

# GREEN AUDIT REPORT- 2021

Submitted to



**Avinashilingam Institute for Home Science and Higher Education for Women**

(Deemed to be University under Category 'A' by MHRD Estd. u/s of UGC Act 1956)

Re-accredited with 'A++' Grade by NAAC, NAAC.CGPA 3.65/4, Category I by UGC)

Recognized by UGC Under Section 12B

Coimbatore – 641 043, Tamil Nadu, India



Prepared by



## NATURE SCIENCE FOUNDATION

A Unique Research and Development Centre for Society Improvement

(ISO 9001:2015, 14001:2015, 45001:2018 & 50001:2018 CERTIFIED ORGANIZATION & MINISTRY OF MSME REGISTERED ORGANISATION)

COIMBATORE - 641 004, TAMIL NADU, INDIA.



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Green Audit

## 1. Introduction

Green auditing is a means of assessing environmental performance. It is a systematic, documented, periodic, and objective review by regulated entities of facility operations and practices related to meeting environmental requirements. It is otherwise the systematic examination of the interactions between any operation and its surroundings. This includes all emissions to air; land and water; legal constraints; the effects on the neighbouring community; landscape and ecology; the public's perception of the operating company in the local area. Green audit does not stop all compliance with legislation. Nor is it a 'green washing' public relations exercise. Rather it is a total strategic approach to the organisation's activities (CBI, 1990).

## 2. Green Audit Approach and Plan of Action

1. Audit is a systematic approach.
2. Audit is conducted objectively.
3. Auditor obtains and evaluates evidence.
4. Evidence obtained and evaluated by the auditor concerns assertions about economic actions and events.
5. Auditor ascertains the degree of correspondence between assertions and established criteria.
6. Goal, or objective, of the audit is communicating the results to interested users

## 3. About the Institution

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore was established as an aided college by the great patriot and educationist **Padma Bhushan Dr. T.S. Avinashilingam** under the auspices of the Avinashilingam Education Trust in 1957 with 45 women students. **Dr. Rajammal P. Devadas**, the doyen of Home Science nurtured the institution to what it is today. The Institute follows the educational ideals of Sri Ramakrishna, Holy Mother Sri

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Saradamani Devi, Swami Vivekananda and Mahatma Gandhi and upholds a life of purity, discipline and service. The saga of excellence and legacy created by the visionaries has been carefully nurtured and carried forward by a team of devoted functionaries. Presently, **Dr. T.S.K. Meenakshisundaram**, Managing Trustee, Sri Avinashilingam Education Trust, **Dr. Premavathy Vijayan**, Vice Chancellor and **Dr. S. Kowsalya**, Registrar are carrying forward the transformative vision to place the Institution at its zenith. It is now one of the largest institutions in the country imparting quality education to women at all levels. From time immemorial, the Institutional activities are focussed on providing education with academic excellence, vitality of culture and values and social relevance. The Institute's educational process is to produce respectful, peaceful, honest and responsible people, through an ethos, within the institute, in which the aforementioned values are the hallmark of how the Institute organises itself into.

The institution has risen from a humble beginning to great heights and has strived hard to maintain the standards required of it as a **deemed to be university**. The highest category for Deemed Universities namely **Category "A"** was awarded by the Ministry of Human Resource Development (**MHRD**) (vide MHRD letter dated 19.10.2012). The institute has gone through accreditation and reaccreditation process in 1999, 2005 and 2013 and the latest re-accreditation is "A" grade by the National Assessment and Accreditation Council (vide NAAC letter dated 09.07.2013). As a proof of research development in the institution, it has been selected as one of the women's Universities to receive **DST CURIE** funding for procuring high end equipments for research activities. The UGC had identified the institute to co-ordinate the development of e- content -Production of Courseware – **e-content Development for Post Graduate Subjects (e-PG-Pathshala) in Food Science and Nutrition and in Home Science** to a tune of Rs. 2.24 crore. The UGC Committee, unanimously recommended inclusion of **Avinashilingam Institute for Home Science and Higher Education for Women** in the list of Universities under section 12B of the UGC Act, 1956 to become eligible to receive Central

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**Assistance.** The institution was reaccredited by NAAC (4<sup>th</sup> cycle) with A+ at a CGPA of 3.49 out of 4.00 in 2019

#### 4. Audit Details:

- Audit Date : 20.10.2020 (Tuesday)
- Venue : Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore- 641 043, Tamil Nadu. (Campus- I ) and School of Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Ayya Avinashilingam Nagar, Varapalayam, Thadagam Post, Coimbatore - 641 108, Tamil Nadu (Campus- II)
- Audited by Nature Science Foundation, Coimbatore, Tamil Nadu
- Audit type is Green Campus Audit

#### 5. Audit Team:

1. Dr. B. Anirudhan. M.Sc., Ph.D Principal (NASC)
2. Dr. D. Vinothkumar M.Sc., M.Phil., Ph.D., FNSF., Joint Director



#### 5. Objectives of the study:

1. **Verifying compliance:** Verifying compliance with standards or best available techniques.
2. **Identifying problems:** Detecting any leakage, spills or other such problems with the Operations and processes
3. **Formulating environmental policy:** Formulating the organisation's Environmental Policy if there is no existing policy.
4. **Measuring environmental impact:** Measuring the environmental impact of each and every process and operation on the air, water, soil, worker health and safety and society at large.
5. **Measuring performance:** Measuring the environmental performance of an organisation against best practices.

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**6. Confirming environmental management system effectiveness:**  
Giving an indication of the effectiveness of the system and suggestions for improvement.

**7. Developing the organization's environmental strategy:** Enabling Management to develop its environmental strategy for moving towards a Greener corporate and performance culture.

**8. Communication:** Communicating its environmental performance to its stakeholders will improve the awareness.

**6. General steps:**

1. Systematic and comprehensive data collection
2. Documentation with physical evidences
3. Independent periodic evaluation with regulatory requirements and appropriate standards
4. Systematic and comprehensive improvement and management of existing system.

**7. Onsite audit activities:**

1. The opening meeting is the first step between the audit team and auditee. In this meeting the purpose of audit, the procedure and the time schedule were discussed.
2. Site inspection is the second step for onsite activity. In this step the Audit team discovered matters which are important to the audit but which we're not identified at the planning stage.
3. Onsite phase of the audit developed a working understanding of how the facility manages the activities that influence the environment and how any EMS, if there are some substantial work in the college campus.
4. Assessed strengths and weaknesses of the auditee's management controls and risks associated with their failure were established.
5. Gathering audit evidence ie, collecting data and information using Audit protocol.

6. Communicated with the staff members of the auditee to obtain the data and information related to the audit.
7. Evaluated the audit evidence against the objectives established for the audit.
8. An exit meeting to explain the audit findings.

#### **8. Procedure followed:**

The audit team is divided into three groups, and under the guidance of the teaching staff each group collected data on the assigned topics. The assigned topics were as follows:

1. Analysis of Greening in the campus
2. Analysis of Biodiversity distribution and conservation
3. Analysis of Water quality and usage
4. All the data were united and based on these, a report was formulated.

#### **9. Recommendations**

1. Plant more trees in Miyawaki method (Potted Seedling) so that you can accommodate more number of trees in small place. The trees that produce more oxygen and absorb more CO<sub>2</sub>. For healthy environment we have to maintain 33% of the green cover.
2. Initiate vegetable cultivation in the institution to fulfill the canteen requirements.
3. Maintaining medicinal garden is appreciated.
4. Initiate the vermicompost production with usage of the campus tree leaf litters and bio-degradable waste. The vermicompost manure can be used for self and as well as promoted for outsourcing.
5. White wash the trees upto 3ft with limestone and neem oil mix. It can prevent pests and diseases in trees.
6. Place name board in all trees and mention the year of planting so that you can identify the oldest tree in the campus.

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**LIST OF PLANTS IN STAR TREE GARDEN  
(NATSHATRA VANAM) OF CAMPUS I & II**

Star	Vernacular name	English name	Botanical name	Family
Ashwini	Eatti	Nuxvomica	<i>Strychnos nuxvomica</i> L.	Loganiaceae
Bharani	Nelli	Indian gooseberry	<i>Phyllanthus emblica</i> L.	Euphorbiaceae
Karthika	Athi	Cluster fig	<i>Ficus racemosa</i> L.	Moraceae
Rohini	Naval	Jamun	<i>Syzygium cumini</i> (L.) Skill.	Myrtaceae
Mrigashirsha	Karunkali	Cutch tree	<i>Acacia catechu</i> (L.f.) Willd	Mimosaceae
Thiruvathira	karimaram	Cashmere tree	<i>Pterocarpus santalinus</i> L.	Verbenaceae
Punarpusam	Mulmunkil	Bamboo	<i>Bambusa vulgaris</i> (L.) Voss.	Bambusaceae
Pusam	Arasu	Sacred fig	<i>Ficus religiosa</i> L.	Moraceae
Aayilyam	Punnai	Alexandria n Laurel	<i>Calophyllum inophyllum</i> L.	Clusiaceae
Magam	Al, Alam	Banyan tree	<i>Ficus benghalensis</i> L.	Moraceae
Pooram	Porasum	Flame of forest	<i>Butea monosperma</i> (Lam.) Taub.	Fabaceae
Uthram	Arali	Oleander	<i>Nerium indicum</i> L.	Apocynaceae
Astham	Ambazham	Hog plum	<i>Spondias pinnata</i> L.	Anacardiaceae
Chithirai	Kuvalum	Bael tree	<i>Aegle marmelos</i> L.	Rubiaceae
Suvathi	Marutu	Arjuna tree	<i>Terminalia arjuna</i> (Roxb.) Wight & Arn.	Combretaceae
Visakham	Vilamaram	Wood Apple	<i>Feronia elephantarum</i> Linn.	Rutaceae
Anusham	Elenji, Magilam	Bullet wood tree	<i>Mimusops elenji</i> L.	Sapotaceae
Kettai	Kutti palla	Sand paper tree	<i>Streblus asper</i> Lour.	Symplocaceae
Moolam	Ma Maram	Mango	<i>Mangifera indica</i> L.	Anacardiaceae

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## ECONOMICALLY IMPORTANT PLANTS



**Scientific Name:** *Phyllanthus emblica*  
**Family:**Phyllanthaceae



**Scientific Name:** *Ficus carica*  
**Family :**Moraceae



**Scientific Name:***Cocos nucifera*  
**Family:**Arecaceae



**Scientific Name:** *Bambusa vulgaris*  
**Family :** Poaceae



**Scientific Name:** *Mangifera indica*  
**Family:** Anacardiaceae



**Scientific Name:** *Psidium guajava*  
**Family:** Myrtaceae



**Scientific Name:** *Manilkara zapota*  
**Family:** Sapotaceae



**Scientific Name:** *Murraya koenigii*  
**Family:** Rutaceae

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## ORNAMENTAL AND MEDICINAL PLANTS



Scientific Name: *Hibiscus rosasinensis*  
Family: Malvaceae

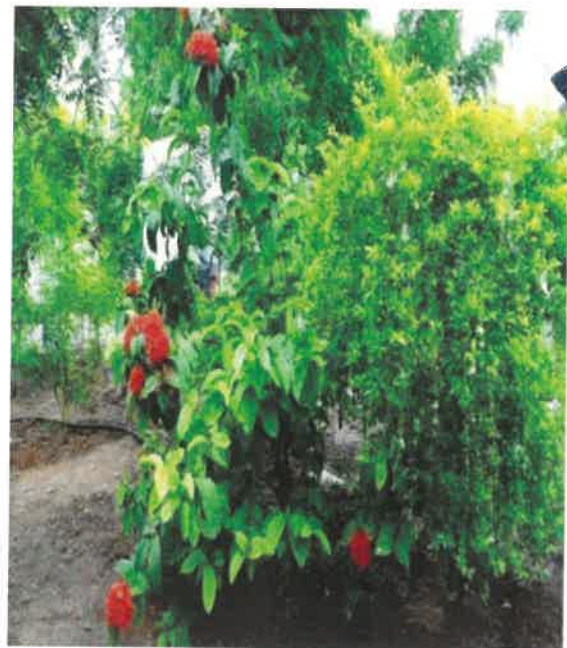


Scientific Name: *Jasminum grandiflorum*  
Family: Oleaceae



Scientific Name: *Tamarindus indica* L.  
Family: Fabaceae

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Scientific Name: *Ixoracoccinea*  
Family: Rubiaceae

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**Scientific name:** *Galphimiagrabilis*  
**Family:** Malpigiaceae



**Scientific name:** *Caesalpinia pulcherrima*  
**Family:** Fabaceae



**Scientific name:** *Vitex agnus*  
**Family:** Lamiaceae



**Scientific name:** *Mimusops elengi*  
**Family:** Sapotaceae

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Scientific name: *Peltophorumpterocarpum*  
Family: Fabaceae



Scientific name: *Delonixregia*  
Family: Fabaceae



The orchid in Campus -II with mixed plantations of common fruits like Guava, Mango, Chikku and Jack fruit

## COMMON FAUNA OF THE CAMPUS - I & II



Scientific name: *Merops orientalis*  
Common Name: Green bee-eater



Scientific name: *Pavo cristatus*  
Common Name: Peacock/ Peafowl



Scientific name: *Phalacrocorax fuscicollis*  
Common Name: Indian Cormorant



Scientific name: *Dicrurus macrocercus*  
Common Name: Drongo

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**Scientific name:** Cuculidae  
**Common Name:** Cuckoo/ Koel



**Scientific name:** Alcedoatthis  
**Common Name:** Common Kingfisher



**Scientific name:** *Acridotherestrictis*  
**Common Name:** Myna



**Scientific name:** *Turdoidesstriata*  
**Common Name:** Jungle Babbler





Scientific name: *Argya caudate*  
Common Name: Common Babbler



Scientific name: *Passer domesticus*  
Common Name: House sparrow



Scientific name: *Columba livia domestica*  
Common Name: Pigeon

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Scientific name: *Clanga clanga*  
Common Name: Greater spotted eagle

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**Scientific name:** *Glareola lactea*  
**Common Name:** Small pratincole



**Scientific name:** *Corvus splendens*  
**Common Name:** Common Indian Crow



**Scientific name:** *Echis carinatus*  
**Common Name:** Saw-scaled viper

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**Scientific name:** *Calotes versicolor*  
**Common Name:** Oriental garden lizard

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Scientific name: *Danaus chrysippus*  
Common Name: Plain tiger



Scientific name: *Pachliopta hector*  
Common Name: Crimson rose



Scientific name: *Junonia lemonias*  
Common Name: Lemon pansy

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Scientific name: *Euploea core*  
Common Name: Common crow butterfly

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**Class :** Araneae  
**Common Name:** Common spider



**Scientific name:** *Carcharodus alceae*  
**Common Name:** Plain Marbled Skipper



**Scientific name:** *Lumbricus terrestris*  
**Common Name:** Indian earthworm

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**Scientific name:** *Camponotus sp.*  
**Common Name:** Carpenter ants

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Scientific name: *Mylabris phalerata*  
Common Name: Blister beetle



Scientific name: *Bactrocera dorsalis*  
Common Name: Oriental fruit fly,



Scientific name: *Apis indica*  
Common Name: Indian Honey bee

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Scientific name: *Bradinopyga geminata*  
Common Name: Granite ghost

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Scientific name: *Sciurus sp.*  
Common Name: Squirrel



Scientific name: *Macaca radiata*  
Common Name: Bonnet macaque



Scientific name: *Scutigera sp.*  
Common Name: House Centipede

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Scientific name: *Bipalium* genus  
Common Name: Hammerhead slug

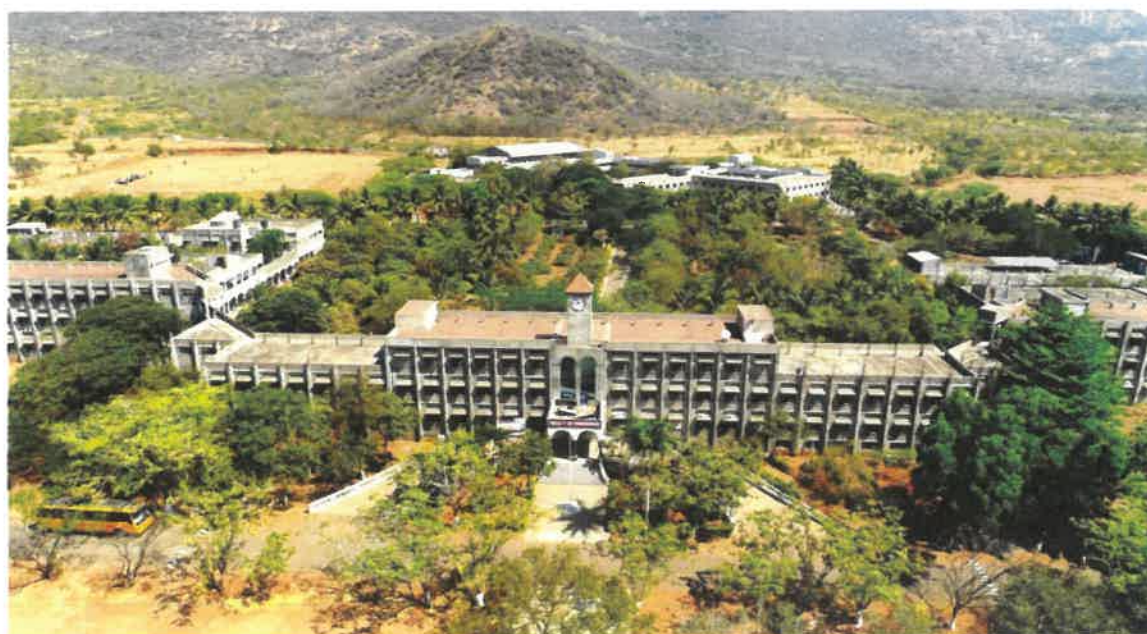
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# GLIMPSES OF OUR CAMPUS

## ECOZONE AROUND THE CAMPUS I AND II



**Aerial View of the Campus -I**



**Aerial View of the Campus -II**

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## LANDSCAPING AND GREEN COVER IN CAMPUS- I



**Green cover in cover in front of hostel**



**Green cover in front of Library block**

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**Landscaping area adjacent to Finance Office- Campus I**



**Green cover beside the Home Science block**

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**Landscaping area in front of Administrative block**



**Landscaping and medicinal plant garden inside  
Ayya Memorial Hall**

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## LANDSCAPING AND GREEN COVER IN CAMPUS- II



**Landscaping area between administrative block and hostel**



**Green cover around the basketball court**

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# SEWAGE TREATMENT PLANT IN CAMPUS -I

1.



2.



3.

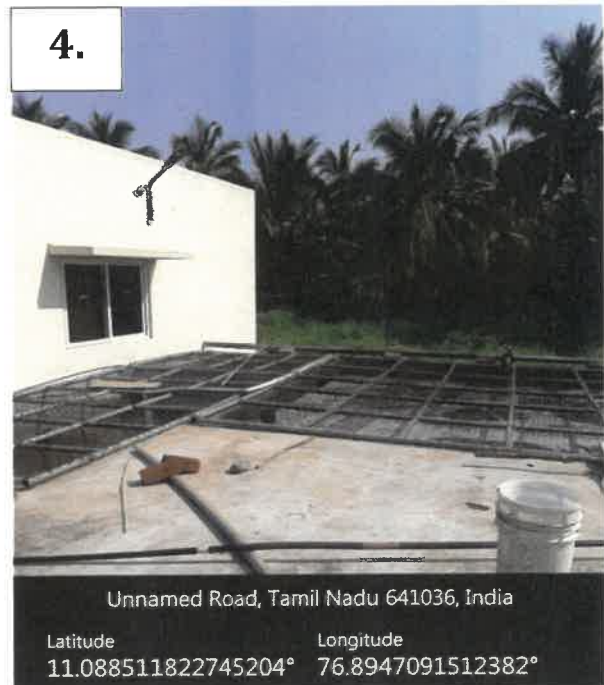
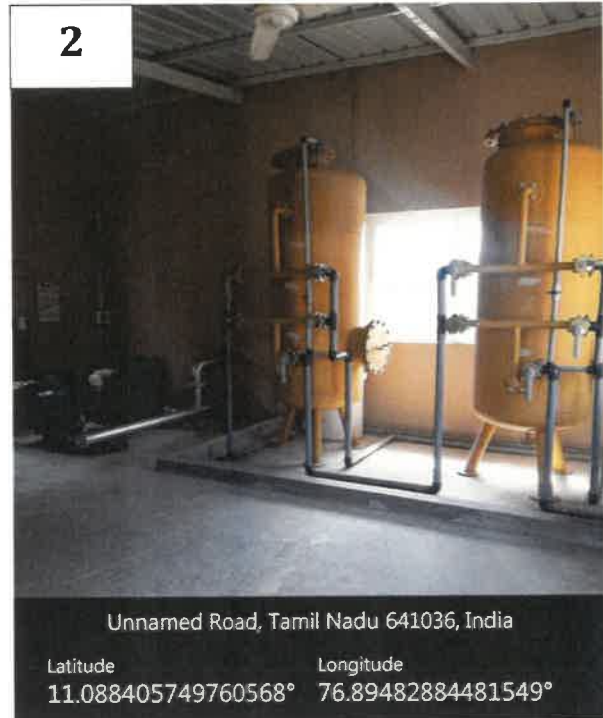


1. Waste water recycling plant located near Gate 3 of Campus -I
2. Waste water recycling plant located near Nursery.
3. The recycled water generated from plant is supplied to garden.

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## SEWAGE TREATMENT PLANT IN CAMPUS -II.



**Stages of sewage treatment:** 1-Collection and segregation of waste.  
2- Sewage water pumped into treatment plants 3-Levels of treatment  
4-Treated water discharged for gardening and other purposes

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## BIOGAS PLANT CAMPUS- II



Avinashilingam University for Women, Varappalayam,  
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Latitude Longitude  
11.093928669579327° 76.89535858109593°

**Biogas plant situated in the Campus- II behind the hostel mess**

*S. Gowaly*

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# RAINWATER HARVESTING FACILITY



**Campus- I**



**Campus- II**

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## CONSTRUCTION OF CHECK DAMS FOR RAIN WATER COLLECTION IN CAMPUS II



Faculty of Engineering, Avinashilingam University for Women, Varappalayam, Tamil Nadu 641036, India

Latitude Longitude  
 11.089542587287724° 76.896090824157°



Faculty of Engineering, Avinashilingam University for Women, Varappalayam, Tamil Nadu 641036, India

Latitude Longitude  
 11.09118661377579° 76.89388998784125°



## PERCOLATION PITS FOR RAIN WATER HARVESTING



Unnamed Road, Varappalayam, Tamil Nadu 641036, India

Latitude Longitude  
 11.092102420516312° 76.89593324437737°

## UNUSED BOREWELLS FOR COLLECTING RAINWATER TO RAISE THE GROUNDWATER TABLE

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### **Conclusion:**

Considering the fact that the institution is well-established, long time running with good reputation in terms of academics in Tamil Nadu, India, there is significant environmental research by students, staff members and management people. The environmental awareness initiatives are substantial. The installation of rain water harvesting system, bio gas and sewage treatment plants are notable significant mentions. Besides that, environmental awareness programmes promoted through various outreach programmes are well appreciated. Few recommendations like installation of vermicomposting unit, expansion of greenery can be included in the plan of action for the betterment of the environment in the institution.

### **Acknowledgement:**

We are grateful to the Management and Vice Chancellor and Registrar, Deans, HoDs and Co-ordinators of Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore Tamil Nadu for providing us necessary facilities and co-operation during the audit.

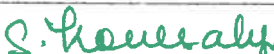
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## APPENDIX- 1

### LIST OF MEDICINAL PLANTS IN AYYA MEMORIAL HALL

S.No.	Tamil name	English name	Botanical name	Family
1.	Kunrimani	Crab's Eye,	<i>Abrus precatorius</i> L.	Fabaceae
2.	Thutti	Indian Mallow	<i>Abutilon indicum</i> L.	Malvaceae
3.	Kuppameni	Indian Copper leaf	<i>Acalypha indica</i> L.	Euphorbiaceae
4.	Nauruvi	Prickly Chaff-Flower	<i>Achyranthus aspera</i> L.	Amaranthaceae
5.	Palvali Pongu	Toothache Plant	<i>Acmella oleracea</i> (L.) R.K.Jansen	Asteraceae
6.	Vasambu	Sweet Flag	<i>Acorus calamus</i> L.	Acoraceae
7.	Aduthinampalai	Malabar Nut,	<i>Adathoda vasica</i> Nees	Acanthaceae
8.	Vilva	Beal	<i>Aegle marmelos</i> (L.) Correa.	Rutaceae
9.	Ciru-Pulai	Mountain Knotgrass	<i>Aerva lanata</i> (L.) Juss.ex Schult.	Amaranthaceae
10.	Perumaram	Coramandel Ailanto	<i>Ailanthus excelsa</i> Roxb.	Simaroubaceae
11.	Alangi	Sage Leaved Alangi	<i>Alangium salviifolium</i> (L.f.) Wangerin.	Cornaceae
12.	Ponnannganni	Sessile Joyweed	<i>Alternanthera sessilis</i> (L.) R. Br.ex DC	Amaranthaceae
13.	Arappu	Krishna Siris	<i>Albizia amara</i> (Roxb.) Boiv.	Mimosaceae
14.	Kattu Pongu	Wild Leek	<i>Allium porrum</i> L.	Lamiaceae
15.	Sothukathalai	Indian Aloe	<i>Aloe vera</i> L.	Liliaceae
16.	Peyimerutti	Malabar Catmint	<i>Anisomeles malabarica</i> (L.) R.Br.ex Sims	Lamiaceae
17.	Mutcitamaram	Soursop	<i>Annona muricata</i> L.	Annonaceae
18.	Nilavembu	Andrographis	<i>Andrographis paniculata</i> L.	Acanthaceae
19.	Pakku	Areca Palm	<i>Areca catechu</i> (L.)	Arecaceae
20.	Maasi Pathiri	Mugwort	<i>Artemisia indica</i> L.	Asteraceae
21.	Marrikolundu	Madderwort	<i>Artemisia pallens</i> (L.)	Asteraceae
22.	Manoranjithan	Climbing Lang Lang	<i>Artrabotrys hexapetalous</i> (L.)	Annonaceae
23.	Ariyaman	Tropical Milkweed,	<i>Asclepias curassavica</i> L.	Apocynaceae
24.	Thanneervittaan	Sparrow Grass	<i>Asparagus officinalis</i> L.	Liliaceae
25.	Neera Brahmi	Brahmi	<i>Bacopa monniera</i> (L.) Pennell	Plantaginaceae
26.	Mungil	Bamboo	<i>Bambusa bamboos</i> (L.) Voss	Poaceae
27.	Semmulli	Philippine Violet	<i>Barleria cristata</i> L.	Acanthaceae

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28.	Kodip Pasal	Malabar Spinach	<i>Basella rubra</i> L.	Basellaceae
29.	Thiruvaaththi	Yellow Bauhinia	<i>Bauhinia tomentosa</i> L.	Fabaceae
30.	Mantharai	Orchid Tree	<i>Bauhinia variegata</i> L.	Fabaceae
31.	---	English Daisy	<i>Bellis perennis</i> (L.)	Asteraceae
32.	Ellupu Otti	Creeping Blepharis	<i>Blepharis maderaspatensis</i> L.	Acanthaceae
33.	Mookarattai	Hogweeds.	<i>Boerhavia diffusa</i> L.	Nyctaginaceae
34.	Nattaichoori	Hispida	<i>Borreria hispida</i> (L.) K.schum.	Rubiaceae
35.	Kattipottal Kuttipodum	Air Plant	<i>Bryophyllum pinnatum</i> (Lam.)	Crassulaceae
36.	Earukku	Crown Flower	<i>Calotropis gigantea</i> (L.) R. Br. ex Schult.	Apocynaceae
37.	Mudakattan	Balloon Vine	<i>Cardiospermum halicacabum</i> L.	Sapindaceae
38.	Seemaigathi	Candle Bush	<i>Cassia alata</i> L.	Ceasalpiniaceae
39.	Nithyakalyani	Madagascar Periwinkle	<i>Cathranthus roseus</i> (L.) G. Don.	Apocynaceae
40.	Naagalingam	Cannon Ball Tree	<i>Couroupita guianensis</i> Abul.	Lecythidaceae
41.	Vallarai	Brahmi	<i>Centella asiatica</i> (L.) Urban	Apiaceae
42.	Pirandai	Devil's Backbone	<i>Cissus quadrangularis</i> L.	Vitaceae
43.	Elumichai	Lemon	<i>Citrus lemon</i> L.	Rutaceae
44.	Sangupoo	Butterfly Pea	<i>Clitoria ternate</i> L.	Fabaceae
45.	Kovai Palam	Kunduri	<i>Cocinia indica</i> Wight.and Arn.	Cucurbitaceae
46.	Aathuppoondu	Croton	<i>Codiaicum variegatum</i> (L.)	Euphorbiaceae
47.	Kaffee	Coffee	<i>Coffea arabica</i> L.	Rubiaceae
48.	Puthina	Indian Mint	<i>Coleus amboinicus</i> Lour.	Lamiaceae
49.	Thannikenathan Pudu	Tropical Spiderwort	<i>Commelina benghalensis</i> L.	Commelinaceae
50.	----	Cosmos	<i>Cosmos sulphurous</i> Cav.	Asteraceae
51.	Sugar Plant	Spiral Flag	<i>Costus igneus</i> Nah	costaceae
52.	Vishamungil	Crinum Lily	<i>Crinum asiaticum</i> L.	Amaryllidaceae
53.	Kanakamparam	Crossandra	<i>Crosandra infundibulum</i> (L.) Nees.	Acanthaceae
54.	Siru-Kattamanakku.	Wild Chilli	<i>Croton sparciflorum</i> L.	Euphorbiaceae
55.	Nilappanaikkilanku	Golden Eye Grass	<i>Curculigo orchioides</i> Gaertn.	Hypoxidaceae
56.	Arugu	Bermuda Grass,	<i>Cynodan dactylon</i> (L.)Pers.	Poaceae
57.	Elumicha Pul	Lemon Grass	<i>Cymbopogon citratus</i> (L.)Spreng.	Poaceae
58.	Korai	Java Grass	<i>Cyperus rotundus</i> (Willd)	Cyperaceae

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59.	Kaka Pullu	Crow Foot Grass	<i>Dactyloctenium Aegyptium</i> L.	Poaceae
60.	Umathai	Datura	<i>Datura metal</i> L.	Solanaceae
61.	Azhukanni	Snake Champers Root	<i>Desmodium gyrans</i> L.	Fabaceae
62.	Manjal Karisilanganni	False Daisy,	<i>Eclipta alba</i> Hassk.	Asteraceae
63.	Rudraksha	Rudraksha	<i>Elaeocarpus ganitrus</i> Roxb.ex.G.Don	Elaeocarpaceae
64.	Biriyani Elai	Mexican Coriander	<i>Eryngium foetidum</i> L.	Apiaceae
65.	Murukku	Tiger's Claw	<i>Erythrina variegata</i> L.	Fabaceae
66.	Ayappani	Red False Daisy	<i>Eupatorium chinense</i> L.	Asteraceae
67.	Amman-Pacharici-	Hairy Spurge	<i>Euphorbia hirta</i> L.	Euphorbiaceae
68.	Catukalavi	Pencil Cactus	<i>Euphorbia triucalli</i> L.	Euphorbiaceae
69.	Vilam Palam	Wood-Apple	<i>Limonia acidissima</i> L.	Rutaceae
70.	Vadamalli	Globe Amaranth	<i>Gomphrena globosa</i> L.	Amaranthaceae
71.	Kallappai Kilangu	Gloriosa Lily	<i>Gloriosa superba</i> L.	Liliaceae
72.	Sirukurunchan	Gurmar	<i>Gymnema sylvestre</i> R. Br	Asclepiadaceae
73.	"Nannaari	Hemidesmus	<i>Hemidesmus indicus</i> (L.) R. Br.	Apocyanaceae
74.	Sembaruthi	Hibiscus	<i>Hibiscus rosa- sinensis</i> L.	Malvaceae
75.	Shimai-Kashuruk-Kirai	Roselle	<i>Hibiscus sabdariffa</i> L.	Malvaceae
76.	Palay Kirai	Holostemma Creeper	<i>Holostemma ada- kodian</i> Schult	Apocyanaceae
77.	Mayilmannikkam	Cypress Vine,	<i>Ipomea quamoclit</i> L	Convolvulaceae
78.	Mullai	Common Jasmine	<i>Jasminum officinale</i> L.	Oleaceae
79.	Kattu Amanaku	Barbados Nut	<i>Jatropha curcas</i> L.	Euphorbiaceae
80.	Karunochi	Willow-Leaved Justicia	<i>Justicia gendarussa</i> Burm.f.	Acanthaceae
81.	Appakkovai	Stinking Kedrostis	<i>Kedrostis foetidissima</i> (Jacq) Cogn.	Cucurbitaceae
82.	Muyalkadhilai	Large Flower Kleinia,	<i>Kleinia grandiflora</i> (Wall.)	Asteraceae
83.	Unnichi	Lantana	<i>Lantana camara</i> (L.)	Verbenaceae
84.	Marudhani	Mehendi	<i>Lawsonia inermis</i> L.	Lythraceae
85.	Thumbai	Common Leucas	<i>Leucas aspera</i> (Willd.) Link	Lamiaceae
86.	Elumichi - Ennaipullu	Lemon Verbena	<i>Lippia/Aloysia citriodora</i> L.	Verbenaceae
87.	Kaatupudina	Field Mint	<i>Mentha arvensis</i> L.	Lamiaceae
88.	Milakukirai	Peppermint	<i>Mentha piperta</i> L.	Lamiaceae

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89.	Chambagam	Chambaca	<i>Michelia champaca</i> L.	Magnoliaceae
90.	Thottachinnugi	Touch Me Not Plant	<i>Mimosa pudica</i> L.	Fabaceae
91.	Anthimantharai	40 Clock Plant	<i>Mirabilis jalapa</i> L.	Nyctaginaceae
92.	Nunaakai	Noni, Indian Mulberry,	<i>Morinda citrifolia</i> L.	Rubiaceae
93.	Musukette	Black Mulberry	<i>Morus nigra</i> L.	Moraceae
94.	Musumusukai	Madras Pea	<i>Mukia maderaspatana</i> L.	Cucurbitaceae
95.	Curruvebillai	Curry Tree	<i>Murraya koenigii</i> (L.) Spreng	Rutaceae
96.	Jathikai	Nutmeg,	<i>Myristica fragrans</i> (Houtt)	Myristicaceae
97.	Meenmul Fern	Fish Bone Fern	<i>Nephrolepis cordifolia</i> (L.) K. Presl.	Nephrolepidaceae
98.	Arali	Indian Oleander,	<i>Nerium indicum</i> L.	Apocynaceae
99.	China Kurunji	Kurunjii	<i>Nilgirianthus ciliates</i> L.	Acanthaceae
100	Pavalamalli	Coral Jasmine	<i>Nyctanthes arbor-tristis</i> L.	Oleaceae
101	Nai Thulasi	Hoary Basil	<i>Ocimum americanum</i> L.	Lamiaceae
102	Thiruneettrupatchi	Sweet Basil	<i>Ocimum basilicum</i> L.	Lamiaceae
103	Tulasi	Holy Basil	<i>Ocimum santum</i> L.	Lamiaceae
104	Sapathikalli	Coastal Pricklypea	<i>Opuntia littoralis</i> (Engelm.) Cockerell	Cactaceae
105	Omum	Origanam	<i>Origanum vulgare</i> L.	Lamiaceae
106	Poonai Mesai	Java Tea	<i>Orthosiphon stamineus</i> (L.)	lamiaceae
107	Aanai Nerunjil.	Large Caltrops	<i>Pedaliium Murex</i> L.	Pedaliaceae
108	<u>Poduthalai</u>	Frog Fruit,	<i>Phyla nudiflora</i> L.	Verbenaceae
109	Kilhkai-Nelli	Stone Breaker	<i>Phyllanthus amarus</i> .Schumach. & Thonn	Phyllanthaceae
110	Vettilai	Betel	<i>Piper betle</i> L.	Piperaceae
111	Tippili	Long Pepper	<i>Piper longum</i> L.	Piperaceae
112	Periya Nangai	Narrow Leaved Milkworts	<i>Polygala elongate</i> Klein ex Willd	Polygalaceae
113	KoyyaPazham	Guava	<i>Psidium guajaa</i> L.	Myrtaceae
114	Maadhulai	Pomegranate,	<i>Punica granatum</i> L.	Lythraceae
115	Sarpagandha	Indian Snakeroot	<i>Rauvolfia serpentine</i> (L.) benth.ex Kurz.	Apocynaceae
116	Pampukaalaachchedi	Devil-Pepper	<i>Rauvolfia tetraphylla</i> (L.)	Apocynaceae
117	Nagamalli,	Snake Jasmine	<i>Rhinacanthus nasutus</i> (L.) Kurz.	Acanthaceae

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118	Amanaku	Caster Bean,	<i>Ricinus communis</i> L.	Euphorbiaceae
119	Paneer Rose,	Damask Rose	<i>Rosa damascena</i> Mill.	Rosaceae
120	Rosemary	Polar Plant	<i>Rosemarinus officinalis</i> L.	Lamiaceae
121	Aruveada	Rue	<i>Ruta graveolens</i> L.	Rutaceae
122	Marul Chetti	Snake Plant	<i>Sansevieria trifasciata</i> L.	Asparagaceae
123	Sandhanum	Sandal Wood	<i>Santalum album</i> L.	Santalaceae
124	Thavasi Keerai	Star Gooseberry	<i>Sauropus androgynus</i> (L.) Merr	Phyllanthaceae
125	Kallurukki	Licorice Weed	<i>Scoparia dulcis</i> L.	Plantaginaceae
126	Sitakathi	Common Sesban	<i>Sesbania sesban</i> L.	Fabaceae
127	Agati	Hummingbird Tree	<i>Sesbania grandiflora</i> (L.) Poiret	Fabaceae
128	Palambasi	Common Wireweed	<i>Sida acuta</i> Burn. f.	Malvaceae
129	Manathakali	Black Nightshade	<i>Solanum nigrum</i> L.	Solanaceae
130	Kandakathari	Yellow - Berried Nightshade	<i>Solanum surattense</i> Burn.f.	Solanaceae
131	Sundaikkai	Prickly Nightshade	<i>Solanum torvum</i> Sw.	Solanaceae
132	Seemai Nayuruvi	Blue Porterweed	<i>Stachytarpheta jamaicensis</i> (L.) Vahl.	Verbenaceae
133	Naval	Java Plum	<i>Syzygium cumini</i> L.	Myrtaceae
134	Nandiar Vattai	Pinwheel Flower,	<i>Tabernaemontana divaricata</i> R.Br. ex Roem.& Schult.	Apocynaceae.
135	Thulukumalli	Marigold	<i>Tagetes erecta</i> L.	Asteraceae
136	Neermaruthu	Arjun Tree	<i>Terminalia arjuna</i> (Roxb.) Wight	Combretaceae
137	Badam	Sea Almond Tree	<i>Terminalia catappa</i> L.	Combretaceae
138	Puvarasu	Indian Tulip Tree	<i>Thespesia populnea</i> L.	Malvaceae
139	Shindil Kodi,	Heart Leaved Moosed	<i>Tinospora cordifolia</i> (Thunb.) Mierr	Menispermaceae
140	Omum	Ajwain	<i>Trachyspermum ammi</i> Sprague	Apiaceae
141	Nerunchi Mull	Goat's-Head,	<i>Tribulus terrestris</i> L.	Zygophyllaceae
142	Kenathuppoondu	Mexican Daisy	<i>Tridax Procumbens</i> (L.)	Asteraceae
143	Nari - Vangayam	Indian Squill	<i>Urginea indica</i> (Roxb.) Kunth	Liliaceae
144	Sahadevi	Purple Fleabane	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae
145	-	Southern Arrowwood	<i>Viburnum dentatum</i> L.	Adoxaceae
146	Nocchi,	Chaste Tree	<i>Vitex Negundo</i> L.	Verbenaceae

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147	Neer Nochi	Simple Leaf Chastetree	<i>Vitex trifolia</i> (L.)	Verbanaceae
148	Manjal Karichilakanni	---	<i>Wedelia chinensis</i> (Osbeck) Merr.	Asteraceae
149	Amukkira	Ashwagandha	<i>Withania Somnifera</i> Dunal.	Solanaceae
150	Mallai Lily	Pink Rain Lily	<i>Zephyranthes rosea</i> Lindl.	Amaryllidaceae
151	Inji Ver	Ginger	<i>Zingiber officinale</i> (Roscoe.)	Zingiberaceae
152	Sarppaganti	<b>Wild Snake Root</b>	<i>Rauvolfia tetraphylla</i> L.	Apocynaceae

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## APPENDIX- II

### LIST OF TREES AND ORNAMENTAL PLANTS INSIDE THE CAMPUS


S.No	Vernacular name	Botanical name	Family
1.	Kondra	<i>Cassia fistula</i> L.	Leguminosae
2.	Pungam	<i>Pongamia pinnata</i> L.	Leguminosae
3.	Thoonguvaagai/Thoongu moonji Maram	<i>Samanea saman</i> or <i>Albizia saman</i> F.Muell.	Leguminosae (Mimosoidea)
4.	Vaembu Or Vaepa Maram	<i>Azadirachta indica</i> A. Juss.,	Meliaceae
5.	Neruppukkondrai Maram	<i>Delonix regia</i> (Boj.Ex Hook.)Raf.	Leguminosae (Caesalpinioideae)
6.	Lyavakai	<i>Peltophorum pterocarpum</i> (DC.) K. Heyne.	Leguminosae (Caesalpinioideae)
7.	Savukku	<i>Casuarina equisetifolia</i> L.	Casuarinaceae
8.	Arali	<i>Plumeria rubra</i> L.	Apocynaceae
9.	Patadi	<i>Spathodea campanulata</i> P. Beauv.	Bignoniaceae
10.	Nelli	<i>Phyllanthus emblica</i> , syn. <i>Emblica officinalis</i>	Euphorbiaceae
11.	Magilam Poo	<i>Mimusops elengi</i> L.	Sapotaceae
12.	Santhanam	<i>Santalum album</i> L.	santalaceae
13.	Savudal	<i>Leucaena leucocephala</i> (Lam.) de wit	Fabaceae (sub. Family: Mimosoideae)
14.	Senpagam	<i>Michelia champaca</i> (L.)Baill.	Magnoliaceae
15.	Maramalli	<i>Millingtonia hortensis</i> L.	Bignoniaceae
16.	Sapota	<i>Manilkara zapota</i> L.	Sapotaceae
17.	Poovarasu	<i>Thespesia populnea</i> (L.)Sol.ex Correa	Malvaceae
18.	Latcha Kottai Keerai	<i>Pisonia grandis</i> R. Br.	Nyctaginaceae
19.	Mantharai	<i>Bauhinia variegata</i> (L.) Benth.	Fabaceae
20.	Puliamaram	<i>Tamarindus indica</i> L.	Fabaceae
21.	Naval	<i>Syzygium cumini</i> (L.)Skeels.	Myrtaceae

22.	Nocchi	<i>Vitex negundo</i> L.	Verbinaceae
23.	Koiya	<i>Psidium guajava</i> L.	Myrtaceae
24.	Bathani	<i>Terminalia cataba</i> L.	Combretaceae
25.	Kakithapoo	<i>Bougainvillea glabra</i> Choisy.	Nyctaginaceae
26.	Vaagai	<i>Albizia lebbek</i> (L.) Benth.	Leguminosae
27.	Arasu	<i>Ficus religiosa</i> L.	Moraceae
28.	Mongil	<i>Bambosa</i> sps.	Poaceae
29.	Kaneera, Karuvali,	<i>Cassine glauca</i> Rottb. Kuntze.	Celastraceae
30.	Illupai	<i>Madhuca indica</i> J.F. Gmel.	Sapotaceae
31.	Sourga Maram	<i>Simarouba glauca</i> DC	Simaroubaceae
32.	Thaila Maram	<i>Eucalyptus</i> sps	Myrtaceae

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33.	Karuveppilai	<i>Murraya Koongi</i> Linn. Sprengal	Rutaceae
34.	Nandiar vattai	<i>Tabernaemontana coronaria</i> (L.) R. Br. ex Roem. & Schult	Apocynaceae
35.	Golden Dew Drop	<i>Duranta repens</i> Linn.	Verbinaceae
36.	Manjal arali	<i>Tecoma stans</i> (L.) Juss. ex kunth	Bignoniaceae
37.	Kalvazhi	<i>Canna indica</i> L.	Cannaceae
38.	Kalvazhi	<i>Canna edulis</i> L.	Cannaceae
39.	Ixora	<i>Ixora coccinea</i> L.	Rubiaceae
40.	Insulin plant	<i>Costus igneus</i> Nak	Costaceae
41.	Nishagandhi	<i>Epiphyllum oxypetalum</i> (DC.) Haworth	Cactaceae
42.	Alamenda (yellow)	<i>Alamenda cathartica</i> L.	Apocynaceae
43.	Alamenda (purple)	<i>Alamenda blanchetii</i> L.	Apocynaceae
44.	Avaram	<i>Senna auriculata</i> (L.) Roxb.	Ceasalpinoideae
45.	Magilkunni	<i>Euphorbia pulcherrima</i> Willd. Ex Klotzsch	Euphorbiaceae
46.	Kritak kalli	<i>Euphorbia milii</i> Des. Moul.	Euphorbiaceae

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47.	Shamberattai	<i>Hibiscus rosa-senensis</i> L.	Malvaceae
48.	Rain lily (White)	<i>Zephyranthes candida</i> (Lindl.) Herb.	Amaryllidaceae
49.	Rain lily (pink)	<i>Zephyranthes rosea</i> (L.)	Amaryllidaceae
50.	Spider lily	<i>Hymenocallis littoralis</i> (Jacq.) Salisb	Amaryllidaceae
51.	Amarallys	<i>Amaryllis</i> sps	Amaryllidaceae
52.	Visamungil	<i>Crinum asiaticum</i> Linn	Amaryllidaceae
53.	Football Lily	<i>Scadoxus multiflorus</i> (Martyn) Raf.	Amaryllidaceae
54.	Chevarali	<i>Nerium oleander</i> L.	Apocynaceae
55.	Andimandarai	<i>Mirabilis jalapa</i> L.	Nyctaginaceae
56.	Thanneervittaan	<i>Asparagus officinalis</i> L.	Liliaceae
57.	Mayurkonrai	<i>Caesalpinia pulcherrima</i> L.	Cesalpinoideae
58.	Kattu suryakanthi	<i>Tithonia diversifolia</i> (Hemsley) A. Gray.	Asteraceae
59.	Common Crotons	<i>Codiaeum variegatum</i> (L.) A. Juss.	Euphorbiaceae

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## APPENDIX- III

### LIST OF FAUNAL DIVERSITY RECORDED IN THE CAMPUS

S.No	Vernacular name	Common name	Scientific name	Family
1.	Pachaipanchuuruta n	Green bee-eater	<i>Meropsorientalis</i>	Meropidae
2.	Mayil	Peacock	<i>Pavocristatus</i>	Phasianidae
3.	Kondaineerkagam	Indian cormorant or Indian shag	<i>Phalacrocoraxfuscicollis</i>	Phalacrocoracidae
4.	Karungkarichan	Black drongo	<i>Dicrurusmacrocerus</i>	Dicruridae
5.	SiralMeenkothi	Common small kingfisher	<i>Alcedoatthis</i>	Alcedinidae
6.	Kuil	Asian cuckoo	<i>Cuculuscanorus</i>	Cuculidae
7.	Naakanavai	Common myna or Indian myna	<i>Acridotherestrictis</i>	Sturnidae
8.	Kattusilamban	Jungle Babbler	<i>Turdoidesstriata</i>	Leiothrichidae
9.	Madapura	Rock pigeon	<i>Columba liviademestica</i>	Columbidae
10.	Poonjaiparundhu	Booted eagle	<i>Hieraaetus pennatus</i>	Accipitridae
11.	Silamban	Common Babbler	<i>Turdoidescaudata</i>	Leiothrichidae
12.	Kagam	House crow	<i>Corvussplendens</i>	Corvidae
13.	--	lynx spiders	<i>Oxyopessp</i>	Oxyopidae
14.	---	Oriental fruit fly	<i>Bactroceradorsalis</i>	Tephritidae
15.	---	blister beetle	<i>Mylabrispustulata</i>	Meloidae
16.	---	Granite ghost	<i>Bradinopyga geminata</i>	Libellulidae
17.	--	Redworm	<i>Eiseniafetida</i>	Lumbricidae
18.	Katterumbu	Black ant	<i>Camponotuscompressus</i>	Formicidae
19.	-----	Marbled skipper	<i>Gomaliaelma</i>	Pyrginae
20.	---	Crimson rose	<i>Pachliopta hector</i>	Papilionidae
21.	--	Lemon pansy	<i>Junonia lemonias</i>	Nymphalidae
22.	--	Common crow	<i>Euploea core</i>	Nymphalidae

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23.	--	Indian meal moth	<i>Plodiainterpunctella</i>	Papilionidae
	--	Plain tiger	<i>Danaus chrysippus</i>	Nymphalidae
24.	Suruttaiviriyam	Indian saw-scaled viper	<i>Echiscarinatus</i>	Viperidae
25.	Oonan	Oriental garden lizard	<i>Calotesversicolor</i>	Agamidae
26.	Anil	Indian palm squirrel	<i>Funambuluspalmarum</i>	Sciuridae
27.	...	Hammerhead flatworm	<i>Bipaliumkewense</i>	Geoplanidae
28.	Theeni	Honey bee	<i>Apis cerana indica</i>	Apidae
29.	Kuruvi	Common house sparrow	<i>Passer domesticus</i>	Passeridae
30.	Pooran	Brown centipede	<i>Lithobiusforficatus</i>	Lithobiidae