



GOVERNMENT COLLEGE KASARAGOD

VIDYANAGAR, KASARAGOD, KERALA, 671123

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NAAC 3RD CYCLE ACCREDITATION

GREEN AUDIT REPORT



GOVERNMENT COLLEGE KASARAGOD

VIDYANAGAR, KASARAGOD, KERALA 671123

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Green Audit Team

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Municipal Ward Councillor, Kasaragod Municipality

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Authentication

This is to certify that we have conducted a Green Audit for Government College Kasaragod to assess the efficacy of green initiatives by the college to maintain the college eco-friendly. The measures and action taken by the college towards the development of a sustainable green environment are highly appreciable and commendable.

Savitha B

(Municipal Ward Councilor)

SAVITHA.

**Municipal Councillor
Kasaragod Municipality**

Dr. Biju P

(Internal Audit Team Convenor)



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ACKNOWLEDGMENTS

The team responsible for this audit, comprised of Dr. Biju P, Assistant Professor, Department of Botany, Government College Kasaragod, under the supervision and direction of Name & Designation, would like to thank those individuals who contributed to this project, particularly, Dr. V. S. Anilkumar, Principal, Government College Kasaragod, all the faculties and staff who provided insights and comments as part of this audit.



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STATEMENT OF ASSURANCE

This audit has been conducted in accordance with the International Standards for the Professional Practice of Internal Auditing. In our professional judgement, sufficient and appropriate audit procedures were completed, and evidence was gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations as they existed at the time of the audit with the established criteria.



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EXECUTIVE SUMMARY

"An Green audit is a systematic management tool employed to safeguard and preserve the environment, as well as to promote its sustainability. This audit evaluates various established criteria, approaches, and initiatives for utilising the environment effectively. Green Auditing of the Government College Kasaragod enables us to assess the way of living and its impact on the environment. The process of generating the audit report involved the use of questionnaires, group discussions, and interviews to collect information. This information, along with recommendations and suggestions, was then utilised to create the final Green Audit report."




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1. INTRODUCTION

About the College

Government College Kasaragod was established in 1957 by the Government of Kerala, as a need was felt for a college in this underdeveloped area. The College commenced functioning early in August 1957. The College was declared open by the Honourable Minister of Finance, Sri. C. Achutha Menon on 07-08-1957. Now, the college offers 14 undergraduate courses, 8 postgraduate courses and 6 PhD programmes. College is re-accredited with NAAC 'A' grade in 2013. In 2021, the college was ranked 82 among all colleges in India under the National Institution Ranking Framework (NIRF).

Mission

“Our Mission is to achieve the overall development of the students with a focus on knowledge, skill and the right social attitudes and service-mindedness required for attaining excellence in personal as well as social life.”

Vision

“We are guided and inspired by a glorious vision to use our physical, mental and Intellectual energies to the advancement of the individual and the society, to strive for the noble cause of education, truth and righteousness, to instil a sense of pride and emotional belongingness in the mind of every individual.”



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Courses offered by the College

Undergraduate Courses

BA Arabic	BSc Botany	BSc Chemistry	BCom Co-operation
BA Economics	BA English	BSc Computer Science	BSc Geology
BA History	BA Kannada	BA Malayalam	BSc Mathematics
BSc Physics	BSc Zoology		

Post Graduate Programmes

MA Arabic	MSc. Chemistry	MA Economics	MA English
MSc Geology	MA Kannada	MSc Mathematics	MSc Physics with Computational and Nano Science Specialization

Ph.D. Programs

PhD in Chemistry	PhD in Economics	PhD in Geology	PhD in Kannada
PhD in Zoology	PhD in Statistics	PhD in Arabic	

Student and faculty strength:

Total number of Students	1953
Teachers	99
Non-teaching staff	42
Total	2094




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2. PHYSICAL AREAS

Government College Kasaragod has a total area of 30.26 Acres. Out of the total area, 10153.81 square metres is the built-up area, and the rest of the area is used for various purposes. The following table provides a detailed breakdown of the built-up area within the campus:

Area details of the Government College Kasaragod:

Sl. No	AREA DETAILS	BUILT UP AREA (im m ²)
1	Science block	177.5
2	Main block	436.85
3	Auditorium	124.80
4	Open auditorium	90.30
5	Library	190
6	Canteen	52
7	Maths block	100.70
8	T block	207.43
9	Old PG block	76.46
10	Kannada-Arabic block	167.83
11	New tank	39.66



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3. OBJECTIVES OF THE AUDIT

- Acknowledge the institution's proactive efforts in promoting Green awareness and action.
- Safeguard the environment and mitigate threats that can harm human health.
- Provide essential data for institutions to assess and manage Green changes, hazards, and risks.
- Identify, diagnose, and solve Green issues effectively.
- Recognize the reciprocal impact between institutions and the environment.
- Pinpoint and manage the influence of an institution's activities on the environment.
- Recommend optimal guidelines for sustainable development within organisations and for Green conservation.
- Evaluate Green performance and the effectiveness of measures in achieving specific objectives and targets.
- Identify various factors pressuring institutions to enhance their Green performance.
- Ensure responsible utilisation of natural resources in accordance with national Green policies.
- Establish criteria for preserving the health and well-being of the institution's community.




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4. METHODOLOGY ADOPTED

1. Field Visit:

The purpose of the field visit is to analyse the biodiversity of different sources. The Green audit team conducted field visits during specific intervals and collected the data on different indicators.

2. Group Discussion:

Group discussions were held with Bhoomithrasena, Eco club, Nature club, NSS, faculties, office staff, and management of the various strategies of target areas.

3. Survey:

The environment audit team conducted surveys on various aspects of target areas by distribution of survey founders on different headings. All the departments, office, canteen, and library participated in the detailed questionnaire survey study.



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5. CARBON FOOTPRINT ANALYSIS

The analysis of a carbon footprint allows the institution to assess its Green impact by considering the carbon consumption of stakeholders or the direct and indirect emissions of CO₂ or greenhouse gases (GHG) throughout the entire life cycle of activities. Drawing from the initial footprint concept, this study has devised a method specifically tailored for assessing institutional carbon footprints. Carbon footprint analysis serves as a tool for evaluating the ecological sustainability of consumption. However, since this study concentrates on GHG emissions resulting from institutional lifestyle and transportation choices and their effects on the environment, we have adapted the original footprint analysis to incorporate institutional criteria.

Institutional parameters:

Total number of vehicles	Cars: 21, Motorcycle:53
Average distance travelled by stakeholders	28 km
Quantity of fuel	4L - 5L
Amount spent per day	Rs. 472
No. of persons using public transportation	950
No. of generators in the institution	3
No. of LPG cylinders used on campus	16
Source of any other fossil fuel in the college	Nil




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6. BIODIVERSITY AUDIT

The Department of Botany and Department of Zoology conducted a Biodiversity survey and listed the flora and fauna of the campus and displayed name boards on trees. It reveals that a large number of plants and animals inhabit the campus and it is important to take measures for conserving them. There are 176 species of animals and 403 species of plants on campus. The list of the flora, fauna are as follows:

List of Fauna		
Phylum : Annelida		
Worms		
Sl. no.	Common name	Scientific name
1	Earthworm	<i>Pheretima posthuma</i>
Phylum : Arthropoda		
Butterflies and moths		
Sl. no.	Common name	Scientific name
2	Atlas moth	<i>Attacus atlas</i>
3	Lime butterfly	<i>Papilio demolus</i>
4	Commander	<i>Modura procris</i>
5	Passion butterfly	<i>Dione vanillae</i>
6	Plain tiger butterfly	<i>Danaus chrysippus</i>
7	Chocolate pansy butterfly	<i>Junonia iphita</i>
8	Common crow	<i>Euploea core</i>
9	Blue tiger butterfly	<i>Tirumala limniace</i>
10	Tawny coster	<i>Acraea terpsicore</i>
11	Common grass yellow butterfly	<i>Eurema hecabe</i>
12	Sugarcane looper	<i>Mocis frugalis</i>
13	Tamil yeoman	<i>Cirrochroa thais</i>
Grasshoppers		
Sl. no.	Common name	Scientific name
14	Litter moth	<i>Herminia indicus</i>
15	Slender blue winged grasshopper	<i>Sphingonotus caeruleans</i>
16	Rufous grasshopper	<i>Gomphocerippus rufus</i>
17	Green grasshopper	<i>Omocestus viridulus</i>
18	Pallid-winged grasshopper	<i>Trimerotropis pallidipennis</i>



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19	Grey bird grasshopper	<i>Schistocerca nitens</i>
Beetles and flies		
Sl. no.	Common name	Scientific name
20	Elephant emperor	<i>Anax indicus</i>
21	Yellow fever mosquito	<i>Aedes aegypti</i>
22	Orange pumpkin beetle	<i>Aulacophora foveicollis</i>
23	Wandering glider	<i>Pantala flavescens</i>
24	Squash bug	<i>Anasa tristis</i>
25	Stonefly	<i>Plecoptera</i>
26	Mintbeetle	<i>Chrysolina coerulans</i>
27	Flea beetle	<i>Aphthona flava</i>
28	Lady bug	<i>Coccinellidae</i>
29	Common love bugs	<i>Plecia nearctica</i>
30	Pale green assassin bug	<i>Zelus luridus</i>
31	Pink hibiscus mealybug	<i>Maconellicoccus hirsutus</i>
32	Cricket	<i>Cicadas</i>
33	Blue mud wasp	<i>Chalybion californicum</i>
34	Oriental latrine fly	<i>Chrysomya megacephala</i>
35	Blue eyed ensign wasp	<i>Evania appendigaster</i>
36	Rice hispa	<i>Dicladispa armigera</i>
Spiders		
Sl. no.	Common name	Scientific name
37	Tan jumping spider	<i>Platycryptus undatus</i>
38	Ant mimic spider	<i>Myrmarachne</i>
39	Dark fishing spider	<i>Dolomedes tenebrosus</i>
Ants		
Sl. no.	Common name	Scientific name
40	Black garden ant	<i>Lasius niger</i>
41	Fire ant	<i>Solenopsis invicta</i>
Phylum : Mollusca		
Gastropodans		
Sl. no.	Common name	Scientific name
42	Garden snail	<i>Cornu aspersum</i>
Phylum : Chordata		



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Reptiles		
Sl. no.	Common name	Scientific name
43	Boettger's emoskink	<i>Emoia boettgeri</i>
44	Indian cobra	<i>Naja naja</i>
45	Russell's viper	<i>Daboia russelii</i>
46	Indian green pit viper	<i>Craspedocephalus gramineus</i>
47	Indian rat snake	<i>Ptyas mucosa</i>
48	Common Krait	<i>Bungarus caeruleus</i>
Birds		
Sl. no.	Common name	Scientific name
49	Indian Peafowl	<i>Pavo cristatus</i>
50	Black-naped Monarch	<i>Hypothymis azurea</i>
51	Common Tailorbird	<i>Orthotomus sutorius</i>
52	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>
53	Puff-throated Babbler	<i>Pellorneum ruficeps</i>
54	Brown Wood-Owl	<i>Strix leptogrammica</i>
55	Greater Coucal	<i>Centropus sinensis</i>
56	Slaty-legged Crake	<i>Rallina eurizonoides</i>
57	Orange-headed Thrush	<i>Geokichla citrina</i>
58	Gray-breasted Prinia	<i>Prinia hodgsonii</i>
59	Gray-headed Bulbul	<i>Brachypodius priocephalus</i>
60	Oriental Magpie-Robin	<i>Copsychus saularis</i>
61	Rock Pigeon	<i>Columba livia</i>
62	Little Swift	<i>Apus affinis</i>
63	Rose-ringed Parakeet	<i>Psittacula krameri</i>
64	Ashy Woodswallow	<i>Artamus fuscus</i>
65	Common lora	<i>Aegithina tiphia</i>
66	White-browed Bulbul	<i>Pycnonotus luteolus</i>
67	Southern Hill Myna	<i>Gracula indica</i>
68	Purple-rumped Sunbird	<i>Leptocoma zeylonica</i>
69	Red Spurfowl	<i>Galloperdix spadicea</i>
70	Cattle Egret	<i>Bubulcus ibis</i>
71	Indian Pond-Heron	<i>Ardeola grayii</i>
72	Red-wattled Lapwing	<i>Vanellus indicus</i>



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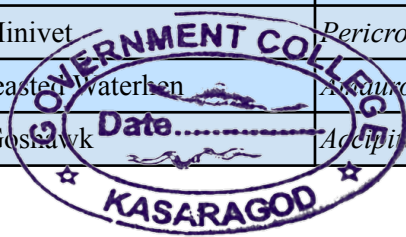
73	Shikra	<i>Accipiter badius</i>
74	White-browed Wagtail	<i>Motacilla maderaspatensis</i>
75	Asian Palm Swift	<i>Cypsiurus balasiensis</i>
76	White-throated Kingfisher	<i>Halcyon smyrnensis</i>
77	House Crow	<i>Corvus splendens</i>
78	Large-billed Crow	<i>Corvus macrorhynchos</i>
79	White-cheeked Barbet	<i>Psilopogon viridis</i>
80	Yellow-browed Bulbul	<i>Iole indica</i>
81	Pale-billed Flowerpecker	<i>Dicaeum erythrorhynchos</i>
82	Golden-fronted Leafbird	<i>Chloropsis aurifrons</i>
83	Indian Paradise-Flycatcher	<i>Terpsiphone paradisi</i>
84	Flame-throated Bulbul	<i>Rubigula gularis</i>
85	Jerdon's Leafbird	<i>Chloropsis jerdoni</i>
86	Brown-capped Pygmy Woodpecker	<i>Yungipicus nanus</i>
87	Common Woodshrike	<i>Tephrodornis pondicerianus</i>
88	Brahminy Kite	<i>Haliastur indus</i>
89	Asian Green Bee-eater	<i>Merops orientalis</i>
90	Black Drongo	<i>Dicrurus macrocercus</i>
91	Ashy Drongo	<i>Dicrurus leucophaeus</i>
92	Common Myna	<i>Acridotheres tristis</i>
93	Scaly-breasted Munia	<i>Lonchura punctulata</i>
94	Vernal Hanging-Parrot	<i>Loriculus vernalis</i>
95	Indian Golden Oriole	<i>Oriolus kundoo</i>
96	Blyth's Reed Warbler	<i>Acrocephalus dumetorum</i>
97	Red-vented Bulbul	<i>Pycnonotus cafer</i>
98	Chestnut-tailed Starling	<i>Sturnia malabarica</i>
99	Purple Sunbird	<i>Cinnyris asiaticus</i>
100	Little Spiderhunter	<i>Arachnothera longirostra</i>
101	Little Ringed Plover	<i>Charadrius dubius</i>
102	Blue-tailed Bee-eater	<i>Merops philippinus</i>
103	Rosy Starling	<i>Pastor roseus</i>
104	Greater Racket-tailed Drongo	<i>Dicrurus paradiseus</i>
105	Rufous Treepie	<i>Dendrocitta vagabunda</i>
106	Black Kite	<i>Milvus migrans</i>



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107	Asian Koel	<i>Eudynamys scolopaceus</i>
108	Spotted Dove	<i>Spilopelia chinensis</i>
109	Chestnut-headed Bee-eater	<i>Merops leschenaulti</i>
110	Green Warbler	<i>Phylloscopus nitidus</i>
111	Asian Brown Flycatcher	<i>Muscicapa dauurica</i>
112	Indian Blackbird	<i>Turdus simillimus</i>
113	Oriental Honey-buzzard	<i>Pernis ptilorhynchus</i>
114	Loten's Sunbird	<i>Cinnyris lotenius</i>
115	Black-hooded Oriole	<i>Oriolus xanthornus</i>
116	Ashy Prinia	<i>Prinia socialis</i>
117	Large Cuckooshrike	<i>Coracina macei</i>
118	Plain Prinia	<i>Prinia inornata</i>
119	White-rumped Munia	<i>Lonchura striata</i>
120	Black-rumped Flameback	<i>Dinopium benghalense</i>
121	Jerdon's Nightjar	<i>Caprimulgus atripennis</i>
122	Black-headed Cuckooshrike	<i>Lalage melanoptera</i>
123	Plum-headed Parakeet	<i>Psittacula cyanocephala</i>
124	Indian Scops-Owl	<i>Otus bakkamoena</i>
125	Brown Shrike	<i>Lanius cristatus</i>
126	Little Egret	<i>Egretta garzetta</i>
127	Little Cormorant	<i>Microcarbo niger</i>
128	Yellow-billed Babbler	<i>Argya affinis</i>
129	Common Cuckoo	<i>Cuculus canorus</i>
130	Paddyfield Pipit	<i>Anthus rufulus</i>
131	Great Egret	<i>Ardea alba</i>
132	Siberian Stonechat	<i>Saxicola maurus</i>
133	Black-headed Ibis	<i>Threskiornis melanocephalus</i>
134	Coppersmith Barbet	<i>Psilopogon haemacephalus</i>
135	Asian Emerald Dove	<i>Chalcophaps indica</i>
136	Lesser Whistling-Duck	<i>Dendrocygna javanica</i>
137	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>
138	Orange Minivet	<i>Pericrocotus flammeus</i>
139	White-breasted Waterhen	<i>Ardea herodias</i>
140	Crested Goshawk	<i>Accipiter trivirgatus</i>



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141	Rufous Babbler	<i>Argya subrufa</i>
142	Indian Robin	<i>Copsychus fulicatus</i>
143	Blue-faced Malkoha	<i>Phaenicophaeus viridirostris</i>
144	Malabar Starling	<i>Sturnia blythii</i>
145	Banded Bay Cuckoo	<i>Cacomantis sonneratii</i>
146	Greenish Warbler	<i>Phylloscopus trochiloides</i>
147	Malabar Lark	<i>Galerida malabarica</i>
148	Jungle Myna	<i>Acridotheres fuscus</i>
149	Intermediate Egret	<i>Ardea intermedia</i>
150	Pied Bushchat	<i>Saxicola caprata</i>
151	Indian Cormorant	<i>phalacrocorax fuscicollis</i>
152	Small Minivet	<i>Pericrocotus cinnamomeus</i>
153	Nilgiri Flowerpecker	<i>Dicaeum concolor</i>
154	Tickell's Blue Flycatcher	<i>Cyornis tickellia</i>
155	Bronzed Drongo	<i>Dicrurus aeneus</i>
156	House Sparrow	<i>Passer domesticus</i>
157	Jungle Babbler	<i>Argya striata</i>
158	Brown-breasted Flycatcher	<i>Muscicapa muttui</i>
159	Common Kingfisher	<i>Alcedo atthis</i>
160	Black-naped Oriole	<i>Oriolus chinensis</i>
161	Tawny Pipit	<i>Anthus campestris</i>
162	Booted Eagle	<i>Hieraaetus pennatus</i>
163	Rufous Woodpecker	<i>Micropternus brachyurus</i>
164	Indian Pitta	<i>Pitta brachyura</i>
165	Chestnut-winged Cuckoo	<i>Clamator coromandus</i>
166	Lesser Yellownape	<i>Picus chlorolophus</i>
167	White-bellied Sea-Eagle	<i>Haliaeetus leucogaster</i>
168	Jerdon's Bushlark	<i>Mirafra affinis</i>
169	Common myna	<i>Acridotherus tristis</i>

Mammals

Sl. no.	Common name	Scientific name
170	Dog	<i>Canis familiaris</i>
171	Indian grey mongoose	<i>Herpestes edwardsii</i>
172	Jungle cat	<i>Felis chaus</i>



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173	Indian crested porcupine	<i>Hystrix indica</i>
174	Indian bandicoot rat	<i>Bandicota indica</i>
175	Greater short nosed fruit bat	<i>Cynopterus sphinx</i>
176	Indian flying fox	<i>Pteropus giganteus</i>

LIST OF FLORA			
Sl No	Name	Family	Habit
1	Lepidagathis keralensis	Acanthaceae	Herb
2	Strobilanthes integrifolius	Acanthaceae	Herb
3	Asystasia chalenoides	Acanthaceae	Herb
4	Ecbolium viride	Acanthaceae	Shrub
5	Andrographis paniculata	Acanthaceae	Herb
6	Crossandra infundibuliformis	Acanthaceae	Shrub
7	Jatropha ekakusuma	Acanthaceae	Herb
8	Phaulopsis imbricata	Acanthaceae	Herb
9	Pseudentherum malabaricum	Acanthaceae	Herb
10	Rungia repens	Acanthaceae	Herb
11	Thumbergia erecta	Acanthaceae	Shrub
12	Hydnocarpua pentandra	Achariaceae	Tree
13	Adiantum lunulatum	Adiantaceae	Herb
14	Agave americana	Agavaceae	Shrub
15	Alternanthera sessilis	Amaranthaceae	Herb
16	Alternanthera ficoidea	Amaranthaceae	Herb
17	Alternanthera brazilaiana	Amaranthaceae	Herb
18	Celosia argentea	Amaranthaceae	Herb
19	Aerva lanata	Amaranthaceae	Herb
20	Achyranthes aspera	Amaranthaceae	Herb
21	Amaranthus spinosus	Amaranthaceae	Herb
22	Amaranthus tricolor	Amaranthaceae	Herb
23	Amaranthus viridis	Amaranthaceae	Herb
24	Cyathula prostrata	Amaranthaceae	Herb
25	Cureliligo orchioides	Amaryllidaceae	Herb
26	Mangifera indica	Anacardiaceae	Tree



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27	Spondias pinnata	Anacardiaceae	Tree
28	Holigarna arnottiana	Anacardiaceae	Tree
29	Anacardium occidentale	Anacardiaceae	Tree
30	Lannea coromandelica	Anacardiaceae	Tree
31	Annona nuricata	Annonaceae	Tree
32	Polyalthia longifolia	Annonaceae	Tree
33	Annona reticulata	Annonaceae	Tree
34	Uvaria narum	Annonaceae	climber
35	Annona squamosa	Annonaceae	Tree
36	Cyathocalyx zeylanica	Annonaceae	Tree
37	Centella asiatica	Apiaceae	Herb
38	Alstonia scholaris	Apocynaceae	Tree
39	Catharanthus roseus	Apocynaceae	Shrub
40	Tabernamontana alternifolia	Apocynaceae	Tree
41	Allamanda cathartica	Apocynaceae	climber
42	Plumaria alba	Apocynaceae	Tree
43	Nerium oleander	Apocynaceae	Shrub
44	Rauwolfia serpentina	Apocynaceae	Shrub
45	Rauwolfia tetraphylla	Apocynaceae	Shrub
46	Ichnocarpus frutescens	Apocynaceae	climber
47	Plumeria rubra	Apocynaceae	Tree
48	Thevetia nerifolia	Apocynaceae	Shrub
49	Rhaphidophora retusa	Araceae	climber
50	Pothos scandens	Araceae	climber
51	Amorphophallus peonifolius	Araceae	Herb
52	Epipremnum pinnatum	Araceae	climber
53	Caladium bicolor	Araceae	Herb
54	Alocasia macrorrhiza	Araceae	Herb
55	Ariopsis peltata	Araceae	Herb
56	Pistia stratiotes	Araceae	Herb
57	Carvora urens	Arecaceae	Tree
58	Cocos nucifera	Arecaceae	Tree
59	Areca catechu	Arecaceae	Tree
60	Arenga wightii	Arecaceae	Tree

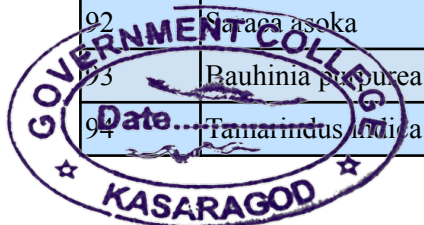


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61	Aristolochia indica	Aristolochiaceae	climber
62	Marsdenia volubilis	Asclpiadaceae	climber
63	Calotropis gigantea	Asclpiadaceae	Shrub
64	Cosmostigma racemosa	Asclpiadaceae	climber
65	Hemidesmus indicus	Asclpiadaceae	climber
66	Holostemma adakodien	Asclpiadaceae	climber
67	Tylophora indica	Asclpiadaceae	climber
68	Chromolaena odorata	Asteraceae	Herb
69	Tridax procumbens	Asteraceae	Herb
70	Tagetes erecta	Asteraceae	Herb
71	Cyanthillium cinerium	Asteraceae	Herb
72	Synodrella nodiflora	Asteraceae	Tree
73	Ageratum conyzoides	Asteraceae	Herb
74	Vernonia climber	Asteraceae	climber
75	Blumea virens	Asteraceae	Herb
76	Cosmos bipinnatus	Asteraceae	Herb
77	Elephantopus scaber	Asteraceae	Herb
78	Emilia sonchifolia	Asteraceae	Herb
79	Spilanthes calva	Asteraceae	Herb
80	Averhoa bilimbi	Averhoavaceae	Tree
81	Impatiens minor	Balsaminaceae	Herb
82	Impatiens balsamina	Balsaminaceae	Herb
83	Spathodia campanulata	Bignoniaceae	Tree
84	Saritaea magnifica	Bignoniaceae	climber
85	Adenocalymma alliaceum	Bignoniaceae	climber
86	Bombax ceiba	Bombacaceae	Tree
87	Annanus nanus	Bromeliaceae	Herb
88	Annanus comosus	Bromeliaceae	Herb
89	Hylocereus undatus	Cactaceae	climber
90	Epiphyllum oxypetalum	Cactaceae	Shrub
91	Delonix regia	Caesalpiniaceae	Tree
92	Saraca asoka	Caesalpiniaceae	Tree
93	Bauhinia purpurea	Caesalpiniaceae	Tree
94	Tamarindus indica	Caesalpiniaceae	Tree



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95	Bauhinia vahlii	Caesalpiniaceae	climber
96	Caesalpinia pulcherima	Caesalpiniaceae	Shrub
97	Senna tora	Caesalpiniaceae	Herb
98	Peltoforum ferugeneum	Caesalpiniaceae	Tree
99	Cassia fistula	Caesalpiniaceae	Tree
100	Bauhinia variegata	Caesalpiniaceae	Tree
101	Senna siamea	Caesalpiniaceae	Tree
102	Cassia alata	Caesalpiniaceae	Shrub
103	Cassia mimosoides	Caesalpiniaceae	Herb
104	Kingiodendron pinnatum	Caesalpiniaceae	Tree
105	Cassia occidentalis	Caesalpiniaceae	Shrub
106	Cretiva crenulata	Capparidaceae	Tree
107	Cleome rutidosperma	Capparidaceae	Herb
108	Carica papaya	Caricaceae	Shrub
109	Polycarpea aurea	Caryophyllaceae	Herb
110	Casuarina littoralis	Casuarinaceae	Tree
111	Calaophyllum apetalum	Clusiaceae	Tree
112	Garcinia indica	Clusiaceae	Tree
113	Calycopteris floribunda	Combretaceae	climber
114	Terminalia cattappa	Combretaceae	Tree
115	Swetenia mahagoni	Combretaceae	Tree
116	Terminalia chebula	Combretaceae	Tree
117	Terminalia bellirica	Combretaceae	Tree
118	Terminalia paniculata	Combretaceae	Tree
119	Terminalia crenulata	Combretaceae	Tree
120	Combretum latifolium	Combretaceae	climber
121	Quisqualis indica	Combretaceae	climber
122	Commelina bengalensis	Commelinaceae	Herb
123	Murdania semeteres	Commelinaceae	Herb
124	Cyanotis cristata	Commelinaceae	Herb
125	Spigelia antihelminthia	Commelinaceae	Herb
126	Ipomoea pes-caprae	Convolvulaceae	climber
127	Ipomoea cairica	Convolvulaceae	climber
128	Ipomoea marginata	Convolvulaceae	climber



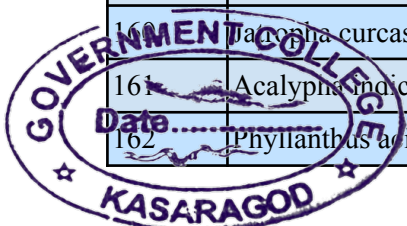
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129	Merremia umbellata	Convolvulaceae	climber
130	Evolvulus nummularius	Convolvulaceae	Herb
131	Ipomoea hederifolia	Convolvulaceae	climber
132	Evolvulus alsinoides	Convolvulaceae	Herb
133	Ipomoea obscura	Convolvulaceae	climber
134	Ipomoea triloba	Convolvulaceae	climber
135	Merremia vitifolia	Convolvulaceae	climber
136	Mukia maderaspatana	Cucurbitaceae	climber
137	Diplocyclos palmatus	Cucurbitaceae	climber
138	Cycas circinalis	Cycadaceae	Tree
139	Cyperus rotundus	Cyperaceae	Herb
140	Carex plantagenia	Cyperaceae	Herb
141	Dioscorea bulbifera	Diacoriaceae	climber
142	Dillenia indica	Dilleniaceae	Tree
143	Vateria indica	Dipterocarpaceae	Tree
144	Hopea parviflora	Dipterocarpaceae	Tree
145	Dryopteris	Dryopteridaceae	Herb
146	Diospiros palmatus	Ebenaceae	tree
147	Macaranga peltata	Euphorbiaceae	Tree
148	Phyllanthus emblica	Euphorbiaceae	Tree
149	Bridelia retusa	Euphorbiaceae	Tree
150	Breynia retusa	Euphorbiaceae	Shrub
151	Euphorbia hirta	Euphorbiaceae	Herb
152	Phyllanthus amara	Euphorbiaceae	Herb
153	Phyllanthus urinaria	Euphorbiaceae	Herb
154	Putranjive rouxburgii	Euphorbiaceae	Tree
155	Manihot esculenta	Euphorbiaceae	Shrub
156	Fluggea virosa	Euphorbiaceae	Shrub
157	Croton hirtus	Euphorbiaceae	Herb
158	Croton vareiatu	Euphorbiaceae	Shrub
159	Chamaecrista indica	Euphorbiaceae	Herb
160	Marattia curcas	Euphorbiaceae	Shrub
161	Acalypha indica	Euphorbiaceae	Herb
162	Phyllanthus acidus	Euphorbiaceae	Tree



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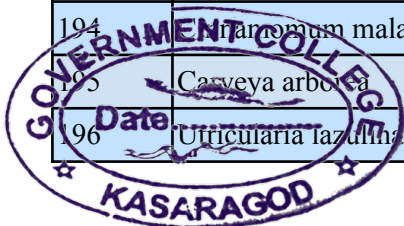




163	Euphorbia heterophylla	Euphorbiaceae	Herb
164	Antidesma menasu	Euphorbiaceae	Tree
165	Aporosa lindleyana	Euphorbiaceae	Tree
166	Baliospermum montanum	Euphorbiaceae	Tree
167	Bridelia scandens	Euphorbiaceae	climber
168	Codeum verigatum	Euphorbiaceae	Shrub
169	Euphorbia millii	Euphorbiaceae	Shrub
170	Euphorbia thirukalli	Euphorbiaceae	Shrub
171	Jatropha gossypifolia	Euphorbiaceae	Shrub
172	Pedilanthus tithy-meloides	Euphorbiaceae	Shrub
173	Phyllanthus myrtaceae	Euphorbiaceae	Herb
174	Phyllanthus simplex	Euphorbiaceae	herb
175	Ricinus communis	Euphorbiaceae	Shrub
176	Sapium insigne	Euphorbiaceae	Tree
177	Sauropus androgynus	Euphorbiaceae	Shrub
178	Canscora diffusa	Gentianaceae	Herb
179	Gnetum ula	Gnetaceae	climber
180	Hippocratea arnottiana	Hippocrateaceae	Shrub
181	Reissantia indica	Hippocrateaceae	climber
182	Salacia fruticosa	Hippocrateaceae	Shrub
183	Leucas lavendulifolia	Lamiaceae	Herb
184	Coleus varegatus	Lamiaceae	Herb
185	Hyptis suaveolens	Lamiaceae	Herb
186	Anisomeles indica	Lamiaceae	Herb
187	Leucas biflora	Lamiaceae	Herb
188	Ocimum tenuiflorum	Lamiaceae	Shrub
189	Plecranthus ambonicus	Lamiaceae	Herb
190	Pogostemon pachouli	Lamiaceae	Herb
191	Cinnamomum zeylanicum	Lauraceae	Tree
192	Actinodaphne malabaricum	Lauraceae	Tree
193	Alseodaphnae semicarpifolia	Lauraceae	Tree
194	Artocarpus malabratrum	Lauraceae	Tree
195	Carveya arborea	Lecythidaceae	Tree
196	Utricularia lazulinifolia	Utriculariaceae	Herb

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197	Asparagus racemosus	Liliaceae	climber
198	Dracaena draco	Liliaceae	Shrub
199	Aloe vera	Liliaceae	Herb
200	Chlorophytum breviscopum	Liliaceae	Herb
201	Sansweria roxburhiana	Liliaceae	Herb
202	Strychnos nux-vomica	Loganiaceae	Tree
203	Dendrothe falcata	Loranthaceae	Shrub
204	Lygodium flexuosum	Lygodiaceae	climber
205	Lawsonia inermis	Lythraceae	Tree
206	Rotala malambuzhensis	Lythraceae	Herb
207	Rotala malabarica	Lythraceae	Herb
208	Michelia champaka	Magnoliaceae	Tree
209	Hibiscus schizopetalus	Malvaceae	Shrub
210	Hibiscus rosa-sinensis	Malvaceae	Shrub
211	Urena lobata	Malvaceae	Herb
212	Hibiscus furcatus	Malvaceae	climber
213	Sida acuta	Malvaceae	Shrub
214	Sida rhombifolia	Malvaceae	Shrub
215	Sida mysorensis	Malvaceae	Herb
216	abelmoschus esculentus	malvaceae	Herb
217	Urena sinuata	malvaceae	Herb
218	memicylon umbellatum	Melastomataceae	Shrub
219	Memezylon malabaricum	Melastomataceae	Shrub
220	Azadiracta indica	Meliaceae	Tree
221	Naregamia alata	Meliaceae	Herb
222	Cyclea peltata	Menispermaceae	climber
223	Anamirta cocculus	Menispermaceae	climber
224	Tinospora cordifolia	Menispermaceae	climber
225	Cissampelos pereira	Menispermaceae	climber
226	Tinospora malabarica	Menispermaceae	climber
227	Mimosa pudica	Mimosoideae	Herb
228	Racosperma auriculiformis	Mimosoideae	Tree
229	Adenanthura pavonina	Mimosoideae	Tree
230	Leucinia licocephala	Mimosoideae	Tree

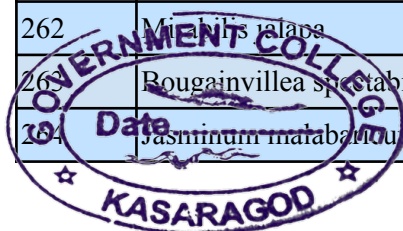


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231	Mimosa diplotricha	Mimosoideae	Herb
232	Albizzia chinensis	Mimosoideae	Tree
233	Albizia saman	Mimosoideae	Tree
234	Xylia xylocarpa	Mimosoideae	Tree
235	Acacia caesia	Mimosoideae	climber
236	Acacia catechu	Mimosoideae	Tree
237	Acacia mangium	Mimosoideae	Tree
238	Albizzia odoratissima	Mimosoideae	Tree
239	Micrococca mercurialis	Mimosoideae	Herb
240	Samanea saman	Mimosoideae	Tree
241	Mollugo pentaphylla	Molluginaceae	Herb
242	Ficus racemosa	Moraceae	Tree
243	Ficus edible	Moraceae	Tree
244	Ficus auriculata	Moraceae	Tree
245	Artocarpus intergrifolia	Moraceae	Tree
246	Ficus religiosa	Moraceae	Tree
247	Ficus callosa	Moraceae	Tree
248	Artocarpus hirsutus	Moraceae	Tree
249	Ficus exasperata	Moraceae	Tree
250	Ficus religiosa	Moraceae	Tree
251	Artocarpus communis	Moraceae	Tree
252	Ficus arnottinana	Moraceae	Tree
253	Moringa oleifera	Moringaceae	Tree
254	Musa paradisiaca	Musaceae	Herb
255	Musa superba	Musaceae	Herb
256	Psidium guajava	Myrtaceae	Tree
257	Syzygium caryophyllatum	Myrtaceae	Tree
258	Syzygium occidentale	Myrtaceae	Tree
259	Syzygium cumini	Myrtaceae	Tree
260	Syzygium aquem	Myrtaceae	Tree
261	Boerhaavia	Nyctaginaceae	Herb
262	Mimosa pudica	Nyctaginaceae	Herb
263	Rougainvillea spectabilis	Nyctanthaceae	Shrub
264	Jasminum mataballoum	Oleaceae	Shrub



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265	Olea dioica	Oleaceae	Tree
266	Jasminum grandiflorum	Oleaceae	climber
267	Jasminum coarctatum	Oleaceae	climber
268	Linocera malabarica	Oleaceae	Tree
269	Ludwigia sedioides	Onagraceae	Herb
270	Ludwigia	Onagraceae	Herb
271	Cansjera rheedii	Opeliaceae	climber
272	Vanilla planifolia	Orchidaceae	climber
273	Biophytum reinwardtii	Oxalidaceae	Herb
274	Averrhoa carambola	Oxalidaceae	Tree
275	Glyricidia sepium	Papilionaceae	Tree
276	Cajanus scarabioides	Papilionaceae	climber
277	Desmodium triflorum	Papilionaceae	Herb
278	Centrosema molle	Papilionaceae	climber
279	Crotalaria pallida	Papilionaceae	Herb
280	Pongamia pinnata	Papilionaceae	Tree
281	Derris scandens	Papilionaceae	climber
282	Desmodium scorpiurus	Papilionaceae	climber
283	Mucuna pruriens	Papilionaceae	climber
284	abrus precatorius	Papilionaceae	climber
285	Alysicarpus buplerifolius	Papilionaceae	Herb
286	Clitorea ternetea	Papilionaceae	climber
287	crotalaria heyneana	Papilionaceae	Herb
288	Crotalaria micans	Papilionaceae	Herb
289	Dalbergia horrida	Papilionaceae	climber
290	Derris heyneana	Papilionaceae	climber
291	Desmodium gangeticum	Papilionaceae	Shrub
292	Desmodium triquetrum	Papilionaceae	Shrub
293	Erythrina indica	Papilionaceae	Tree
294	Pterocarpus santalinus	Papilionaceae	Tree
295	Ventilago madraspatana	Papilionaceae	climber
296	Zornia diphylla	Papilionaceae	Herb
297	Passiflora foetida	Passifloraceae	climber
298	Cassia indica	Papilionaceae	Herb



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299	Pepromia pellucida	Piperaceae	Herb
300	Piper nigrum	Piperaceae	climber
301	Piper longum	Piperaceae	climber
302	Bamboosa bambos	Poaceae	Shrub
303	Pennisetum polystachyon	Poaceae	Herb
304	Dactyloctenium aegyptium	Poaceae	Herb
305	Eleusine indica	Poaceae	Herb
306	Heteropogon contortus	Poaceae	Herb
307	Ischaemum indicum	Poaceae	Herb
308	Digitaria bicornis	Poaceae	Herb
309	Oplismenus burmannii	poaceae	Herb
310	Cyanodon dactylon	Poaceae	Herb
311	Chloris indica	poaceae	Herb
312	Bambusa tuluides	Poaceae	Shrub
313	Apluda mutica	Poaceae	Herb
314	Apocynum mangalorensis	Poaceae	Herb
315	Arundinella purpurea	Poaceae	Herb
316	Axonopus compressus	Poaceae	Herb
317	Cymbopogon citratus	Poaceae	Herb
318	cyanodon dactylon	Poaceae	Herb
319	Cyperus kyllinga	Poaceae	Herb
320	Eragrostis unialoides	Poaceae	Herb
321	Isachne globosa	Poaceae	Herb
322	Perotis indica	Poaceae	Herb
323	Vetiveria zizanioides	Poaceae	Herb
324	Polygala chinensis	Polygalaceae	Herb
325	Pteris vitata	Pteridaceae	Herb
326	Zizyphus oenoplea	Rhamnaceae	Tree
327	Zizyphus rugosa	Rhamnaceae	Tree
328	Zizyphus mauritiana	Rhamnaceae	tree
329	Carallia brachiata	Rhizophoraceae	Tree
330	Canthium coromandalicum	Rubiaceae	Tree
331	Canthium indicum	Rubiaceae	Herb
332	Spermatocoe hispida	Rubiaceae	Herb

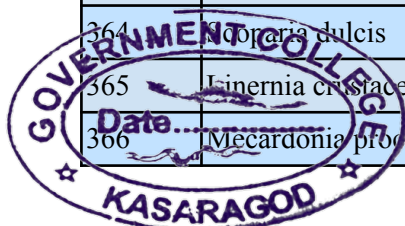


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333	Morinda citrinus	Rubiaceae	Tree
334	Spermacoce malabarica	Rubiaceae	Herb
335	Ixora coccinea	Rubiaceae	Shrub
336	Borreria acymifolia	Rubiaceae	Herb
337	Spermacoce ocymifolia	Rubiaceae	Herb
338	Catunaragam spinosum	Rubiaceae	Tree
339	Chasalia curviflora	Rubiaceae	Shrub
340	Hedyotis auriculata	Rubiaceae	Herb
341	Ixora brachiata	Rubiaceae	Shrub
342	Ixora polyantha	Rubiaceae	Shrub
343	Mitracarpus verticillatus	Rubiaceae	Herb
344	Mussanda frodosa	Rubiaceae	Herb
345	oldenlandia corymbosa	Rubiaceae	Herb
346	Ophiorhiza mungos	Rubiaceae	Herb
347	Pavetta indica	Rubiaceae	Herb
348	Pentas lanceolata	Rubiaceae	Shrub
349	Spermacoce pusilla	Rubiaceae	Herb
350	Murraya koenigii	Rutaceae	Tree
351	Citrus lemon	Rutaceae	Shrub
352	Zanthoxylum rhetsa	Rutaceae	Tree
353	Aegle marmelos	Rutaceae	Tree
354	Naringi crenulata	Rutaceae	Tree
355	Santalum album	Santalaceae	Tree
356	Sclechera oligosa	Sapindaceae	Tree
357	Cardiospermum halicacabum	Sapindaceae	climber
358	Manilkara zapota	Sapotaceae	Tree
359	Chrysophyllum cainito	Sapotaceae	Tree
360	Madhuca indica	Sapotaceae	Tree
361	Madhuca bourdillonii	Sapotaceae	Tree
362	mimusops elengi	Sapotaceae	Tree
363	Torenia ciliata	Scrophulariaceae	Herb
364	Ipomoea dulcis	Scrophulariaceae	Herb
365	Ipomoea cristata	Scrophulariaceae	Herb
366	Mecardonia procumbens	Scrophulariaceae	Herb

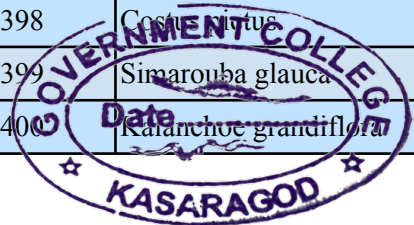


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367	Simarouba glauca	Simaroubaceae	Tree
368	Ailanthus triphysa	Simaroubaceae	Tree
369	Smilax zeylanica	Smilacaceae	climber
370	Solanum torvum	Solanaceae	Herb
371	Solanum melongena	Solanaceae	Herb
372	Solanum nigrum	Solanaceae	Herb
373	Brugmantia versicolor	Solanaceae	Shrub
374	Datura stramonium	Solanaceae	Shrub
375	Phyasils minima	Solanaceae	Herb
376	Helicteres isora	Sterculiaceae	Shrub
377	Pterospermum acerifolium	Sterculiaceae	Tree
378	Triumpheta rhomoidea	Teliaceae	Herb
379	Trema orientalis	Ulmaceae	Tree
380	Pauzolzia indica	Urticaceae	Herb
381	Laportea interrupta	Urticaceae	Herb
382	Pilea microphylla	Urticaceae	Herb
383	Tectona grandis	Verbenaceae	Tree
384	Gmelina arborea	Verbenaceae	Tree
385	Lantana camara	Verbenaceae	Shrub
386	Stachytarpheta jamaicensis	Verbenaceae	Shrub
387	Premna latifolia	Verbenaceae	Shrub
388	Clerodendrum infortunatum	Verbenaceae	Shrub
389	Clerodendrum indicum	Verbenaceae	Shrub
390	Clerodendrum paniculatum	Verbenaceae	Shrub
391	Duranta plumeri	Verbenaceae	Shrub
392	Stachytarpheta indica	Verbenaceae	Shrub
393	Vitex negundo	Verbenaceae	Shrub
394	Vitex altissima	Verbenaceae	tree
395	Lea indica	Vitaceae	Shrub
396	Zingiber neesatum	Zingiberaceae	Herb
397	Alpinia calcarata	Zingiberaceae	Herb
398	Coscinotubus	Zingiberaceae	Herb
399	Simarouba glauca	Simaroubaceae	Tree
400	Kalanchoe grandiflora	Crassulaceae	Herb



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401	Kalanchoe blosfeldiana	Crassulaceae	Herb
402	Teramnus mollis	Papilionaceae	Herb
403	Sterculia guttata	Sterculiaceae	Tree

7. GREEN INITIATIVES OF GOVERNMENT COLLEGE KASARAGOD

Government College Kasaragod is progressing towards carbon neutral campus through different green activities.

BAMBUSETUM (Pachathuruth No. 534)

College is maintaining a rare germplasm collection of Bamboo species and allied species in the campus. Bambusetum comprises around 150 plants belonging to 51 species.

Bambusetum is one of the green activities to fight against CO₂ emission in the campus. It provides a cool atmosphere in the campus and also acts as an excellent habitat for several butterflies. The plantation activities in the Bambusetum were started in 2019 and plantation of new species continues every year.

LIST OF SPECIES IN THE BAMBUSETUM

	Name of Species
1	Assam gold [Shizostacheum brachycladum]
2	B.pallida
3	B.vulgaris - green
4	B.vulgaris -yellow
5	Bambusa varigata (White leaf)
6	Bambusa andamanica
7	Bambusa balcooa
8	Bambusa bambose
9	Bambusa caccharancis
10	Bambusa glaucescens - Bush Bamboo
11	Bambusa latiflorus
12	Bambusa mizoramiana
13	Bambusa multiplex (Pencil Bamboo) (green)
14	Bambusa multiplex (yellow)



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15	Bambusa nutans
16	Bambusa polymorpha
17	Bambusa tulda
18	Bambusa vulgaris wamin (Budhas belly) green
19	Black bamboo[Gigantochloa atrovioletata]
20	Burmese bamboo
21	Copper bamboo
22	Creeper bamboo[Dinorchloa andamanica]
23	Dendrocalamus longispathus
24	Dendrocalamus asper
25	Dendrocalamus brandisii
26	Dendrocalamus giganteus [giant bamboo]
27	Dendrocalamus hamiltoni
28	Dendrocalamus membranaceus
29	Dendrocalamus sikkimensis
30	Dendrocalamus strictus (Mysore)
31	Dendrocalamus strictus (Nilambur, straight)
32	Garden Bamboo
33	Gigantochloa albociliata]
34	Gigantochloa nigrociliata
35	Guadua angustifolia
36	Melocanna baccifera
37	Ochlandra scriptoria
38	Ochlandra travancorica (Eetta)
39	Oxytenanthera parvifolia
40	Phyllostachis aurius (Chinese bamboo)
41	Psuedoxytenanthera ritcheyi
42	Psuedoxytenanthera stocksii
43	Schizostachyum beddomie
44	Schizostachyum dullooa
45	Syntherisma kumasaca
46	Phyllostachis oliveri (Lam bamboo)

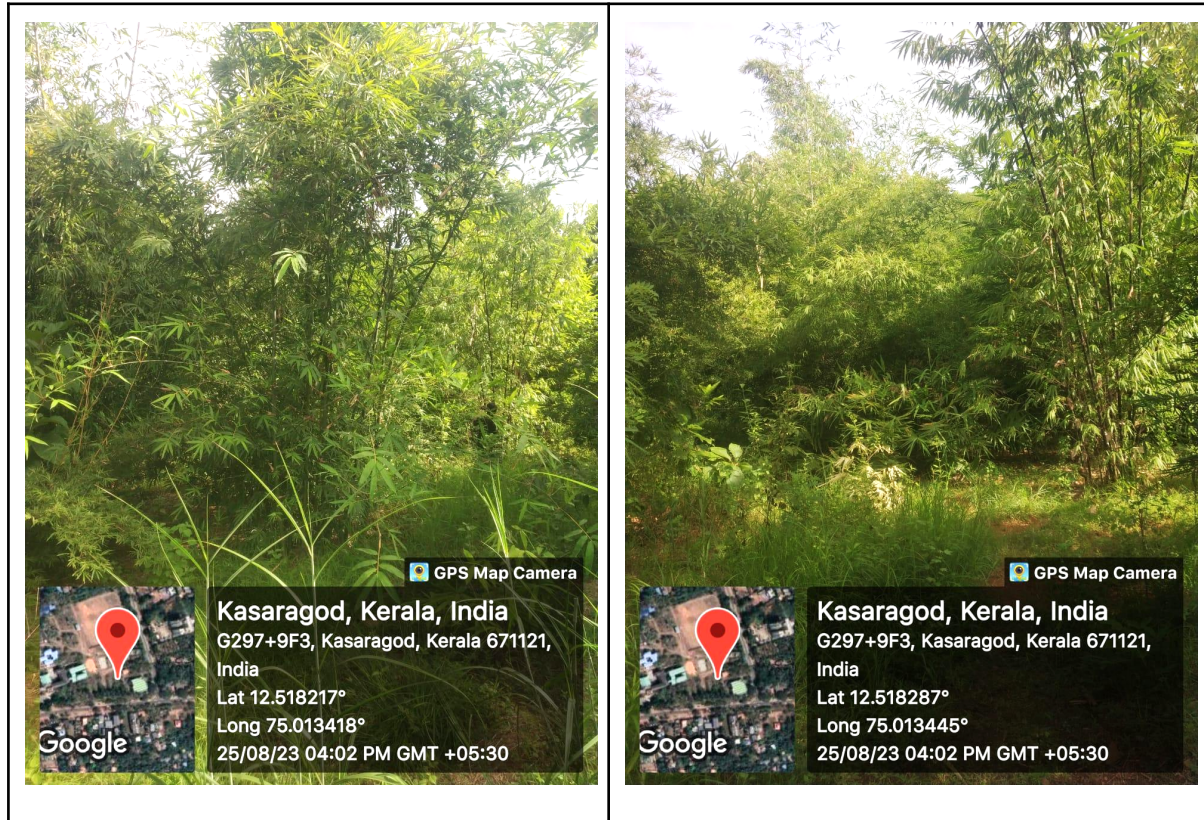


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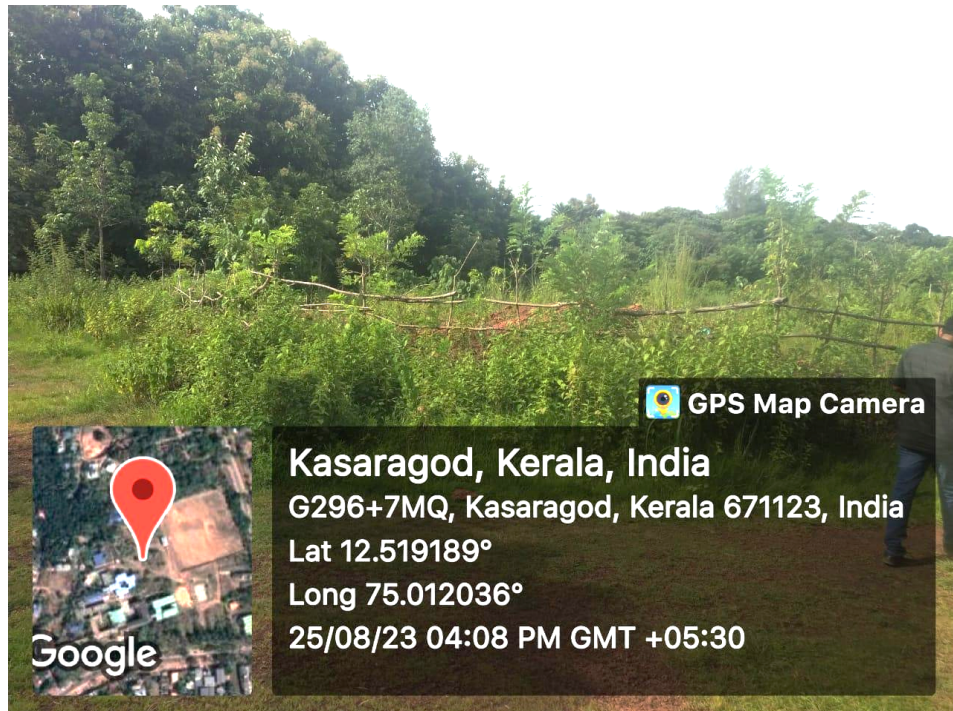
47	Thyrsostachis siamensis[monastery bamboo]
48	Thysanolaena maxima -Tiger grass
49	White leaf –big[white dragon] Fargesia dracocephala
50	Dendrocalamus stocksii
51	Ochlandra beddomei



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ENDEMIC GARDEN (PACHATHURUTH NO.533)

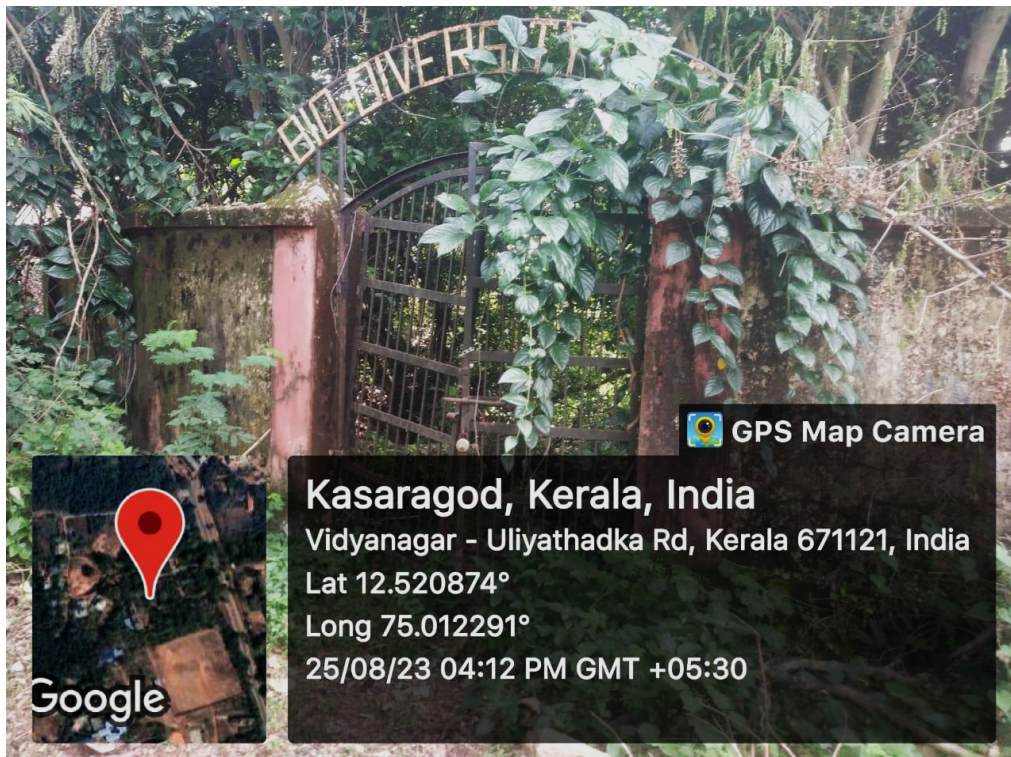
The endemic garden started in 2022 for conservation of rare endemic trees of Western Ghats. Presently seedlings of 80 rare endemic tree species collected by MSSRF Wayanad are growing in this garden. In 2023, 50 seedlings of Saraca asoka (Ashokam) were planted in this garden to increase the green cover of the campus. A part of the garden is now used for the plantation of Larval Host plants of butterflies.




Name and Signature of the Principal
Dr. Ananthapadmanabha A.L.

BIODIVERSITY PARK (Pachathuruth 535)

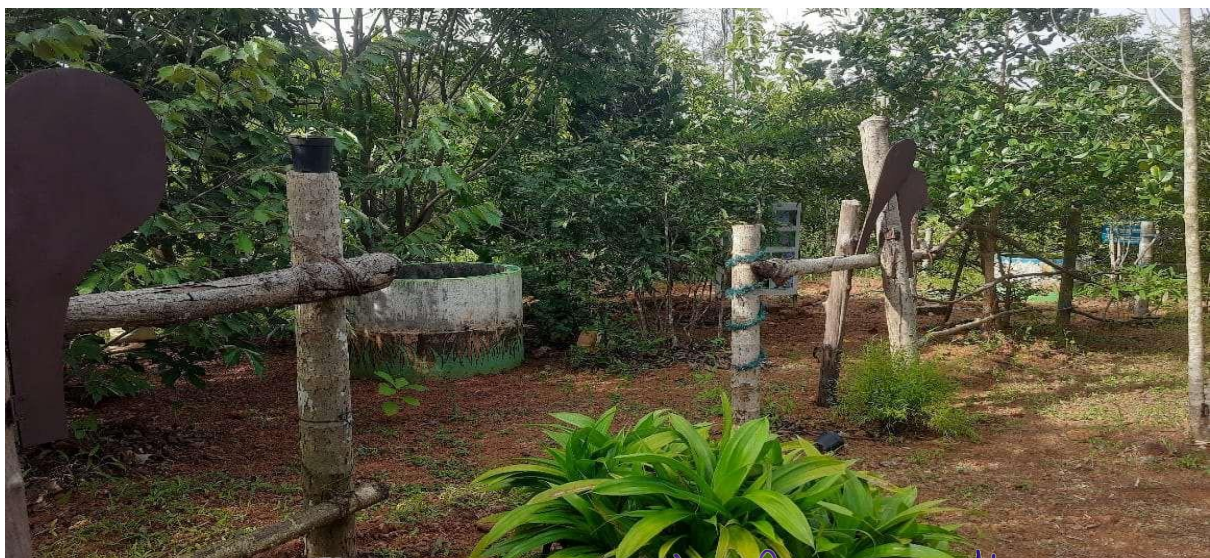
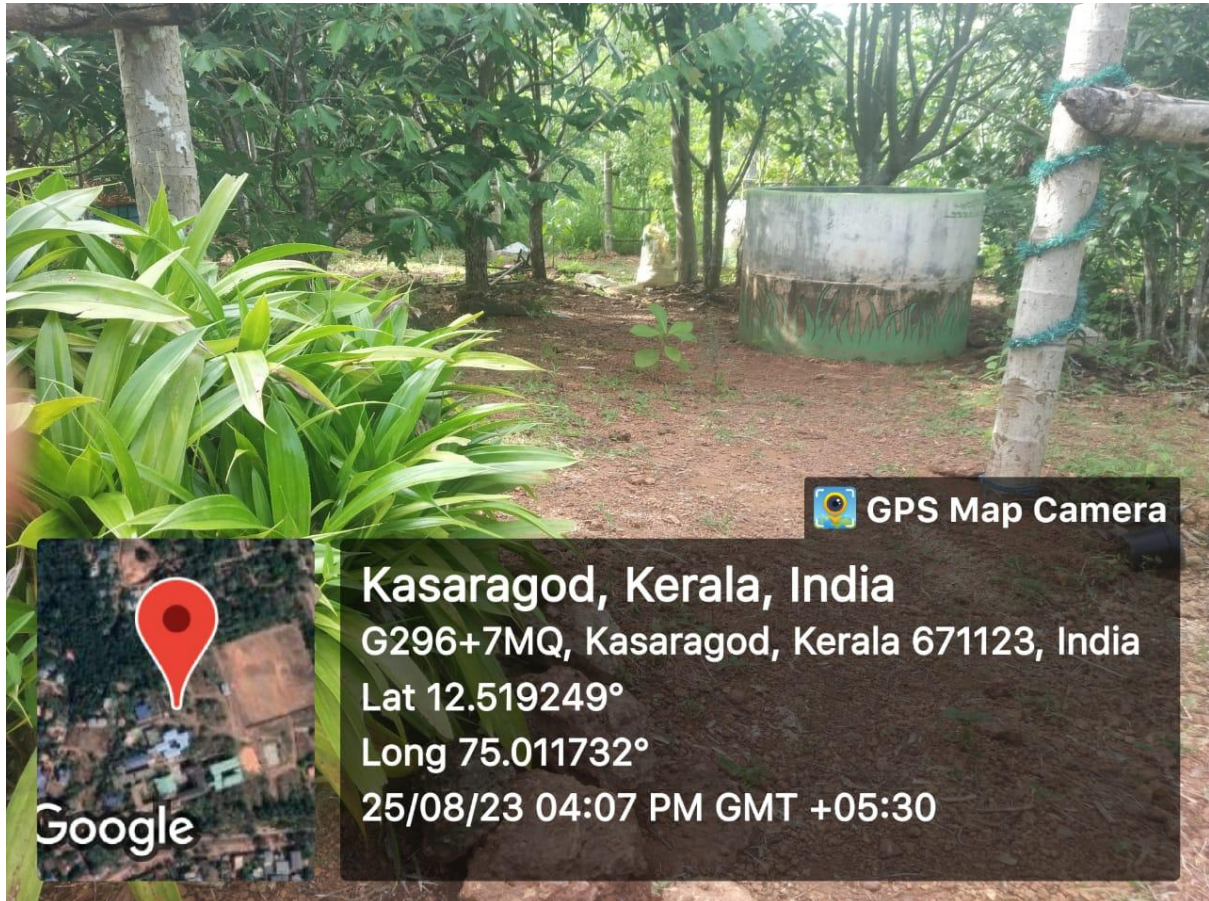
It is the key attraction of biodiversity conservation on the campus. It was started in 2009 and supports around 350 flowering plants. Many endemic plant species were introduced into the biodiversity park every year and presently it provides habitat for wild animal species. A narrow footpath is constructed in the park, which allows students to study the biodiversity with minimum disturbance to the flora and fauna. The name boards are exhibited at the park to ensure easy identification of plant species and animal species.



Name and Signature of the Principal
Dr. Ananthapadmanabha A.L.

R.E.T GARDEN

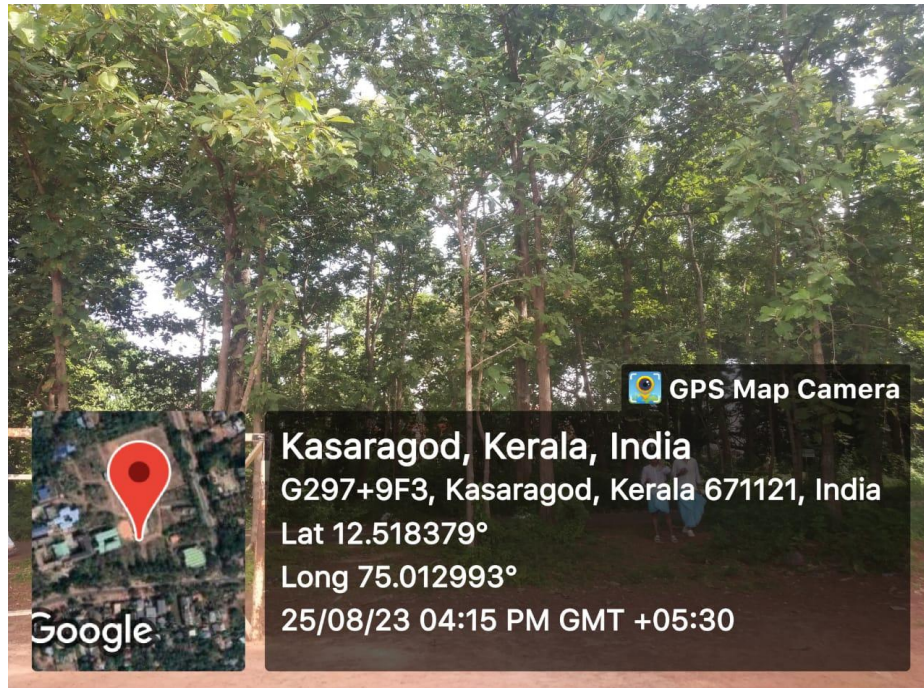
The N.S.S unit is maintaining the R.E.T garden for the conservation of flowering plants belonging to rare, endangered and threatened categories of IUCN. More than 100 species of flowering plants are protected in the garden with help of N.S.S volunteers.



Name and Signature of the Principal
Dr. Ananthapadmanabha A.L.

TEAK PLANTATION

Government college Kasaragod is maintaining a teak plantation with around 300 teak trees. Then teak plantation acts as a huge sink of CO₂ emitted by the daily activities of College.



Name and Signature of the Principal
Dr. Ananthapadmanabha A.L.

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8. FINDINGS:

- College is maintaining well developed biodiversity park, bambusetum, Endemic Garden and RET garden.
- Students are encouraged to depend on the public mode of transportation by availing of the bus fare concession issued by the Government of Kerala.
- Planting more trees within the campus.
- Implementation and maintenance of plants with the support of students.
- The campus is also home to a diverse collection of plants and animals, necessitating conservation efforts.

9. SUGGESTIONS AND RECOMMENDATIONS

- Make the campus carbon negative by planting more trees
- Encourage and practice vehicle pooling among stakeholders to attain a minimum number of vehicles inside the campus.
- Uplift the usage of electric vehicles instead of conventional fossil fuel vehicles.
- Promote the usage of bicycles for short-distance travel.




Name and Signature of the Principal
Dr. Ananthapadmanabha A.L.

**PRINCIPAL
GOVERNMENT COLLEGE
KASARAGOD**

BABY BALAKRISHNAN

PRESIDENT

DISTRICT PANCHAYATH

KASARAGOD

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9400069364

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Ref:-

Date:.....

26.09.2023

Certificate of Appreciation

This is to certify that the Government College Kasaragod had conducted a Green Audit & Environment audit to assess the efficacy of green initiatives by the college to maintain the college eco-friendly. The measures and action taken by the college towards the development of a sustainable green environment are highly appreciable and commendable.



Baby Balakrishnan

President,

District Panchayath Kasaragod



Name and Signature of the Principal
Dr. Ananthapadmanabha A.I.

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