

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

**BY**

**VEPADA SANDYA**

**REGD.NO:: 720130805266**



**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, **VEPADA SANDYA**, 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: 01/10/22

PLACE: Visakhapatnam

V. SANDYA

V. Sandhya

Name & Signature of the student

# MRS. A.V.N COLLEGE

VISAKHAPATNAM – 530001

ANDHRA PRADESH

NAVEEN LANDA

Lecturer

Department of Botany



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## 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 **VEPADA SANDHYA** (Regd.no:720130805266), 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.Simhadhri Naidu )

PRINCIPAL

PRINCIPAL  
Mrs. A.V.N. COLLEGE  
VISAKHAPATNAM

( L.Naveen )

MENTOR

Program Book  
for  
Community Service Project

Name of the Student: Vepada Sandhya

Name of the College: MRS. AVN COLLEGE

Registration Number: 720130805266

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

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

V AADAVILKARAM, SIMHACHALAM.

# Community Service Project Report

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

Name of the College: MRS. ALINI COLLEGE

Department: BOTANY

Name of the Faculty Guide: L. NAVEEN

Duration of the CSP: From 11/10/2020 To 11/11/2020

Name of the Student: VEPADA SANDHYA

Programme of Study HERBAL PLANTS USED BY PEOPLE AT SIMHACHALAM

Year of Study: 2020 - 2023 -

Register Number: 720130805266

Date of Submission:

## Student's Declaration

I, V.SANDHYA, a student of B.S.C Program, Reg. No. 720130805266f the Department of BOTANY, Mrs.: AVN. College do hereby declare that I have completed the mandatory community service from..... to .....in IMHACHALAM. (Name of the Community/Habitation) under the Faculty Guidship of L.NAVEEN, (Name of the Faculty Guide), Department of BOTANY.....in Mrs.: AVN..... College

*V. Sandhya*  
(Signature and Date)

### Endorsements

*[Signature]*  
Faculty Guide

*L. Banthala Satya*  
Head of the Department BOTANY

*[Signature]*  
Principal

PRINCIPAL  
MRS. A.V.N. COLLEGE  
VISAKHAPATNAM

### Certificate from Official of the Community

This is to certify that V. SANDHYA (Name of the Community Service Volunteer) Reg. No. 720130805266 of Misc: AVN (Name of the College) underwent community service in SIMHACHALAM (Name of the Community) from 01/10/22 to 15/11/22.

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 several diseases by the people living at Simhachalam and Adavivaram area. Simhachalam and Adavivaram are the Neighbourhoods situated at  $17.775649^{\circ}N$   $83.245335^{\circ}E$  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 Dwaraka Nagar. which is city center. Almost all the people of those areas are well aware of Herbal plants which has obtained from their garden plants. parents and grand parents.

The study is survey based me and my batchmate meet. 60 members residing at Simhachalam and Adavivaram 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.

Simbachalam and Adavivaram are the Neighbourhoods situated at  $17.775649^{\circ}N$   $83.245335^{\circ}E$  Western Part of Visakhapatnam City, Andhra Pradesh, India. The areas which falls under the local administrative limits of Visakhapatnam.

Municipal corporation, is about 15km 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 areas. 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 <sup>area</sup> ~~collage~~ was divided into 20 hours at simhachalam and aadavivanam area. The medicinal plants like trees and plants including several "Gymnosperms" and "Angiosperms" listed out in a Tabular form. Questionary using this method we we have identified more than 50 species of medicinal plants that including medicinal plants like *Adiantum*, *Indica*, *Tridax procumbens*, *Andropogonis Rabi-*  
*tulata* etc, several oil plants like *Ricinus Communis*, *Terminalia catapa* etc, and also several edible plants like *Cous nucifer*, *Terminalia Catapa* etc.

During this project we have learned the following skills.

Values: The plant Biodiversity is one most valuable natural resources that gives medicine wood, food etc.

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

Technical Skills: During the study I have learnt the 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.	Learned about plant vegetation in the study area.	Dawn
Day - 2	Visited the study area and selected houses randomly for survey.	Learned about plants vegetation in the study area.	Dawn
Day - 3	Visited 5 houses from selected and made survey to get information.	Learned about few plants and their medicinal values.	Dawn
Day - 4	Visited another 5 houses from selected and collected information by survey.	Learned about few plants and their medicinal values.	Dawn
Day - 5	Visited another 5 houses from selected and collected information by survey.	Learned about another few plants and their medicinal values.	Dawn
Day - 6	Visited the remaining 5 houses from selected and collected information by survey.	Learned about another few plants and their medicinal values.	Dawn

## WEEKLY REPORT

WEEK - 1 (From Dt. 21/10/20..... to Dt. 27/10/20.....)

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. learnt about the plant vegetation in the study area. We selected nearly 20 houses. In the campaign time we collect the information from people how they know about medical 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.	Learned about various plants & their medicinal values.	Danu
Day - 2	Using the data awareness camp has been conducted in the study area.	Learned how to conduct a awareness campaign.	Danu
Day - 3	By the campaign created awareness about the medicinal plants available in the study area.	Learned about medicinal plants available in the study area.	Danu
Day - 4	The campaign has been continued and created awareness about value of medicinal plants.	Learned about necessity of conservation of medicinal plants.	Danu
Day - 5	The campaign has been continued and created awareness about necessity of conservation of medicinal plants.	Learned about various protective methods used to conserve plant Biodiversity.	Danu
Day - 6	The campaign has been continued and created awareness about protective measures of medicinal plants.	Learned about various protective methods used to conserve plant Biodiversity.	Danu

## WEEKLY REPORT

WEEK - 2 (From Dt. 08/10/22.... to Dt. 14/10/22....)

Objective of the Activity Done:

Detailed Report:

In second week the data obtained in first week is summarised and studied. We learnt 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 a 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 plant 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 1 <sup>st</sup> and 2 <sup>nd</sup> weeks is analysed.	Learnt about how to prepare a data analysis.	Daman
Day - 2	The analysed data is written on the paper in required manner.	Learnt about methods of data presentation.	Daman
Day - 3	The pictures has been collected which were taken during campaign.	Learnt about picturisation of Campaign.	Daman
Day - 4	pic-charts and tabular forms were prepared for data updation.	Learnt about preparation of pic-charts and tabular forms.	Daman
Day - 5	Information obtain is updated in the data report.	Learnt about updation of information in data report.	Daman
Day - 6	The reported data is reverified once again.	Learnt about how to prepare and report analysed data.	Daman

## WEEKLY REPORT

WEEK - 3 (From Dt. 16/10/22 to Dt. 21/10/22)

Objective of the Activity Done:

Detailed Report:

In the third week the data obtained in the first and second weeks is analysed. And we learnt about how to prepare a data Analysis. In the second day the data analysed written on the paper in required manner and learnt about the methods of data presentation. In third day the pictures has been collected which were 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 showing the information picturisation is done. In fourth day pie-charts and tabular forms we prepared for data obtained. learnt about the preparation of pie-charts 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 printout has been taken.	Learned about pattern of project program book.	David
Day - 2	The data obtained at prepared literature were entered in the program book.	Learned about preparation of literature for project.	David
Day - 3	The pictures taken during project were printed out, and fixed in the program book.	Learned about picturisation.	David
Day - 4	The summarised report of all weeks of the project were prepared.	Learned about the Summarisation of project.	David
Day - 5	The program book papers are arranged in order and verified once again.	Learned about the sequential steps involved in the program book preparation.	David
Day - 6	The program book has given for binding work.		David

## WEEKLY REPORT

WEEK - 4 (From Dt. 1.11/2022 to Dt. 7.11/2022)

Objective of the Activity Done:

Detailed Report:

In fourth week the data project report program book were downloaded and print out 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 preparation of literature for project. In third day the pictures taken during project were printed out and fixed in the program book and done presentation. In fourth day the summarised of all weeks of the project were prepared. learnt about the summarisation of project. In fifth day the program book prepare and arranged in order and verified once again. learnt about the sequence steps involved in the program book preparation. In sixth day the program book has given for binding 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 Simbachalam area about the medicinal plants are at Simbachalam area. Which have several medicinal, ornamental and edible properties. The whole area was divided into houses along the surroundings. The plants and medicinal plants several gymnosperms and Angiosperms. Using the data we have identified more than 50 species of plants including medicinal plants like *Azadirachta indica*, *Tournefortia procumbens* like *Ricinus communis*, *Terminalia calapa* etc. And also several edible plants like *Coccoloba*, *Terminalia calapa* etc. The remaining plant names like *Azadirachta indica*, *Terminalia calapa*, *Anthocephalus kedamba*, *Phyllanthus acidus*, *Ricinus communis murida*, *Ficosteria*, *Polyalthia longifolia*, *Coccoloba*, *Polyalthia longifolia*, *Coccoloba*, *Phyllanthus muricatus*, *Citrus lemon*, *Prunum*, *Cyrtalla*, *Jatropha*, *Cucurbita pepo*, *Ficus religiosa*.

Describe the problems you have identified in the community

Through Simhachalam area is rich in plants Biodiversity which have several beneficial values most of the people in the Campus don't know their values. Due to this they are refusing to protect them due to improper conservation the plant Biodiversity reducing gradually with period of time. The people in this study area loosing several valuable plants due to this improper conservation. The present study " Medicinal plants in Simhachalam adaviraram area about to list out the medicinal plants, Ornamental and edible properties. Due to Unsuccessful knowledge the people in the Area are refusing to conserve the plants and letted several useful plants species like Aloe vera, Sarata, Calotropis, etc. which have very useful values like diuretic of kidney stones, to treat several skin diseases etc. Due to insufficient knowledge of values of plants and their conservation methods if they are loosing 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 is a necessity to conserve these plants by in site conservation methods like caring them, providing facilities for their growth and planting new plant species etc. The number and abundance of plants species present in the studied area are to be identified and if possible if the decreased plant species should be replanted. The plant species should be replanted. The plant species present in the studied area are should be provided with suitable conditions for their growth and should be protected from threats. If possible the plant species should be provide with name plant species their Botanical and common names, their family etc. for student reference, it gives knowledge to students about plant species and their identification and also their uses. This is necessary for future regeneration to protect the plant species with a such a wide range of useful values.

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

The whole Simbachalam area was divided into "00" families. And the Madaviram area including scrubby herbal plants present in around area. Including trees and shrubs several "Gymnosperms" and Angio Sperms" listed out in a tabular form and type a questionnaire wisely using this quadrat methods we have identified more than around species of plants that include medicinal plants like *Azadirachta indica*, *Tournefortia procumbens* *Andropogon paniculata* etc, several oil plants like *Pisonia indica*, *Terminalia catappa* etc. and also several edible plants like *Cassia* also several species, studied rich in plant Biodiversity which have several beneficial values must have people in the campus don't know their values. Due to this they are using refusing to protect them. Due to losing plant Biodiversity. By the campaign created awareness in the people of the study area on valuable of plants available in that area. The campaign has continued and created awareness about protective measures 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>	టొప్పాయి	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