .
- $40 \text{ Units} \times 30 \text{ Days} = 1200 \text{ Units per month}$ .
- $1200 \text{ Units} \times 12 \text{ Months} = 14,400 \text{ Units Appx}$ .
- 1 Units Cost = Rs 7.50
- $14,400 \text{ Units} \times \text{Rs } 7.50 = \text{Rs } 108000/ \text{ Per Annum}$

#### Recommendations

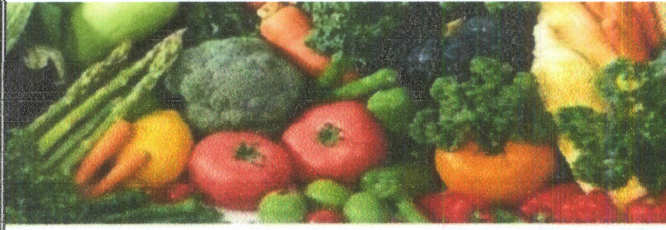
- Update equipment's in the campus facility as per needs.
- Ensure adequate natural lights in the classrooms, Well Motors, Bore well motors & AC's
- Solar plant maintenance checklist to be implemented.
- As of now 14000 Units power is generated and save the environment. Within couple of months, we will be migrating to 10KWA to 30KWA.
- $30 \text{ KWA} \times 4 \text{ Units} = 120 \text{ Units per day}$ .
- $120 \text{ Units} \times 30 \text{ Days} = 3,600 \text{ Units per month}$ .

  
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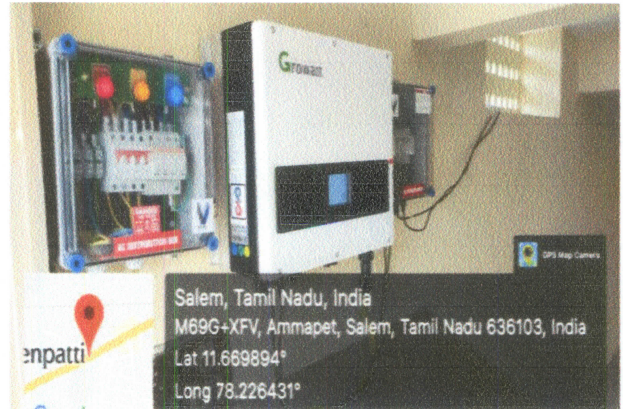
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- 3,600Units X 12 Months = 43,200 Units Appx.
- 1 Units Cost = Rs 7.50
- 43,200 Units X Rs 7.50 = Rs 3,24000/ Per Annum

### SOLAR POWER PLANT



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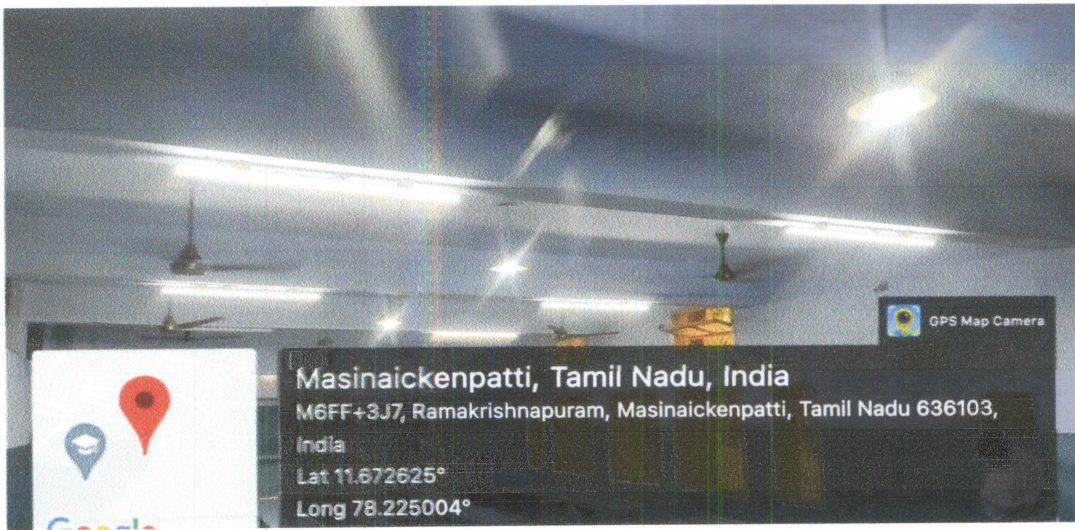


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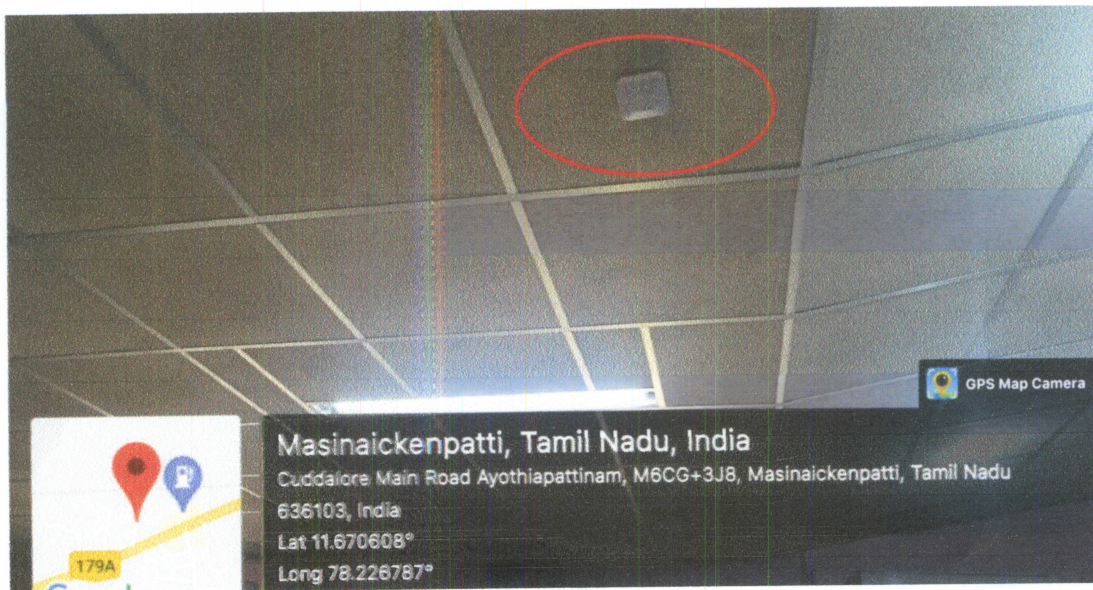
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### LED BULBS



### SENSOR BASED ENERGY CONSERVATION



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### CERTIFICATE FOR ENERGY AUDIT PROCESS

This is to certify that, we have conducted a detailed **ENERGY AUDIT** in Vysya College , Salem, TamilNadu 636 103 during March 2021. The audit team has identified **11 Energy Conservation Proposals (ENCONS)** and the Summary of the Energy Audit process is given below.

| S.No | Description                                   | Parameters                      |
|------|---|---------------------------------|
| 1.   | Present Annual Energy Consumption             | 14,400kWh + 680 kg of LPG       |
| 2.   | Present Annual Energy Cost                    | Nearly Rs 12,00000/-            |
| 3.   | Proposed % of Energy Savings (through (ENCON) | 0.9% of Electrical + 8 % of LPG |
| 4.   | Proposed Annual Energy Savings                | 43,200 kWh + 200 kg of LPG      |
| 5.   | Proposed Financial Savings                    | 3,24,000                        |
| 6.   | Initial Investment Required                   | Rs. 14 Lakhs                    |
| 7.   | Simple Payback Period                         | 4.2 Years                       |

#### Equipment's/ Systems Audited:

| Electrical System                       | Thermal System                 |
|---|--------------------------------|
| Electrical System & Network             | Motors & Water pumping Systems |
| Lighting, Fan & Air conditioning System | Boiler and Steam system        |
| Inverter, ONLINE UPS and Battery system | LPG Consumption                |

(Audited and Accounted for Academic year 2020-21) Thank You

Yours Truly

(Mr.P.RAMESH)

For RASI ORGANIC & SOLAR

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**CERTIFICATE FOR ENVIRONMENTAL AUDIT PROCESS**

This is to certify that, we have conducted a detailed **ENVIRONMENTAL AUDIT** in **Vysya College, Salem, Tamil Nadu 636 103** during **March 2021**. This Audit process highlights the present CO<sub>2</sub> emission and methods adopted to neutralize the same in the college campus.

| S.No | Description  | Type of fuel and their CO <sub>2</sub> Conversion process |                     |                    |        |
|------|--|---|---------------------|--------------------|--------|
|      |  | Electricity   | Diesel              | Petrol             | LPG    |
| 1.   | Total Annual Consumption   | 60,402 kWh  | 22,625(Vehicle +DG) | 830Litre (Vehicle) | 680 kg |
| 2.   | CO <sub>2</sub> emission(Tons/Annum)                             | 195.2   | 99.6                | 1.8                | 2.2    |
| 3.   | Total CO <sub>2</sub> emission                                   | 148.2 Tons/ Annum (↑)                                     |                     |                    |        |
| 4.   | No. of Matured trees available                                   | 171   |                     |                    |        |
| 5.   | CO <sub>2</sub> neutralized due to trees                         | 1.597 Tons/ Annum (↑)                                     |                     |                    |        |
| 6.   | CO <sub>2</sub> neutralized after implementing ECON (Electrical) | 10.9 Tons/ Annum (↓)                                      |                     |                    |        |
| 7.   | CO <sub>2</sub> neutralized after implementing ECON (LPG)        | 0.100 Tons/ Annum (↓)                                     |                     |                    |        |
| 8.   | Amount of CO <sub>2</sub> to be Neutralized (Final)              | 17.651 Tons/ Annum (→)                                    |                     |                    |        |

|  |  |
|--|--|
| <b>System Audited</b><br>Electricity Consumption | <b>System Inspected</b><br>Solid and E-waste Handling & Management |
| Diesel Consumption (Vehicles+ DG)                | Usage of Chemical, Salts & Acids                                   |
| LPG Consumption                                  | Water Purifier and Distribution System                             |

(Audited and Accounted for Academic year 2020-2021)Thank You

Yours Truly

(M.P.RAMESH)

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### **CERTIFICATE FOR GREEN AUDIT PROCESS**

This is to certify that, we have conducted a **GREEN AUDIT PROCESS** in **Vysya College, Salem, Tamil Nadu 636 103** during **March 2021**. This audit process investigates the following activities.

- I. Coverage of matured trees (Nearly 700 trees available in the college campus).
- II. Innovate ways to harvest rain water (Both from buildings and in run-off).
- III. Initiatives taken to promote green coverage inside the College campus.
- IV. Possibilities to implement various renewable energy systems for regular activities.

(Audited and Accounted for Academic year

2020-2021)Thank You

Yours Truly

(Mr.P.RAMESH)

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