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**T.R.R.GOVERNMENT DEGREE COLLEGE :: KANDUKUR
PRAKASAM DISRICT - ANDHRA PRADESH PIN: 523 105**

[Affiliated to Acharaya Nagarjuna University]

[Established in 1966]

CRITERION VII

7.1.2 (4)

GREEN CAMPUS INITIATIVES



GREEN INITIATIVES

GREEN INITIATIVES:

In our college, with an aim to convert the college into an eco-friendly campus, we have taken up many green initiatives year after year. Our Eco club, Botany Department, Zoology department, Physical education, NSS, and NCC wings regularly participate in the plantation and clean and green programs. The students from all groups participate in Mass plantation and clean and green programs organized by the Eco Club. The following are the green initiatives that we have taken up in our college

1. Aquatic Pond
2. Azolla pond
3. Kitchen Garden
4. Hydroponics
5. Organic Farming
6. Seed Museum
7. Plantation and Clean & Green programs
8. Establishment of new Gardens
9. Mini aquatic Ponds

Many green campus initiatives are taken up in recent times in our college. The most important among them are Plantation programs, the Development of two new Botanical Gardens, a Seed museum Initiating Organic Agriculture, Hydroponics, Azolla culture, and a proper solid waste management unit where organic waste is converted to Income called Vermicompost. In the future, we wish to further strengthen our green initiatives by practicing them to achieve their objectives.

AQUATIC POND:

The Aquatic pond is constructed in the Botanical Garden 2 of our college to increase the biodiversity of the college premises. The Department of Botany and zoology took responsibility for constructing and maintaining the aquatic pond. The biodiversity can be increased by introducing free-floating hydrophytes like Lemna, Wolffia, and Pistia along with hydrophytes with floating leaves like Nymphaea Nelumbo. In addition to this aquatic flora aquatic fauna like freshwater fishes (Catla catla, Labeo) are grown in this pond. The aquatic pond will attract thousands of insects and other species thus increasing the biodiversity of the college. The aquatic pond measure 18feet x 9feet x 5.4 feet in length breadth and depth respectively.





Azolla Pond:

What is Azolla?

Azolla is a free floating Pteridophyte plant which is used as a biofertilizer. It measures 1.5-3 cm in length and 1-2 cm in breadth. It contains a cyanobacteria called *Anabaena azollae* in the leaf. It fixes atmospheric Nitrogen. Nitrogen is a crucial element in the plant Metabolism. Plants cannot use gaseous molecular nitrogen which occupies 78% of the earth atmosphere. So the cyano bacteria present in the leaf surface of *Azolla* convert the molecular nitrogen into ammonia, which is the utilizable form of the nitrogen to the plants. As microorganisms are involved in Nitrogen fixation process this is called Bio-fertilizer. *Azolla* is also used as the Fodder for cattle poultry. This plant is rich in minerals like nitrogen, potassium and phosphorous and contains 24-30% protein in total dry matter.

Conditions for Azolla culture:

1. Temperature: 25⁰-30⁰ C
2. degrees centigrade.
3. Light: It prefers to grow under partial shade
4. Water: 10-15 cm of fresh water is necessary in the pond for its multiplication
5. pH: 5.2 to 5.8
6. Every 15 days Dung solution is added to the pond water
7. Every 30 days fertile soil is added to the pond (80-100 kg)
8. After every 15-20 days the thick layer of *Azolla* is formed.

Azolla Pond: In our college garden a permanent *Azolla* pond was constructed with concrete with 20ft length, 7 ft breadth and a depth of 2 feet. The *Azolla* pond was constructed in 2019-20 academic year. *Azolla* plant is inoculated into the pond filled with water. Before inoculating the plant, 15 kg of soil and 10 kg of cow dung is mixed thoroughly and poured into the pond water. Hand full of Monophosphate is also added to promote growth of root system. The entire pond is covered by the shade net to prevent the solarization of the plant. For every 15 days the *Azolla* starts doubling itself. In each cycle we get the yield of 30 kg of wet weight. Till now we have completed 10 cycles of *Azolla* culture where in each cycle we got 30 kg of wet yield. In each year we complete 5 cycles in February, August, September, November and December. Excluding the pandemic period till now we **produced 300 kg of wet *Azolla*.**

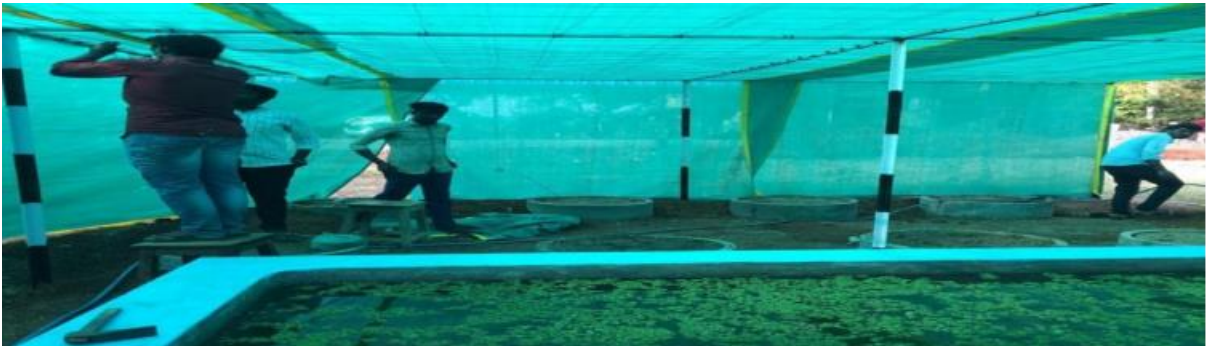
Usage: There are three gardens in our college. Almost three fourth of the produce is used for nourishing our plants alone either in dry form or wet form. Dry or wet form of *Azolla* is rich in organic nitrogen, which is used as an excellent bio-fertilizer for our plants. Rest of the material used as seed material for our self consumption as well as for the local farmers.

Consultancy Service: We take the responsibility of disseminate the knowledge of *Azolla* utilization to the local farmers. We opened free service, where we share the information of *Azolla* culture and distribute the *Azolla* for free of cost. Besides, we organized workshop on *Azolla* culture with the coordination of Central Tobacco Research Institute Regional station (CTRI –RS) Kandukur.



Newly constructed Azolla pond in the Botanical Garden -2

**Y. Sudhakar Babu Lect. In Telugu, K. Srinivas Lect. In Zoology engaged in tying
Binding wire to the frame work.**



Students engaged in enveloping the shade net to the frame work



Azolla inoculated in to the pond



Fully spread *Azolla* Plant

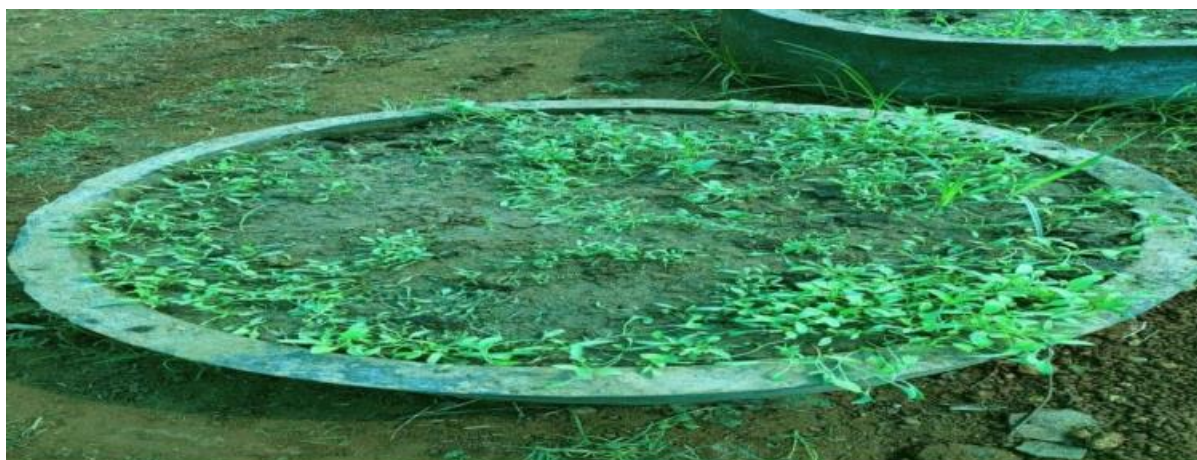


Students of Final BZC (2020-2021) who are involved in the Azolla culture

KITCHEN GARDEN:

As a part of green initiative, with the coordination and assistance of CTTRI RS (Central Tobacco Research Institute Regional Station) Kandukur and Krishi Vignan Kendra, Kandukur, our college started the Kitchen Garden.

Kitchen Garden: It is a place where the necessary vegetables can be grown for the limited family members. In the context of pesticide residues in vegetables of the market, to live a healthy life and eat pesticide free vegetables kitchen gardens are developed in each and every home in the villages. To spread this concept our college started the kitchen garden in the Botanical garden near the Azolla pond. The area of kitchen garden is covered by the shade net. Leafy vegetables like coriander, Methi and amaranthus (Garden curry) are cultivated in the small cement rings kept for this purpose. These cement rings are filled with the mixture of red soil sand and clay and compost in equal proportion for the better yield. All our students are motivated and encouraged to take up the kitchen gardens in the backyard of their home.



Amaranthus plant seedlings in the cement rings



Luxurious growth of amaranthus plants in the ring.

Students working in the kitchen garden



Students handing over their first produce of Methi Plant to the Principal

HYDROPONICS- Soil less Culture of Plants

In the present day context of environmental and soil pollution the quality of leafy vegetables and vegetables is deteriorating. The production of these plants is linked with the heavy usage of chemical fertilizers and pesticides. The usage of these chemicals is very harmful to the soil as well as the produce. So to weed out the unwanted chemicals, hydroponics is the best solution. Through hydroponics we can minimize the fertilizer consumption without the usage of pesticides. The mineral nutrition of each plant varies so we give only those nutrients that are required for the metabolism of the plant. There is no excess wastage of nutrients. It is also a novel method of growing plants where the students can understand better and assimilate the knowledge regarding the pH and mineral requirement of plant. Botany department took the initiative and developed three different models of Hydroponics in the Botany lab. They are

1. NFT (Nutrient film technology)
2. Dutch bucket Model
3. Deep water culture

The NFT unit, which we developed with a capacity of 72 plants, costs Rs.18,000/- only as compared to Rs.60,000/- branded Hydroponic unit sellers. The total cost of all the three units with a carrying capacity of 293 plants, costs Rs.30,000/- as against Rs.1,15,000/- as quoted by the commercial hydroponic unit sellers in their websites.

Through NFT Model, leafy vegetables like Amaranthus(Garden Curry), Spinach are grown. Through Dutch bucket model we grew the tomato plants. Deep water culture is used to grow the coriander plants. We are experimenting some exotic plants like Capsicum and Lettuce through dutch bucket and NFT models.

HYDROPONICS: Hydroponics unit 1 - NFT model (Nutrient Film technology)



HYDROPONICS UNIT – 01 NFT MODEL





DUTCH BUCKET MODEL:





ORGANIC FARMING:

In TRR Government Degree college, with an objective to produce contaminant-free quality food, we started the organic farming in our Palm Garden. We utilized the expertise of Jillellamudi Venkateswarlu an Organic farmer from Venkatadripalem Village of Kandukur Mandal. He trained our students in different aspects of Organic farming. The uniqueness of this organic farming is that, our BZC students prepared their own Organic fertilizers, biopesticides, and they are totally involved in growing different vegetable crops on their own.

The vegetables like Tomato, Ribbed Guard, Beans, Ladys finger, Capsicum, leafy vegetables like garden curry, Methi, spinach and fruits like watermelon are grown in the garden without using chemical fertilizers and pesticides.

Through this practice students learned the soil, water, weed and disease management in organic farming. The produce is sold to the college staff and students at much lower rate than the market price.



Our Organic farming team at Venkatadripalem Village Organic farm



Land Preparation



Sowing the seeds of vegetables



Water Management



Weed Management



Organic fertilizer preparation by the final BZC students



Organic pesticide application



Harvesting the crop



Ladys finger



Tomato



Capsicum



Bitter Guard



Amaranthus



Cluster Bean



Ribbed Guard



Water melon

**TRR GOVERNMENT DEGREE COLLEGE
DEPARTMENT OF BOTANY
SEED MUSEUM**

As a part of Biodiversity conservation, Department of Botany started conserving the important and rare seeds of flowering plants in the form of a seed museum. The main objective of the seed museum is biodiversity and Taxonomic identification of the seeds of flowering plants. We have collected nearly fifty seeds of different category belonging to cereals, pulses, oil seeds, fruit trees and vegetables. All the seeds bottles are given QR code in which Botanical name, family name and economic importance of different seeds are incorporated. In future we will collect the seeds of rare medicinal plants and conserve in the form of seed museum. We will further increase the number of seed varieties of normal plants.

Importance of seed Museum

1. Biodiversity Conservation
2. Identification of seeds by the students

1. Setaria italica

Common Name: Fox Tail Millet (English), Korralu (Telugu), Kangli(Hindi)

Family: Poaceae



Fruit : Caryopsis

Economic Importance:

- 1. Two times more proteins than Rice**
- 2. Increases Disease resistance**
- 3. Good for Diabetic Patients**
- 4. 100 g of this millet contain 60.9 g of carbohydrates, 12.3 g of proteins
8 g of fiber 4.3 g of fat, 2.8mg of Iron, 3.2 mg of Niacin, 31 mg of Calcium and 473 Calories of Energy**



Panicum meliore

Common Name: Little millet (Eng.),

Kut (Hindi)

Samulu (Telugu)

Family: Poaceae

Fruit : Caryopsis

Economic Importance:

- 1. Play an important role in digestion.**
- 2. Good for diabetic patients.**
- 3. For 100g of this millet proteins occupy 7.7 g, fiber 7.6g. fat 5.2 g, iron 9.3g Calcium 17g and 207 Calories of energy.**





Pasalam scribicubatum

Common Name: Kodo Millet (English)

Kodon (Hindi)

Arikelu (Telugu)

Family: Poaceae

Fruit : Caryopsis

Economic Importance:

1. Like Glucose it also releases the energy in quicker manner.
2. It do not contain gluten
3. It control Blood pressure and cholesterol in the blood
4. Useful for heart patients
5. Every 100 g of this seed contain 65.9 g of carbohydrate, 8.3 g of protein 1.4 g of fat, 9 mg of fiber, 35 mg of calcium, 188 mg of phosphorous, 1.7 mg of Iron and release 353 calories of energy.







Labelled and QR coded Seed Museum

PLANTATION, CLEAN AND GREEN PROGRAMS:

Our Eco Club, NSS, NCC, Physical Education and Department of Botany are actively engaged in the regular periodic plantation programs of the college. Every year with an objective to increase the green cover and biodiversity of the college we plan the tree plantation program in the college premises.

TRR GOVT. DEGREE COLLEGE, KANDUKURU, PRAKASAM DT.
DEPT. OF BOTANY

Date: 05-09-2017

CIRCULAR

It is to inform to all the students and staff that department of Botany in coordination with NSS and NCC, Physical education is organising plantation and clean & green program on 06-09-2017, in the afternoon session at 3 P.m. All the students and staff should participate in the program without fail


PRINCIPAL
TRR GOVT. DEGREE COLLEGE
NAAC Accredited B










2017-2018



Clean and green Program (06.09.2017



Plantation Program (06.09.2017)



TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
ECO CLUB & DEPARTMENT OF BOTANY

Date: 03.06.2018

CIRCULAR

It is to bring to your notice that as a part of implementing the Green policy of our college, Eco club and Department of Botany are planning for Plantation program on 05.06.2018. All the students and staff are instructed to attend the program without fail. The Eco Club, Botany Department, the Physical Director of College, NSS and NCC wings will take the lead and implement the program.

HOD Botany
Eco club convenor

Principal
T.R.R. Govt. Degree College
KANDUKUR - 523105
Prakasam Dist.

Botany	Political Science
Zoology	History
Chemistry	Economics
Physics	Commerce
Mathematics	WEC
Computer Science	NSS
Hindi	NCC
Urdu	Physical Education
Telugu	English

2018-2019 (Vanam Manam Program – 05-06-2018)



TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
ECO CLUB DEPARTMENT OF BOTANY

Date: 09.07.2018

CIRCULAR

It is to inform all the students that, Eco club and Department of Botany are planning for Plantation program on 10.07.2018. All the students and staff are instructed to attend the program without fail. The Eco Club, Botany Department, the Physical Director of College, NSS and NCC wings will take the lead and implement the program.

Eco club convenor

Principal

T.R.R. Govt. Degree College
KANDUKUR - 523105
Prakasam Dist.

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Telugu	English

Clean and Green Program (10.07.2018 – Swachh Bharat)




**TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
DEPARTMENT OF BOTANY**









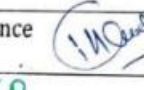

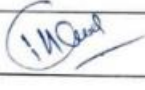





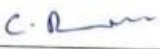
Date: 13.12.2019

CIRCULAR

It is to bring to your notice that as a part of implementing the Green policy of our college, Eco club and Department of Botany are planning for Plantation program on 15.12.2019. All the students are instructed to attend the program without fail. The Botany department, Physical Director of College, NSS and NCC wings will take the lead and implement the program.


HOD
Botany Department
Eco Club Convener


PRINCIPAL
T.R.R. Government Degree College
KANDUKUR - 523105
Prakasam Dist.

Botany 	Political Science 
Zoology 	History 
Chemistry 	Economics 
Physics 	Commerce 
Mathematics 	WEC 
Computer Science 	NSS 
Hindi 	NCC 
Urdu	Physical Education 
Telugu 	English 

2019-2020 (Clean and Green Program)



Plantation - 15.12.2019





Plants propagated through stem cutting

**TRR GOVT. DEGREE COLLEGE, KANDUKUR
PRAKASAM DIST.
ECO CLUB**

Date: 21.06.2019

CIRCULAR

It is to bring to your notice that as a part of implementing the Green policy of our college, it is decided to take up the Clean and Green activity of the college on every third Saturday of the month. All the HODs, NSS, NCC and the Physical director of the college are instructed to make the program successful with proper planning and organization. The Physical Education director will be in charge of the program. The program should be planned on every third Saturday at 3.00 pm to 5.00 pm.

Guidelines:

1. The college premises should be divided into different blocks.
2. Each Department should be allotted one particular compartment to be cleaned
3. Each HOD should be allotted fixed number of students for their supervision.

Eco Club convener

Principal
T.R.R. Govt. Degree College
KANDUKUR - 523105
Prakasam Dist.

Botany	Political Science
Zoology	History
Chemistry	Economics
Physics	Commerce
Mathematics	WEC
Computer Science	NSS
Hindi	NCC
Urdu	Physical Education
Telugu	
English	

TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
ECO CLUB & DEPARTMENT OF BOTANY

Date: 30.09.2019

CIRCULAR

It is to bring to your notice that as a part of implementing the Green policy of our college, Eco club and Department of Botany are planning for Plantation program on 02.10.2019. So, all the HODs are instructed to inform the staff and their students. The Physical Director of College, NSS and NCC wings will take the lead and implement the program.

HOD Botany
Eco club convener

Principal
T.R.R. Govt. Degree College
KANDUKUR - 523105
Prakasam Dist.

Botany	Political Science
Zoology	History
Chemistry	Economics
Physics	Commerce
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Hindi	NCC
Urdu	Physical Education
Telugu	English

Plantation on October 2nd, 2019



TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
ECO CLUB & DEPARTMENT OF BOTANY

Date: 11.10.2021










STAFF COUNCIL RESOLUTION







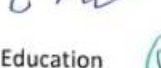


Staff Council meeting was held in the Principals chamber and resolved the following decisions.

1. As a part of implementing the Green policy of our college, the Botany department proposal to take up Organic farming in the new Palm Garden is welcomed and accepted. As per their proposal they wish to produce leafy vegetables and vegetables in the palm garden.
2. It is resolved to take the help of Jillellamudi Venkateswarlu an organic farmer of Venkatadripalem village, Kandukur Mandal in training our students.
3. It is resolved to involve the final BZC students in organic farming.
4. It is resolved to undertake the field trips to Venkatadripalem organic farm, and train the students in land preparation, organic fertilizer, pesticide preparation, sowing, weed management disease management.

The proposal of the Botany Department is appreciated and accepted. The decision to start the work will be initiated after going through a thorough scrutiny of financial implications.


PRINCIPAL
T.R.R. Government Degree College
KANDUKUR - 523105
Prakasam Dist.

Botany & Eco Club 
Zoology 
Chemistry 
Physics 
Mathematics 
Computer Science 
Hindi 
Urdu 
Telugu 

Political Science 
History 
Economics 
Commerce 
WEC 
NSS 
NCC 
Physical Education 
English 

Lecturers involved in the plantation program




TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
DEPARTMENT OF BOTANY




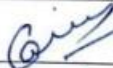

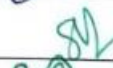


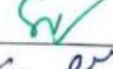





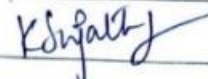

Date: 20.12.2021

CIRCULAR

It is to bring to your notice that as a part of implementing the Green policy of our college, Eco club and Department of Botany are planning for Plantation program on 21.12.2021. So all the HODs are instructed to inform the staff and their students. The Physical Director of College, NSS and NCC wings will take the lead and implement the program.

HOD Botany
Eco club convenor


PRINCIPAL
T.R.R. Govt. Degree College
KANDUKUR - 523105
Prakasam Dist.

Botany		Political Science	
Zoology		History	
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TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
DEPARTMENT OF BOTANY


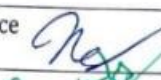

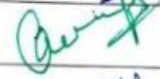

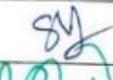
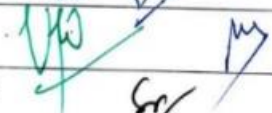

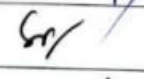
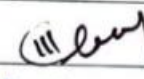


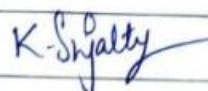

Date: 06.12.2021

CIRCULAR

It is to inform to all the students and staff that as a part of implementing the Green policy of our college, Eco club and Department of Botany are planning for Plantation program on 07.12.2021. So all the HODs are instructed to inform the staff and their students. The Physical Director of College, NSS and NCC wings will take the lead and implement the program.

Eco club convenor


Principal
T.R.R. Govt. Degree College
KANDUKUR - 523103
Prakasam Dist.

Botany		Political Science	
Zoology		History	
Chemistry		Economics	
Physics		Commerce	
Mathematics		WEC	
Computer Science		NSS	
Hindi		NCC	
Urdu		Physical Education	
Telugu		English	



T.R.R GOVERNMENT DEGREE COLLEGE KANDUKUR

ECO CLUB


12.06.2022

CIRCULAR

All the students are hereby informed that there will be a plantation program organized by the Eco club on 13.06.2022 at 4.00 pm in our college. All the students and staff are instructed to attend the program without fail. The physical education department, NSS, and NCC will work in coordination with the Eco club.

Eco Club Convenor


Principal
T.R.R. GOVT. DEGREE COLLEGE
KANDUKUR-523105
S.P.S.R. Nellore District.

CLASS/ GROUP/ YEAR	SIGNATURE OF THE LECTURER		
	I - YEAR	II-YEAR	3- YEAR
BZC			
MPC &MPCS AZC			
B.A (HEP, HET, EEP)			
B.Com (Gen.& CSS			



TRR GOVERNMENT DEGREE COLLEGE KANDUKUR

Department of Botany

19.07.2022

CIRCULAR

All the students are hereby informed that the Botany department is taking up the program on fertilizing the plants with vermicompost prepared by the Zoology department on 20.07.2022 at 4.00 pm in our college. All the students and staff are instructed to attend the program without fail.

Eco Club Convenor

Principal

CLASS/ GROUP/ YEAR	SIGNATURE OF THE LECTURER		
	I - YEAR	II-YEAR	3- YEAR
BZC			
MPC &MPCS			
AZC			
B.A (HEP, HET, EEP)			
B.Com (Gen.& CSc			



T.R.R GOVERNMENT DEGREE COLLEGE KANDUKUR

ECO CLUB

03.08.2022

CIRCULAR

All the students are hereby informed that there will be a plantation program organized by the Eco club on **04.08.2022** at 4.00 pm in our college. All the students and staff are instructed to attend the program without fail. The physical education department, NSS, and NCC will work in coordination with the Eco club.

Eco Club Convenor

Principal
T.R.R. GOVT. DEGREE COLLEGE
KANDUKUR-523105
S.P.S.R. Nelloe District.

CLASS/ GROUP/ YEAR	SIGNATURE OF THE LECTURER		
	1 - YEAR	II-YEAR	3- YEAR
BZC			
MPC &MPCS			
AZC			
B.A (HEP, HET, EEP)			
B.Com (Gen.& CSc)			

ML



Sub Collector Aprajitha Singh participating in college Plantation Program



Kandukur DSP participation in College Plantation programs

MINI AQUATIC PONDS

Mini aquatic ponds were established in the palm garden to conserve aquatic biodiversity. The mini aquatic ponds are made up of cement rings plastered with concrete at the bottom. The diameter of the mini aquatic pond is 3 feet and its depth is 1.5 feet.

The aquatic flora like *Pistia*, *Eichornia*, *Lemna*, *Wolffia* are planted in the mini aquatic ponds. These aquatic ponds not only increased the biodiversity but also increase the beauty of our palm garden.

OUTCOME: measures like establishing mini aquatic ponds increases the bio diversity of the area. These are also useful for botanical studies.



ESTABLISHMENT OF NEW BOTANICAL GARDENS

In our college at present we have 3 Botanical Gardens. Recently Botany Department in coordination with the Physical Education, NCC and NSS have developed two new Botanical Gardens. The new Botanical Gardens are protected by the fence all along its length. There are nearly 100 different plant species in all the three botanical gardens. Fabaceae, Malvaceae and Araceae dominate the genus list. In one of our Botanical Gardens we are practicing the organic farming. The length and width of the second botanical garden is 50 and 55 meters respectively. The length and width of the third botanical garden is 38 and 13 meters respectively. Our first botanical garden measures 31m in length and 24m in width.

FIRST BOTANICAL GARDEN

STATUE OF OUR COLLEGE FOUNDER (THIKKAVARAPU RAMI REDDY) AND FIRST PRINCIPLE (KRISHNA SWAMY) OF THE COLLEGE.



SECOND BOTANICAL GARDEN

BEFORE PLANTATION



AFTER PLANTATION



TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.
ECOCLUB

Date:20.08.2021

RESOLUTION

As a part of implementing the Green policy of our college, the Botany department came up with a proposal to take up the initiation of establishing new Botanical Garden in the backyard of our college. The intention is to increase the green cover through Palm plants. We resolved to start the organic farming in this garden after its completion.. Botany department made a proposal of procuring the plants from the near by nursery in Kandukur. The proposed botanical garden should be protected from cattle and herbivores through fencing which requires funding. The proposal of the Botany Department is appreciated and accepted and the decision to start the work will be initiated after going through the financial implications.


Principal
T.R.R. Govt. Degree College
KANDUKUR - 523105
Prakasam Dist.

Botany & Eco.Club	Political Science
Zoology	History
Chemistry	Economics
Physics	Commerce
Mathematics	WEC
Computer Science	NSS
Hindi	NCC
Urdu	Physical Education
Telugu	English

THIRD BOTANICAL GARDEN (PALM GARDEN)

BEFORE PLANTATION



PALM GARDEN AFTER PLANTATION



