

PROGRAM BOOK FOR
SHORT-TERM INTERNSHIP
(Onsite / Virtual)

Name of the Student: M. Geetha Bhavani

Name of the College: Government Degree clg (MEN) Sri Kalakulam

Registration Number: 3122001051025

Period of Internship: From: 18/08/23 To: 30/09/23

Name & Address of the Intern Organization: Forest office, Sri Kalakulam

Dr. B. V. Anand

University

YEAR

An Internship Report on

Short term Internship Program

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSc (MECS)

Under the Faculty Guideship of

Y. Mani Kumar Sir

(Name of the Faculty Guide)

Department of

Forest

(Name of the College)

Govt. Degree college (MEN)

Submitted by:

M. Geetha Shabini

(Name of the Student)

Reg.No: 2122001051025

Department of

Govt. Degree college (MEN)

(Name of the College)

Instructions to Students

Please read the detailed Guidelines on Internship hosted on the website of AP State Council of Higher Education <https://apsche.ap.gov.in>

1. It is mandatory for all the students to complete 2 months (180 hours) of short-term internship either physically or virtually.
2. Every student should identify the organization for internship in consultation with the College Principal/the authorized person nominated by the Principal.
3. Report to the intern organization as per the schedule given by the College. You must make your own arrangements for transportation to reach the organization.
4. You should maintain punctuality in attending the internship. Daily attendance is compulsory.
5. You are expected to learn about the organization, policies, procedures, and processes by interacting with the people working in the organization and by consulting the supervisor attached to the interns.
6. While you are attending the internship, follow the rules and regulations of the intern organization.
7. While in the intern organization, always wear your College Identity Card.
8. If your College has a prescribed dress as uniform, wear the uniform daily, as you attend to your assigned duties.
9. You will be assigned a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow interns. Post your daily activity done and/or any difficulty you encounter during the internship.
10. Identify five or more learning objectives in consultation with your Faculty Guide. These learning objectives can address:
 - a. Data and Information you are expected to collect about the organization and/or industry.
 - b. Job Skills you are expected to acquire.
 - c. Development of professional competencies that lead to future career success.
11. Practice professional communication skills with team members, co-interns, and your supervisor. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.
12. Be aware of the communication culture in your work environment. Follow up and communicate regularly with your supervisor to provide updates on your progress with work assignments.

13. Never be hesitant to ask questions to make sure you fully understand what you need to do your work and to contribute to the organization.
14. Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.
15. At the end of internship, you shall be evaluated by your Supervisor of the intern organization.
16. There shall also be evaluation at the end of the internship by the Faculty Guide and the Principal.
17. Do not meddle with the instruments/equipment you work with.
18. Ensure that you do not cause any disturbance to the regular activities of the intern organization.
19. Be cordial but not too intimate with the employees of the intern organization and your fellow interns.
20. You should understand that during the internship programme, you are the ambassador of your College, and your behavior during the internship programme is of utmost importance.
21. If you are involved in any discipline related issues, you will be withdrawn from the internship programme immediately and disciplinary action shall be initiated.
22. Do not forget to keep up your family pride and prestige of your College.

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Student's Declaration

I, M. Geetha Bhavani a student of Forest
Program, Reg. No. 2122001051025 of the Department of Govt Degree for (MEN)
College do hereby declare that I have completed the mandatory internship
from 18/08/2023 to 30/09/2023 in Forest Department (Name of
the intern organization) under the Faculty Guideship of
V. Manikumar Sir
M. Geetha Bhavani (Name of the Faculty Guide), Department of
Govt. Degree for (MEN)
(Name of the College)

M. Geetha Bhavani
(Signature and Date)

Official Certification

This is to certify that M Geetha Bhavani (Name of the student) Reg. No. 2122001051025 has completed his/her Internship in Forest Department (Name of the Intern Organization) on short term internship (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSc (MECS) in the Department of Govt. Degree College (Men) (Name of the College).

This is accepted for evaluation.

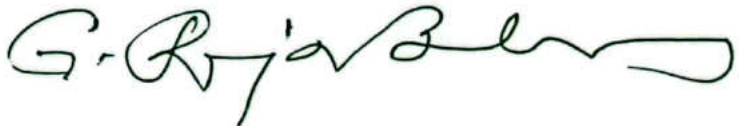

(Signatory with Date and Seal)
Forest Range Officer
SRIKAKULAM

Endorsements

Faculty Guide : 

Head of the Department


Principal
PRINCIPAL
Govt. Degree College (Men)
SRIKAKULAM



Certificate from Intern Organization

This is to certify that M. Geetha Bhavani (Name of the intern)
Reg. No 2122001051025 of Govt Degree College (MEN) (Name of the
College) underwent internship in Forest (Name of the
Intern Organization) from 18/08/2023 to 30/09/2023

The overall performance of the intern during his/her internship is found to be
Satisfactory (Satisfactory/Not Satisfactory).


Authorized Signatory with Date and Seal
Forest Range Officer
SRIKAKULAM

Acknowledgements

Thus Forest department internship report is the result of an and of a way of two months it would not have been possible without the participation assistance of numerous brave and courageous people along the way thus. I have to thank them all.

First and foremost, I would like to give special gratitude to my parents who give me every opportunity to keep my step a head.

I am indebted my gratitude to my classmates and is pecially to our group members with whom I started share my dare days and together we sort out academic and social problem.

I am indebted to my college teachers and the principal are their vision, encouragement and enduring contagious interest in the internship.

Special thanks must be given to the teachers and student of forest department Srikantham for their feedback Love and support with which I achieved skills and developments.

Last and most importantly I would like to all those who made their report possible and become a reality with their kind assistance.

CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

I worked in the Internship in the department of Forest. I visited the place in forest office, Day and night Junction Srikulam. I chose Forest department to know about the forest department and the duties of forest office and importance.

The introduction is very friendly and valuable through this Internship. I got to know about the A.P Forest department. A.P Forest Department is one of the administrative division of Government of Andhra Pradesh. It is headed by the the primary Principal chief conservation of Forest Head of Forest force. the primary Function of this department is Protection. Conservation and management of Forests in the Andhra Pradesh State. The Forest Department is organized in 12 territorial circles and 43 divisions. In addition, one Senior officer of the rank of Deputy conservator of Forests function as planning and extension officer in each district.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

Introduction: - In 1864, the British Raj established the Imperial Forest Department. David Brandis, a German forest officer, was appointed Inspector General of Forests. The Indian Forest Service (IFS) is one of the three All India services of the Government of India. The other two all Indian services are the Indian Administrative Service and the Indian Police Service. It was constituted in the year 1906 under the All Indian Services Act, 1951, by the Government of India.

Mission: - To recognize forests' inherent role in food security and improved livelihoods, manage forests for the full range of ecosystem services as well as protect forests as a solution to climate change.

Mission: -

Conserve and protect forests, wildlife, rivers, and other water resources.

Preserve natural habitats of wildlife.

Preserve rich biodiversity of the state.

Take up afforestation on massive scale.

Provide ecosystem services.

Create awareness about forest and wildlife protection.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

The main role of the forest department of the Government to implement the forest conservation Act the Forest policy, an to increase the Forest area by 33.3 Percent by planting more trees and also protecting forest by engaging local people.

1. The main role of the Forest department of the Government is the Forest conservation act.
2. The forest policy, an aim to increase the forest area by 33.3 Percent by planting more than and also protecting forest by engaging local people.
3. Forest department also survey the forest to know about forest products.
4. Government classified the forest into four categories for better understanding of forest conservation.
5. Government also performs forestry research to better understand how to maintain the ecological balance in forest.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Introduction of my self and know about the internship	Introduction.	
Day -2	we attended the theory class	Basic information of forest department	J. Sreenivasulu
Day -3	we attended for the class about field work	Information about the nurseries	
Day -4	we attend the theory class.	Information about the forest department	
Day -5	we went for the field work.	went to nursery	
Day -6	<u>Sunday</u>	-	-

Forest Section Officer
Sreekurmam

WEEKLY REPORT

WEEK - 1 (From Dt. 21/8/23 to Dt. 26/8/23.)

Objective of the Activity Done:

Detailed Report:

Eco-tourism is a form of tourism marked as Responsible travel to natural areas, conserve the environment and improving the well being of local people.

we visited the famous Sun temple in the world Masdeviti? to know the about the history and to build communication with foreigners who visited the temple.

we know about different beaches, waterfalls in Sri Kukulam range and activities done by the officers to protect the eggs of turtles and tortoise.

we know about the use of reservoirs in water supply. Also we learn about the national and state identities.

we know about the advantages of Eco-tourism as it is useful in collaboration, and maximize the local economic benefits.

J. S. Suresh
Forest Section Officer
Sreekurmam

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ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Theory class about Nursery management	Forest department provides fiber valuable plants to farmers	<i>[Signature]</i>
Day - 2	Theory class about need of plantation	It controls the Pollution.	<i>[Signature]</i>
Day - 3	Theory class about types of plantation	Avenue plantation Coastal belt plantation Urban plantation. Institutional plantation	<i>[Signature]</i>
Day - 4	We visited nursery having mixed plantation.	There are 30,000 Plants are present in this nursery	<i>[Signature]</i>
Day - 5	We visited coastal area to know about coastal belt plantation.	Plants like palmas and casuarina eugenia are planted.	<i>[Signature]</i>
Day - 6	A brief explanation about Slibling bags.	The germinated plants are slibbed from small to large bags.	<i>[Signature]</i>

WEEKLY REPORT
WEEK - 2 (From Dt. 4/9/23 to Dt. 9/9/23)

Objective of the Activity Done:

Detailed Report:

Plant Nursery is an area where plants are grown, kept or maintained for transplanting for use of stocks for budding and grafts and for sale.

We learn about types of beds in nurseries and steps in nursery management. Seed collection, seed germination and preparation of primary bed structure are the measurements should be taken for healthy improvement of plants.

We know about the types of plantation and the necessity of plantation to reduce the pollution and to protect the surrounding humans from harmful diseases.

In shore areas coastal plantation is done. They used to plant, plants like Plume and Casuarina equisetifolia in coastal belt areas which can absorb the salty atmosphere and reduce the cause of diseases to the surrounding villagers.

Awareness programmes are conducted to realise the villages about the effect of planting Almond trees in place of Casuarina equisetifolia plants.



ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	SMC - Soil Moisture conservation theory class	It can minimize the water loss through evaporation	<i>[Signature]</i>
Day - 2	Methods to conserve soil moisture.	art, check dams percolation tanks, gcr's, Rock fill dams.	<i>[Signature]</i>
Day - 3	Measurements of staggered contour trench	It can slowing surface water run off	<i>[Signature]</i>
Day - 4	Measurements of Rock fill dam	They have impermeable core.	<i>[Signature]</i>
Day - 5	Theory class about weeding and mulching	unwanted plants should remove for better yield.	<i>[Signature]</i>
Day - 6	theory class about mulching.	mulching helps to conserve the soil moisture.	<i>[Signature]</i>

WEEKLY REPORT

WEEK - 3 (From Dt...11/9/23. to Dt...16/9/23.)

Objective of the Activity Done:

Detailed Report:

The main objective of the SMC is to minimize the amount of water lost from the soils through evaporation and transpiration or combined.

We know about different measurements taken for the conservation of soil moisture implemented by "wadoo-wadoo" Scheme.

Mulching technique is used to maintain moisture and reduce weed growth, mitigate soil erosion and improve soil-conditions.

Mulch is most commonly made of tree bark, wood chips, Pine straw, moss, grass clipping or leaves.

Weeding process is done to remove the unwanted plants from the crop field. Weeding helps in prevention of soil erosion.


FOREST SECTION OFFICER
SRIKAKULAM

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ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Patrolling activities	Seeing to observe and hence detect illegal extraction activity.	N.S. →
Day - 2	Types of offence	Any offence provided for by law in respect of Forest timber	N.S. →
Day - 3	Protect forest and wild life	Developing protective other such as national at areas wild life some varies to protect	N.S. →
Day - 4	Purpose of Patrolling	To maintain the security of the area and act crime prevention	N.S. →
Day - 5	Punishment for forest officers	Imprisonment for a minimum term of 6 month which may extend to two years or with minimum.	N.S. →
Day - 6	Type of forest in forest act	Reserved forest protected forest and Village Section the Indian Forest act 1927	N.S. →

WEEKLY REPORT
WEEK - 4 (From Dt. 18/9/23 to Dt. 23/9/23.)

Objective of the Activity Done:

Detailed Report:

Power of Forest Officer

Power to issue a search warrant under the code of Criminal Procedure 1898 Power to hold an Industry into Forest Officers and in the case at such Industry to Receive and Record such evidence.

Section 68 Act :-

The State Government through a Notification in the official gazette can empower a Forest Officer to accept force on officer a sum of money by way of compensation for the officer that such person has been suspected of cowardity.

Section 62 and 63 act :

The compounding of offences by a Forest Officer. Excludes officer mentioned in Section 62 and 63 of the act

N. S. →
Forest Beat Officer
KUPPILI

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Human Resources	Indian Council of Forestry researches	
Day - 2	Human use of Resources	The Resident and Training Division Handless	
Day - 3	Human How to Save Resources	Introducing attraction programmes	
Day - 4	Human Resources management	The process of planning and implementation practices for the Forests.	
Day - 5	Human Resource while type	Protecting the Resources UHRD Forests organization.	
Day - 6	How to use and develop the Resources	Improving literacy skills skill development and training	

WEEKLY REPORT
WEEK - 6 (From Dt. 25/9/23 to Dt. 30/9/23)

Objective of the Activity Done:

Detailed Report:

Human Resources Management

It is the strategic and coherent approach to the effective and efficient management of people in a company or organization such that they help their business gain a competitive advantage. It is designed to maximize employee performance in service of an employer's strategic objectives.

Human Resources management is primarily concerned with the management of people within an organization. Formulating policies and systems. HR departments are responsible for overseeing employee benefits, designing employee recruitment, training and development, performance appraisal, and reward management such as managing pay and employee benefit systems.

Ahr

CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

This short term internship is very useful & meaningful to improve our communication skills and to build friendship with the co-students. we have class room facilities in Forest department, we have to attend the office from 10AM to 5PM. They conduct classes and provide not only bookish knowledge but also practical knowledge which helps for easy understanding of our Forest Management.

we conduct awareness programmes in villages to create awareness among villagers about the forest and resources.

our Range officer helped us to gain knowledge which may help in career for future job planings. She build up the motivation to move forward in the forest department.

Group discussions and team work helps us to improve the communication and to enhance the stage fear.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

we learn how to build rock fill dams with forced concrete which can be easily constructed by unskilled labour

we learned about data entry.

we acquire knowledge in nursery management, preparing nursery beds, pre-treatment for seeds, preparation of primary beds, slitting plants into bags.

we acquire knowledge in usage of mist chamber, both houses and cooling systems.

we know about different forest laws and Forest acts that helps to protect the Forest areas.

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,)

As I complete this internship, it helps me to improve myself in communication.

The leadership helps me to improve my oral communication which reduce stage fear

It helps me to improve my writing skills and Grammar skills, as I prepared by own report.

This leads to friendly conversations about the classes. As a leader it helps me to control my anxiety and improves my understanding abilities and I'm getting understood by others.

The group discussions and debates helps how to start and close a conversation with good greetings and self-introductions.

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

I improved by communication abilities as a leader. Due to proper explanation and group discussions it leads to easy acceptance of my team members about my thoughts and decisions. And also they give good ideas than me. I agreed with them as it improves my sportiveness without any personal issues.

Our team mates are always supportive and took me forward in this successful completion of project.

I hope this leading nature helped me to run a good team in job life.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

CAV are increasingly used in forestry for surveillance and mapping.

Scientific forestry is a new development in forestry. It is the practice of conservation and management of forests based upon science. It is the science of forest and plantation technique management.

Transplantation of old trees from one place to another helps to reduce tree loss and improves the greenery.

Student Self Evaluation of the Short-Term Internship

Student Name:	M. Geetha Bhargavi	Registration No:	2122001051025		
Term of Internship:	Short	From:	18/08/2023	To:	30/09/2023
Date of Evaluation:	Forest Department P.u. Sri Kasulam.				
Organization Name & Address:					

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Date:

M. Geetha Bhargavi
Signature of the Student

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Evaluation by the Supervisor of the Intern Organization

Student Name: M. Gertla Bharani	Registration No: 2122CO1057025
Term of Internship: From: 18/8/23	To: 30/9/23
Date of Evaluation:	
Organization Name & Address: Forest Department P.u Sri Kakulam	
Name & Address of the Supervisor with Mobile Number M. Sai Ram.	

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Date:

Signature of the Supervisor
FOREST SUPERVISOR
SRIKAKULAM

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EVALUATION

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Internal Evaluation for Short Term Internship (On-site/Virtual)

Objectives:

- To integrate theory and practice.
- To learn to appreciate work and its function towards the future.
- To develop work habits and attitudes necessary for job success.
- To develop communication, interpersonal and other critical skills in the future job.
- To acquire additional skills required for the world of work.

Assessment Model:

- There shall only be internal evaluation.
- The Faculty Guide assigned is in-charge of the learning activities of the students and for the comprehensive and continuous assessment of the students.
- The assessment is to be conducted for 100 marks.
- The number of credits assigned is 4. Later the marks shall be converted into grades and grade points to include finally in the SGPA and CGPA.
- The weightings shall be:
 - Activity Log 25 marks
 - Internship Evaluation 50marks
 - Oral Presentation 25 marks
- Activity Log is the record of the day-to-day activities. The Activity Log is assessed on an individual basis, thus allowing for individual members within groups to be assessed this way. The assessment will take into consideration the individual student's involvement in the assigned work.
- While evaluating the student's Activity Log, the following shall be considered –
 - a. The individual student's effort and commitment.
 - b. The originality and quality of the work produced by the individual student.
 - c. The student's integration and co-operation with the work assigned.
 - d. The completeness of the Activity Log.
- The Internship Evaluation shall include the following components and based on Weekly Reports and Outcomes Description
 - a. Description of the Work Environment.

- b. Real Time Technical Skills acquired.
- c. Managerial Skills acquired.
- d. Improvement of Communication Skills.
- e. Team Dynamics
- f. Technological Developments recorded.

MARKS STATEMENT
(To be used by the Examiners)

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INTERNAL ASSESSMENT STATEMENT

Name Of the Student: M. Geetha Bhaskar
Programme of Study: Forest Office
Year of Study: 2022 - 2023
Group: BSc (MECS)
Register No/H.T. No: 2122001051025
Name of the College: GDC(MEN) Sri Kakulam.
University: Dr. B.R. Ambedkar

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	
2.	Internship Evaluation	50	
3.	Oral Presentation	25	
	GRAND TOTAL	100	

Date:


Signature of the Faculty Guide

Certified by

Date:

Signature of the Head of the Department/Principal

Seal:

PRINCIPAL
Govt. Degree College (Men)
SRIKAKULAM

Page No:

Name of the student :- M. Geetha Tharuni

Name of the college :- Government
Degree College (MEN)
Srikakulam.

Group :- BSC (MECS)

Hall ticket Number : 2122001051025.

Group - "D".

SMC Works + Weeding and Mulching.

SMC - Soil Moisture Conservation

- The main objective of the SMC is to minimize the amount of water lost from the soils through evaporation and transpiration or combined.
- Preserving soil moisture is important means to maintain the necessary water for agriculture production.
- It also helps minimize irrigation needs of the crops.
- This is especially important in areas where rainwater and ground water resources for irrigation are scarce or decreasing due to climate change or other causes.
- SMC works in the forest area marked for the plantation activity are carried on watershed basis.
- This approach is aimed at enhancing land productivity and to increase the soil moisture availability for a longer period.

There is a variety of methods that can be used to conserve soil moisture.

- Most of these are relatively low cost and complexity approaches.
- Primarily relying on the presence of required materials and technical capacity locally.

Some of the techniques or methods to conserve soil moisture are :-

- * Continuous contour Trenches (CCT's)
- * Straggled Trenches
- * Rock Fill Dams
- * check Dams
- * percolation Tanks etc... These works are implemented under the scheme.

"jówéwó jówéwó".

Continuous contour Trenches :-

→ A continuous contour Trenches is dug at a right angle to the slope and are planned along contour lines. Doing so stops the water flowing downhill in its tracks by the Trenches, and water percolation into the soil below is facilitated.

→ Contour Trenching is an agriculture technique that can be easily applied in arid sub-sahara areas to soil conservation and allow for water. Between two trenches crop can benefit during the growing season from the subsoil water reserve gathered during the rainy season.

* Continuous contour Trenches are built on hills to save rainwater.

Advantages :-

- * The rain water does not immediately run off the hill.
- * water does not evaporate uselessly.
- * CCT's improve agricultural productivity and grazing potential as well as water for livestock and help in drought mitigation.

Staggered contour Trench (SCT) :-

→ It is a trench constructed on the contour line in a staggered manner, (ie straight line) It involves the excavation of trenches of shorter length in a row along the contour with interspace between them.

→ The objective of SCT is slowing surface water run-off and soil erosion from sloping land, and in re-vegetating degraded land.

Measurements of SCT's :-

SCT's are trenches dug in a trapezoid shape with a top width of 1.0 m, bottom width of 1.0 m and a depth of 60 cm.

Advantages :-

- * It is useful in slowing surface water run-off and soil erosion from sloping land, and in re-vegetating degraded land.
- * The rain water does not immediately run off the hill, water does not evaporate uselessly.
- * The water balance is enhanced.

Rock fill dams :-

- These are mainly made from dumped and compacted rock fill, Rock fill dams are permeable. They have an impermeable core or layer on the upstream face of the dam to prevent seepage through the porous core.
- The impermeable parts are usually made of reinforced concrete, asphaltic concrete or clay.

Measurements of Rock fill dam :-

The Rock fill dam with an asphalt concrete, is 1070m long. The core is 0.5m thick at the top, and increase to 1.2m thick at an elevation of 94m.

Advantages :-

- * Rock fill dams are
 - i) cheaper where suitable hard rock is available.
 - ii) Suitable where suitable materials for earth dam are not available.
 - iii) Economical in remote areas where cost of cement is high and suitable where foundation is not suitable for concrete dam.
 - iv) can be constructed with relatively unskilled labour.

Percolation Tanks :-

- Percolation tank is an artificial reservoir which are constructed across a stream submerging a land area with adequate permeability to facilitate sufficient percolation to collect surface water run-off.

→ The main aim of the percolation tanks is to recharge the ground water storage and hence seepage below the seat of the bed is permissible.

Measurements of Percolation Tanks :-

* These are designed for storage capacity of 0.1 to 0.5 MCM.
MCM → millicubic metres. It is necessary to provide a ponded water column generally between 3 to 4.5 M.

Advantages :-

- * Percolation tanks have immense potential to store rain water
- * They help replenish aquifers by allowing water to slowly seep into the ground, enhancing ground water levels and supporting nearby wells and boreholes.

Weeding :-

The unwanted plants that grow in between crops are called weeds. The process of removal of such unwanted plants is called weeding.

- Weeding is important in agriculture because weeds are competitive plants as they reduce the useful crop yield by acquiring space, fertilizers and nutrients from the soil.
- Removing of weed from the agricultural land increases the availability of nutrients for the crops.
- Weeding should be done 2-3 times, whenever weeds start to grow again.

Name of the student :- M. Geetha Bhargavi
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Nurseries and Plantation

* Nursery :-

Plant nursery means an area where plants are grown kept or maintained for transplanting for use of stocks for budding and grafts and for sale.

Types of Nurseries (Beds) :-

(1) Sunken beds :-

This type of bed is useful and prepared during winter season. This type of nursery is prepared 10 to 15 cm downwards from the soil surface.

(2) Raised beds :-

The land is levelled and made free of weeds, stumps, stones, pebbles, etc. This type of bed is prepared about 15 cm high from the ground level.

* Nursery Management :-

① Seed Collection :-

* Production Areas are produced to get proper seeds.

* Seeds are collected from the plants / trees which are around 20-30 years old.

② Seed Germination :-

The process of a seed starting to grow, or the act of causing a seed to start growing is known as seed germination.

* Pollination and fertilization results in the formation of seeds and fruits.

③ Seed Dormancy :-

Prevention of seed from germination is called dormancy. Seed dormancy may be caused by the environment factors and internal factors.

④ Pre-treatment :-

Period of seed germination depends on the seed coat. Pre-treatment done by the following methods.

- (1) Rinse with cold water
- (2) Rinse with hot water
- (3) Rinse with boiling water
- (4) cleaning by soaking and drying.

⑤ Primary Bed Structure :-

In primary structure dig by length 1.0 width 1.0 and depth 1.0 holes. cleaned seeds should be sown in the primary bed. The seeds should be separated and medium seed are planted for better yield. Seed should be planted two times deeper than seed size.

⑥ Cullings :-

Removal of ungrown plants from well growing plants is called culling. It is an expensive process.

First culling :-

The period at which 70-80% of plants are germinated is called peak germinated period, first culling is done during this period.

⑦ Transfer of plants into Bags:-

Two feet tall plants, which are sprouted in primary bed should be transferred to polythene bags. This process should be transferred to polythene done in the shade conditions.

The transferred plants are protected in the presence of mist chambers, both houses and cooling systems.

* plantation:-

① Coastal belt plantation:-

Planting of trees in sea shore areas is called coastal belt plantings. It is useful to reduce the impact caused by cyclones.

Ex:- Casuarina, a eugenia, etc.

② Institutional plantation:-

Azadirachta indica, pongamia glabra, silver oak plants are planted in these regions.

③ Avenue plantation:-

Plantation of trees on road sides, streets and parks is called Avenue plantation.

Ex:- Rose wood, diya Almond, tree, Ashoka etc...

④ Urban plantation:-

Planting trees in urban areas to create green spaces, improve air quality and reduce the heat island effect.

Ex:- Kothamba, divonema, Anduga.

-: Scientific Names :-

1. *Alstonia scholaris* - yedulupala.
2. *Anacardium occidentale* - Jeedimamidi
3. *Anogeissus latifolia* - chiramana
4. *Anthocephalus cadamba* - cadamba
5. *Azadirachta indica* - Neem
6. *Balania variegata* - Devalaunnam
7. *Caluarina equisetifolia* - Saugudu.
8. *Colos nucifera* - coconut
9. *Delonix regia* - yerrathurayi
10. *Eubica officinalis* - Amla
11. *Grevillia robusta* - Silver oak.
12. *Pterocarpus pterocarpus* - Puchethi wrayi.
13. *Pterocarpus santalinus* - Red sandal.
14. *Pongamia glabra* - Karunga
15. *Boswellia serrata* - Andugu.

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Eco - Tourism

(వన్యాచార్య పరిచయం)

Eco tourism :-

Ecotourism typically involves travel to destinations where flora, fauna and cultural heritage are the primary attractions.

* Ecotourism is a form of tourism marketed as "Responsible" travel to natural areas, conserving the environment, and improving the well being of local people.

Forest Department :-

The Department of the State Government dealing with matters relating to conservation and management of forests and wildlife.

* we found components like trees, plants, animals and other living things and also we found abiotic components such as soil, water, air etc....

Forests Temples in Srikakulam :-

1. Arasavalli
2. Sri Kurumam
3. Sri mukhalingam

(1) Arasavalli :-

Arasavalli? Sun temple for Lord Surya. It is located in Arasavalli village in Srikakulam. It is believed that the temple was built in 7th century by King Devendra Varma. It is the one of the oldest Sun temple in India. It is the 2nd Sun temple in the world.

(2) Sri Kurumam :-

It is also as Kurumathaswamy temple. It is a Hindu temple dedicated to Kurma the second avatar of Vishnu. It is located in Kurumam village in Srikakulam district.

National - Identities :-

National Animal - Tiger
National Tree - Banyan
National Bird - Peacock
National Flower - Lotus

State - Identities :-

State Animal - Krishnajiuka
State tree - Neem
State Bird - ~~Red~~ Parrot
State Flower - Jasmine

Advantages of Eco - Tourism :-

- * Ensure sustainability limits on number of tourists allowed.
- * collaborate
- * maximize local Economic benefits
- * Fishing, Biking, camel safari, Birds watching, elephant safari, Jeep safari, Horse safari etc.... are some of the well known Eco-tourism activities.

(3) Srimukhalingam :-

Mukhalingam also known as Srimukhalingam or mukhalingam is a village panchayat in Jalapuri mandal of Srikakulam district.

* Grand festivals and Jathara's were conducted during Mahasivaratri.

* It is popularly known as "Sootha Kasi".

Beach :-

* Beach at Kalingapatnam, Bhavanapadu, Barva, D. Machilam, Kallepalli... etc.

* In these areas Beaches are situated.

Water falls :-

* Water falls situated in Seethampeta village, Uthiguda waterfalls, Dowlajji and Kusemi waterfalls.

Reservoirs :-

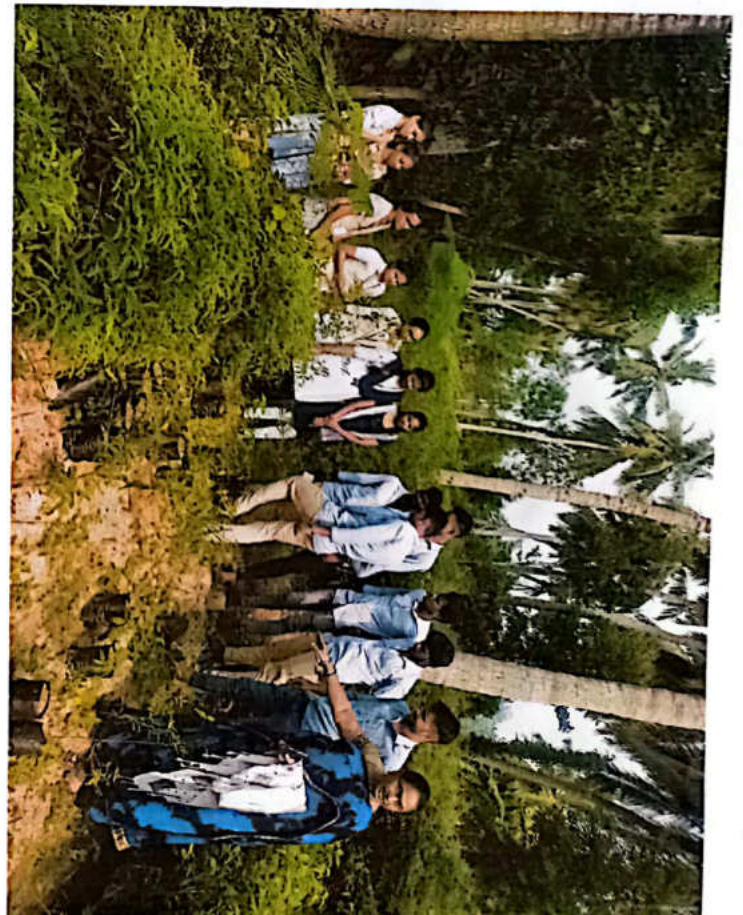
- (1) Gotta Barrage - Hirvaudalau
- (2) Vangava - Madhavalasa
- (3) Sivipuram - Sathlakaviti
- (4) Narayapuram - Barja

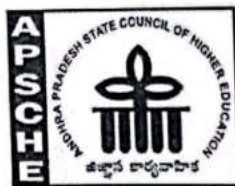
Birds :-

* In this most of the other countries birds are migrated from one country to another.

Ex:- Siberian birds.

→ teilelapuram village - teekali (mandal).





ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

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