



GOVERNMENT DEGREE COLLEGE
RAYACHOTY ANNAMAYYA (DIST

GREEN AUDIT



DEPARTMENT OF BOTANY

2023



Members of Green Audit Committee

Dr. P.HARSHALATHA
Principal

B. KIRAN KUMAR
IQAC Coordinator

Dr.M.MUNYA NAIK
Head of the Department of Botany

BATTU.SHANTHA KUMARI
Lecturer in Botany

ExternalExpert-GreenAuditCommittee

Dr.A.MadusudhanReddy
Professor of
BotanyYVU
Kadapa

Introduction: The term “Green” means eco-friendly or not damaging the environment. This acronym is called as “Global Readiness in Ensuring Ecological Neutrality”(GREEN). Green accounting can be defined as systematic identification, quantification, recording, reporting & analysis of components of ecological diversity and expressing the same in financial or social terms. “Green Auditing”, an umbrella term, is known by another name “Environmental Auditing”. There is a provision of green audit in college campus. A committee has been formed to monitor the proper conservation and plantation of the plants in the campus. As per the suggestions made by IQAC, Botany department is given the responsibility to do green audit with cooperation of the environmental experts of the state. A report on green audit has been prepared by department of Botany Govt. Degree College, Rayachoty. This college was established in 1978 and accredited with Grade C by NAAC. Total area of college main campus is 10.01 acres, of which 31 percent is covered by herbs, shrubs and trees, including valuable medicinal flora. The plants have been systematically identified by the green audit committee. There are more than 350 plant species were audited. The green audit report has been discussed with environmental experts for suggestions to increase greenery in campus. Extra efforts have been taken by the college to create environment consciousness amongst students. One major step in this regard is the extensive plantation program organized by NSS, NCC, garden committee and students of Botany department. Plantation is encouraged by Principal and faculties of all departments to increase greenery and reduce Carbon emission effects. Renovation of the garden at the entrance was done with financial support from special funds of the college. Existing gardens are also maintained by the Department of Botany. Extension programs also organized to create

Environment awareness and conservation of biodiversity amongst the students and public.

Activities organized to create greenery and its conservation at college campus is as follows

- Plantation of diversified species (Botanical Garden)
- Uses of medicinal plants
- Identification of plant species

Plantation of diversified species: (Botanical Garden)

To create green cover, eco-friendly atmosphere, pure oxygen at the college campus, plantation program organized every year with involving all students, Principal and all departments faculty members. In this session Vana Mahotsav program was organized and about 100 Ornamental, avenue, medicinal plant with rare and exotic beautiful trees was planted in Botanical Garden and other parts of college campus. To keep the greeneries in the campus, we regularly maintain the gardens which are looked after by paid staff under the guidance of garden committee members. Moreover, every year we try to plant new trees. Seasonal flower garden is also a unique feature of this college.

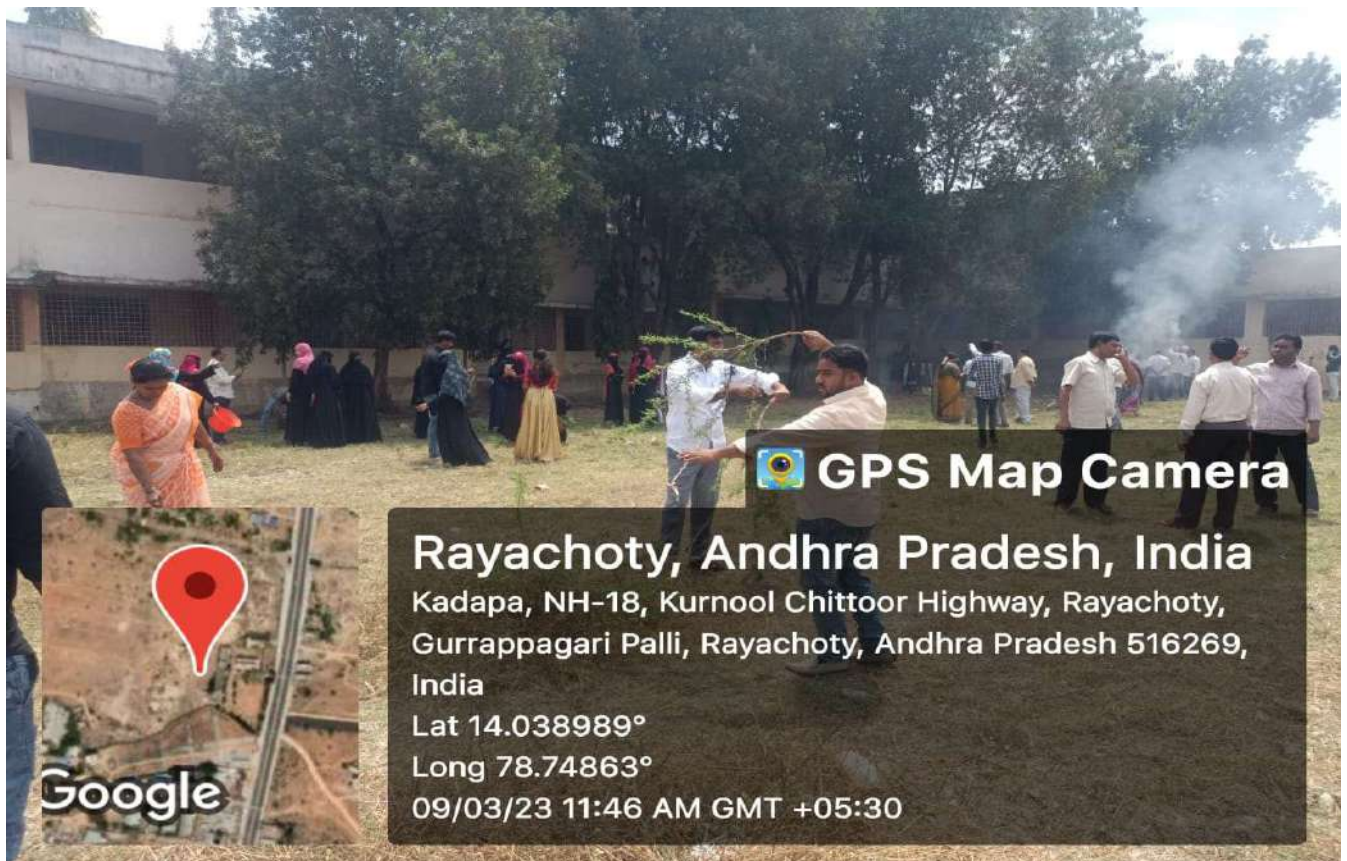
Uses of medicinal plants:

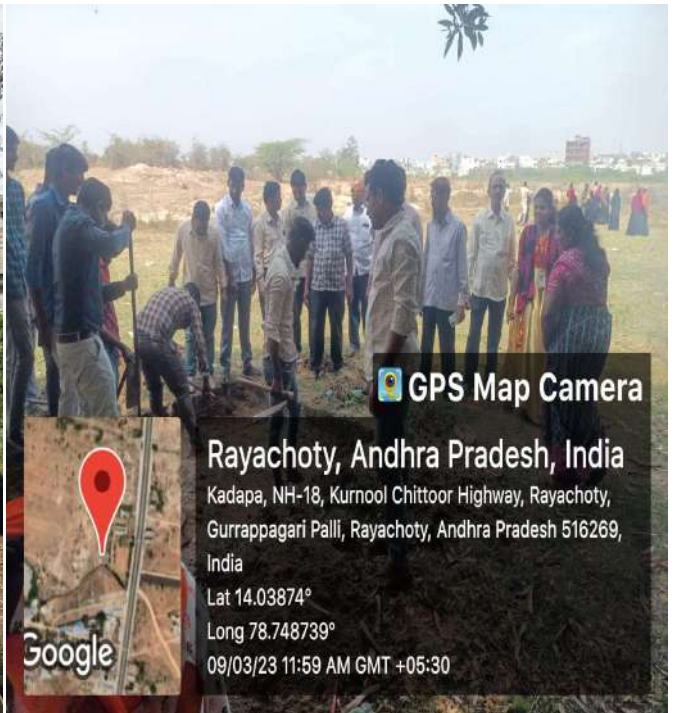
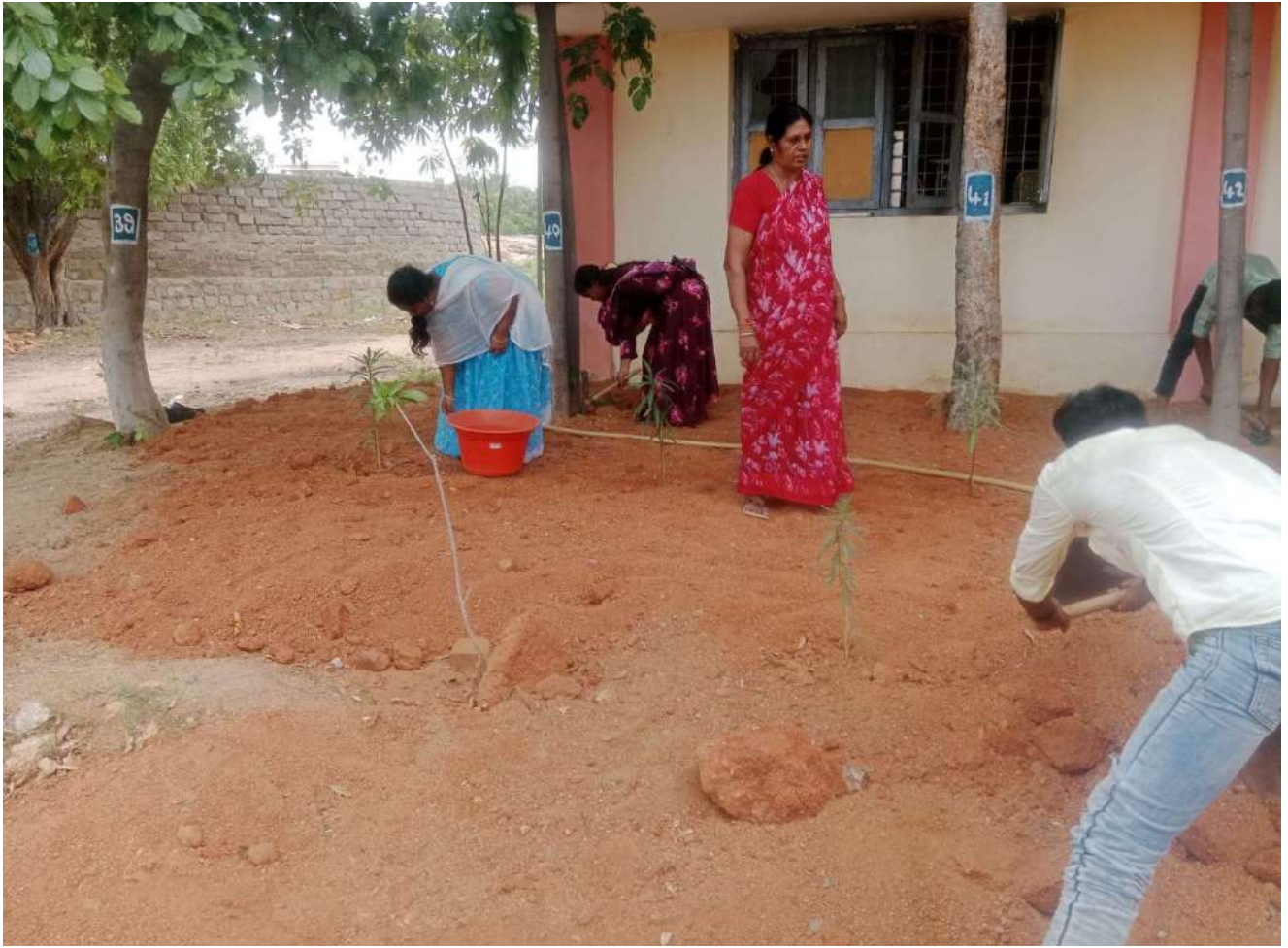
There are many medicinal plants are planted in college Botanical Garden. The plants have medicinal value but students don't have knowledge how to use and they can't identify the particular plants, so therefore faculty members department help them to identify with scientific name and give information about medicinal uses of the Plants.

Identification of Plant species:

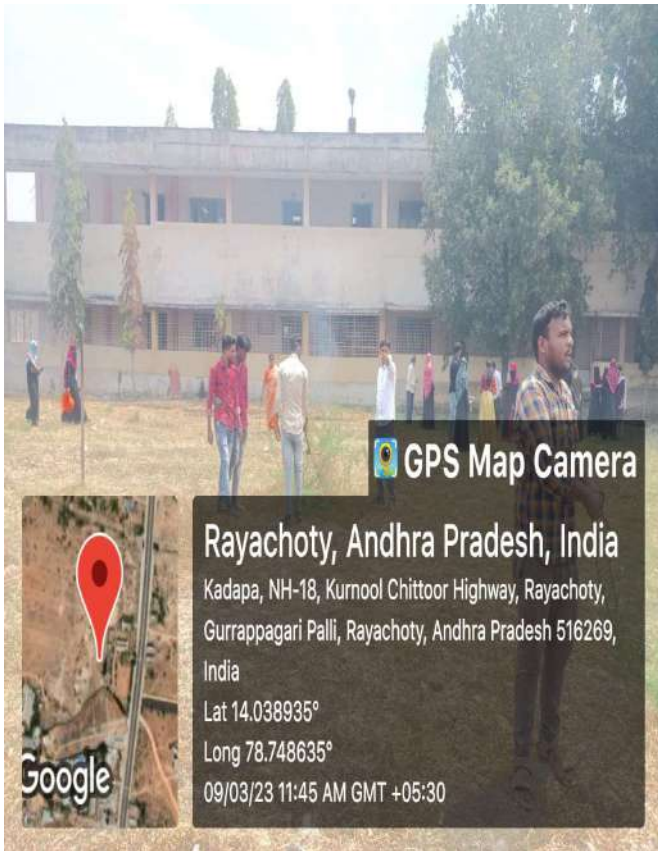
There are so many plant species are present at college campus. The faculty members of the botany department audited and identified of various plants species with the help of flora.

PHOTOS OF BOTANICAL GARDEN WORK BY PRINCIPAL, STAFF AND STUDENTS





Gardening work at college front and back side by students and staff.



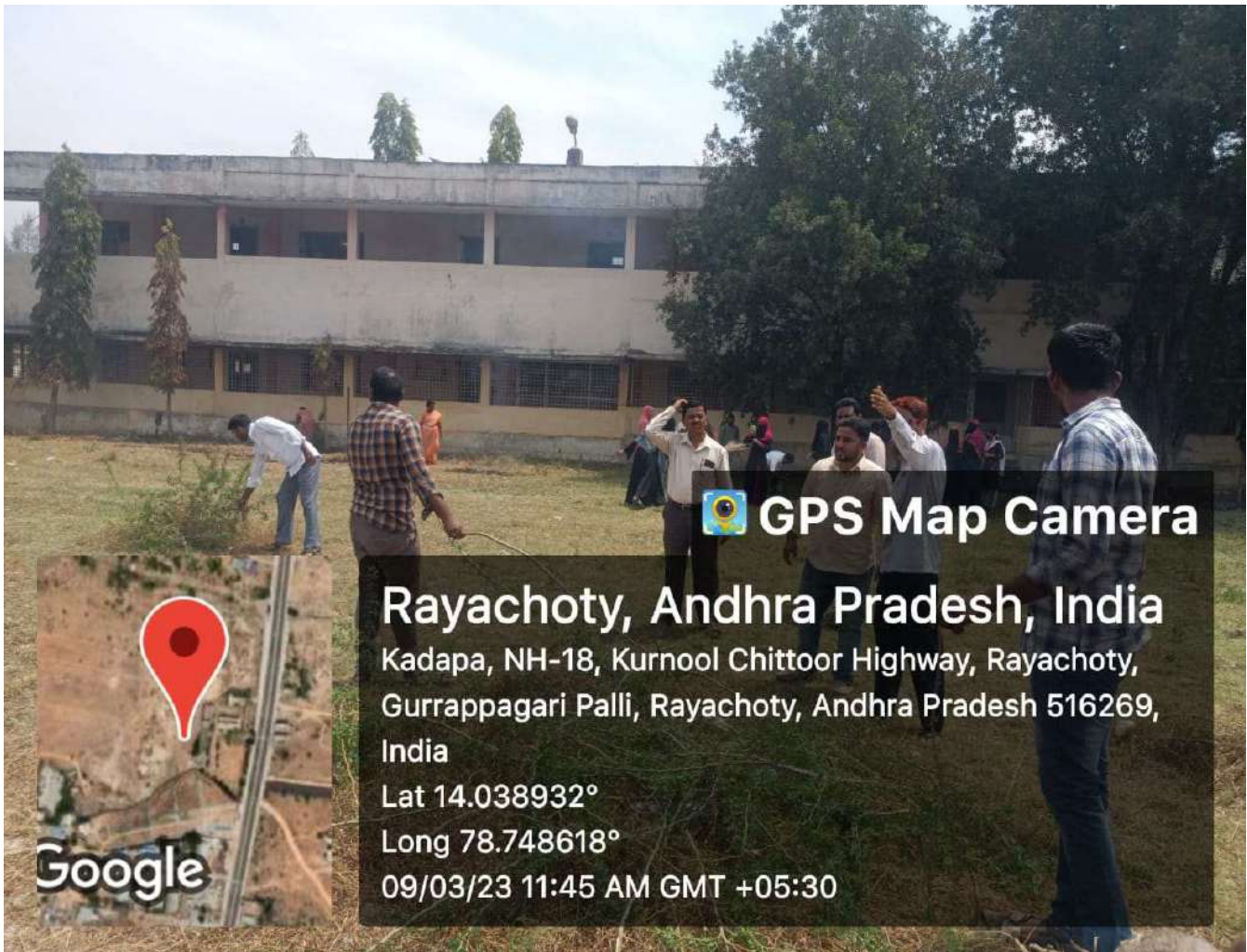


All students are worshipping the holes together



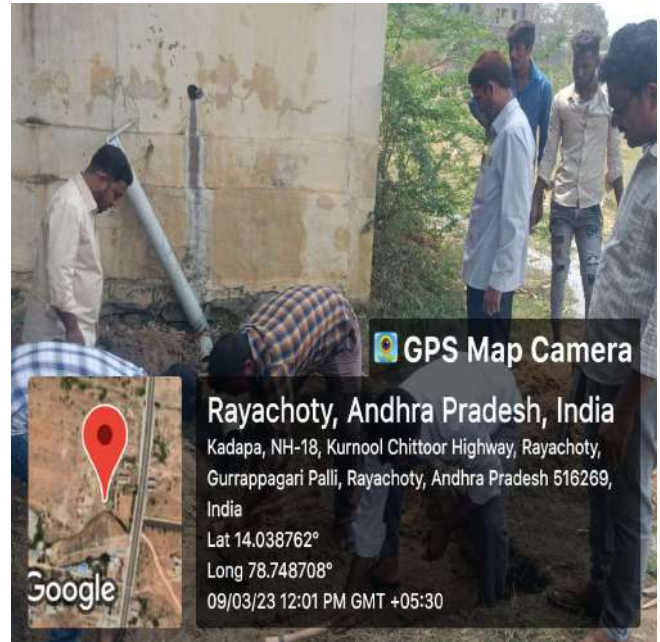


Gardening work by BZC students and NSS Students.





All Groups students are participated in clean .



LIST OF AUDITED PLANTS IN COLLEGE CAMPUS

SNO	Plant No	Name of the Plant	Family	No. of Species	Uses
1	1,7,25,39,65,66,69,90,91 92,93,94,95,96,97,98,99, 100,101,102,103,104, 105,106,107,108,109, 110,111,112,113	Pongamia pinnata	Fabaceae	31	Medicinal plant, Anti-inflammatory, Fuel, food source For cattle, sheep, poultry.
2	10,30,37,54,67,70,114	Terminalia catappa	Rosaceae	07	Medicinal plant, used in pharmacy (cosmetics and other) Almond oil, edible fruit.
3	2,8,11,16,17,20,40,42,44, 45,46,47,48,49,51,53,56 57,58,59,60,74,77,80,81 83,84,85,86,87,88,89	Saraca indica	Fabaceae	32	Medicinal plant, ornamental, control bleeding in piles, improves Menstrual Health Manages Blood Sugar levels, Treats Asthma, Respiratory issues.
4	15,115,116,117	Emblica officinalis	Phyllanthaceae	04	Medicinal plant, Improve body's immunity system, Anti bacterial And Astringent, Flush out the Toxins from the Body.
5	18,19,22,24,26,27,29,33, 34,35,36,38,72,75,76,79 82.	Conocarpus lancifolius	Combretaceae	17	Ornamental tree, But has become a health and environmental hazard .It is a poisonous plant
6	2,6,9,64	Delonix regia	Fabaceae	04	Medicinal Plant, To Treat in ancient and folk medicine, constipation, Rheumatoid arthritis, Diabetes, Malaria, Fixation of Atmospheric nitrogen.

7	28,31,32	Senna auriculata	Fabaceae	03	Medicinal plant, To reduce High Blood Sugar Levels, Skin and Hair Care advantages, Root is Used in Urinary System and Constipation.
8	41,55,117,118,119,120, 121,122,123,124,125 126,127,128,129,130 131,132,133,134,135 136.	Syzygium cumini	Myrtaceae	22	Medicinal plant, Cough, diabetes, inflammation and Ringworm and it has a long tradition in alternative medicine, Anti bacterial, anti allergic, anti canc
9	03,04,05,11,12,13, 61,63, 73	Albizia lebbeck	Fabaceae	09	Medicinal plant, Environmental, and edible plant, wild plant.
10	14,50,52,62,137,138, 139, 140,141,142,143,144,145, 146,147,148,149	Azadirachta indica	Meliaceae	17	Medicinal and herbal plant, increases immunity, treats wounds, fungal infections, nourishes skin and anti-inflammatory, purifies blood
11	68,71,161,162	Guiana chestnut	Malvaceae	04	Ornamental plant
12	150,151,152,153,154,155, 156,157,158,159,160.	Citrus limon	Rutaceae	11	Medicinal plant
13	163,164	Coccus nucifera	Arecaceae	2	Medicinal, Ornamental plant.
			Total	163	

OTHER PLANTS IN COLLEGE CAMPUS

S. N O	NAME OF THE PLANT	FAMILY	USES
1	<i>Psidium guajava</i>	<i>Myrtaceae</i>	<i>Medicinal plant</i>
2	<i>Annona squamosa</i>	<i>Annonaceae</i>	<i>Medicinal plant</i>
3	<i>Ziziphus mauritiana</i>	<i>Rhamnaceae</i>	<i>Medicinal plant</i>
4	<i>Phoenix dactylifera</i>	<i>Arecaceae</i>	<i>Edible plant</i>
5	<i>Calotropis procera</i>	<i>Apocynaceae</i>	<i>Ornamental, Medicinal plant</i>
6	<i>Citrus limon</i>	<i>Rutaceae</i>	<i>Medicinal plant</i>
7	<i>Senna auriculata</i>	<i>Fabaceae</i>	<i>Medicinal plant</i>
8	<i>Coccus nucifera</i>	<i>Arecaceae</i>	<i>Ornamental, Medicinal plant</i>
9	<i>Pterocarpus santalinus</i>	<i>Fabaceae</i>	<i>Timber plant, Medicinal plant</i>
10	<i>Ocimum sanctum</i>	<i>Lamiaceae</i>	<i>Medicinal, Wildsps</i>
11	<i>Nerium oleander</i>	<i>Apocynaceae</i>	<i>Ornamental, Medicinal plant</i>
12	<i>Agave amica</i>	<i>Asparagaceae</i>	<i>Ornamental plant</i>
13	<i>Acrus sapota</i>	<i>Sapindaceae</i>	<i>Edible fruit,</i>
14	<i>Azadirachta indica</i>	<i>Meliaceae</i>	<i>Medicinal, wild plant</i>
15	<i>Syzygiumcumini</i>	<i>Myrtaceae</i>	<i>Edible, Medicinal plant</i>
16	<i>Phyllanthus emblica</i>	<i>Phyllanthaceae</i>	<i>Medicinal plant</i>
17	<i>Punica granatum</i>	<i>Punicaceae</i>	<i>Ornamental and Medicinal plant</i>
18	<i>Eucalyptus globulus</i>	<i>Myrtaceae</i>	<i>Medicinal and Wild sps</i>
19	<i>Coleus anboinicus</i>	<i>Lamiaceae</i>	<i>Medicinal plant</i>
20	<i>Datura stramonium</i>	<i>Solanaceae</i>	<i>Medicinal plant</i>
21	<i>Lawsonia inermis</i>	<i>Lythraceae</i>	<i>Medicinal plant</i>
22	<i>Catharanthus roseus</i>	<i>Apocynaceae</i>	<i>Ornamental, Medicinal plant</i>
23	<i>Thuja occidentalis</i>	<i>Cupessaceae</i>	<i>Ornamental, Medicinal plant</i>
24	<i>Ixora coccinia</i>	<i>Rutaceae</i>	<i>Ornamental plant</i>
25	<i>Carica Popaya</i>	<i>Caricaceae</i>	<i>Medicinal plant</i>
26	<i>Codiaeum variegatum</i>	<i>Rutaceae</i>	<i>Ornamental plant</i>
27	<i>Sida acuta</i>	<i>Malvaceae</i>	<i>Medicinal plant</i>
28	<i>Hymenocallis littoralis</i>	<i>Amaryllidaceae</i>	<i>Ornamental plant</i>
29	<i>Murrayakoenigi</i>	<u><i>Rutaceae</i></u>	<i>Medicinal plant</i>
30	<i>Ficus religiosa</i>	<i>Moraceae</i>	<i>Medicinal plant</i>
31	<i>Tamarindus indica</i>	<i>Fabaceae</i>	<i>Medicinal plant</i>
32	<i>Butea monosperma</i>	<i>Fabaceae</i>	<i>Wild and tropical plant</i>

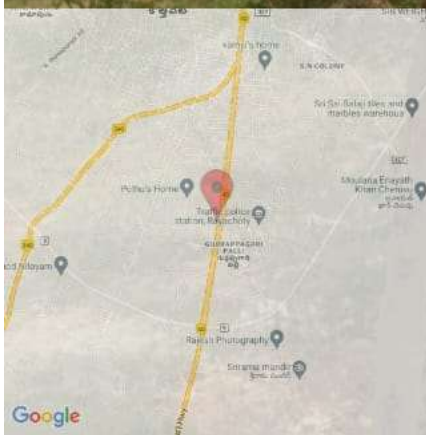
33	Euphorbia hirta	Euphorbiaceae	<i>Tropical plant</i>
34	Red sandal	Fabaceae	Timber, Medicinal
35	Tephrosia purpurea	Fabaceae	Pantropical plant
36	Acasia nilotica	Fabaceae	Medicinal plant
37	Plumeria obtusa	Apocynaceae	Ornamental plant
38	Tinosporacardifolia	Menispermaceae	Medicinal plant
39	Boerhaviadiffusa	Nictaginaceae	Medicinal plant
40	Bryophyllumpinnatum	Crassulaceae	Medicinal plant
41	Pongamiapinneta	Fabaceae	Bio- fuel plant
42	Araucaria columnaries	Araceae	Ornamental plant
43	Terminelliatappa	Combritaceae	Indian almond tree
44	Tectona grandis	Lamiceae	Timber plant
45	Tridox procumbens	Asteraceae	Medicinal plant
46	Croton banplandianum	Euphorbiaceae	Medicinal plant
47	Abutilon indicum	Malvaceae	Medicinal plant
48	Leucas aspera	Lamiaceae	Medicinal plant

TOTAL-163+48=211

PHOTOS OF AUDITED PLANTS IN COLLEGE CAMPUS



Phyllanthus emblica



Govt Degree College Bhanuberao Park, Kadapa - Chittoor Hwy, Durappagan Park, Rayachoty, Bhanuberao Park, Andhra Pradesh 516209, India

Rayachoty
Andhra Pradesh
India



33°C
91°F

2023-02-06(Mon) 10:52(AM)

Pongamia pinnata



Azadirachta indica



Terminalia catappa




Govt Degree College Bhymavaram Park, Kadapa · Chittoor Hwy, Surrappan Park, Rayachoty, Simalabingala, Andhra Pradesh 512018, India

Rayachoty
Andhra Pradesh
India

33°C
91°F

2023-02-06(Mon) 10:56(AM)



Senna auriculata



38: 105-0, Chittoor Rd, Gumpugan Pall, Syamsivara pall, Rayachoty, Syamalavampalle, Andhra Pradesh 516172, India

Rayachoty
Andhra Pradesh
India



33°C

91°F

2023-02-06(Mon) 10:45(AM)

Polyalthia longifolia



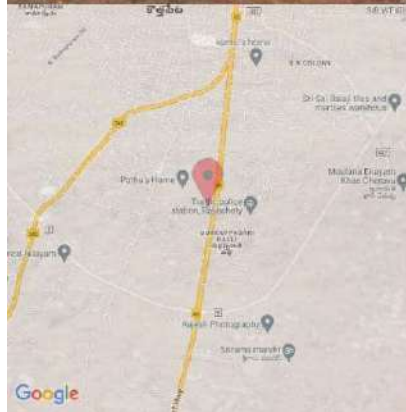
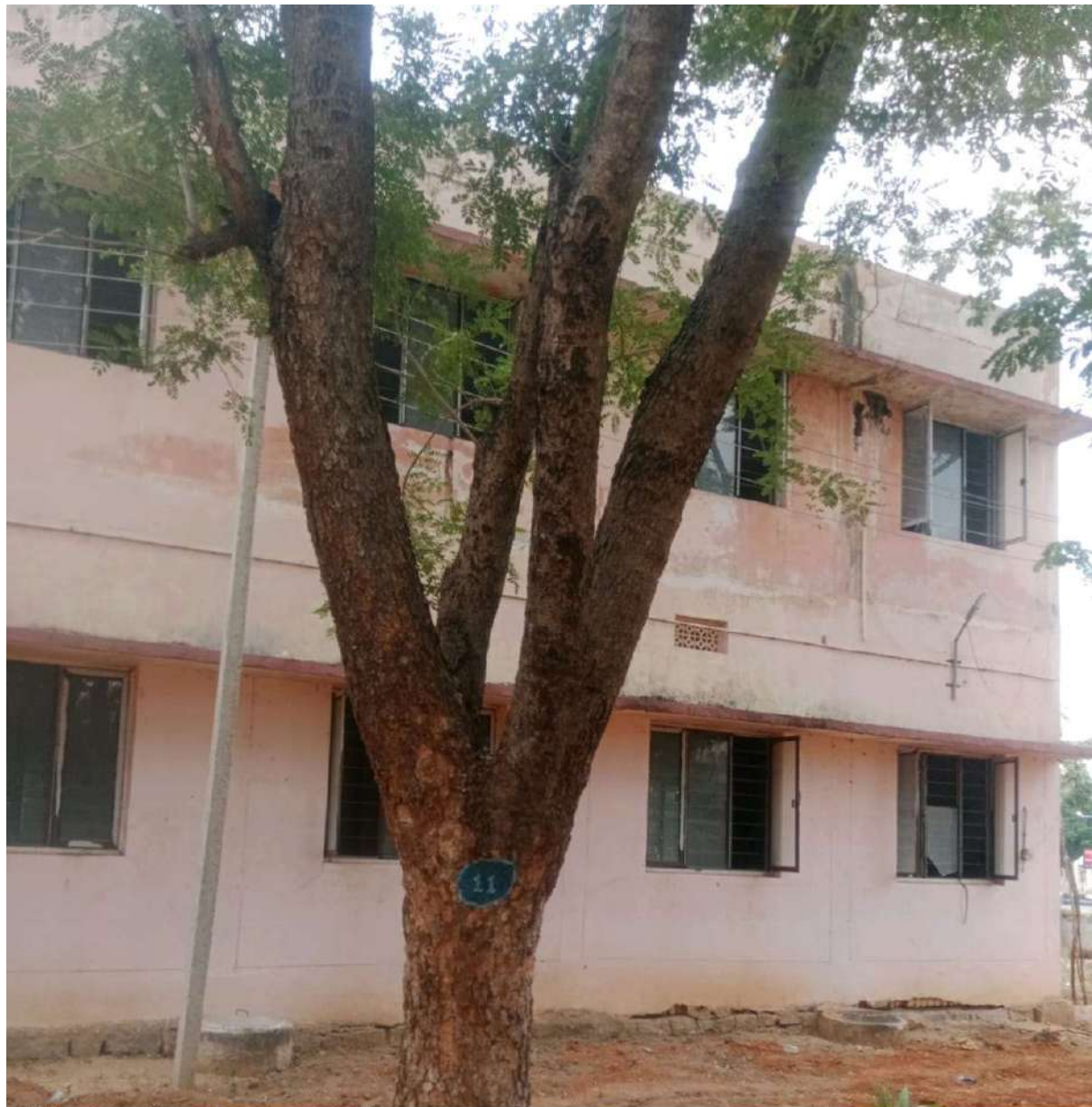
Tectona grandis



N0.55-Syzygium cumini



Delonix regia



36,105-9, Chittoor Rd, Rumpungudi Pak, Srinivaswarpalle, Rayachoty, Srinivaswarpalle, Andhra Pradesh 516172, India

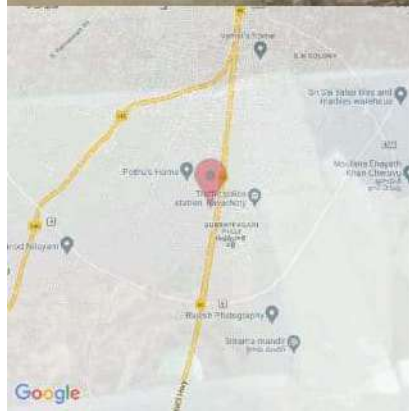
Rayachoty
Andhra Pradesh
India



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Albizia procera



Sri Lakshmi College, Srinivasa Rao Park, Kasabpalle, Chittoor, Jeeva, Uppalapudi, Rayachoty, Sijamalai, Anaparthi, Andhra Pradesh, 514204, India

Rayachoty
Andhra Pradesh
India



33°C

91°F

2023-02-06(Mon) 10:57(AM)




Conocarpus lancifolius

PHOTOS OF GREEN AUDITING WORK BY STAFF AND STUDENTS







 **GPS Map Camera**



Rayachoty, Andhra Pradesh, India

Govt Degree College Shyamalavari Palli, Kadapa - Chittoor Hwy, Gurrappagari Palli,


Rayachoty, Syamalavaripalle, Andhra Pradesh 516269, India

Lat 14.038988°

Long 78.748941°

04/02/23 04:09 PM GMT +05:30



 **GPS Map Camera**



Rayachoty, Andhra Pradesh, India

Govt Degree College Shyamalavari Palli, Kadapa - Chittoor Hwy, Gurrappagari Palli,

Rayachoty, Syamalavaripalle, Andhra Pradesh 516269, India

Lat 14.038988°

Long 78.748941°

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 **GPS Map Camera**

Rayachoty, Andhra Pradesh, India

Govt Degree College Shyamalavari Palli, Kadapa - Chittoor Hwy, Gurrappagari Palli,
Rayachoty, Syamalavaripalle, Andhra Pradesh 516269, India

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 **GPS Map Camera**

Rayachoty, Andhra Pradesh, India

Govt Degree College Shyamalavari Palli, Kadapa - Chittoor Hwy, Gurrappagari Palli,
Rayachoty, Syamalavaripalle, Andhra Pradesh 516269, India

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Google



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Rayachoty, Andhra Pradesh, India


Govt Degree College Shyamalavari Palli, Kadapa - Chittoor Hwy, Gurrappagari Palli,

Rayachoty, Syamalavaripalle, Andhra Pradesh 516269, India

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Long 78.748941°

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Long 78.748941°

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Rayachoty
Andhra Pradesh
India

32°C
90°F

2023-02-06(Mon) 11:40(AM)



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Rayachoty
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India

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90°F

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Herbarium keeper also painting to the plant



Students are searching the new species



Students are note down the plant Botanical Name



Students are collecting and identified the Medicinal plants.



OTHER PLANTS IN COLLEGE CAMPUS

Livistona chinensis



Bryophyllum pinnatum



Cassia auriculata



Sida acuta



Ziziphus mauritiana



Citrous limon



Punica granatum



Calotropis procera

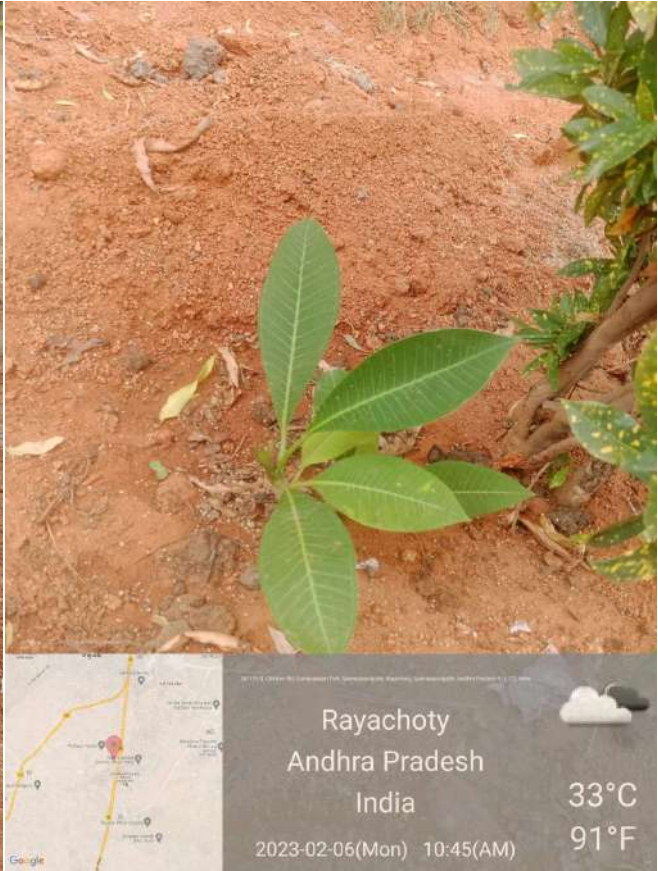


Rayachoty
Andhra Pradesh
India
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Syzygiumaquem



Plumeria acquitifolia

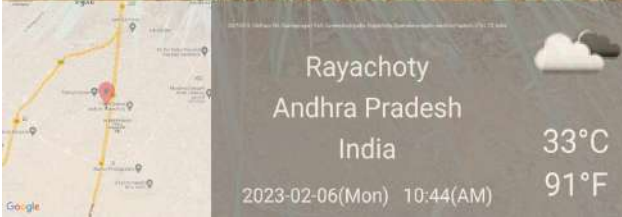


Codium variegatum

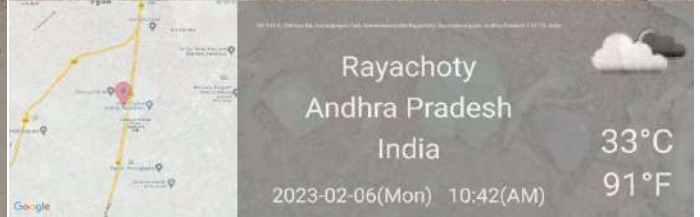


Acrus sapota

Agave amica



Pergularia demia



Tabernaemontana divaricata



Phyllanthus emblica



Coccus nucifera



Catharanthus roseus



Hymenocallis littoralis



Tuja accidentalis



Nerium oleander



Phoenix roebelenii



Lawsonia inermis



Phoenix dactylifera



Araucaria columnaris



Ixora coccinea



Cactus sps



Acrus sapota



Carica papaya



Pterocarpus santalinus



Annona squamosa



Euphorbia hirta



Tamaridus indica



Acasia nilotica



Eucalyptus globulus



Tephrosia purpuria





Hemanocallis latifolia



Psidium guajava



Murraya koenigi



Ficus religiosa

Butea monosperma



THANK YOU

