



Government Degree College

Rajampeta

GREEN AUDIT



DEPARTMENT OF BOTANY

2023



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Introduction

The term “Green” means eco-friendly or not damaging the environment. This can acronymically be 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, Rajampeta. This college was established in 1980 and accredited with Grade B by NAAC. Total area of college main campus is 5 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 439 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 of Botany 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 member of the botany department audited and identified of various plant species with the help of flora.

LIST OF AUDITED PLANTS IN COLLEGE CAMPUS 2023

S.NO.	PLANT NO	NAME OF THE PLANT	FAMILY	NO.OF SPECIES	USES	Remarks
1	1,5,6,7,9,10,11,13,15,16,17,19,20,22,23,24,25,26,27,28,30,31,32,36,38,41,42,43,44,45,46,47,49,50,71,93,104,105,106,107,108,109,110,120,132,133,143,148,149,150,151,152,153,154,155,156,157,158,159,160,161,165,166,168,169,170,171,173,174,175,176,177,179,180,181,182,183,184,186,187,188,189,190,195,196,197,198,199,200,201,202,203,204,205,206,208,210,216,217,218,219,220,221,228,229,230,231,232,236,237,238,239,240,241,242,243,244,250,251,252,253,254,255,279,281,289,293,294,301,302,303,304,305,307,308,309,310,311,312,313,314,315,316,317,318,325,326,327,329,330,331,332,333,334,335,336,337,338,339,340,341,342,344,345,346,347,348,350,351,352,356,359,360,366,367,370,371,373,375,377,378,379,381,382,383,388,390,401,405,408,410,411,413,414,416,417,420,422,426,427,434,436	<i>Peltophorumpterocarpum</i> (<i>Konda chintha</i>)	<i>Fabaceae</i>	202	Avenue,ornamental,fodder	
2	2	<i>Pterocarpus santalinus</i> (<i>Red sandle</i>)	<i>Fabaceae</i>	01	<i>Endemic, anticancer</i>	
3	3,35,59,65,69,103,112,114,118,123,130,135,137,138,139,141,144,146,147,162,163,164,212,222,223,224,226,227,234,248,249,256,259,260,263,265,269,270,272,274,275,276,278,280,282,283,284,286,287,288,290,291,292,295,296,300,319,320,321,324,349,362,374,384,385,386,387,389,391,392,393,394,395,396,397,398,400,402,403,404,407,409,412,415,421,423,425,431,433,438	<i>Azadirachta indica</i> (<i>Vepa</i>)	<i>Meliaceae</i>	90	Avenue tree,antifungal,antibacterial	

4	4	<i>Aegle marmelos</i> (Maredu)	<i>Rutaceae</i>	01	Traditional, anti-inflammatory activity	
5	8	<i>Cocos nucifera</i> (Kobbari)	<i>Arecaceae</i>	01	Fruit Edible,carpets ,fertilizers	
6	12,192,225,233,245,246,258,261,297,298,306,418,419,424,428,429,432,437	<i>Wrightia tinctoria</i> (Amkuda)	<i>Apocynaceae</i>	18	Palaindigopla nt,Avenue,Antipsoriatic,cancer,improves wound healing	
7	14,79,80,81,82,85,87,89,90,91,92,101,131. Note: 79 plant is replaced by <i>Azadirachta indica</i> .	<i>Tectona grandis</i> (Teaku)	<i>Lamiaceae</i>	13	Timber yield in plant,treat typhoid fever	*79-plant uprooted due to heavy rain
8	18	<i>Caryota urens</i> (Jelutong)	<i>Arecaceae</i>	01	Ornamental,leaf-fishing rod after trimming the branches of the leaf and drying	
9	21	<i>Polyalthia longifolia</i> (Ashoka)	<i>Annonaceae</i>	01	Avenue tree,Ornamental	
10	29,34,40	<i>Casuarina equisetifolia</i> (Sarugudu)	<i>casuarinaceae</i>	03	Social Forestry,Diarrhea	
11	33,140,213,214,406	<i>Syzygium cumini</i> (Neredu)	<i>Myrtaceae</i>	05	Avenue,Fruit edible,	
12	37,39,48,73,83,86,88,96,113,116,142,209,399,435 Note: 37 plant is replaced by same species.	<i>Pongamia pinnata</i> (Kanuga)	<i>Fabaceae</i>	14	Avenue,Insecticide,Skin	³⁷ plant is removed for the construction of RO Plant
13	51,52,53,54,56,58,61,63,66,68,185 Note : 53&61 plants replaced by <i>Tectona grandis</i> (Teaku)	<i>Roystonea regia</i> (Royal palm)	<i>Arecaceae</i>	11	Ornamental,lives tockfeed,leaves-thatching,wood-construction	53&61-Plants are wilted due to root infection.
14	55,57,111,215,264,266,273,277,299,323,372,	<i>Morinda pubescens</i> (Maddi)	<i>Rubiaceae</i>	11	Social forestry,antioxidant,hypote	

					nsivepotential s,timber yielding	
15	60,102,117,119,126,167,257,262,328,343,353,354,355,357,358,361,363,364,365,368,369,376,430,439	<i>Leucaena leucocephala</i> (<i>S ubabul</i>)	<i>Fabaceae</i>	24	Social Forestry, Fodder	
16	62,70,72,74,84,97,98,127,129,145,178,191,194,207,	<i>Delonexregia</i> (<i>P eddathurai</i>)	<i>Fabaceae</i>	14	Avenuetree,O rnemental	
17	64,136	<i>Holopteleainte grifolia</i> (<i>Thapasi</i>)	<i>Ulmaceae</i>	02	Avenue,rheu matism,oede ma,diabetis,le prosy and other skin disorders	
18	67,75,77,125,128,134	<i>Senna siamea</i> (<i>Seema thangedu</i>)	<i>Fabaceae</i>	06	Avenue tree,Ornamen tal	
19	76,94	<i>Ficus bengalensis</i> (<i>Mar ri</i>)	<i>Moraceae</i>	02	Avenue,nerve sdisorders,pai nful skin diseases	
20	78	<i>Soymidafebrifuga</i> (<i>Somi</i>)	<i>Meliaceae</i>	01	Avenue,diarrh oea,vaginalinf ections,rheu matism swellings	
21	95,100	<i>Termineliacatap pa</i> (<i>Badamu</i>)	<i>Combre taceae</i>	02	Avenue,dysen tery,heppatiti s,Fruit edible	
22	99	<i>Ficus religiosa</i> (<i>Ravi</i>)	<i>Moraceae</i>	01	Avenue,antiul cer,antibacter ial,antidiabeti c,gonorrhea and skin diseases.	
23	115	<i>Thespesia populnea</i> (<i>Ganga ravi</i>)	<i>Malvac eae</i>	01	Ornamental,S kin,dysentery,c holera,haemo rrhoids	
24	121	<i>Ficus racemose</i> (<i>Medi</i>)	<i>Moraceae</i>	01	Avenue,Medi cinalplant,dia betis,liverdiso	

					rders,diarrhea ,hemorrhoids	
25	122,172,211,235,268,285,	<i>Albizia lebbbeck(Diresena)</i>	<i>Fabace ae</i>	06	Avenue Tree,Timber,S kin,Bronchitis	
26	124	<i>Santalum album(Sri gandham)</i>	<i>Santala ceae</i>	01	Avenue,tradit ional,timber,a ntipyreticanti ceptic	
27	193,247	<i>Zizphusmauriti ana(Regu)</i>	<i>Rhamn aceae</i>	02	Fruit Edible,Fodder	
28	267,271	<i>Cordiadichotoma (Banka chettu)</i>	<i>Boragin aceae</i>	02	Fruit Edible,Stomac haces,coughs and chest complaints,Ag roforestry	
29	322	<i>Ficus amplissima</i>	<i>Morace ae</i>	01	Avenue,tradit ional,	
30	380	<i>Millingtoniahart ensis(Akasamalli)</i>	<i>Bignoni aceae</i>	01	Avenue,Orna mental,asthm a,sinusities	
			<i>Total</i>	439		

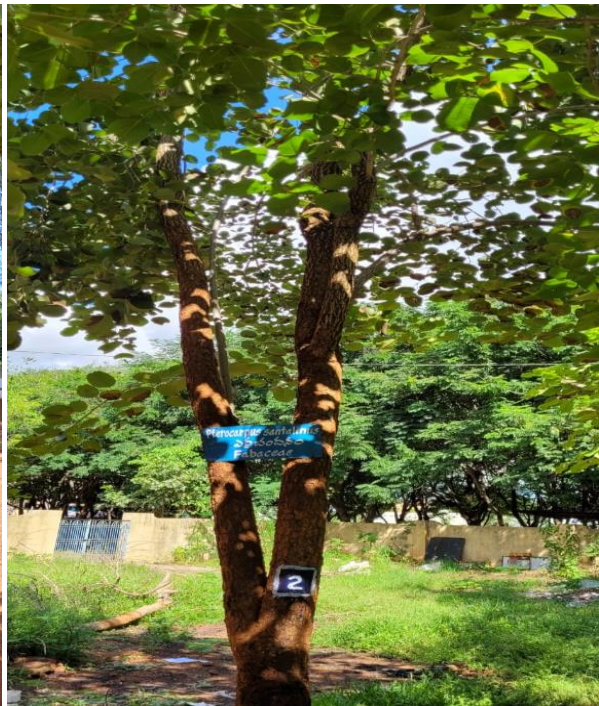
NOTE: Plant No 37 (Pongamia pinnata) was removed for the construction of RO Plant. This plant was replaced by Pongamia pinnata. Plant No79 (Tectona grandis) plant uprooted due to heavy rain. This plant was replaced by Azadirachta indica. Plant No 53&61(Roystonea regia Plants were wilted due to root infection. These plants were replaced by Tectona grandis. New plants were planted in their place to protect the biodiversity in the campus.



PHOTOS OF AUDITED PLANTS IN COLLEGE CAMPUS



Peltophorum pterocarpum



Pterocarpus santalinus



Azadiracta indca



Aegle marmelos



Cocos nucifera



Wrightia tinctoria



Tectona grandis



Caryota urens



Polyalthia longifolia

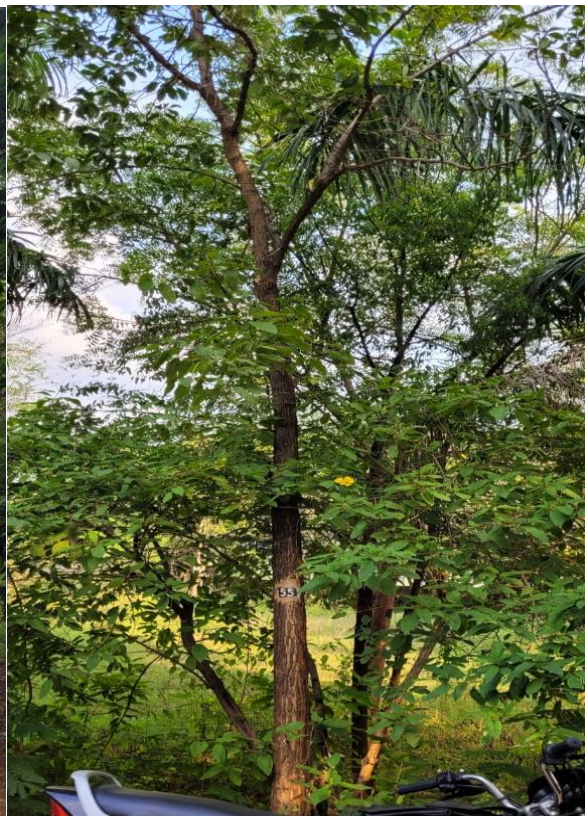


Casuarina equisetifolia





Roystonea regia



Morinda pubescens



Leucaena leucocephala



Delonex regia



Holoptelea integrifolia



Senna siamea



Ficus bengalensis



Soymida febrifuga



Terminelia catappa



Ficus religiosa



Thespesia populnea



Ficus racemose



Albizia lebbeck



Santalum album



Zizphus mauritiana



Cordia dichotoma



Millingtonia hartensis

NOTE: PLANTS WITH NUMBERS 79(*Tectona grandis*), 37(*Pongamia pinnata*), 53&61(*Roystonea regia*) WERE DESTROYED AND UPROOTED DUE TO HEAVY RAIN AND WINDS.

NEW PLANTS WERE PLANTED IN THEIR PLACE TO PROTECT THE BIODIVERSITY AT THE CAMPUS(*Azadirachta indica*, *Pongamia pinnata*, *Tectona grandis*, *Tectona grandis*).

OTHER PLANTS IN COLLEGE CAMPUS

S.NO	NAME OF THE PLANT	FAMILY	USES
1	<i>Pseuderanthemum laxiflorum</i>	<i>Acanthaceae</i>	Ornamental purpose
2	<i>Crinum asiaticum</i>	<i>Amaryllidaceae</i>	Ornamental, hernia
3	<i>Dracaena reflexa</i>	<i>Asparagaceae</i>	Ornamental, anti-malaria
4	<i>Tredescantiaspathacea</i>	<i>Commelinaceae</i>	Ornamental, bronchitis
5	<i>Araucaria heterophylla</i>	<i>Araucariaceae</i>	Ornamental, furniture
6	<i>Duranta erecta</i>	<i>Verbinaceae</i>	Ornamental, antimicrobial
7	<i>Bryophyllum pinnata</i>	<i>Crassulaceae</i>	Ornamental, Urinary disorders
8	<i>Rhoeo discolor</i>	<i>Commelinaceae</i>	Ornamental, anti-cancer
9	<i>Pandanus babbisti</i>	<i>Pandanaceae</i>	Ornamental, nasi lemak
10	<i>Licuala grandis</i>	<i>Arecaceae</i>	Ornamental, thatching
11	<i>Codiaeum variegatum</i>	<i>Euphorbiaceae</i>	Ornamental, stomach ache
12	<i>Euphorbia tithymaloides</i>	<i>Euphorbiaceae</i>	Ornamental, antitumoral
13	<i>Aloe vera</i>	<i>Asphodelaceae</i>	Ornamental, wound healing
14	<i>Dieffenbachia seguine</i>	<i>Araceae</i>	Ornamental, tumours, warts
15	<i>Borassus flabellifer</i>	<i>Arecaceae</i>	Ornamental, mats, baskets
16	<i>Cestrum nocturnum</i>	<i>Solanaceae</i>	Medicinal, anti-HIV
17	<i>Annona squamosa</i>	<i>Annonaceae</i>	Edible fruit, treat tumours
18	<i>Pritchardia beccariana</i>	<i>Arecaceae</i>	Ornamental, thatching roofs, hats
19	<i>Ravenaria rivularis</i>	<i>Arecaceae</i>	Ornamental, fertilizer
20	<i>Pandanus tectorius</i>	<i>Pandanaceae</i>	Ornamental, arthritis
21	<i>Mangifera indica</i>	<i>Anacardiaceae</i>	Avenue, antiseptic
22	<i>Bismarckia nobilis</i>	<i>Arecaceae</i>	Ornamental, hypertension
23	<i>Phoenix pusilla</i>	<i>Arecaceae</i>	Ornamental, Edible Fruit
24	<i>Plumeria rubra</i>	<i>Apocyanaceae</i>	Ornamental, back pain
25	<i>Hibiscus rosa-sinensis</i>	<i>Malvaceae</i>	Ornamental,
26	<i>Lawsonia inermis</i>	<i>Lythraceae</i>	Ornamental, anti-inflammatory



Dieffenbachia seguine



Aloe vera



Licuala grandis



Codiaeum variegatum



Rhoeo discolor



Euphorbia tithymaloides



Pandanus tectorius



Ravenaria vulgaris



Pandanus babbistii



Duranta erecta



Crinum asiaticum



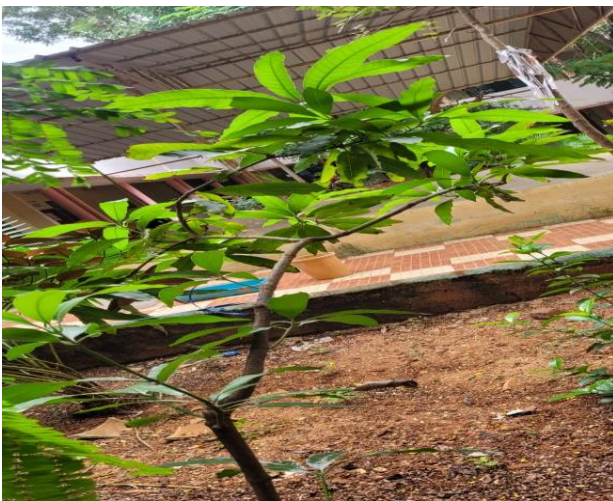
Dracaena reflexa



Pseuderanthemum laxiflorum



Cestrum nocturnum



Mangifera indica



Plumeria rubra



Phoenix pusilla



Bismarckia nobilis



Hibiscus roja-sinensis



Lawsonia inermis



Pritchardia beccariana



Annona squamosa



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