

**SURVEY ON HERBAL PLANTS USED BY PEOPLE AT
SIMHACHALAM AND ADAVIVARAM AREAS**

BY

VUDIKALA SRAVYA

REGD.NO. 720130805268



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

DECLARATION

I, **VUDIKALA SRAVYA**, Student of II B.Sc – C.B.Z, Mrs. A.V.N College, affiliated to Andhra University here by declared that this project entitled “ **Survey on Herbal Plants used by people at Simhachalam and Adavivaram area**” is a genuine work carried out by me under the guidance of **Mr.NAVEEN LANDA**, Lecturer in Botany, Mrs.A.V.N College, Visakhapatnam, Andhra Pradesh. Furthermore, this project work was not submitted to any other institution or University for awarding any Degree.

DATE: 18/11/22

PLACE: Visakhapatnam

V. Sravya

Name & Signature of the student

MRS. A.V.N COLLEGE

VISAKHAPATNAM – 530001 ANDHRA PRADESH



NAVEEN LANDA

Lecturer

Department of Botany

Mobile: 9032040063

Email: proflanda19@gmail.com

CERTIFICATE

This is to certify that project entitled as " Survey on Herbal Plants used by people at Simhachalam and Adavivaram area" is bonafide work done by **VUDIKALA SRAVYA** (Regd.no:720130805268), 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
MRS. A.V.N. COLLEGE
VISAKHAPATNAM

(L.Naveen)

MENTOR

Program Book for Community Service Project

Name of the Student: Vudikala . Sranya

Name of the College: MRS. AVN College

Registration Number: 720130805268

Period of CSP: From: 01/10/22 To: 15/11/22

Name & Address of the Community/Habitation: HERBAL PLANTS IN

V ANDULVARAM, , SIMHACHALAM.

Community Service Project Report

Submitted in accordance with the requirement for the degree of BSc (C.B-Z)

Name of the College: MRS . AVN COLLEGE

Department: BOTANY

Name of the Faculty Guide: L. NAVIEN

Duration of the CSP: From 11/11/22 To 15/11/22

Name of the Student: Vudikala. SRAVYA

Programme of Study HERBAL PLANTS USED BY PEOPLE AT
SIMEIACHALAM

Year of Study: 2022 - 2023

Register Number: 720130805268

Date of Submission:

Student's Declaration

I, V. Sravya, a student of B.S.C. Program, Reg. No. 720130805268 of the Department of BO.TANY. MRS. A.V.N. College do hereby declare that I have completed the mandatory community service from..... toin .S.I.M.H.C.H.A.M (Name of the Community/Habitation) under the Faculty Guideship of L. NAVEEN (Name of the Faculty Guide), Department of BO.TANY. in MRS. A.V.N. College

V. Sravya
(Signature and Date)

Endorsements

Danu
Faculty Guide

L. Sandhosh Sathya
Head of the Department

[Signature]
Principal PRINCIPAL
MRS. A.V.N. COLLEGE
VISAKHAPATNAM

Certificate from Official of the Community

This is to certify that V. Sravya..... (Name of the Community Service Volunteer) Reg. No. 720130805268 of MYS. A.V.N. Name of the College) underwent community service in SIMHACHALAM..... (Name of the Community) from 01.10.12 to 15.10.12.....

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

Authorized Signatory with Date and Seal

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.

Herbal plants are the plants are having medicinal values. The present study is a survey initiated with an aim to identify and document the indigenous knowledge of the plants used to treat great several diseases by The people living at Simhachalam and Adivivaram areas.

Simhachalam and Adivivaram are the Neighbourhoods situated at $17.775649^{\circ}\text{N}$ $83.245355^{\circ}\text{E}$ western part of visakhapatnam city. Andhra Pradesh. India. The areas which falls under the local administrative limits of Greater visakhapatnam Municipal Corporation, is about 15km from the Puaraka Nagar which is city centre. Almost all the people of those areas are well aware of Herbal plants which has obtained from their parents and grand parents.

The study is survey based me and my batch mates meet. 60 members residing at Simhachalam and Adivivaram surveyed the people in that area using questionnaire including list of questions regarding Herbal plants and tabulated the information into a table including the information regarding Botanical Name, local Name of the plant family of the plant, and format of the usage.

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.

Simhachalam and Nadavivaram are the neighborhoods situated at $17.775649^{\circ}\text{N}$ $83.245385^{\circ}\text{E}$ western part of Visalchapatnam City - Andhra Pradesh, India, The area which falls under the local administrative limits of Visalchapatnam.

Municipal Corporation, is about 15 km from the Dwaraka Nagar, which is city centre, almost of all the people of those areas are well aware of herbal plants which was obtained from their parents and grand parents.

This study consists the details of plants and plant parts used to treat several general health problems and format of usage which was obtained the people living in those area. The survey were carried out for a period of seven days. i.e, from August 2022 to August 2022 and gathered the information regarding medicinal properties of nearly 50 plants species were collected.

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 area was divided into 20 houses at Simhachalam and aadarivaram area - The medicinal plants like trees and plants including several "Gymnosperms" and "Angiosperms" listed out in a Tabular form from questionnaire using this method we have identified more than 50 species of medicinal plants that including medicinal plants like Azadirachta indica, Tribulus terrestris, Andropogon paniculatus etc several oil plants like Ricinus communis, Terminalia catappa etc and also several edible plants like Corchorus olivaceus, Terminalia catappa etc

During this project we have learned the following skills.

Values:- The plant Biodiversity is one most valuable natural resource the given medicine wood, food etc.

Life Skills:- We have learnt the value of natural resource and this skills required to conserve this Biodiversity.

Technical Skills:- During the study I have learnt this skills required to study the plants Biodiversity including Herbal plants at Simhachalam area identified medicinal values.

ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	Leo visited the study area and selected houses randomly for survey	learnt about plant vegetable in the study area	David
Day - 2	visited the study area and selected houses randomly for survey.	learnt about plants vegetation in the study area	David
Day - 3	visited 5 houses from selected and made survey to get information	learnt about few plants and their medicinal values.	David
Day - 4	visited another 5 houses from selected and collected information by survey	learnt about few plants and their medicinal values.	David
Day - 5	visited another 5 houses from selected and collected information by survey	learnt about another few plants and their medicinal values.	David
Day - 6	visited the remaining 5 houses from selected and collected information by survey	learnt about another few plants and their medicinal values.	David

WEEKLY REPORT

WEEK - 1 (From Dt. 11/10/2020 to Dt. 17/10/2020)

Objective of the Activity Done:

Detailed Report:

In first week we selected the particular area to survey visited the study area and selected houses randomly for survey. In the study area we selected nearly 20 houses. In the campaign time we collect the information from people how they know about medicinal plants and their values. The first three days we used to know about the plant knowing families and we made survey information. From the fourth day visited another houses from selected and collected information by survey. We learnt about few plants and their medicinal values. In fifth day another 5 houses visited from selected collected information by survey we know another few plants and their medicinal values. In sixth day again visited 5 houses from selected area collected information.

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 first week is summarised and studied	learnt about various plants their medicinal values	Dawn
Day - 2	using the data awareness camp has been conducted in the study area.	learnt how to conduct a awareness campaign	Dawn
Day - 3	By the campaign created awareness about the medicinal plants available in the study area	learnt about medicinal plants available in the study area	Dawn
Day - 4	The campaign has been continued and created awareness about value of medicinal plants	learnt about necessity of conservation of medicinal plants	Dawn
Day - 5	The campaign has been continued and created awareness about necessity of conservation of medicinal plants	learnt about various protective methods used to conserve plant Biodiversity.	Dawn
Day - 6	The campaign has been continued and created awareness about - protective measures of medicinal plants	learnt about various protective methods used to conserve plant Biodiversity.	Dawn

WEEKLY REPORT

WEEK - 2 (From Dt. 12/12/20 to Dt. 14/12/20)

Objective of the Activity Done:

Detailed Report:

In second week the data obtained in first week is summarised and studied. We learned about various plants and their medicinal values. In second day using the data awareness camp has been conducted in the study area and how to conduct an awareness campaign. In third day by the campaign created awareness about the medicinal plants available in the study area. And we know medicinal plants available in the study area. In fourth day the campaign has been continued and created awareness of about medicinal plants and necessity of conservation of medicinal plants. In fifth day the campaign has been continued and created awareness about necessity of conservation of medicinal plants. And various protective methods used to conserve plants biodiversity. In the sixth day the campaign has been continued and created awareness about protective measures of medicinal plants. learnt about the various protective methods used to conserve plant biodiversity. And the necessity of conservation of medicinal plants.

ACTIVITY LOG FOR THE THIRD WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	The data obtained in 1st and 2nd week is analysed	Learn about how to prepare a data analysis	Dawn
Day - 2	The analysed data is rewritten on the paper in required manner	learn about methods of data presentation.	Dawn
Day - 3	The picture has been collected which were taken during campaign	learn about picturisation of campaign	Dawn
Day - 4	pie-charts and tabular forms were prepared for data obtained	learn about preparation of pie-charts and tabular forms	Dawn
Day - 5	Information obtained is updated in the data report	learn about updation of information in data report.	Dawn
Day - 6	The reported data is re-verified once again	learn about how to prepare and report analysed data.	Dawn

WEEKLY REPORT

WEEK - 3 (From Dt. 15/11/22 to Dt. 21/11/22)

Objective of the Activity Done:

Detailed Report:

In the third week the data obtained in the first and second week is analyzed and we learn about how to prepare a data analysis. In the second day the data analyzed is written on the paper in required manner and learn about the methods of data presentation. In third were the pictures has been collected which we taken during campaign. Some people know the medicinal values of plants and they used regularly (or) occasionally. And some people also know the medicinal values in plant and they don't know how to use. After knowing the information picturisation is done. In fourth day pie-charts and tabular form we prepared for data obtained. learn about the preparation of pie-chart and tabular forms. In fifth day information obtained is updated in the data report and updation of information in data report. In sixth day the reported data is reverified once again and know how to prepare and report analysed data.

ACTIVITY LOG FOR THE FOURTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	The community project report program book were downloaded and printouts has been taken	learnt about pattern of project program book	Dawn
Day - 2	The data obtained at prepared literature were entered in the program book.	learnt about preparation of literature for project	Dawn
Day - 3	The picture taken during project were printed out and fixed in the program book.	learnt about picturisation.	Dawn
Day - 4	The summarised report of all weeks of the project were prepared	learnt about the summarisation of project	Dawn
Day - 5	The program book papers are arranged in order and verified once again	learnt about the sequences steps involved in the program book preparation.	Dawn
Day - 6	The program book has given for binding work	learnt about the sequences steps involved in the program book preparation	Dawn

WEEKLY REPORT

WEEK - 4 (From Dt. 23/10/22 to Dt. 28/10/22)

Objective of the Activity Done:

Detailed Report:

In fourth week the data project report program book were downloaded and print outs has been taken and know the pattern of project program book. In second day the data obtained at prepared literature were entered in the program book and know about prepare of literature for project. In third day the pictures taken during project were printed out, and fixed in the program book and done picturisation. In fourth the day summarised. involved in program book preparation. In sixth day program book has given for binding store work.

CHAPTER 5: OUTCOMES DESCRIPTION

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

The present study "Herbal plants" at Simhathalam area above the medicinal plants are at Simhathalam area. which have several medicinal, ornamental and edible properties. The whole area divided into houses along the surrounding the plants. and medicinal plants several gymnosperm and Angiosperms. Among the data including medicinal plants like *Azadirachta indica*, *Tridax procumbens*, like *Ricinus communis*, *Terminalia catappa* etc. and also several edible plants like *Cassia siamea*, *Terminalia catappa* etc. The remaining plants names like *Azadirachta indica*, *Terminalia catappa*, *Anthocephalus pedunculus*, *Ticchoria*, *polyalthia longifolia*, *Coccoloba tinctoria*, *polyalthia longifolia*, *Couroupou*, *pitrearpous murupem*, *Citrus lemon*, *pradum*, *Oryzalla*, *mursupem*, *Citrus lemon*, *pradum*, *Oryzalla*, *Tateopha*, *Cussea ferifolia*, *Ficus Religiosa*

Describe the problems you have identified in the community

Through Simbachalam area is rich in plant Biodiversity which have several beneficial values most of the people in the campus dont know their value. Due to this they are refusing to protect them due to improper conservation in plant Biodiversity reducing gradually with period of time. The people in this study area looking several valuable plants due to this improper conservation valuable plants due to this improve conservation Simbachalam aadivaram area about to list out the medicinal. Due to insufficient and edible properties. Due to insufficient knowledge - the people in the area are refusing to conserve to plants like Alovera, Lonita, Calatropica etc which have very useful value like desolvance of kidney stone to treat several skin diseases etc. Due to insufficient knowledge of value of plants and their conservation methods of they are losing such valuable plants.

Short-term and long term action plan for possible solutions for the problems identified and that could be recommended to the concerned authorities for implementation.

Since the plants in the studied area are very valuable and their number is being reduced there by a necessity to conserve these plants by. In site conservation methods like caring them, providing facilities for species etc. The number and abundance of plants species present in the abundance area are to be identified and if possible in the decreased plants species should be replanted. The plant species should be replaced. The plant species should be studied area care should be provided which suitable conditions for their growth and should be protected from threats. If possible the plants species should be provided. With name plants botanical and common names their family etc. for student reference, it gives and their identification and also generation to protect the plant necessary for future generation to protect the plant species which a such a wide range of useful value.

Description of the Community awareness programme/s conducted w.r.t the problems and their outcomes.

The whole Simhalchalam area was divided into "20" families and the Adaviram area including surrounded herbal plants present in surround area including trees and structure. Several "Crymæperms and Angra sperm listed out in a tabular form and type a questionnaire. Wisely using this quadrata method we have identified more than around species of plants that include medicinal plants like *Azadirachta indica*, *Tridax procumbens*, *Andropogon paniculata* etc. several oil plants like *Ricinus communis*, *Terminalia calapa* etc. and also several nectar, studied rich in plants biodiversity which have several beneficial values must have people in the campus don't know their value due to this they are using plant biodiversity. By the campaigns created awareness in the people of the study that area, the campaign has contented and created awareness about protective measure of plants in the area.

LIST OF MEDICINAL PLANTS AND THEIR USE

S.no	BOTANICAL NAME	LOCAL NAME	FAMILY	TO TREAT	FORMAT
1	<i>Ocimum sanctum</i>	తులసి	Lamiaceae		
2	<i>Zingiber officinale</i>	అల్లం	Zingiberaceae		
3	<i>Hibiscus rosa</i>	మందారం	Malvaceae		
4	<i>Azadirachta indica</i>	వేప	Meliaceae		
5	<i>Aloe vera</i>	కలబంద	Solanaceae		
6	<i>Trigonella foenum</i>	మెంతులు	Fabaceae		
7	<i>Curcuma longa</i>	పసుపు	Zingiberaceae		
8	<i>Eclipta alba</i>	గుంట కలగర	Asteraceae		
9	<i>Andrographis paniculata</i>	నేల వేము	Acanthaceae		
10	<i>Cissus quadrangularis</i>	నల్లేరు	Vitaceae		
11	<i>Psidium guajava</i>	జామ	Myrtaceae		
12	<i>Carica papaya</i>	బొప్పాయి	Caricaceae		
13	<i>Syzygium cumini</i>	నేరేడు	Myrtaceae		
14	<i>Aerva lanata</i>	కొండ పిండి	Amaranthaceae		
15	<i>Piper nigrum</i>	మిరియాలు	Piperaceae		

16	<i>Cuminum cyminum</i>	జీలకర్ర	Apiaceae		
17	<i>Murraya koenigii</i>	కరివేపాకు	Rutaceae		
18	<i>Syzygium aromaticum</i>	లవంగం	Myrtaceae		
19	<i>Brassica nigra</i>	ఆవాలు	Brassicaceae		
20	<i>Eleusine coracana</i>	రాగులు	Poaceae		
21	<i>Terminalia chebula</i>	కరక్కాయ	Myrtaceae		
22	<i>Acalypha indica</i>	కుప్పింట	Euphorbiaceae		
23	<i>Ocimum basilicum</i>	సబ్బాలు	Lamiaceae		
24	<i>Senegalia rugata</i>	సీకాకాయ	Fabaceae		
25	<i>Camellia sinensis</i>	తేయాకు	Theaceae		
26	<i>Phyllanthus emblica</i>	కొండ ఉసిరి	Phyllanthaceae		
27	<i>Phyllanthus acidus</i>	పుల్ల ఉసిరి	Phyllanthaceae		
28	<i>Ricinus communis</i>	ఆముదం	Euphorbiaceae		
29	<i>Cocos nucifera</i>	కొబ్బరి	Aracaceae		
30	<i>Coriandrum sativum</i>	కొత్తిమీర	Apiaceae		
31	<i>Mentha spicata</i>	పుదీనా	Lamiaceae		
32	<i>Moringa oleifera</i>	ములమ చెట్టు	Moringaceae		
33	<i>Santalum album</i>	గందం			
34	<i>Micrococca mercurialis</i>	మురిపిండ	Euphorbiaceae		
35	<i>Alium cepa</i>	ఉల్లి	Lilliaceae		

36	<i>Alium sativum</i>	వెల్లుల్లి	Lilliaceae		
37	<i>Citrus limon</i>	నిమ్మ	Rutaceae		
38	<i>Lawsonia inermis</i>	గోరింటాకు	Lythraceae		
39	<i>Momordica charantia</i>	కాకరకాయ	Cucurbitaceae		
40	<i>Phyllanthus amarua</i>	నేల ఉసిరి	Phyllanthaceae		



Pictures during awareness campaign