

**STUDY ON PLANTS BIODIVERSITY IN MRS.A.V.N. COLLEGE
CAMPUS**

BY

VASUPALLI

DEVI

REGD.NO:720130805265



Estd : 1860

**PROJECT WORK SUBMITTED TO MRS. A.V.N COLLEGE,
AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM FOR
THE PARTIAL FULFILMENT OF DEGREE OF
BACHELOR OF SCIENCE**

2020 – 2023

MRS. A.V.N COLLEGE

VISAKHAPATNAM – 530001
ANDHRA PRADESH



CERTIFICATE

This is to certify that project entitled as “ **STUDY ON PLANTS BIODIVERSITY IN MRS.A.V.N. COLLEGE CAMPUS** ” is bonafide work done by **VASUPALLI DEVI**(Regd.no: 720130805265), B.Sc – C.B.Z student under my guidance. I certify that the project work done by him/her is original and has not been submitted to any other information.

(M.Simhadri Naidu)

PRINCIPAL

PRINCIPAL
MRS. A.V.N. COLLEGE
VISAKHAPATNAM

(L.Naveen)

MENTOR

**Program Book
for
Community Service Project**

Name of the Student: VASUPLLI. DEVI

Name of the College: MYS. A.V.N. COLLEGE

Registration Number: 720130805265

Period of CSP: From: OCT/01 To: DEC 28

Name & Address of the Community/Habitation: MYS. AVN college
plants Biodiversity

Community Service Project Report

Submitted in accordance with the requirement for the degree of

Name of the College: MYS. A.V.N. COLLEGE

Department: BOTANY

Name of the Faculty Guide: L. NAVEEN

Duration of the CSP: From. Dec.1 to. Dec.26

Name of the Student: VASUPILLI. DEVI

Programme of Study STUDY ON PLANT BIODIVERSITY IN MYS. A.V.N COLLEGE
CAMPUS

Year of Study: 2020 - 2023

Register Number: 720130805265

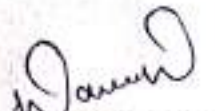
Date of Submission: 20/03/2023

Student's Declaration


I, V. Delle, a student of CBZ Program, Reg. No. 72013080565 of the Department of Botany M.S. A.V.N. College do hereby declare that I have completed the mandatory community service from OCT. 7 to DEC. 28 in (Name of the Community/Habitation) under the Faculty Guideship of L. NAVEN, (Name of the Faculty Guide), Department of Botany..... in M.S. A.V.N. College

(Signature and Date)

Endorsements


Faculty Guide


Head of the Department


Principal
PRINCIPAL
M.S. A.V.N. COLLEGE
VISA KHAPATNAM

Certificate from Official of the Community

This is to certify that P.B.N. Tharavani (Name of the Community Service Volunteer) Reg. No. 780/2020/5265 of MYS. A.V.N. (Name of the College) underwent community service in M.S. A.M.S. College (Name of the Community) from 24/01/20 to 15/02/20.

The overall performance of the Community Service Volunteer during his/her community service is found to be Good (Satisfactory/Good).

P.B.N. Tharavani
(Ward Administrative Secretary)
Authorized Signatory with Date and Seal



ACKNOWLEDGEMENTS

My sincere efforts have made me to accomplish the task of completing this project.

I am highly indebted to the faculty guidance Mr. L. Naveen for his guidance and constant super vision as well as for providing necessary the year of completing csp project your useful advice and suggestions, were very helpful to me during the project completion.

I would like to express my thanks to my colleges in developing the project and people who have well helped me out with their abilities.

CHAPTER 1: EXECUTIVE SUMMARY

The community service report shall have only a one page executive summary. It shall include a brief description of the Community and summary of all the activities done by the student in CSP and five or more learning objectives and outcomes.

The present study "plant Biodiversity in Mrs. A.V.N college" about to list out the flora in Mrs. A.V.N college. which have several medicinal, ornamental and edible properties. Though this Institute rich in such useful flora, most of them didn't recognize them till now. my project was about to list out the flora in this Institute.

The whole college was divided into '8' quadrates of 100x100 metres. The trees and shrubs including several 'Gymno sperms' and 'entending Angiosperms' listed out in a tabular form quadrate wisely using this quadrate method we have identified more than 50 species of plants that include medicinal plants like Azadirachta indica, Toxicaria procumbens Andriographis paniculata etc, several oil plants like Ricinus communis, Terminalia catapa etc, and also several edible plants like cocus nucifera, Terminalia catapa etc.

CHAPTER 2: OVERVIEW OF THE COMMUNITY

- About the Community/Village/Habitation including historical profile of the community/habitation, community diversity, traditions, ethics and values.
- Brief note on Socio-Economic conditions of the Community/Habitation.

Mrs. A.V.N college founded in 1860, is an art and science college in Velakhatnam in the state of Andhra Pradesh, India.

Ankietam Venkata Narasimha Rao, a landlord endowed the amount of Rs one lakh, an 11-acre site and a huge building, besides a building grant of Rs 15,000 in memory of his wife. The college thus came to be known by her name, i.e Mrs. A.V.N college.

Mrs. A.V.N college not only an educational Institute. It is rich in biodiversity i.e, Both plant and animal biodiversity. It contain several kinds of plants herbs, shrubs and trees, most of them are very useful in our daily life that include several properties like, medicinal values, ornamental and other properties. During my project. I have identified nearly 50 plant species that has several medicinal values, ornamental properties and some are also useful flora, most of them didn't recognize them till now. My project was about to list out the flora in this Institute.

CHAPTER 3: COMMUNITY SERVICE PART

Description of the Activities undertaken in the Community during the Community Service Project. This part could end by reflecting on what kind of values, life skills, and technical skills the student acquired.

The whole college was divided into '8' quadrates of 100 x 100 metres. The trees and shrubs including several "Gymno sperm" and Angiosperms" listed out in a tabular form quadrade wisely using this quadrade method we have identified more than 50 species of plants that include medicinal plants like Azadirachta indica, Trichose procumbens, Ambrographes paniculata etc. several oil plants like Ricinus communis, Terminalia catapa etc. and also several edible plants like coccoloba number, Terminalia catapa etc. during this project I have learned the following skills;

values: The plant Biodiversity is are most valuable natural resources that gives medicine wood, food etc we have to conserve it.

life skills: we have learnt we value of natural resources and this skill required to conserve this Biodiversity.

technical skills: during this study I have learnt this skill resources to plant Biodiversity including quadrade Analysis Plant identification etc.

WEEKLY REPORT

WEEK - 1 (From Dt. 01/10/22 to Dt. 07/10/22)

Objective of the Activity Done:

Detailed Report:

visited the study area and divided the area into eight quadrates of 100×100 metres. Identify and tabulated the list and number of plant species present in quadrate one and two.

Identify and tabulated the list and number of plant species present in quadrate the '3' and '4' number of plant species present in quadrate "5" and "6" identify and tabulated the list and number of plant species present in quadrate.

"7" and "8" studied the abundance of plant species in whole campus of MRS. A.V.N COLLEGE using the quadrates.

ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	visited the study area and divided area into "8" quadrates of 100 x 100 m ² meters.	Learned about Quadrat Analysis method.	Dawn D
Day - 2	Identify and tabulated the list and number of plant species present in quadrat one and two.	studied plant Biodiversity quadrates 1 and 2.	Dawn D
Day - 3	Identify and tabulated the list and number of plant species present in quadrates three and four.	studied plant Biodiversity Q - 3 and 4	Dawn D
Day - 4	Identify and tabulated the list and number of plant species present in quadrates five and six.	studied plant Biodiversity Q - 5 and 6.	Dawn D
Day - 5	Identify and tabulated the list and number of plant species present in quadrates seven and eight.	studied plant Biodiversity Q - 7 and 8	Dawn D
Day - 6	studied abundance of plant species in whole campus of Mrs. Avn. college using the quadrates.	learned identification of plants by their characteristics	Dawn D

WEEKLY REPORT

WEEK - 2 (From Dt. 28/10/20 to Dt. 14/10/20)

Objective of the Activity Done:

Detailed Report:

The data obtained 1st and 2nd weeks is analysed. The analysed data is written on the paper in required mannere. The pictures has been collected which were taken during campaign pie - charts and tabular form were prepared for data updation.

Information obtained is updated in the data report. The reported data self-verified once again. It is also described in such useful flora. most of them didn't recognize them till now. my project was about to list out the flora in this institute

The pictures has been collected which were taken during campaign pie - charts and tabular forms were prepared for data updation.

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	The data obtained in 1st week is tabulated and studied	Learned about Biodiversity in the Community Area.	David
Day - 2	using the data and awareness camp has been conducted in the Community Area	Learned about how to make a campaign	David
Day - 3	By the campaign create awareness about the plants available in Community Area.	learned about use of plants in the Community Area.	David
Day - 4	The campaign has been continued and created awareness on value of plants available in the Community Area.	Learned about various threats facing by plants in the Community Area.	David
Day - 5	The campaign has been continued and created awareness about decreasing number of plant species in the Area.	learned about various threats facing by plants in the Community Area.	David
Day - 6	The campaign has been continued and created awareness about protective measures of plants in the area.	learned about protective measures to be taken to conserve plants	David

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	The data obtained 1st and 2nd weeks is analysed	Learned about How to prepare A data Analyser	Dawn
Day - 2	The analysed data is written on the paper in required manner.	Learned about methods of data presentation.	Dawn
Day - 3	The pictures has been collected which were taken during campaign	Learned about methods of data presentation.	Dawn
Day - 4	Pie-charts and Tabular form were prepared for data updation.	Learned about preparation of pie-charts and Tabular form	Dawn
Day - 5	Information obtained is updated in the data report.	Learned about Information updated in the data report.	Dawn
Day - 6	The Reported data is verified once again	Learned about how to prepare and report data Analyser.	Dawn

WEEKLY REPORT

WEEK - 3 (From Dt. 22/10/20 to Dt. 28/10/20)

Objective of the Activity Done:

Detailed Report:

The data obtained 1st and 2nd week is analysed. The analysed data is written on the paper in required manner. The pictures has been collected which were taken during campaign pic-charts and tabular forms were prepared for data updation.

Information obtained is updated in the data Report. The Reported data self verified once again. It is also describe in such useful flora most of them didn't recognize them till now my project was about to list out the flora in this institute.

The pictures has been collected which were taken during campaign pic-charts and tabular forms were prepared for data updation.

CHAPTER 5: OUTCOMES DESCRIPTION

Details of the Socio-Economic Survey of the Village/Habitation. Attach the questionnaire prepared for the survey.

The present study "plant Biodiversity in Mrs. A.V.N college" about to list out the flora in Mrs. A.V.N college which have several medicinal, Ornamental and edible properties. The whole college was divided into '8' @ of 100x100 metres. The trees and shrubs including several "Gymnosperms" and Angiosperms listed out in a tabular form quadrate wisely using this quadrate method we have identified more than 50 species of plants that include medicinal plants like Azadirachta indica, Tectaria procumbens like Ricinus, Commersonia, Terminalia catapa etc. also several edible plants like Cucurbita, Terminalia catapa etc. The remaining plant names, like Azadirachta indica, Terminalia catapa, Anthocephalus kedamba, Phyllanthus Acidus, Ricinus communis, Polyalthia longifolia Cucurbitaceae, Pteris caudata muriculatum, Citrus lemon, Pteridium aquilinum, Jatropha, Cassia fistula, Ficus religiosa.

Report of the mini-project work done in the related subject w.r.t the habitation/village.

A mini-project work in the related subject w.r.t the habitation/village. (For ex., a student of Botany may do a project on Organic Farming or Horticulture or usage of biofertilizers or biopesticides or effect of the inorganic pesticides, etc. A student of Zoology may do a project on Aquaculture practices or animal husbandry or poultry or health and hygiene or Blood group analysis or survey on the Hypertension or survey on the prevalence of diabetes, etc.

The Report shall be limited to 6 pages.

An elucive project report on "plant Biodiversity in Mrs. A.V.N college" about to list out the flora in Mrs. A.V.N college. This project report will help you to learn about meaning of Biodiversity and value of Biodiversity. Biodiversity refers to the variety and variability of all types of microbes, plants on the entire Mrs. AVN college. The value of plant biodiversity is different to define and it is impossible to estimate. The whole college was divided into "8" quadrates of 100 x 100 meters.

During my project I have identified nearly 50 plant species that has several medicinal values. Though this Institute rich on such useful flora, most of them didn't recognize them till now. My project was about to list out ~~the~~ this flora in this Institute.

PLANT BIODIVERSITY IN MRS.A.V.N. COLLEGE CAMPUS

PLANT BOTANICAL NAME	Q ₁	Q ₂	Q ₃	Q ₄	Q ₅	Q ₆	Q ₇	Q ₈
<i>Albizia lebbek</i>	--	--	--	1	1	--	--	--
<i>Alstonia scholaris</i>	--	--	--	--	1	--	1	--
<i>Anthocephalus cadamba</i>	6	2	--	--	--	--	--	--
<i>Annona squamosa</i>	--	2	--	--	--	--	--	--
<i>Azadiracta indica</i>	2	5	6	2	--	--	2	--
<i>Bauhinia purpurea</i>	--	7	--	--	--	--	--	--
<i>Calotropis procera</i>	--	--	--	90	--	--	--	--
<i>Caryota urens</i>	--	--	--	--	--	--	3	--
<i>Cassia fistula</i>	--	--	3	--	--	2	--	2
<i>Citrus limon</i>	--	2	--	--	--	--	--	--
<i>Coccinia cordifolia</i>	--	--	--	54	--	--	--	41
<i>Coccinia graminis</i>	--	--	--	4	--	--	--	--
<i>Cocos nucifera</i>	--	2	--	--	--	--	1	--
<i>Delonix regia</i>	--	--	--	--	5	--	--	--
<i>Euphorbia hirta</i>	30	20	15	8	20	20	17	10
<i>Euphorbia milli</i>	--	--	--	--	2	--	--	--
<i>Euphorbia tirucalli</i>	1	2	--	--	--	--	--	--
<i>Ficus benghalensis</i>	--	--	--	1	--	--	--	2
<i>Ficus religiosa</i>	--	--	--	--	4	--	--	--
<i>Hibiscus rosa-sinensis</i>	--	--	--	--	--	--	1	--
<i>Hymenocallis lytoralis</i>	--	--	--	--	1	--	--	--
<i>Ixora chinensis</i>	--	--	--	--	--	--	10	--
<i>Jatropha curcas</i>	--	1	--	--	--	--	--	--
<i>Leucaena leucocephala</i>	--	--	--	--	8	--	--	--
<i>Mangifera indica</i>	--	--	--	--	1	--	--	--
<i>Mirabilis jalapa</i>	--	--	--	--	--	--	7	--
<i>Morinda tinctoria</i>	1	--	--	--	--	--	--	--
<i>Muntingia calabura</i>	--	--	1	--	2	--	--	--
<i>Phyllanthus acidus</i>	2	1	--	--	--	--	--	--
<i>Phyllanthus amarus</i>	10	12	10	20	10	--	20	--
<i>Phyllanthus emblica</i>	--	2	--	--	2	--	--	--



QUADRATE I



QUADRATE II



QUADRATE III



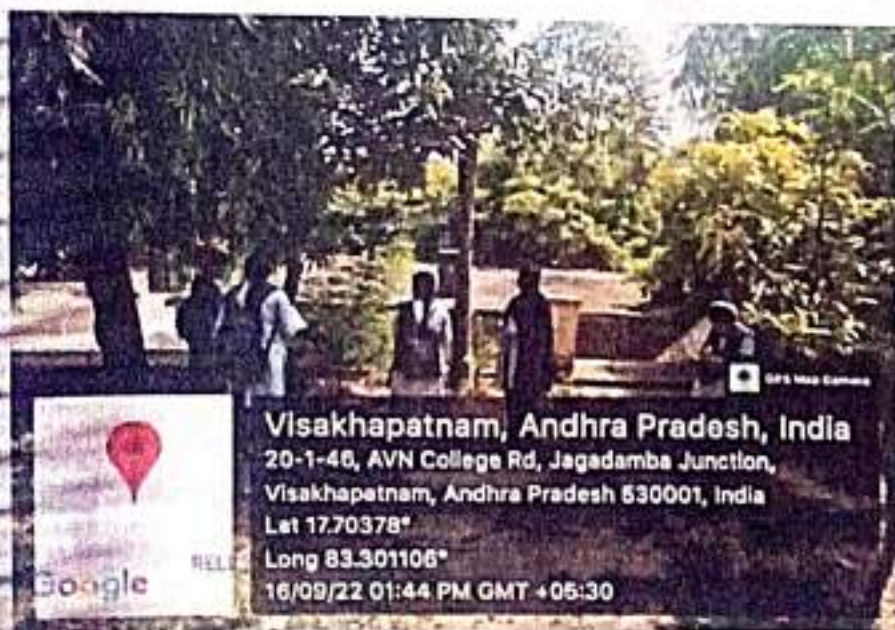
QUADRATE IV



QUADRATE V



QUADRATE VI



QUADRATE VII



QUADRATE VIII