

**S. K. V. T. GOVERNMENT DEGREE COLLEGE**  
**RAJMAHENDRAVARAM**  
(Affiliated to Adikavi Nannaya University)  
**East Godavari District**

Dt: 05.06.2023

**Policy Document of Environment**

The Staff Council Members were met on 05.06.2023 at 10.30 a.m. in the Principal's chamber under the chairmanship of Dr. P. Abel Raja Babu, Principal, S.K.V.T. GDC, Rajamahendravaram, and made the following resolutions in view of protecting nature and celebrating World Environment Day.

**Resolutions:**

- 1) It is resolved to maintain clean and green of our campus with the help of NSS Programme officers, volunteers and students in their leisure time.
- 2) It is resolved to reduce plastic material, especially covers and bottles, in the campus.
- 3) It is resolved to construct the rainwater pit for the augmentation of ground water level.
- 4) It is resolved to guide each student of the college to adopt or plant at least a sapling in the college campus or at their home.
- 5) It is resolved to campaign the importance of environment and World Environment Day.
- 6) It is resolved to promote the soil made Ganapathi idols in the Hindu festival.
- 7) It is resolved to conduct awareness programmes on Environment in surrounding villages/areas with the help of NSS.
- 8) It is resolved to conduct Swachha Bharat Programmes as per Government circulars.
- 9) It is resolved to conduct medicinal plants exhibition every year in the college.



*(Handwritten Signature)*  
**Principal**  
S.K.V.T. Government Degree College  
Rajamahendravaram  
East Godavari Dist, A.P. INDIA

S. No	Name of the I/C of the Department	Signature
1	Dr. D. V. Ramana Murthy	<i>(Handwritten Signature)</i>
2	Dr. G. Venkata Ramana	<i>(Handwritten Signature)</i>
3	Ms. G. Kotamma	<i>(Handwritten Signature)</i>
4	Mr. G. Sarath Babu	<i>(Handwritten Signature)</i>
5	Dr. P.V.B. Sanjeev Rao	<i>(Handwritten Signature)</i>
6	Mr. M. S. Phani Kumar	<i>(Handwritten Signature)</i>
7	Mr. Y. V. Ramana	<i>(Handwritten Signature)</i>
8	Mr. K. Satyanarayana	<i>(Handwritten Signature)</i>
9	Ms. M. Sabitha	<i>(Handwritten Signature)</i>
10	Mrs. K. Sarojini	<i>(Handwritten Signature)</i>
11	Mrs. Sarada	<i>(Handwritten Signature)</i>
12	Mr. K.V. Visweswara Rao	<i>(Handwritten Signature)</i>
13	Mrs. M.L. Ramya	<i>(Handwritten Signature)</i>
14	Mrs. A. Sarala	<i>(Handwritten Signature)</i>
15	Ms. S. Durga	<i>(Handwritten Signature)</i>
16	Mr. P. A. Kishore Babu	<i>(Handwritten Signature)</i>

**S. K. V. T. GOVERNMENT DEGREE COLLEGE**  
**RAJMAHENDRAVARAM**  
(Affiliated to Adikavi Nannaya University)  
East Godavari District

Dt: 01.07.2023

**Policy Document of Energy Usage**


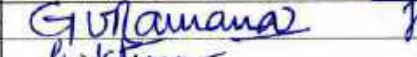

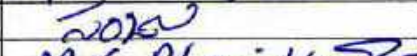
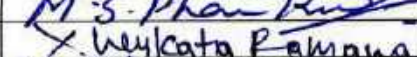
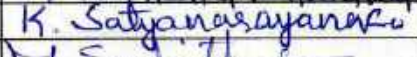



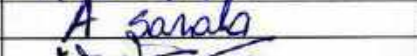






The Staff Council Members were met on 01.07.2023 at 4.30 p.m. in the Principal's chamber under the chairmanship of Dr. P. Abel Raja Babu, Principal, S.K.V.T. Government Degree College, Rajamahendravaram, and made the following resolutions in view of reducing electricity bill.

**Resolutions:**

1. It is resolved to conduct awareness programme on usage of electricity by the departments.
2. It is resolved to give more assignments to the students of the class that not maintained the discipline of electricity usage.
3. It is resolved to establish solar power in future.



  
Principal  
S.K.V.T. Government Degree College  
Rajamahendravaram  
East Godavari Dist, A.P. INDIA

S. No	Name of the I/C of the Department	Signature
1	Dr. D. V. Ramana Murthy	
2	Dr. G. Venkata Ramana	
3	Ms. G. Kotamma	
4	Mr. G. Sarath Babu	
5	Dr. P.V.B. Sanjeev Rao	
6	Mr. M. S. Phani Kumar	
7	Mr. Y. V. Ramana	
8	Mr. K. Satyanarayana	
9	Ms. M. Sabitha	
10	Mrs. K. Sarojini	
11	Mrs. Sarada	
12	Mr. K.V. Visweswara Rao	
13	Mrs. M.L. Ramya	
14	Mrs. A. Sarala	
15	Ms. S. Durga	
16	Mr. P. A. Kishore Babu	

**S. K. V. T. GOVERNMENT DEGREE COLLEGE  
RAJMAHENDRAVARAM  
(Affiliated to Adikavi Nannaya University)  
East Godavari District**

**Dt: 21.08.2023**

**Action Taken Report on  
Environment Policy for the Academic Year 2022-2023**

The S.K.V.T. GDC has been implementing the policy on the environment and finds a tremendous change in cleanliness and environmental discipline in the college:

1. The college conducts Clean and Green in the campus with the help of the students one hour on every third Saturday in a month.
2. The plastic usage is reduced by the student and staff in our college.
3. Two rainwater pits were constructed for the augmentation of ground water levels.
4. Students are encouraged to take part in growing plants in the college premises under the guidance of Department of Botany.
5. Yearly twice environment related programmes are conducted.
6. Awareness programmes on Environment were conducted in the College adopted villages (Konthamuru, Gadala and Palacherla).
7. Swachha Bharat Programmes were conducted as per Government schedule.
8. The soil made Ganapathi idols were distributed to the students by the Dept. of Botany.
9. Medicinal Plants Exhibition was conducted every year in the college by the Department of Botany.



  
**Principal**  
PRINCIPAL  
S.K.V.T. Government Degree College  
Rajamahendravaram  
East Godavari Dist, A.P. INDIA.

**S. K. V. T. GOVERNMENT DEGREE COLLEGE  
RAJMAHENDRAVARAM  
(Affiliated to Adikavi Nannaya University)  
East Godavari District**

**Dt: 21.08.2023**


**Action Taken Report on  
Energy Usage for the Academic Year 2022-2023**

S.K.V.T. GDC has been implementing the policy on the Energy Usage and finds a progressive stride in reducing electric usage units in the college:

**Resolutions:**

1. Regularly every department monitors the classes to switch off the fans and lights in the classrooms after the completion of their class work.
2. Departmental In-charges took necessary actions against the classes which do not follow the code of Energy policy.
3. The college is planning to establish solar power system.



  
**Principal**  
**PRINCIPAL**  
S.K.V.T. Government Degree College  
Rajamahendravaram  
East Godavari Dist, A.P. INDIA



7-1-3  
Green Audit

# **GREEN**

**AUDIT**



**S.K.V.T. GOVT DEGREE COLLEGE**

**RAJAHMAHENDRAVARM**



**ACADEMIC GREEN AUDIT -2023**



**DEPARTMENT OF BOTANY**

**2023-2024**

**ACADAMIC GREEN AUDIT UNDER THE  
GUIDELINES OF**

Botany incharge

Kum.M.SABITHA M.Sc,B.Ed,(Ph.D).

Principal

Dr.P.A. Raja Babu

S.K.V.T.GOVERNMENT DEGREE COLLEGE :: RAJAMAHENDRAVARAM

DEPARTMENT OF BOTANY

MINUTES OF MEETING -2023

Date: 28-06-2023

Programme: B.SC (CBZ)

INCHARGE: M.SABITHA

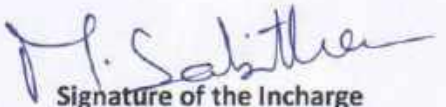
PRINCIPAL:Dr P.A.RAJABABU

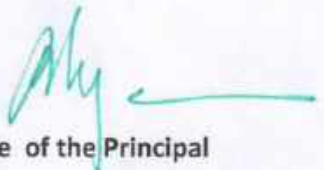
**Agenda of meeting** :1.Conduct of Green Audit in our college campus.

2.Study and collection of total plants with their number of species present in the campus

3.Collection of Trees, Herbs,Shrubs list with complete data.

**Resolution** : The Green Audit is compulsory for the NAAC. So principal and other committee members resolved that the botany department of S.K.V.T.GOVERNMENT DEGREE college collect the data and do the green audit work for the academic year 2023 .

  
Signature of the Incharge  
Lecturer in Charge  
Department of Botany  
SKVT Govt. Degree College  
RAJAHMUNDY-533 101.

  
Signature of the Principal

# **\* CONTENTS \***

- 1. ACKNOWLEDGEMENT**
- 2. DISCLAIMER**
- 3. GREEN AUDIT**
- 4. GREEN AUDIT EXECUTIVE SUMMERY REPORT**
- 5. BRIEF ABOUT COLLEGE**
- 6. ENVIRONMENTAL POLICY**
- 7. CONSTITUTION FOR GREEN AUDIT**
- 8. MEMBERS FOR GREEN AUDIT**
- 9. EXECUTIVE SUMMARY**
- 10. VISION**
- 11. MISSION**
- 12. WATER MANAGEMENT**
- 13. AIR POLLUTION MANAGEMENT**
- 14. NOISE POLLUTION MANAGEMENT**
- 15. ENERGY USE AND CONSERVATION**
- 16. GREEN BELT AREA & BIO – DIVERSITY**
- 17. ENVIRONMENTAL AWARENESS INITIATIVE**
- 18. OVERAL REPORT**
- 19. LIST OF TREES & PLANTS SPOTTED IN & AROUND COLLEGE**

# **DISCLAIMER**

Green audit team has prepared this report on the basis of primary data collected from the different areas of the college. All reasonable care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

PREPARED BY :- IQAC & GREEN AUDIT TEAM

# GREEN AUDIT

The intention of organizing Green Audit is to upgrade the environment condition in and around the institute, college, companies and other organizations. It is carried out with the air of performing tasks like waste management, energy saving and other to turn into a better environmental friendly institute.

## **Goal of Green Audit:**

- The objective of carrying out Green Audit is securing the environment and cut down the threats posed to human health.
- To make sure that rules and regulations are taken care of.
- The objective of carrying Green Audit is securing the environment and cut down the threats posed to human health.
- To make sure that rules are regulations are take care of.
- To suggest the best protocol for adding to sustainable development.

## **Benefits of Green Audit :-**

- Would help to prepare plan to project the environment.
- Recognize the cost saving methods through waste minimization and management.
- Prevailing and fourth coming impacts on environment.
- Promotes the alertness for environmental guidelines and duties.

# GREEN AUDIT EXECUTIVE SUMMERY REPORT

## BRIEF ABOUT COLLEGE :

Our college is a multi faculty co-educational institution of higher education with U.G. course. The institute is run by the Hitharkini Samaja. The Hithakirini Samaj was established by Rao Bahadur Sree Kandukuri Veersalingam. In 1971 a Degree college i.e.Sree Kandukuri Veeresea Lingam Theistic College was established.

## ENVIRONMENTAL POLICY OF THE COLLEGE :

S.K.V.T.GOVERNMENT DEGREE COLLEGE ,RAJAHMUNDRY always believes in maintaining its own standard in matter of environment and quality consciousness. It has taken number of initiatives to protect its own environment with a pollution free campus.

Being an environmental conscious college, the administration and the students of the college look after the environment carefully. Every year, during rainy season, tree plantation is carried out and carefully looked after it. S.K.V.T.DEGREE COLLEGE owns responsibility to preserve the work carried out on the campus related to the environment.

## CONSTITUTION FOR GREEN AUDIT :

The Green Audit is carried out as per the environmental policy of the college and Green audit checklist. The aim of the audit is to check the existing practices and provide advice for the development of environmental policy and practice in the areas of :

- Waste Management
- Water conservation and management
- Tree plantations
- Bio-diversity and threatened/endangered species
- Preservations energy use and conservations.
- Eco-friendly campus.
- Green environment and clean campus.

## MAJOR RECOMMENDATIONS

- College should install solar panel as early as possible
- PUC certificate for all the vehicles entering the campus to be made mandatory and to be checked by security.
- Bio-waste ,composting system to be adopted.
- E-Waste management system needs to be adopted.

## OBJECTIVES OF THE STUDY

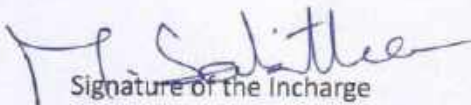
The main objective of the green audit is to promote the environment management and Conservation in the college campus.The purpose of the audit is to identify,quantify ,describe and prioritize framework of environment sustainability in compliance with the applicable regulations ,policies and standards.

**S.K.V.T.GOVERNMENT DEGREE COLLEGE RAJAMAHENDRAVARAM**  
**DEPARTMENT OF BOTANY**

**ACADEMIC GREEN AUDIT INTERNAL COMMITTEE -2023**

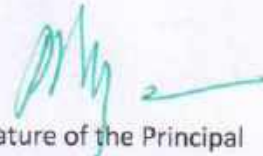
The principal is pleased to constitute the following members for GREEN AUDIT under the guidelines of Botany department for the academic year 2023-2024 for the purpose of NAAC.

1	Dr.P.A.Rajababu	Principal	Convener
2	Dr D.V.Ramanamurthi	Vice-principal	IQAC member
3	G.Sarath Babu	H.O.D Mathematics	Coordinator
4	Kum M.Sabitha	H.O.D Botany	Member



Signature of the Incharge

**Lecturer in Charge**  
**Department of Botany**  
**SKVT Govt. Degree College**  
**RAJAHMUNDRY-533 101.**



Signature of the Principal

## \* VISION \*

To achieve Academic Excellence by giving impetus and adapting to measures for Enhancing Effective Quality Sustenance and Progression on all key facets of Education. Providing a dynamic and conducive Environment for all in order to Inculcate, Infuse, Imbibe, Equip and Disseminate value Oriented Learning, Creativity, innovation Social Consciousness to achieve Sustainable Livelihood.

## \* MISSION \*

- To inculcate Love/Inclination for learning by adapting to Latest Teaching Learning Methods for Enhanced Learning & Creativity.
- To value and by introducing & Integrating Skill in the Knowledge Content for gaining Competitive Edge with the view to be Self-Reliant.
- To provide an Equal Platform for Higher Education. Employability & Entrepreneurship for all.
- To promote and support Research Oriented Activities.
- To train Students to be Creative and Competitive to face Real World Challenges of the new millennium.
- To develop a sense spirit-de-crops through Co-curricular, Extra-Curricular and Outreach Activities.
- To promote activities to enhance Societal Consciousness /Community development, well-being & harmony.

# WATER MANAGEMENT AND WATER ANALYSIS REPORT

Water quality testing is important because it identifies contaminants and prevents waterborne diseases. Drinking or using contaminated water can result in severe illness or death. That is why it is important to ensure that drinking water is safe, clean and free from bacteria and disease.

The parameters for water quality are determined by the intended use. Work in the area of water quality tends to be focused on water that is treated for human consumption, or in the environment

Drinking water indicators:

The following is a list of indicators often measured by situational category:

\* Alkalinity

- Color of water
- pH value
- Taste and odor (geosmin, 2-Methylisoborneol (MIB), etc.)
- Dissolved metals and salts (sodium, chloride, potassium, calcium, manganese,

magnesium)

> Microorganisms such as fecal coliform bacteria (*Escherichia coli*), *Cryptosporidium*, and *Giardia lamblia*; see Bacteriological water analysis

- Dissolved metals and metalloids (lead, mercury, arsenic, etc.)
- Dissolved organics: colored dissolved organic matter (CDOM), dissolved organic carbon (DOC)

• Heavy metals

# **AIR POLLUTION MANAGEMENT**

## **PERIODIC AWARENESS PROGRAMME FOR STAFF,STUDENTS AND SOCIETY**

The college has been continuously conducting awareness programmes for staff, student and society for protecting and maintaining environment. The awareness is also done by arranging programmes,rallies on various issues related to environment and health.The college students and faculty members are involved in the activities through NSS ,but audit team could not find any display board for conservation of Environment in the college premises.

Every day there are 200 two wheelers and 20 four wheelers are coming in college premises but there is no system observed to check for PUC certificate,Vehicle Exhaust Gas Analysis and Vehicular movement noise and vibration pollution. The air pollution at the time of ignition off and on is more than it is in riding mode.

## **RECOMMENDATION :**

### **The college may consider these on top priority :**

- World Environment Day to be celebrated in college premises every year on 5<sup>th</sup> June and whole college students and staff shall get involved and take OATH for ENVIRONMENT CONSERVATION not only college but also in every span of life.
- Botany Department shall monitor the Ambient Air Quality as per the guidelines of "Air (Prevention and control of Pollution) Act 1981
- Exhaust gases shall be monitored,analysed and check regularly
- Parking zone of college shall be neat & clean.
- Use of bicycle in campus to be promoted.

# **NOISE POLLUTION MANAGEMENT**

## **A) SILENCE ZONES IN THE COLLEGE**

Various display boards have been placed in the library and other places for awareness to maintain silence in the college.

## **B) NOISE CONTROL IN THE COLLEGE**

The college adopt no honking policy and prevents use of any honk and noise in campus.

Certain areas like library, class room are declared as Silence Zone and noise pollution is kept to minimum on college campus.

## **C) DG SET FOR POWER BACK-UP**

The college had DG set as power backup and used whenever there is power cut-off due to load shading or maintenance of electricity in college campus. It is observed that acoustication is not done on DG set for noise pollution reduction. The exhausted gases are not monitored, tested and analyzed to know the pollution load.

## **RECOMMENDATIONS**

**The college administration may consider on top priority**

1. Noise level Monitoring shall be done as per the guideline of "Noise Pollution (Regulation and Control) Rules 2000
2. Vehicular exhausts shall be examined regularly in the college as per Central Motor Vehicle Act 1988
3. Vehicular movement shall be restricted by putting boundary limit and beyond that limit bicycles usage shall be promoted to all students and staff.

## **ENERGY USE AND CONSERVATION**

This indicator addresses energy consumption ,energy sources, energy monitoring, lighting, appliance, natural gas and vehicles, Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

### **OBSERVATIONS**

Following Energy Sources are used in the college

- Electrical
- Diesel
- Petrol
- LPG

### **RECOMMENDATIONS :**

The college administration may consider on top priority

To use Common or public Vehicle instead individual vehicle to conserve fossil fuel.

Energy Consumption for each building should be estimated to design the energy conservation plan.

Energy saving awareness shall be done by displaying the boards at appropriate place.

Encourage natural ventilation and illumination by alternation in the building structures whenever going for new constructions.

## **ENVIRONMENTAL AWARENESS INITIATIVE**

**S.K.V.T.GOVERNMENT DEGREE COLLEGE** conducts regular trainings to staff and faculties regarding use of bicycles ,controlled use of paper ,plantation target and implementation . Display of environment protection banners ,posters like save water, save energy at prominent places ,waste disposal bins for wet and dry waste disposal bins for wet and dry waste disposal are some of the initiative taken .

### **OVERALL RECOMMENDATIONS**

- Lab waste water quantity is not measured and drained to municipal drainage system.
- Planning of chemical consumptions and purchase to be ensured .
- Composting of bio degradable waste to be scientifically done .
- septic tank sewage water analysis is to be done .
- Plan for green belt development to be prepared.
- Drinking water analysis shall be done .
- Rain water Harvesting (RWH) is to be done technically .
- Reduction of wood policy .
- Department wise electrical load consumption is to be done .
- Energy used by each appliance is to be estimated .
- List of equipment /instrument and there consumption of (energy /water ) is to be estimated .
- Awareness for energy and water conservation among students and staff by displaying boards.
- Automatic leak detections in water flowing pipeline.
- Water usage reduction techniques to be used .
- Tree plantation shall be done to maintain biodiversity as well as artificial nesting shall be installed .
- D.G. stock monitoring /exhaust gas analysis shall be done .
- Awareness among students and staff about green environment shall be done use tools like display boards.

# *SKVT GOVT DEGREE COLLEGE*

## *Dept Of Botany*

J.C. BOSE



### **PLANT DIVERSITY**

**A SURVEY WAS CARRIED OUT FIND PLANT DIVERSITY IN THE CAMPUS**

**THE SURVEY WAS FOCUSED ON DIVERSITY OF PLANTS AND THEIR ECONOMIC IMPORTANCE**

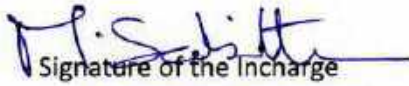
**S.K.V.T.GOVERNMENT DEGREE COLLEGE::RAJAMAHENDRAVARAM**

**DEPARTMENT OF BOTANY**

**ACADEMIC GREEN AUDIT EXTERNAL COMMITTEE MEMBERS - 2023**

The principal is pleased to constitute the following members for the academic "GREEN AUDIT"-2023 around our S.K.V.T.GOVERNMENT DEGREE COLLEGE campus for the purpose of NAAC.

1	K.Ramesh Babu	A.G. College	Professor
2	G.N.V.A.B.S Mahalakshmi	Ret. Lecturer	Professor
3	-	-	-

  
Signature of the Incharge  
**Lecturer in Charge**  
**Department of Botany**  
**SKVT Govt. Degree College**  
RAJAHMUNDRY-533 101.

  
Signature of the Principal  
S.K.V.T. Government Degree College  
Rajamahendravaram  
East Godavari Dist, A.P. INDIA


**S.K.V.T.GOVERNMENT DEGREE COLLEGE::RAJAMAHENDRAVARAM**


**DEPARTMENT OF BOTANY**

**ACADEMIC GREEN AUDIT EXTERNAL COMMITTEE MEMBERS - 2023**

The principal is pleased to constitute the following members for the academic "GREEN AUDIT"-2023 around our S.K.V.T.GOVERNMENT DEGREE COLLEGE campus for the purpose of NAAC.

1	K.Ramesh Babu	A.G. College	Professor.
2	G.N.V.A.B.Smahalakshi	Ret. Lecturer	Professor
3	-	-	-

  
Signature of the Incharge  
**Lecturer in Charge**  
**Department of Botany**  
**SKVT Govt. Degree College**  
**RAJAHMUNDRY-533 101.**

  
Signature of the Principal  
**S.K.V.T. Government Degree College**  
**Rajahendravaram**  
**East Godavari Dist, A.P. INDIA**

# S.K.V.T.GOVERNMENT DEGREE COLLEGE RAJAMAHENDRAVARAM

## DEPARTMENT OF BOTANY

### S.K.V.T.GOV'T DEGREE COLLEGE PLANT LIST

#### TREE FORMS LIST :

S.NO	Scientific name of the plant	Common name of the plant	Family name	No.of plant species present at campus
1.	<i>Azadirachta indica</i>	Neem	Meliaceae	24
2.	<i>Bauhinia acuminata</i>	White bauhinia	Caesalpiniaceae	03
3.	<i>Calophyllum inophyllum</i>	Ponnachettu	Clusiaceae	01
4.	<i>Cocus nucifera</i>	Coconut	Arecaceae	03
5.	<i>Cascabela thevetia</i>	Pachaganneru	Apocynaceae	02
6.	<i>Dalbergia sissoo</i>	Sissoo	Fabaceae	04
7.	<i>Delonix regia</i>	Fire flame	Caesalpiniaceae	04
8.	<i>Euphorbia tirucalli</i>	Pencil tree	Euphorbiaceae	03
9.	<i>Ficus benjamina</i>	Benjamin fig	Moraceae	07
10.	<i>Ficus racemosa</i>	Gularfig	Moraceae	06
11.	<i>Ficus religiosa</i>	Peepal	Moraceae	10
12.	<i>Mimusops elengi</i>	Pogada	Sapotaceae	07
13.	<i>Mangifera indica</i>	Mango	Anacardiaceae	05
14.	<i>Nuclea orientalis</i>	Cadhambum	Rubiaceae	01
15.	<i>Phyllanthus emblica</i>	Amala	Euphorbiaceae	02

16.	<i>Plumeria alba</i>	Deva ganneru	Apocynaceae	02
17	<i>Polyalthia longifolia</i>	Ashoka	Annonaceae	10
18.	<i>Pongamia pinnata</i>	Kanugachettu	Fabaceae	06
19.	<i>Psidium guajava</i>	Jampandu	Myrtaceae	03
20.	<i>Pterocarpus santalinus</i>	Raktachandanamu	Fabaceae	03
21.	<i>Sapindus trifoliatus</i>	Kunkudu	Sapindaceae	01
22.	<i>Terminalia catappa</i>	Indian almond tree	Combretaceae	05
23.	<i>Thespesia populnea</i>	Indian tulip tree	Malvaceae	02
24.	<i>Tectona grandis</i>	Teak	Verbenaceae	02
25.	<i>Terminalia arjuna</i>	Tella maddi	Combretaceae	03
26.	<i>Syzygium cumini</i>	Neredu	Myrtaceae	05
27.	<i>Spathodea campanulata</i>	African tulip	Bignoneaceae	02
28.	<i>Parking biglandulosa</i>	Badminton ball	Mimosaceae	02
29	<i>Phyllanthus emblica</i>	Indian goose berry	Euphorbiaceae	02
30	<i>Citrus aurantium</i>	Green orange	Rutaceae	02
31	<i>Alstonia scholaris</i>	Devil tree	Apocynaceae	02
32	<i>Moringa tinctoria</i>	Thogaru	Rubiaceae	02
33	<i>Markhamia lutea</i>	Lutea	Bignoniaceae	04
34	<i>Tacoma stans</i>	Yello flowers	Bignoniaceae	02
35	<i>Roystonea regia</i>	Royal palm	Areaceae	04

**HERB FORMS LIST TABLE:**

S.No	Scientific name	Common name	Family	Total no.of species present at campus
1	<i>Acalypha indica</i>	Muripindi	Euphorbiaceae	50
2	<i>Achyranthes aspera</i>	Uttareni	Amaranthaceae	30
3	<i>Aerva lanata</i>	Kondapindi	Amaranthaceae	54
4.	<i>Agave americana</i>	Kittanara	Agavaceae	07
5	<i>Ageratum conyzoides</i>	Pumpullu	Asteraceae	04
6	<i>Agropyron repens</i>	Grass umbrella	Poaceae	12
7	<i>Aloe vera</i>	Kalabanda	Liliaceae	03
8	<i>Amorphophallus paeonifolius</i>	Kandagadda	Araceae	03
9	<i>Aristolochia bracteolata</i>	Gadidagadapaku	Aristolochiaceae	02
10	<i>Artemisia vulgaris</i>	Machapatri	Asteraceae	01
11	<i>Boerhavia diffusa</i>	Punarnava	Nyctaginaceae	22
12	<i>Ixora indica</i>	Guttiuvvulu	Rubiaceae	03
13	<i>Canna indica</i>	Krishna tamari	Cannaceae	02
14	<i>Cleome viscosa</i>	Kukkavaminta	Cleomaceae	06
15	<i>Euphorbia hirta</i>	Peddivarinanabalu	Euphorbiaceae	16
16	<i>Evolvulus alsinoides</i>	Vishnukrantamu	Convolvulaceae	12
17	<i>Hybanthus enneaspermus</i>	Ratna purusha	Violaceae	12
18	<i>Phyllanthus amarus</i>	Nela vusiri	Euphorbiaceae	38
19	<i>Tridax procumbens</i>	Gaddi chamanthi	Asteraceae	20

20	Vernonia cinerea	Gharitikamini	Asteraceae	14
21	Wedelia chinensis	Kesaraja	Asteraceae	05
22	Croton banplandianum	Galivana	Euphorbiaceae	06
23	Carom ajwani	Vammu aku	Apiaceae	02
24	Sansevieria cylindrica	Pencil plant	Asparagaceae	10
25	Sansevieria zeylanica	Snake ears	Asparagaceae	12
26	Sansevieria hahnii	Mother ears	Asparagaceae	10
27	Dracaena fragrans	Corn plant	Asparagaceae	05
28	Dracaena nuhatma	Red croton	Asparagaceae	03
29	Vitex negundo	Chinese chastetree	Camiaceae	01
30	Garden croton	Multiple color leaf plant	Euphorbiaceae	02
31	Aloe vera	Aloe	Liliaceae	3
32	Areca palm	Ornamental palm	Arecaceae	12
33	Dieffenbachia seguine	Dumbcane	Araceae	4
34	Anthurium species	Anthurium	Araceae	15
35	Costas igneus	Insulin plant	Costaceae	05

SHRUB FORMS LIST TABLE :

S.No	Scientific name of the plant	Common name of the plant	Family	Number of species present in the campus
1	<i>Abutilon indicum</i>	Tuttura benda	Malvaceae	04
2	<i>Achyranthes aspera</i>	Uttareni	Amaranthaceae	18
3	<i>Bauhinia acuminata</i>	Devakanchanamu	Caesalpiniaceae	02
4	<i>Calotropis gigantea</i>	Jilledu	Asclepiadaceae	03
5	<i>Cassia alata</i>	Metta tamara	Caesalpiniaceae	02
6	<i>Cassia auriculata</i>	Caesalpinaceae	Tangedu	03
7	<i>Cassia occidentalis</i>	Kasinta	Caesalpinaceae	03
8	<i>Catharanthus roseus</i>	Billaganneru	Apocynaceae	03
9	<i>Tredescantia spathaceae</i>	Tredescantia	Commelinaceae	13
10	<i>Andrographis paniculata</i>	Nelavamu	Apocynaceae	06

**CREEPING PLANTS LIST TABLE :**

<b>S.No</b>	<b>Scientific name of the plant</b>	<b>Common name of the plant</b>	<b>Family</b>	<b>No of species present at campus</b>
1	Hemidesmus indicus	Sarsaparilla	Asclepiadaceae	09
2	Gymnema Sylvester	Podapatri	Apocynaceae	03
3	Pyrostegia venusta	Flame vine	Bignoneaceae	01
4	Antigone leptopus	Pichi batani	Polygonaceae	01
5	Combretum indicum	Rangoon creeper	Combretaceae	01
6	Epipremnum aureum	Money plant	Araceae	02

# TREE FORMS



*Polyalthia longifolia* Thw.  
 Family : Annonaceae  
 Trade Name : Mast or Cemetery Tree  
 Sanskrit Name : —  
 Telugu Name : Ashoka  
 Habit : Tree  
 Propagation : Seeds  
 Parts Used : Bark  
 Uses : Febrifuge.



*Pongamia pinnata* (Linn.) Pierre  
 (Syn. *Derris indica*)  
 Family : Fabaceae  
 Trade Name : Indian Beech  
 Sanskrit Name : Karanjah  
 Telugu Name : Kanugechettu  
 Habit : Tree  
 Propagation : Seeds  
 Parts Used : Roots, Bark, Leaves,  
 Flowers, Seeds  
 Uses : Diabetes, Gonorrhoea,  
 Leprosy, Skin diseases,  
 Rheumatism, Scabies.



*Phyllanthus emblica* Linn.  
 Family : Euphorbiaceae  
 Trade Name : Indian Gooseberry,  
 Emblic Myrobalan  
 Sanskrit Name : Amalaki  
 Telugu Name : Usiri  
 Habit : Tree  
 Propagation : Seed, Grafting  
 Parts Used : Dried Fruit, Seed,  
 Leaves, Bark and Flowers  
 Uses : Aging and general  
 debility, Acid-peptic  
 diseases, Hair loss,  
 Dyspepsia, a rich source  
 of vitamin -C, Laxative,  
 Cooling, Diuretic, Ulcers

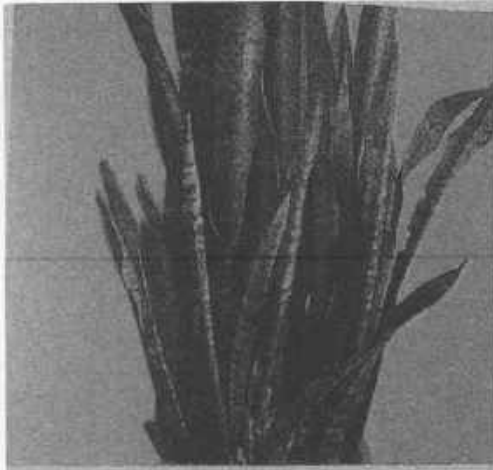


*Delonix regia* (Hook.) Raf.  
 Family : Caesalpiniaceae  
 Trade Name : Flamboyant flame tree,  
 Gulmohur  
 Sanskrit Name : —  
 Telugu Name : Agnipoolu, Erraturayi  
 Habit : Tree  
 Propagation : Seeds, Stem cuttings  
 Parts Used : Flowers  
 Uses : Dysmenorrhoea

*Mimusops elengi* Linn.  
 Family : Sapotaceae  
 Trade Name : Bullet-Wood Tree  
 Sanskrit Name : Bakulah  
 Telugu Name : Pogada  
 Habit : Tree  
 Propagation : Seed  
 Parts Used : Bark, Flowers, Fruits,  
 Seed  
 Uses : Tonic, Lotion for wounds  
 and Ulcers, to promote  
 delivery in child birth, to  
 increase fertility in  
 women, Hydrophobia,  
 Insanity



# SHRUB FORMS



*Sansevieria roxburghiana* Schult. f.  
Family : Agavaceae  
Trade Name : Bow String Hemp  
Sanskrit Name : Murva Maurvi  
Telugu Name : Niyanda, Sagal  
Habit : Shrub  
Propagation : Suckers  
Parts Used : Roots, Leaves  
Uses : Cough, Snake-bite,  
Leprosy, Rheumatism,  
Glandular enlargements



*Cassia auriculata* Linn.  
Family : Caesalpiniaceae  
Trade Name : Tanner's Cassia  
Sanskrit Name : Charmaranga, Mayahari  
Telugu Name : Tangedu  
Habit : Shrub  
Propagation : Seeds  
Parts Used : Flower buds, Flowers  
Uses : Diabetes, Nocturnal  
emissions and  
excessive menstrual  
flow, Conjunctivitis

*Celotropis gigantea* (Linn.) R.Br.  
Family : Asclepiadaceae  
Trade Name : Gigantic Swallow Wort  
Sanskrit Name : Arkah  
Telugu Name : Jilledu  
Habit : Shrub  
Propagation : Seeds  
Parts Used : Whole plant  
Uses : Leprosy, Syphilis,  
Dysentery, Elephantiasis,  
Criminal abortion,  
Epilepsy, Hysteria,  
Convulsions, Paralysis,  
Asthma, Skin diseases,  
Ear-ache



# HERB FORMS

*Acalypha indica* Linn.

Family : Euphorbiaceae  
Trade Name : Indian Acalypha  
Sanskrit Name : Haritamanjari  
Telugu Name : Muripindi, Kuppintaku  
Habit : Herb  
Propagation : Seeds  
Parts Used : Whole plant  
Uses : Gastro-intestinal irritant,  
Diuretic, Skin diseases,  
Ulcers, Bronchitis,  
Headache, Scorpion  
sting, Dysmenorrhoea  
Tooth-ache, Snakebite



*Phyllanthus amarus* Schum. & Thonn.

Family : Euphorbiaceae  
Trade Name : —  
Sanskrit Name : Bahupatra  
Telugu Name : Nela Vusiri  
Habit : Herb  
Propagation : Seed  
Parts Used : Whole plant  
Uses : Viral hepatitis, Oedema,  
Anorexia



*Boerhaavia diffusa* Linn.

Family : Nyctaginaceae  
Trade Name : Hog Weed, Pig Weed  
Sanskrit Name : Punarnava, Sophaghni  
Telugu Name : Atikamamidi  
Habit : Herb  
Propagation : Seed  
Parts Used : Whole Plant  
Uses : Diuretic, Aphrodisiac,  
Cardiac, Stimulant,  
Diaphoretic, Anti-Inflam-  
matory, Cardiac Disor-  
ders, Jaundice, Anaemia,  
Bronchitis, General  
Debility, Myalgia, Sca-  
bies, Oedema



*Aerva lanata* (Linn.) Juss. ex Schultes

Family : Amaranthaceae  
Trade Name : —  
Sanskrit Name : Bhadra, Pashanabheda  
Telugu Name : Pindikura, Kondapindi  
Habit : Herb  
Propagation : Seeds  
Parts Used : Whole plant  
Uses : Urinary calculi, Dysuria,  
Wounds, Polyuria, Piles,  
Abdominal disorders,  
Uterine diseases, Leucor-  
rhoea, Ureteral stones



## **GREEN BELT AREA & BIO-DIVERSITY**

The Green Belt Area is meant for conservation of nature and aesthetic value of the college premises. The Green Area in the college includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the Environmental Policy is enacted, enforced and reviewed using various environmental awareness programmes.

### **OBSERVATIONS**

Campus is located in the vicinity of approximately 80 types (species) flora and fauna. Various tree plantation programs are being organized during the month of July and August at college campus and surrounding villages through NSS unit. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers. The plantation program includes various types of indigenous species of ornamental and medicinal. Instead of maintaining biodiversity the similar species planted is observed for example "NEEM". The dominant species in green belt are Neem, Indian Blackberry Tree, Flame Tree, Mango Tree, Jack Fruit Tree, Teak and Spanish cherry Plant.

No. of trees planted in campus

'Types of trees planted which are environment friendly are enlisted below:

Neem, Indian Blackberry Tree, Flame Tree, Mango, Jack Fruit, Teak, Guava, Almond, Cashew, Exotic Flora. Asoka and Spanish cherry Plant..

### **RECOMMENDATIONS**

The Management of College may consider on top priority that

Total 33% area is to be reserved for plantation

The Biodiversity is to be maintained while considering the plantation in future

The selection of trees species to be based on environmental conservation and carbon sequestration value

Artificial nests and water ponds are recommended to attract different birds in their migrating and breeding season

Watering schedule to be planned according the season

Drip irrigation is strongly recommended to conserve the water

Reuse of the water shall be done instead of use of fresh water

Special Tree Plantation shall be celebrated every year on environment day and also competitions for bird species identification and knowing the tree values in terms of medicinal and environment conservation

## **ENERGY USE AND CONSERVATION**

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliance, natural gas and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

### **OBSERVATIONS**

Following Energy Sources are used in the college

Electrical

Diesel

Petrol

~ LPG

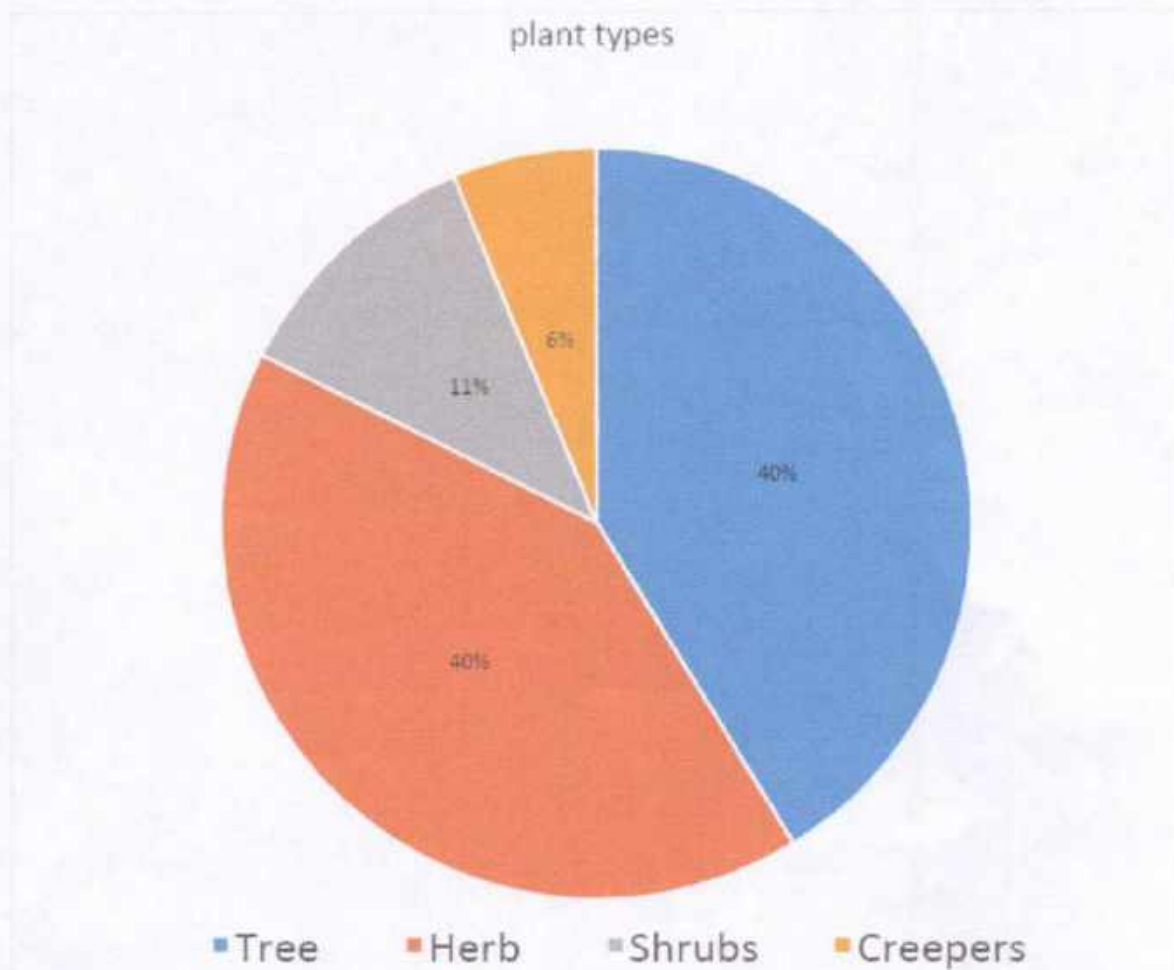
### **RECOMMENDATIONS**

The College administration may consider on top priority

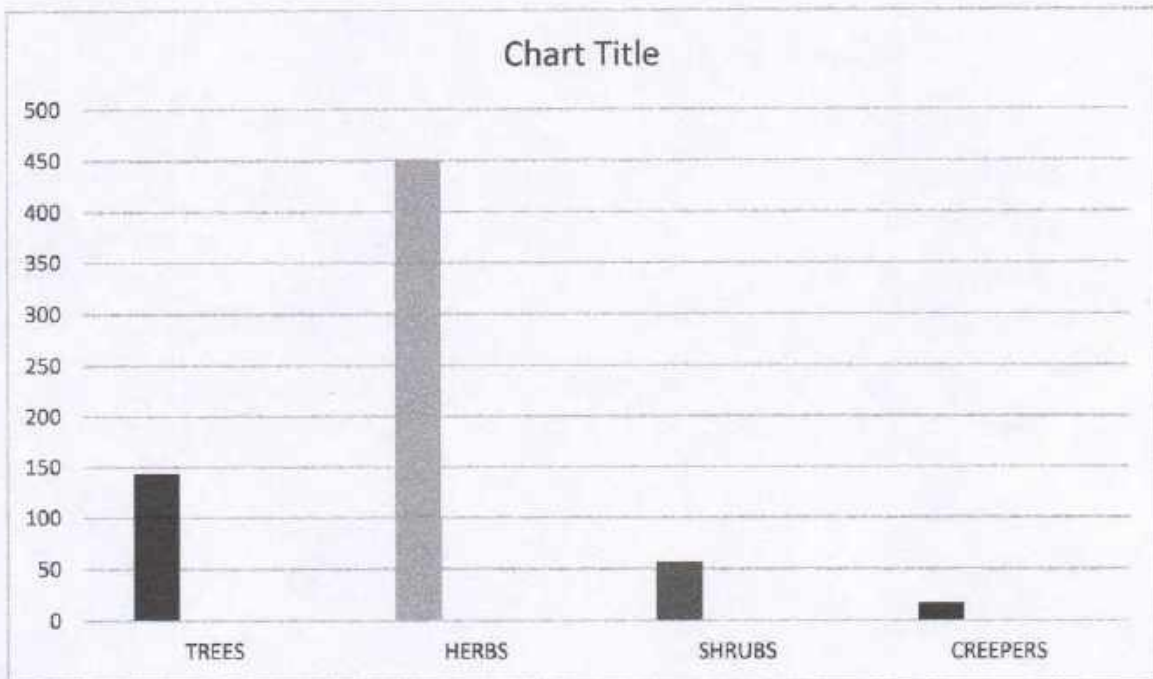
1. To use Common or public Vehicle instead individual vehicle to conserve fossil fuel
2. Energy Consumption for each building should be estimated to design the energy conservation plan.
3. Instead of out-sourcing the Annual Maintenance of Electrical Equipment college concern department staff shall take that responsibility
4. Energy saving awareness shall be done by displaying the boards at appropriate place
5. Encourage natural ventilation and illumination by alteration in the building structures whenever going for new constructions

**Total number of species present our campus list:**

s.no	Name of the plant type	Total number of varieties	Percentage of species
01	Tree forms	35	40.69
02	Herb forms	35	40.69
03	Shrub forms	10	11.62
04	Creepers	6	6.97



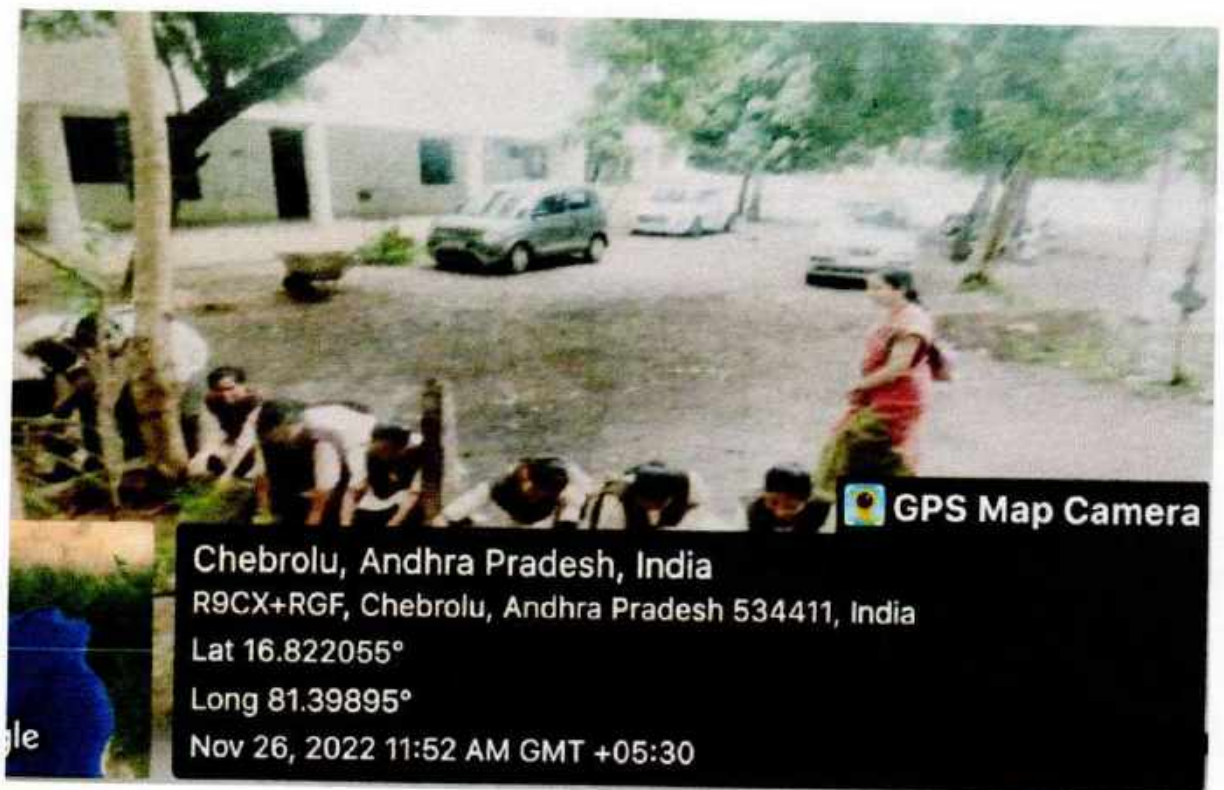
Name of the plant type	Total number of plants
Tree forms	144
Herb forms	451
Shrub forms	57
Creepers	17



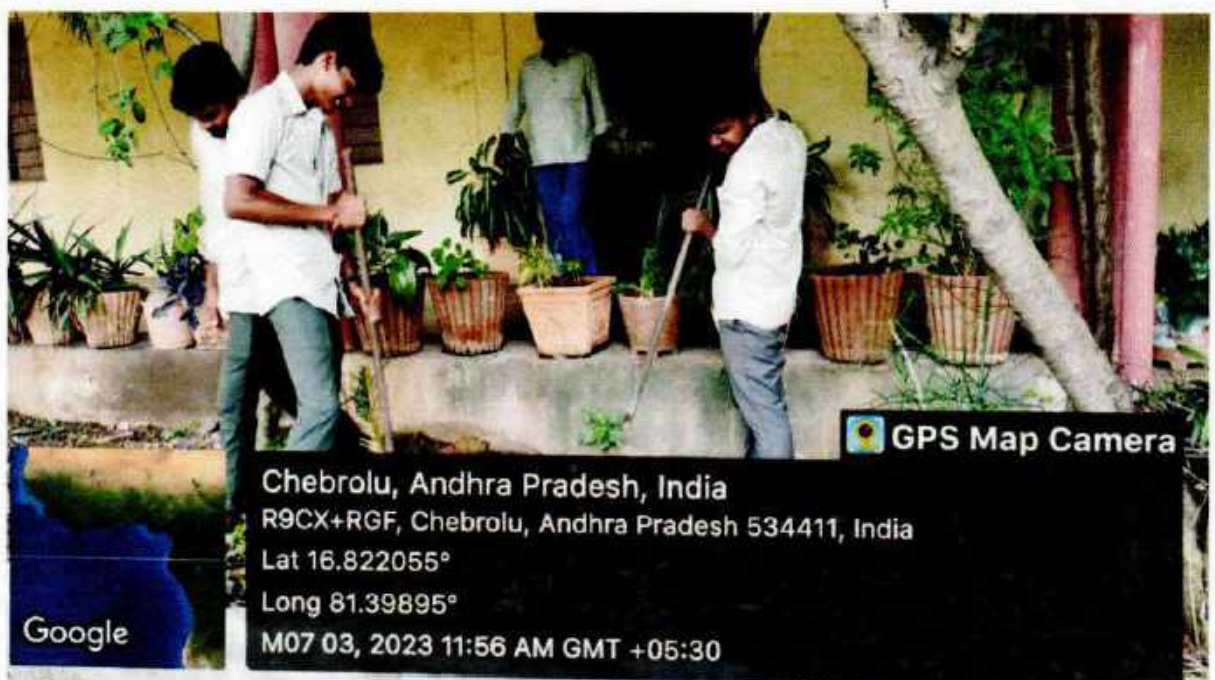
**S.K.V.T.DEGREE COLLEGE :: RAJAHMUNDRY**  
**DEPARTMENT OF BOTANY PLANTATION ON 2020**



**S.K.V.T.DEGREE COLLEGE :: RAJAHMUNDRY**  
**DEPARTMENT OF BOTANY PLANTATION ON 2022**



**S.K.V.T.DEGREE COLLEGE :: RAJAHMUNDRY**  
**DEPARTMENT OF BOTANY PLANTATION ON 2023**



SKVT GDC ::Rajamahendravaram

INKUDU GUNTALU



SKVTGDC Inkudu Kunta Construction





**Sri.S.Ganghadhar Alumni, Supervised the Inkudu Gunta and NSS PO Tcy. Ratnam and S.Rajkumar.**



**INKUDU GUNTTA FILLED BY RAIN WATER**



## PLANTS DATA COLLECTED BY 1<sup>st</sup> & 2<sup>nd</sup> B.Sc STUDENTS





# GREEN AUDIT

## CERTIFICATE

This is to certify that S.K.V.T.GOVERNMENT DEGREE COLLEGE RAJAMAHENDRAVARAM, EAST GODAVARI DIST has conducted "GREEN AUDIT "in July 04-07-2023 to assess the green initiative planning, efforts activities implemented in the college campus like plantation waste management, rain water harvesting, conservation of energy and various environment awareness activities. The green audit is also aimed to assess impact of green initiatives for maintenance of the campus eco-friendly.

Place :- Rajamahendravaram

Date :- 04-07-2023

External Auditor

Coordinator

Internal Auditor

**Lecturer In Charge**  
**Department of Botany**  
**SKVT Govt. Degree College**  
**RAJAHMUNDRY-533 101.**



IQAC Coordinator

Principal

**S.K.V.T. Government Degree College**  
**Rajamahendravaram**  
**East Godavari Dist, A.P. INDIA.**