



"Solutioning" in the Consultation/Training/Auditing

Certificate of Completion

This is to certify that

Aarupadai Veedu Institute of Technology (AVIT)
School of Arts and Science (SAS)
School of Architecture and Planning (SAP)

(Constituent College and Schools of Vinayaka Mission's Research Foundation)
AVIT Campus, Rajiv Gandhi Salai (OMR) Palyanoor, Kancheepuram (Dt), Tamilnadu

has Successfully Completed

Environmental Audit

*The study was completed by TULASI EOHS CONSULTANCY,
CHENNAI*

Dr. Vanisri Arunachalam

Er. C. Madhan Mohan

For TULASI EOHS CONSULTANCY SERVICES

Date :19-11-2020

Place : Chennai

ESTATE OFFICER
Vinayaka Mission's Research Foundation
(Deemed to be University)
Ariyanoor, Salem - 636 308. Tamilnadu.

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VINAYAKA MISSION'S RESEARCH FOUNDATION

(Deemed to be University under section 3 of the UGC Act 1956)

7.1.6_4.ENVIRONMENT AUDITS

B. AUDIT REPORTS

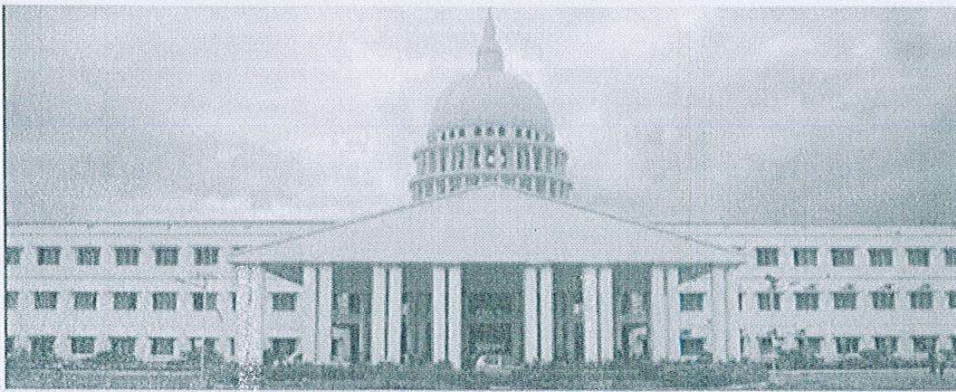
B. Jayaram

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"Solutioning" in the Consultation/Training/Auditing
ENVIRONMENTAL AUDIT REPORT OF
Aarupadai Veedu Institute of Technology(AVIT),
School of Arts and Science(SAP),
School of Architecture and Planning(SAP)
Kancheepuram



SAS
SCHOOL OF ARTS AND SCIENCE



SAP
SCHOOL OF ARCHITECTURE & PLANNING



Council of Architecture

Submitted By
TULASI EOHS CONSULTANCY SERVICES

B. Jayaraj

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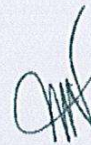
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This is to certify that the following utilities were carried out Environmental audit in the month of October 2020.

Details of Facilities Audited: Main college building including: Laboratories, Libraries, Hospitals, All departments and Hostel and college Canteen.



Dr. Vanisri Arunachalam



Er. C. Madhan Mohan

Authorized Signatory

For TULASI EHS CONSULTANCY SERVICES

Date : 26-10-2020

Place : Chennai



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B. Jeyaraj

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1. INTRODUCTION


Achieving a balance between the environment, society and the economy is considered essential to meet the needs of the present without compromising the ability of future generations to meet their needs. Sustainable development as a goal is achieved by balancing the three pillars of sustainability.

Societal expectations for sustainable development, transparency and accountability have evolved with increasingly stringent legislation, growing pressures on the environment from pollution, inefficient use of resources, improper waste management, and climate change, degradation of ecosystems and loss of biodiversity.

According to World Bank, environment audit is a methodical examination of environmental information about an organization, a facility, or a site, to verify whether, or to what extent, they conform to specified audit criteria. The criteria may be based on local, national, or global environmental standards. Thus, it is a systematic process of obtaining and evaluating information about environmental aspects.

The International Organization of Supreme Audit Institutions (INTOSAI) framework definition of environment auditing is:

- Environment auditing is not significantly different from normal auditing as practiced by Supreme Audit Institutions (SAI's).
- Environment auditing can encompass all types of audit, i.e., financial, compliance and performance audits. With respect to performance audits, the three E's of Economy, Effectiveness, and Efficiency can be included. The adoption of the fourth E, that is 'Environment', depends on the SAI's mandate and its government's environmental policy, which is desirable but not critical, in carrying out environment audit.
- The concept of sustainable development can be a part of the definition of environment audit, only if it is a part of the government policy and/or program to be audited.


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2. OBJECTIVES OF ENVIRONMENTAL AUDITING

- An environmental audit programme which is designed and implemented properly can enhance an organizations environmental performance.
- Monitoring the scale of optimum utilization of the resources and evaluating the company at national & international level.
- To suggest for using alternative energy for the conservation of energy resources.
- Evaluation of waste water quality and determination of waste water characteristics & their effects on the living system.
- Classification of the categories of solid waste hazardous waste their sources, quantities & characteristics.
- Introduction and implementation of time saving technologies in regular operations.
- Maintains of Labour / Occupational health & medicine.
- Proper documentation of environmental compliance status.
- To help in minimizing the wastes through modern cleaner technologies.
- Regular environmental auditing once in a year will help in producing environmentally educated & technically sound personnel's.

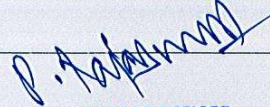
3. ENVIRONMENTAL AUDIT SCHEME AND ITS COMPONENTS

This particular tool is very important aspect of the environmental audit for the total management system in terms of its being an asset or a liability for the industry's environmental performance. Environmental system is with a broad aim for a green environment.

It helps in reducing waste.

- ➔ It helps in assessing compliance with regulatory requirement.
- ➔ It also helps in prevention control of effect of pollutant.


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- ➡ It promotes relationship between qualified technician professionals, individual industries, State Pollution Control Board, other public authorities, and industrial association etc.

Environmental Audit Scheme (EAS) has three following components.

1. State Pollution Control Board

2. Internal Auditor Board

3. External Auditor

1. State Pollution Control Board

It plays an active role in implementing the environmental audit effectively. The steps involved in state pollution control board are mentioned. To prepare format of audit report on all the aspect of environmental protection.

- ➡ Evaluation and verification of audit reports.
- ➡ Initiating the action on evaluated report.

2. Internal Auditor-The selection of auditor consist of experienced experts from various backgrounds. A qualified auditor should be required, as per the rules of State Pollution Control Board with well-equipped laboratory facility for analysis of water and air samples, which can be taken care by the State Pollution control board itself.

3. External Auditor -Team should be approved by State Pollution Control Board. Evaluated and verified reports have to send their comments to State Pollution Control Board for further action.

As per the Comptroller and Auditor General of India

- ➡ The audits can be divided into five categories—
 - (i) Air issues
 - (ii) Water issues
 - (iii) Waste
 - (iv) Biodiversity
 - (v) Environment Management System, but these categories can be subdivided to avoid a tunnel vision

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Framework for campus sustainability

Environmental Management and sustainability in educational campuses

EMS In educational Campus

Green campus to showcase students where they learn and implement those ideas when they go

Environmental management system and sustainability cell in educational institutions

Conferences, seminars, workshops related to sustainable development energy, efficacy etc

Sustainability aspects should be included in course curriculum

Research and development on climate change, energy efficiency, sustainable development

Students and faculty participation in Environmental Management

Involvement of students and community for awareness and participation in different projects

Social justice chance to get education to students (poor/handicap) who are not able to get education

Sustainability aspects in research and teachings

Students and faculty participation project and social equity

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P. Anand

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4. EXECUTIVE SUMMARY

Air quality Management – The Institution is in an area with greenery and hence, the quality of air is good. But usage of Generator and other utility activities may increase the air pollution hence the air quality to be monitored.

Water Management – As such, wise use of water is a general practice in Institution. Rain water harvesting and the Institution has a water treatment plant in the campus and the recycled water is used for green campus.

Waste Management – Particularly the bio medical waste is controlled by the waste management controlling officer.

Energy Management – Solar Panel was installed in the campus and the total energy production through the solar panel is 126 Kilo Watt , which manage the 20% of the university's power requirement, The street lamps inside the campus are using the solar energy.

Landscape – The Green Cover of the colleges campus is well maintained by full time gardeners.

Transportations – Various initiatives taken by the Institution as an effort for carbon neutrality.


Built up environment – In general, the built-up environment is eco-friendly and there is a need for adopting green habitat concept in future planning of buildings wherever possible.

Environmental Awareness to student and public – Campus cleaning day is followed periodically with about 200 students participating as part of awareness creation.

Environmental Awareness Programme- on Biodiversity Conservation – Vermicomposting – Awareness to Public including local farmers in Pandithamedu Village, Kanchipuram District, funded by Ministry of Environment and Forests (MOEF).

Campus cleaning day is followed periodically with about 200 students participating as part of awareness creation.

Student volunteers involved in Environment awareness programs.


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5.EMS REQUIREMENTS

A. Main Block

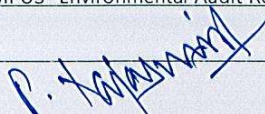
Date: 23-10-2020

REQUIREMENTS	Assessor's Notes of Objective Evidences / Finding Reference																						
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4.4.3 Internal Communication	Internal communication by floor Coordination Meetings, Display Boards, Internal Office Memos, circulars.																						


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REQUIREMENTS	Assessor's Notes of Objective Evidences / Finding Reference
4.4.5 Control of documents	The organization has established, implemented, and maintains a procedure for controlling all the documents defined under the EMS with respect to approving, reviewing, updating and re-approving. Also ensures that changes and current revision status of documents are identified, relevant versions are available at point of use and the documents are legible and readily identifiable.
4.4.6 Operational Control	Air quality monitored from time to time as verified in report Noise level monitored and recorded.
4.4.7 Emergency Preparedness and Responses	Emergency incidents are identified those that may not be regulated but may still cause significant impact as defined by the organization. As part of continual improvement, it is required that the organization not only responds to emergency situations but has to review and make improvements necessary through periodic testing.
4.5.1 Monitoring & Measurement.	The process results are monitored against objectives and targets.
4.5.3 Nonconformity, Corrective Action and Preventive Action.	All the System Nonconformities recorded in IQA – CAR format.
4.5.4 Control of Records.	The organization has established, implemented, and maintains all the relevant records for the Identification, storage, protection, retrieval, retention and disposal of environmental records.



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B. Library**Date: 23-10-2020**

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4.5.4 Control of Records	The organization has established, implemented, and maintains all the relevant records for the Identification, storage, protection, retrieval, retention, and disposal of environmental records.


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C. Hostel and canteen

Date: 23-10-2020

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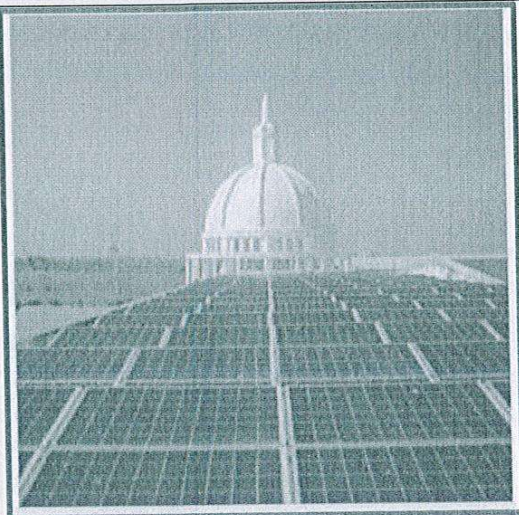
D. All Departments**Date: 23-10-2020**

4.3.1 Relevant Env.																									
Aspects/Impacts	<table border="1"> <thead> <tr> <th data-bbox="657 304 1003 340">Aspects:</th><th data-bbox="1003 304 1287 340">Impacts</th></tr> </thead> <tbody> <tr> <td data-bbox="657 340 1003 378">Usage of Electricity</td><td data-bbox="1003 340 1287 378">Resource Depletion</td></tr> <tr> <td data-bbox="657 378 1003 468">Usage of water</td><td data-bbox="1003 378 1287 468">Depletion of Natural Resources.</td></tr> <tr> <td data-bbox="657 468 1003 504">Usage of Mops & Wipers</td><td data-bbox="1003 468 1287 504">Resource Depletion</td></tr> <tr> <td data-bbox="657 504 1003 539">Usage of Brooms</td><td data-bbox="1003 504 1287 539">Resource Depletion</td></tr> <tr> <td data-bbox="657 539 1003 575">Usage of Clothes & Saw dust.</td><td data-bbox="1003 539 1287 575">Resource Depletion</td></tr> <tr> <td data-bbox="657 575 1003 611">Usage of Washing Materials</td><td data-bbox="1003 575 1287 611">Resource Depletion</td></tr> <tr> <td data-bbox="657 611 1003 667">Generation of Waste clothes/cotton</td><td data-bbox="1003 611 1287 667">Land Contamination</td></tr> <tr> <td data-bbox="657 667 1003 724">Generation & Disposal of Waste paper,</td><td data-bbox="1003 667 1287 724">Land Contamination</td></tr> <tr> <td data-bbox="657 724 1003 781">Generation of Waste Plastics materials</td><td data-bbox="1003 724 1287 781">Land Contamination</td></tr> <tr> <td data-bbox="657 781 1003 858">Generation & Disposal of Food Waste</td><td data-bbox="1003 781 1287 858">Land Contamination</td></tr> <tr> <td data-bbox="657 858 1003 1041">Statutory nuisance</td><td data-bbox="1003 858 1287 1041">Disruption to quality of life/working condition: noise, vibration, odours, littering, dust, smoke, traffic, light/glaring, visual impact, physical hazard,</td></tr> </tbody> </table> <p data-bbox="638 1041 1339 1113">Adequate Environmental measures have been evidenced for the above mentioned aspect and Impact</p>	Aspects:	Impacts	Usage of Electricity	Resource Depletion	Usage of water	Depletion of Natural Resources.	Usage of Mops & Wipers	Resource Depletion	Usage of Brooms	Resource Depletion	Usage of Clothes & Saw dust.	Resource Depletion	Usage of Washing Materials	Resource Depletion	Generation of Waste clothes/cotton	Land Contamination	Generation & Disposal of Waste paper,	Land Contamination	Generation of Waste Plastics materials	Land Contamination	Generation & Disposal of Food Waste	Land Contamination	Statutory nuisance	Disruption to quality of life/working condition: noise, vibration, odours, littering, dust, smoke, traffic, light/glaring, visual impact, physical hazard,
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4.3.2 Legal and other Requirements	Resources for ensuring compliance with all legal requirements provided and maintained.																								
4.4.1 Resources, Roles, Responsibility & Authority	Roles and responsibilities for personnel responsible for implementation of the system documented and maintained.																								
4.4.2 Competence, awareness and training for personnel involved	It has been ensured that personnel performing tasks for or on company Behalf that have the potential to cause significant environmental impacts are competent on the basis of appropriate education, training and/or Experience																								
4.4.3 Internal Communication	Internal communication by floor Coordination Meetings, Display Boards, Internal Office Memos, circulars.																								

REQUIREMENTS	Assessor's Notes of Objective Evidences / Finding Reference
4.4.5 Control of documents	The organization has established, implemented and maintains a procedure for controlling all the documents defined under the EMS with respect to approving, reviewing, updating and re-approving. Also ensures that changes and current revision status of documents are identified, relevant versions are available at point of use and the documents are legible and readily identifiable
4.4.6 Operational Control	Air quality monitored from time to time as verified in report Noise level monitored and recorded.
4.4.7 Emergency Preparedness and Responses	Emergency incidents are identified those that may not be regulated, but may still cause significant impact as defined by the organization. As part of continual improvement, it is required that the organization not only responds to emergency situations but has to review and make improvements necessary through periodic testing
4.5.1 Monitoring & Measurement	The process results are monitored against objectives and targets.
4.5.3 Nonconformity, Corrective Action and Preventive Action	All the System Non conformities recorded in IQA – CAR format.
4.5.4 Control of Records	The organization has established, implemented and maintains all the relevant records for the Identification, storage, protection, retrieval, retention and disposal of environmental records.


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6. BEST PRACTICES /INITIATIVES FOR ENVIRONMENT

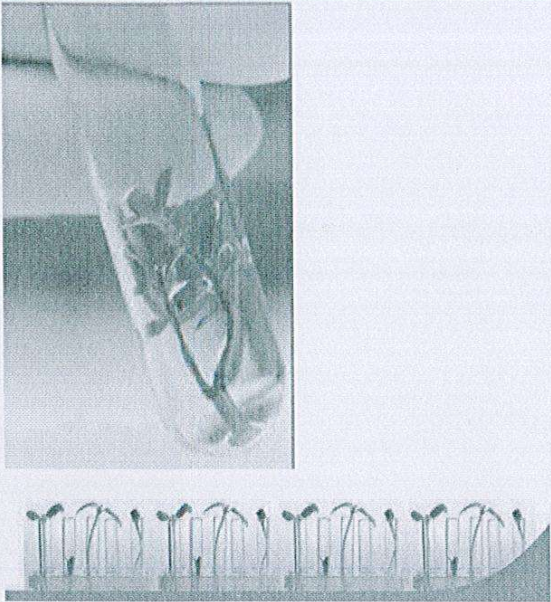
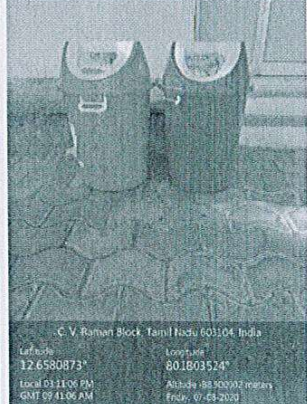
SR NO	DESCRIPTION	REMARKS
1	Renewable Energy Solar Panels <ul style="list-style-type: none"> 126 kWp solar power plants have been setup on the top of the main building. To that extent EB consumption has been reduced and hence non-renewable energy consumption to generate 126 kW is reduced and CO₂, SO₂, SPM emissions reduction have been achieved. Moreover, many solar energy related student projects have been undertaken in Thermal and Electrical Engineering programs. 600 units per day generation of power 	
2	LED Lights	<ul style="list-style-type: none"> Energy Efficient LED Lights of quantity 500 has installed which lead to saving of power consumption of 21600 units per annum.

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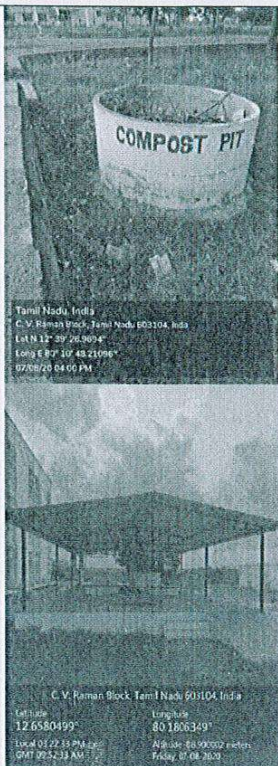
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3	<p>Center for Plant Tissue Culture</p> <ul style="list-style-type: none"> Worldwide plant tissue culture is being utilized as an essential tool to meet green economy of the country. Plantlets are grown in large number from isolated cells or tissues under sterile and controlled conditions outside the parent plant Tissue culture techniques are being exploited in this laboratory to multiply plants which are difficult to propagate by conventional means Department of bio-technology , Govt of India, funding for this . 	
4	<p>Segregation of wastes:</p> <p>A separate box placed in C.V . Raman block for waste segregation and recycling campaign, with color coding on each box .</p>	

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5	Composting pit Waste generated in the college has managed through the compost pit and composting yard.	 <p>Tamil Nadu, India C.V. Ramana Block, Tamil Nadu 603104, India Lat N 12° 49' 26.8004" Long E 77° 10' 45.2106" 07/08/20 04:05 PM</p> <p>C.V. Ramana Block, Tamil Nadu 603104, India Latitude: 12.8240499° Longitude: 77.1788349° Local 07/22/20 PM GMT 05:52:33 AM Friday, 07/08/20</p>
6	Biogas plant Kitchen waste based biogas generation is in the pipeline for the campus waste as well as for the waste of nearby villages	

- Note: More best practices if any shall be submitted by the institution

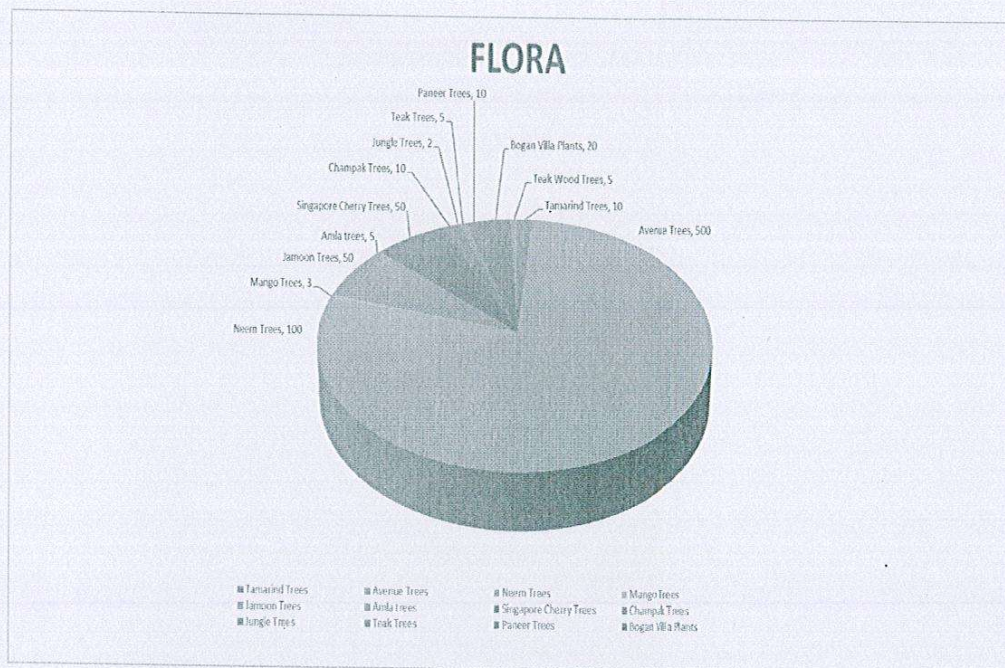
7. FLORA & FAUNA (AVIT, SAP & SAS)

DESCRIPTION- FLORA	QTY
Tamarind Trees	10
Avenue Trees	500
Neem Trees	100
Jack Fruit Trees	0
Mango Trees	3
Coconut Trees	0
Jamoon Trees	50
Amla trees	5
Singapore Cherry Trees	50
Champak Trees	10
Jungle Trees	2
Teak Trees	5
Paneer Trees	10

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Bogan Villa Plants	20
Teak Wood Trees	5
Total	770
DESCRIPTION- FAUNA	Zoological name
SPIDERS	Araneae
Reptiles	Reptilia
Birds	Aves
Mammals	Mammalia

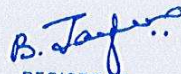
SI No	Tree Names	15-16	16-17	17-18	18-19	19-20
1	Tamarind Trees	10	0	0	0	0
2	Avenu Trees	420	50	30	0	0
3	Neem Trees	80	10	10	0	0
4	Jack Fruit Trees	0	0	0	0	0
5	Mango Trees	3	0	0	0	0
6	Coconut Trees	0	0	0	0	0
7	Jamoon Trees	45	0	5	0	0
8	Amla Trees	0	2	2	0	1
9	Singapore Cherry Trees	20	10	10	0	10
10	Champak Trees	2	1	3	0	4
11	Jungle Trees	2	0	0	0	0
12	Teak Trees	5	0	0	0	0
13	Panner Trees	5	4	0	1	0
14	Bogan Villa Plants	17	1	1	0	1
15	Teak Wood Trees	4	0	1	0	0
TOTAL		613	78	62	01	16



8. RECOMMENDATIONS/SUGGESTION

Positive points

- **Energy Management**- Solar Panel was installed in the campus and the total energy production through the solar panel is 126 Kilo Watt , which manage the 20% of the university's power requirement, The street lamps inside the campus are used the solar energy. Staggering of electric power loads to reduce maximum demands.
- **Water Management** –Rainwater harvesting, and the Institution has a water treatment plant in the campus and the recycled water is used for green campus.
- **Landscape** – The Green Cover of the constituent colleges and university campus is well maintained by full time gardeners.
- **Efforts of carbon neutrality:**
 - Prevention of pollution of by following methods
 - PUC vehicles are only allowed
 - Car pooling
 - Tree Sampling


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- Reduction of paper usage
 - judicious use of printers
 - Online application forms
- Plastic free zone
 - Discouraged use of polythene
 - Awareness programs for students and faculty through plastic free cell
- **Bio-gas plant** installed in the campus.
- **Awareness program on**
 - Environment (Through NEAC).
 - Renewable Energy Resources (Through Renewable Energy Mela).

Opportunity for improvements

- **E-Waste Management:** More steps to be taken to handle the E-waste segregation, storage, and disposal as per legal requirements, Form-3 to be maintained for Inventory. And shall be disposed to an authorized vendor.
- **Plastic Waste:** The generators of plastic waste, shall segregate and store the waste generated by them in accordance with the Municipal Solid Waste (Management and Handling) Rules, 2000 It shall be disposed to local body to ensure that the wastes are disposed in an environment friendly manner.
- **Hazardous wastes:** No information about the segregation, storage, and disposal of Hazardous wastes.

9. CONCLUSIONS

Even though the college does perform well, the recommendations in this report Highlight many ways in which the college can work to improve its actions and become a more sustainable institution.

Environmental audit is carried out to provide an indication to management about how the environmental Organization system and equipment's are performing.

As a result, the best practicable means can be applied to preserve air, water, soil, plant

and animal life from the adverse effect.

- Adopt the proposed Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact of its purchasing decisions
- Introduce a policy of non-acceptance of products packaged in non-recyclable materials and continuously improve the handling of solid waste. Avoid mixing dangerous waste with contaminated waste.
- Regulate the flow of water by installing economy systems in washrooms, showers, cleaning areas and restrooms. Substitute conventional valves for economy valves to reduce the volume of water when flushing the toilet, and substitute 12-liter cisterns for 6-liter ones.
- Even though the college does Noise monitoring, the observed value is higher than the noise pollution (Regulation and control) Rules, 2000 as 76dB(A) during day and 62 dB(A) in the entrance porch area.
- As per Ambient Air Quality Standards in respect of Noise " An area comprising not less than 100 meters around hospitals, educational institutions and courts may be declared as silence area / zone for the purpose of these rules" Hence the observed values inside the institution is more than the Scheduled values.
- Hence the observed values during daytime is 76dB(A) is **shall be 55dB(A)** and during night time 62dB(A) **shall be 40 dB(A), as recommended in the Ambient Air Quality standards in respect of Noise.**
- Recommend using bi-cycles inside the campus.
- Hazardous wastes shall be disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Totally 3107 kg's of Hazardous wastes of different categories mentioned in Sustainability Data-2019.

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