

**Title of the Practice :** Clean and Green Campus

**Objective of the Practice :**

- 1.To make students environment Consciousness
- 2.To make Campus free of Pollution and to provide healthy, pleasant atmosphere
- 3.To create Clean and Green Campus and Eco-friendly
- 4.To Beautify the Campus and improve the green Cover of the Campus
- 5.To teach Students need of Plantation

### **The Context**

Government College (Autonomous), Anantapur is situated in drought Prone Area and to improve ground water levels and to restore ecological balance, plantation and Conservation of trees is essential and plenty of space is available for plantation. Dead trees are not replaced by new trees.

Maintenance of garbage in the campus Involvement of students in keeping college clean

Department of Botany, NSS, NCC Units have created awareness among students and duties for playing important role in the maintenance of Clean and Green Campus.

Though the College is a big campus number of Scavengers and attenders are very less in number so NSS Volunteers Cadets and Department of Botany took it as a social responsibility in maintaining a Clean and Green Campus.

### **The Practice**

Student Committees have been formed to maintain the campus clean and green by involving all students including NSS and NCC units. Plantation drives are organized frequently in collaboration with the Forest Department. The college observes one day in amonth as vehicle free day and allots one day for clean and green activities in college. Colleges are undertaking periodical plantation programmes with the

help of social forestry, voluntary organizations and other NGOs. Students are made to adopt saplings to protect, to water and maintain them.

Being conscious about its social and environmental responsibility Government College (A) has decided to strengthen its green initiatives and develop them as a healthy and best practice of the college

There is ample scope for plantation in this spacious land. Every year a number of Environmental Awareness Programmes, Rallies and Plantation Drives are conducted. Institution has formulated its green policy which is displayed on college website. During the annual orientation programme organized for the newly admitted students awareness is created about the code of conduct and the green policy, and students are encouraged to participate in eco-friendly initiatives such as use of clay idols, jute bags, steel bottles and utensils. Initiatives have been taken to reduce the use of plastic by banning plastic water bottles and utensils in the campus. Effective disposal of solid and liquid waste is ensured by segregating them into degradable and non -bio degradable waste. Bio degradable waste recycling is ensured through vermi compost pit. The department of Botany carries out internal green audit of the campus every year Environmental Awareness Rallies and Programmes such as Swathchta pakwada are also carried out on NSS and NCC platforms.

### **Evidence of Success**

On both sides of the College entrance, there are beautiful flowering plants and also lush green trees. The entire landscaping adds beauty and ambience to the Campus. The entire campus has nearly 350 diverse species of terrestrial, desert, aquatic, herbal, medicinal, fragrant and ornamental plants. The Botanical Garden and Green House of the college house very rare and endangered plant Self Study species such as Cycas Beddomei, Pterocarpus Santalinus, Santalum Album, Rauwolfia serpentina, Cycas sphaerica, Hildegardia populifolia etc. All these varieties are planted and nurtured in separate soft-scapes earmarked for them. The beautifully designed and well maintained Aquatic Pond nurtures such hydrophytes as Nymphaea and Nelumbo. The plantation drives help in maintaining the environmental balance

- Increasing enthusiasm among students to adopt plants .
- Colleges have turned cleaner and greener
- Student committees formed for watering and maintenance of

saplings

- New gardens sponsored and developed by departments in the college
- Speedy and safe disposal of garbage
- Awareness programmes on environment hazards and protection

### **Problems Encountered:**

- The foremost problem encountered was mobilization of resources for purchasing saplings.
- The institution encountered this problem by encouraging the staff and students to donate saplings.
- The College has entered into an MOU with the department of Forestry for conducting various environmental friendly activities..
- The staff of department of Botany donated a considerable number of rare plants for the Botanical Garden.
- As the college does not have a sanctioned post for Gardener, the services of an outsourced employee are utilized for watering and maintaining the campus' Green Belt.



Latitude: 14.682721  
Longitude: 77.596383  
Elevation: 349.28±3 m  
Accuracy: 20.3 m



Latitude: 14.682753  
Longitude: 77.596529  
Elevation: 348.08±4 m  
Accuracy: 7.0 m



## 2. Use of Bicycles /Battery powered Vehicles



Students using Bicycles

## Ban on Plastic



Students are collecting plastic articles in the botanical garden

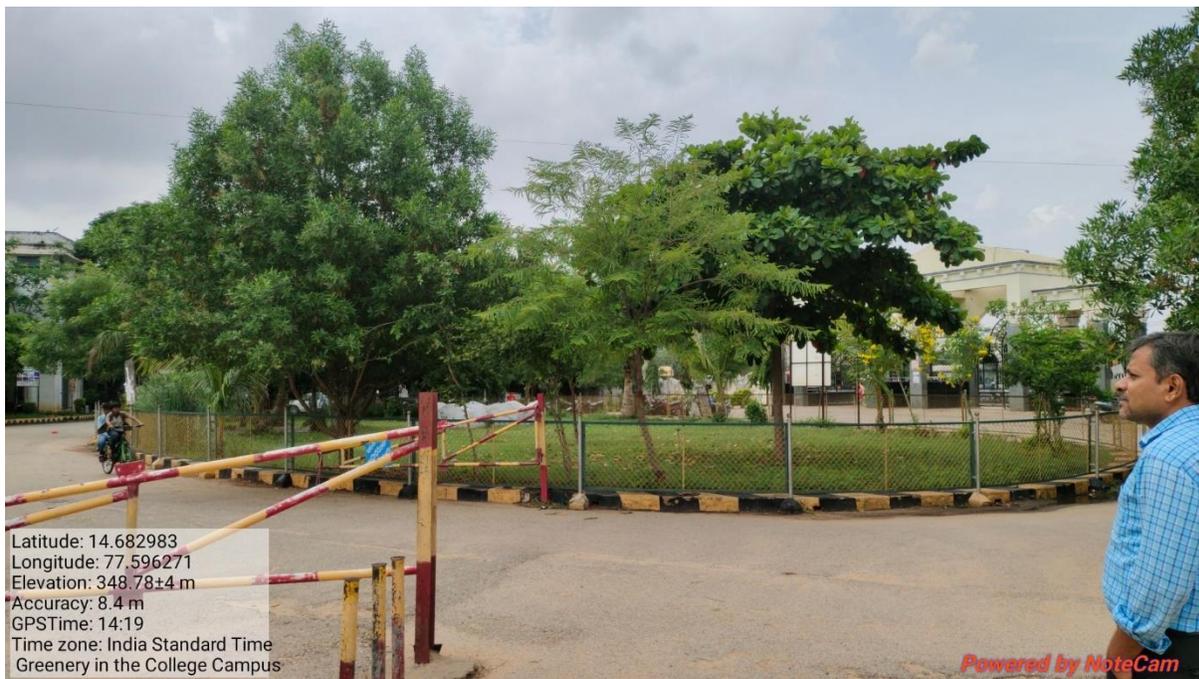
Landscape designing with tree and plants



LandScape Designing in the College campus



Landscape designing in the college campus



Landscape designing in the college campus



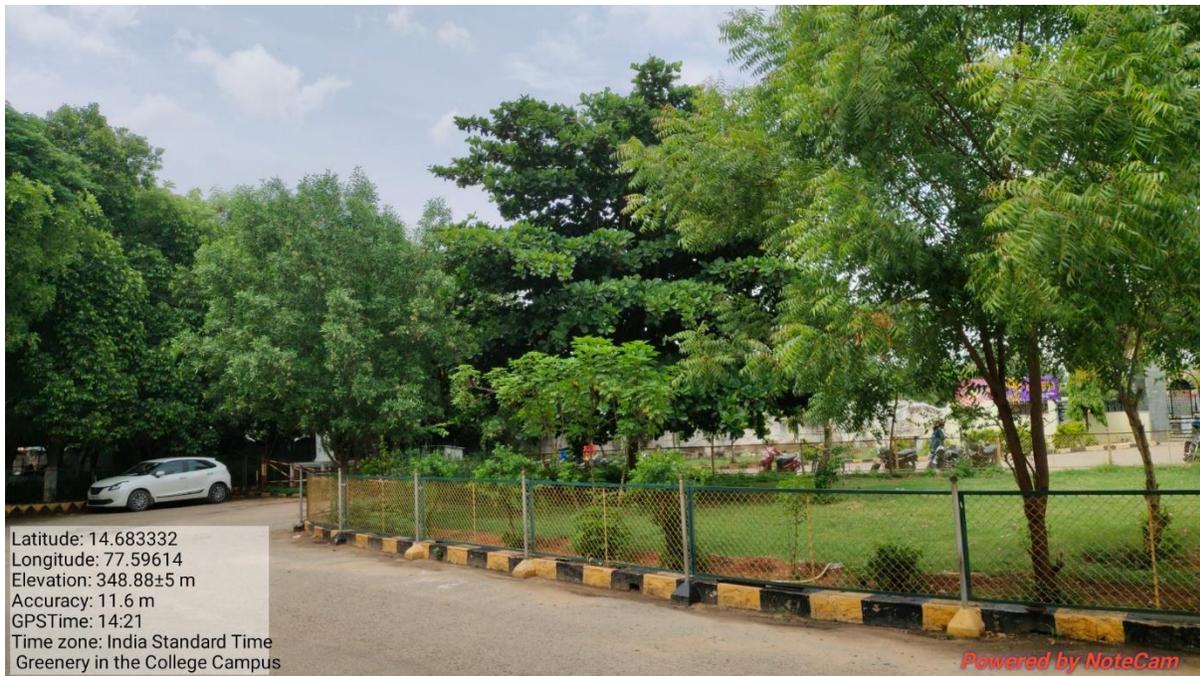
Landscape designing in the college campus



Profuse greenery in the college campus



Spectacular view Infront of the college building





Greenery in middle of the college building



Aerial view



Profuse greenery in the college campus



Aerial view



An age old Plumeria plant grown above the college building



Young trees are irrigated by drip irrigation



Latitude: 14.683959  
Longitude: 77.595987  
Elevation: 348.38±2 m  
Accuracy: 13.9 m

Collection from botanical garden



Latitude: 14.684  
Longitude: 77.596046  
Elevation: 347.58±4 m  
Accuracy: 14.6 m

Collection from Botanical Garden



Latitude: 14.683734  
Longitude: 77.595786  
Elevation: 348.38±17 m  
Accuracy: 309.8 m

Collection from Botanical Garden

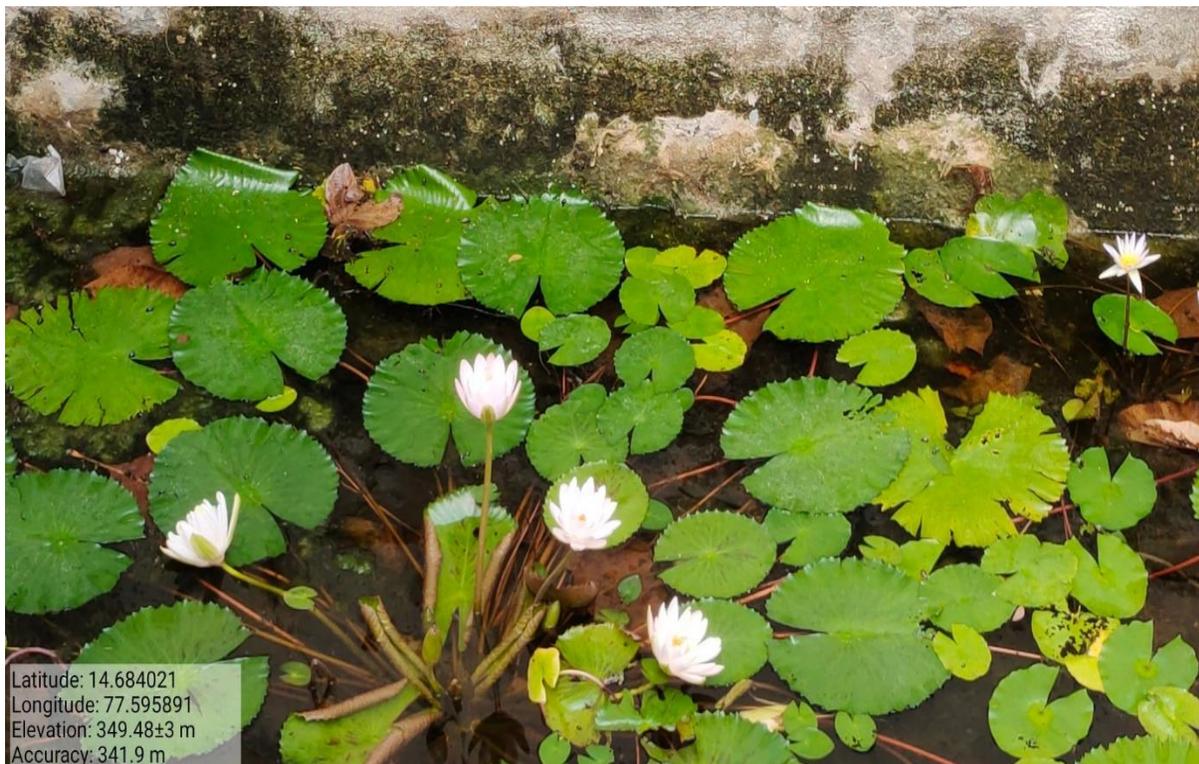


Latitude: 14.683783  
Longitude: 77.595943  
Elevation: 347.58±5 m  
Accuracy: 5.9 m

Collection from Botanical Garden



Collection from Botanical Garden



Collection from Botanical Garden



# TREE PLANTATION PROGRAM

MAY 15 th 2020

We are conducted a Tree plantation

- Our ANO sir take a part in this program and we are planted a trees.
- We are motivated people towards the tree plantation.





**Clean and Green program**

## 5-06-2020 World Environment Day Plantation & Awareness programme







Community plantation with the Association of RED CROSS Society on 02-09-2020

# 08-10-2020 Clean & Green Programme In Zoology Department



12-10-2020 Clean & Green Prog In Physics Department



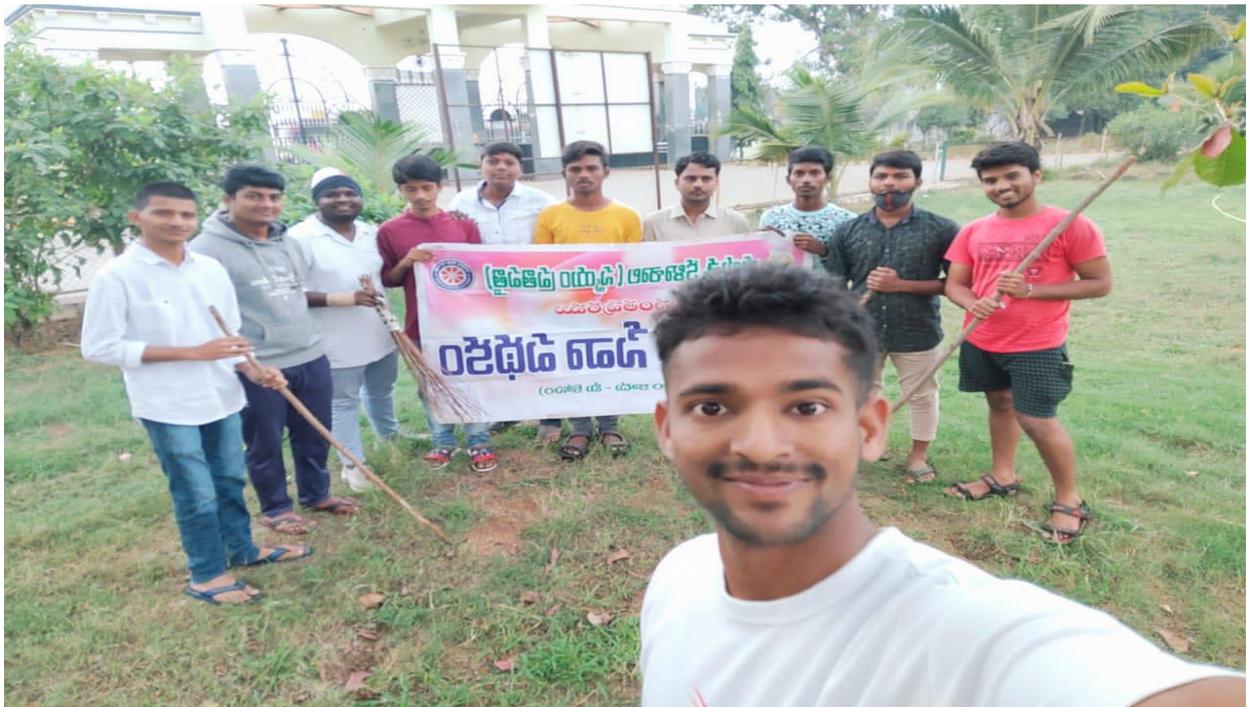
## 25-10-2020 "Sramadhan" Prog In The Part Of Clean India



17-11-2020 Clean &Green In Womes Hostel



## 22-11-2020 Swatch Bharath Programme At Saraswathi Statue



**DEC 11 2020**

We are conducted a go Green program.

\*our cadets where participated for the tree plantation program in virtually in their homes.

\*we are conducted a program for planting trees and aware the public towards the tree plantation.



## 16-01-2021 Plantation Programme in hostel Campus



## 23-01-2021 Nethaji Subhash Chandra Bose Jayanthy & Clean & Green Prog



Plantation programme on the eve of Vanamahostavam celebrated Celebrated on 01-06-2021

## **1. of the practice: Sustainable Development of Botanical Garden and College Garden**

### **2. Objectives of the practice:**

1. Establishment of Departmental Nursery
2. Renovation and maintenance of Botanical garden
3. Getting monetary fund by selling nursery plants.
4. Giving consultancy to the herbal growers/terrace garden/kitchen garden.
5. Participation of students in nursery development/plantation/maintenance of College/Botanical Garden
- 6.

### **3. The Context:**

Life styles are ever changing and rural people are migrating to urban areas. As a result, Villages are shrinking and cities are expanding. Demand for the production of goods required for the growing populations is also increasing at alarming rate. Besides these global warming, environmental disturbances, over exploitation of forest resources leads to increase the green house gases which shows multiples hazardous effects on both living and non-living things. Most of the Indian metropolitan cities are highly polluted, especially New Delhi. The major solution for these problems is plantation only. Plants can reduce all types of pollution. Land scaping and greenery gives pleasantness and extra beauty to the institute. Hence, we have selected this aspect as one the best weapon against pollution. Educational institutions are the best platforms to inculcate the habitat of plantation. It will be regular process in the department. We have attempted to show how to develop greenery in short period and suggest the plant species and their growth requirements. Most of the ornamental species are vegetatively propagated and students will be trained in this aspect. We encourage our students to grow terrace garden/Kitchen Garden.

### **4. The Practice:**

- We are maintaining departmental nursery.
- In our College Department of Botany look after the establishment and maintenance of College garden and Botanical Garden.
- We grow ornamentals, medicinal herbs, tree species. We multiply plants species vegetatively.
- We collect plastic covers, plastic cans, disposed plastic glasses and clean them. After cleaning depending upon the plant species we use plastic glasses/covers/bottles/cans. It help to reduce the plastic pollution.
- We are producing compost manure from the dried fallen leaves in the college premise.
- We prepare soil mix with clay, red soil and vermicompost or compost at 1:1:1 ratio
- Nursery pots are filled with fertile soil and sow the stem cuttings/plant lets and kept under shade and frequently watered
- We sell nursery plants for nominal rates for the staff and public

**Describe the practice and its uniqueness in the context of Indian higher education. What were the constraints of limitations, if any faced**

Nature is a part in our regular life. But due to modernization present human beings far away from nature. This is our small attempt to bring back nature into the urban areas. Busy life makes them to isolate from nature. By sparing little time every day for promoting greenery, each and every house will be filled by plants. Now every one is facing stress due to job tensions. Gardening and plantation are the best tools to over come stress. Besides this garden work makes body fit. The educational institutions must give extra credits to the students who participated in greenery promotion works. And the municipal corporations must bring a rule that each house must have proportionate greenery and rain water harvesting system. Then urban area filled with greenery. Besides this municipal corporations must give incentives and awards for the people who practice this type of greenery promotions works. Present day students are not aware of these greenery promotion activities. It is suggested that this must be include in the curriculum in schools. Maintaining nurseries and gardens is very difficult task. Because it need regular inspection, care and man power. Since Government educational institutions are having vast unusable are this activity will be successfully implemented. We can grow all types of plant species can make them mini biodiversity centres. Students must know all the botanical names and their uses.

### **The important plant species :**

**Medicinal Herbs:** *Gymnema sylvestris* (Podapathri), *Cymbopogon citrates* (Lemon grass), *Ocimum sanctum* (Thulasi), *Embllica officinalis* (Amla), Aloe vera, *Phyllanthus acidissima*,

**Tree Species:** *Tectona grandis* (Teak), *Pterocarpus santalinus* (Red Sandars), *Tabubia areus*, *Albezia lebec*, *Samania saman*, *Morus alba*, *Terminalia catappa*, *Sapindus emarginatus* (Soap nut), *Holoptelia integrifolia*, *Kigelia Africana*, *Jacarandra mimosifolia*, *Aegel marmelos*, Etc.

**OrnmentalPlants:** *Nymphaea nowchali* (water lily), *Hibiscus rosa sinesis* , *Jasminuma utumnale* (Jasmine), *Jatropha integerima*, *Pedilanthus tythimaloides*, *Bignonia*, *Tobernamentana divaricata*, *Agave sisalana* , *Alamanda*, *Bougainvillea* , *Pothos* , etc.

**Fruit trees:** Jack fruit, Clustard apple, Coconut, mango, Guava

## **5. Evidence of success:**

We have established a beautiful botanical garden and college within short span of time. We have multiplied so many palnt species and distributed to staff and public. Presently we are conserving xxxx plant species in our college premise. We are maintaining separate sector for desert pants, floral plants, fruit plants and forest tree species. We are maintaining aquatic flora in our botanical garden. Students are trained to propagate plants through stem cutting, bulbs and tubers etc. Our garden is considered as self sustainable. We multiply our plants and generate money by selling nursery plants.



Students preparing nursery plants





Dr. P. Amrutha Lakshmi, In-charge of the Department showing nursery plants



Nursery plants with Dr. B. Manohar Reddy, Lecturer in Botany



Dr. Souhandika, Lec.in Botany with nursery plants.



Staff members of the Department of Botany in the Botanical Garden



Students involving garden work



Students planting Sanseveria plants at the borders



Dr. Sougandhika Lec. In Botany. guiding the students



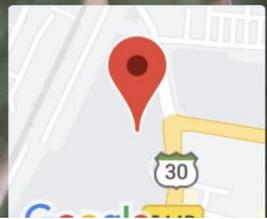
Nursery plants ready to plant



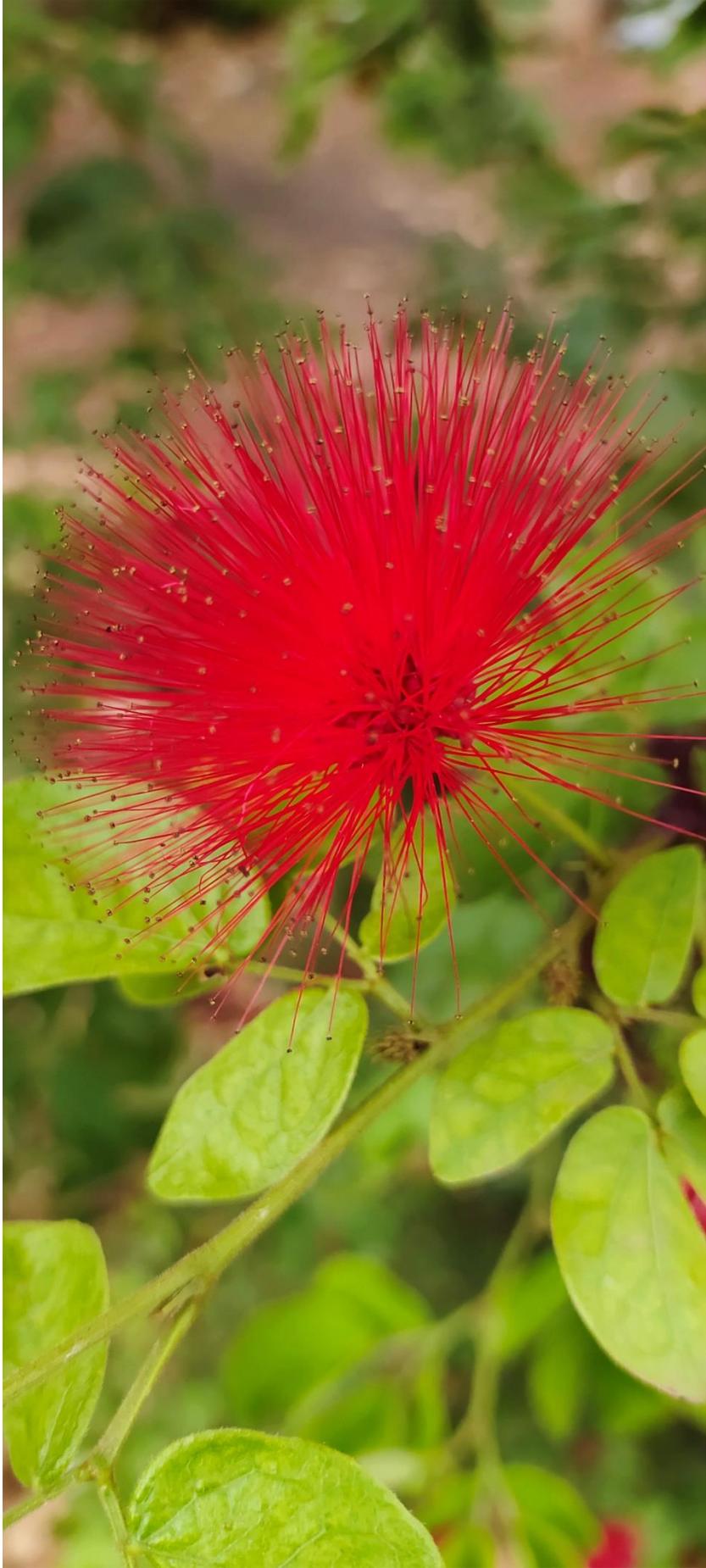
*Tecoma capensis*



GPS Map Camera



**Anantapur, Andhra Pradesh, India**  
MHMW+JC4, Kamalanagar, Anantapur, Andhra Pradesh  
515001, India  
Lat 14.68388°  
Long 77.595933°





Cycas plant with male cone