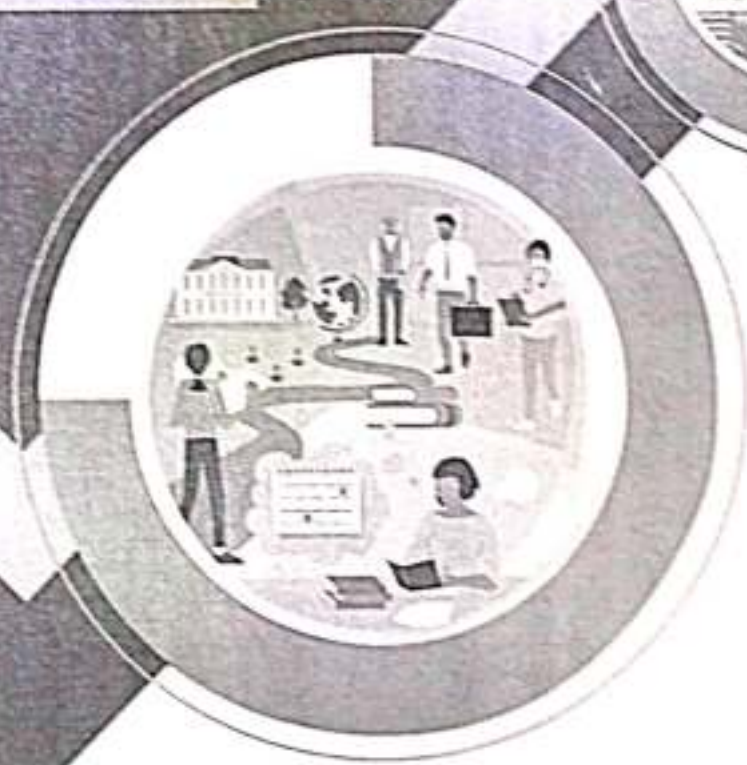


Model Program Book
**COMMUNITY
SERVICE
PROJECT**



Designed & Developed by



**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

**SURVEY ON WATER POLLUTION BY PROPLE
AT VISAKHAPATNAM PORT AREA**

By

SURAPATI.RAJU

RGD NO: 720130805075



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, SURAPATI RAJU, Student of II B.Sc – M.P.C, Mrs.A.V.N College, affiliated to Andhra University here by declared that this project entitled "Survey on water Pollution used by people at N.T.R Colony and Port Area" is a genuine work carried out by me under the guidance of Mr.SAGAR sir, Lecturer in physics, Mrs.A.V.N College, Visakhapatnam, Andhra Pradesh.

Further more, this project work was not submitted to any other institution or university for awarding any degree.

DATE:

PLACE: VISAKHAPATNAM

Signature of the student

A handwritten signature in blue ink, appearing to read 'S. Raju', with a horizontal line extending to the right.

Mrs. A.V.N College



Estd : 1860

Visakhapatnam – 530001

Andhra Pradesh

CERTIFICATE

This is to certify that project entitled as "Survey on water pollution at Peyindhorapeta near by N.T.R colony" is bonafide work done by **S.RAJU** (Regd.no: 720130805075), B.Sc – M.P.C 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.

Mrs. A.V.N. COLLEGE
VISAKHAPATNAM

(M.Simhadhri Naidu)

PRINCIPAL

(Mr. SAGAR)

(B.VINEETHA)

MENTOR

PROGRAM BOOK FOR COMMUNITY SERVICE PROJECT

Name of the Student: *Surajati Raju*

Name of the College: *Mrs. A.V.N College*

Registration Number: *720120805075*

Period of CSP: *from 12/7/2022 to 12/11/2022*

Name & Address of the Community / Institution

ANDHRA

University

YEAR

Community Service Project Report

Submitted in accordance with the requirement for the degree of.. B.Sc..

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

Department: chemistry

Name of the Faculty Guide: P. Krishna Kumar

Duration of the CSP: From 12/9/2022 To 12/11/2022

Name of the Student: Surpreeti Raju

Programme of Study: WATER POLLUTION

Year of Study: 2020-2023

Register Number: 726180805075


Date of Submission:

Student's Declaration

I, S. Rajeev, a student of M.P.C Program,
Reg. No. 720130805075 of the Department of chemistry,
Mrs. S. A.V.N. College College do hereby declare that I have completed
the mandatory community service from 12/9/2022 to 12/11/2022 in
port area (Name of the Community/Habitation) under the Faculty
Guideship of P. Kirthana Lakshmi, (Name of the Faculty Guide), Department
of chemistry in College

(Signature and Date)

Endorsements


Faculty Guide


Head **PRINCIPAL**

Mrs. A.V.N. COLLEGE

VISAKHAPATNAM

Principal

Certificate from Official of the Community

This is to certify that B. S. S. Deji (Name of the Community Service Volunteer) Reg. No 720180805075 of M. R. A. V. N College (Name of the College) underwent community service in port area (Name of the Community) from 12/9/2022 to 12/11/2022. The overall performance of the Community Service Volunteer during his/her community service is found to be _____ (Satisfactory/Good).

Authorized Signatory with Date and Seal

Acknowledgements

It is really a matter of pleasure for me to get an opportunity to thank all the persons who contributed directly or indirectly for the successful completion of the project report. A study on water pollution

Also I am thankful to my faculty guide

From M.V.S A.V.M College, Vankhapet, for being a source of support during this training period.

Contents

Water pollution is the contamination of water sources by substances which make the water unstable for drinking, cooking, cleaning, swimming, and other activities.

Pollutants include chemicals, trash, bacteria and parasites. All forms of pollution eventually make their way to water.

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 "water pollution" in N.S.R about to last out port by Visakhapatnam, which have several types of water pollution are there Industrial sites wastes of water would be major contribution to water pollution and also another causes include to water pollution

The whole colony was divided into "70" graduates of 700x400 meters. The surrounding untreated waste water directly contributes. chlorophenol, typhoid, fever and viral virus.

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.

N.T.R Colony is located in Vasabhatnam district in the state of Andhra Pradesh. Fresh water pollution is any chemical, physical change in the quality of water that has harmful effect of water pollution, water pollution, such as oxygenated manure waste mine drainage, modern, washing powders and they chemical pollution ground water pollution.

Nutrient pollution which includes nitrates phosphates is leading types of contamination in fresh water.

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.

In this area water pollution degrades the quality of the water in the water bodies. many diseases can spread through waste water. Cause disease of fever malaria water with increase in the amount of organic waste in water bacteria cause the oxidizable oxygen

Surface water and ground water are both important sources for community water supply needs

waste water directly contributes cholera typhoid fever, for water pollution causes some diseases

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 into colony four divisions	learned about water pollution types	
Day -2	Identify and tabulated the list of home members	studied types of pollution wastages	
Day -3	Identify and tabulated the number of members the line 1 and 2.	we locate the storage of shortage water bodies	
Day -4	Identify and tabulated the colony in line 3 & 4	we observed note of water bodies - pollution	
Day -5	Identify and the numbers list of 5th line	studied water pollution of causes	
Day -6	Studied the abundance of water pollution in whole area of N.P.R. colony	learned identification of water pollution	

WEEKLY REPORT
WEEK - 1 (From Dt. 12/1/22 to Dt. 18/1/22)







Objective of the Activity Done:

Detailed Report:

The waste from house holds factories or agricultural lands gets discharged into rivers, our lakes. This waste can either be in the form of liquid waste garbage or sewage. The harmful chemical oozing out of this waste can damage aquatic life.

Not just the aquatic life, even when the humans and of up drinking polluted water, they make themselves vulnerable to various life threatening illness like hepatitis, cholera, typhoid and many other water-borne diseases.

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 water pollution in the community area.	
Day-2	Using the data and awareness camp has been conducted in the community.	learned about how to make a campaign.	
Day-3	By the campaign creative awareness about the water pollution.	learned about causes of water pollution in area.	
Day-4	The campaign has been continued and created awareness about increasing water pollution in area.	learned about various threats facing by pollution in the community.	
Day-5	The campaign has been continued and created awareness about increasing water pollution in area.	learned about various threats facing by pollution in community area.	
Day-6	The campaign has been continued and created awareness about various measures of water pollution in the area.	learned about various measures to be taken to reduce water pollution.	

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

The pollution happens when water following down streams gets contaminated at different points. A river may get polluted by sewage and industrial effluents - its waste water goes in the oceans rivers etc:-

In the fact water especially fresh water is one of the most important elements in the world. However with increasing levels of water pollution,

The oxygen levels in polluted water lower. This causes the death of several organisms. Drinking water should be safe for consumption. Water is required in the body and depends on several factors including maintaining health.

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 1st and 2nd weeks in analysed	learned about how to prepare a data analysis	<u>Ram</u>
Day - 2	The analysed data is written on-the paper in required manner	learned about methods of data presentation	<u>Ram</u>
Day - 3	The pictures has been collected which were taken during campaign	learned about methods of data presentation	<u>Ram</u>
Day - 4	The charts and tabulated forms were prepared	learned about information systems in the data request	<u>Ram</u>
Day - 5	The information obtained in compiled in the data report	learned about preparation of tabular forms.	<u>Ram</u>
Day - 6	The reported data self verified once again	learned about how-to prepare and report data analysed.	<u>Ram</u>

WEEKLY REPORT
WEEK - 3 (From Dt. 27/10/22... to Dt. 02/11/22)

Objective of the Activity Done:







Detailed Report:

Water pollution is the cause of our (condisciplained) action and irresponsibility. Humans are only creating problems that consequently water is essential to our body.

If came such sickness and diseases that will body effect our health let us not destroy it nor pollute it. we need and we should help some are our mother nature.

The pollution happens when water following down streams get contained at different point- water not only our throat but also plays a critical role in keeping us healthy.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	The community project report programme books were downloaded and print out has been	people in several years using minerals to drink	
Day - 2	The data obtained and required literature were control in the program book	facilities should be created	
Day - 3	The picture take during project were printed and bind in the program book.	Awareness should be created in N.T.R Colony	
Day - 4	The pictures taken during projects were printed and fixed in the program book.	people are in N.T.R colony are using filter	
Day - 5	The program book papers are arranged in order and verified once again	people are suffering with diseases due to drinking water	
Day - 6	The program book has generator binding role work	people are affortable to drink muntable water	

WEEKLY REPORT

WEEK - 4 (From DL.18/10/21 to DL.25/10/21)

Objective of the Activity Done:

Detailed Report:

Ground water it is a source of a water that is the land surface it is accessible by wells tube wells and hand pumps

Surface water This type of surface is found on the surface of the earth like ponds rivers, etc —

Rain water It is the major source of water from rain. Chlorine and chloramine are the major used in public water systems

Safe and readily available drinking water is key to public health. Community water systems and water safety plans are important ways to ensure the health of community

CHAPTER 5: OUTCOMES DESCRIPTION

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

Oxygen - Depletion Pollution :-

Another consequence of algal blooms is their consumption of oxygen supplies. This means that those species which depends upon oxygen to survive are killed off while anaerobic ones thrive. Some anaerobic micro organisms are capable of producing ammonia sulphide and other harmful toxins, which can make the water even more dangerous to animal and humans too --

Surface water pollution

Referring to all water sources above ground such as rivers lakes, seas and oceans surface water pollution can occur both naturally, accidentally and intentionally.

Describe the problems you have identified in the community

- * N.T.R Colony is rich in water resources have several benefits. Values most of the people in the area don't know their values.
- * Due to this they are refusing to protect them.
- * The people in this study are losing several valuable resources contaminated due to this improper conservation.
- * Due to insufficient knowledge the people in the area are refusing to conserve the plants and lost our pure water sources.
- * In this area of N.T.R colony people doesn't know the value of water.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Few people are drinking mineral water in shivalayam	people in M.T.R Colony preferring mineral water	Ans
Day - 2	Some peoples are recieving the municipal water	Drinking municipal water in their area	Ans
Day - 3	many peoples are sffortble to drink the ground water	They are sffortble to drink the ground water	Ans
Day - 4	Some people are suffering with joint pains by Cause of drinking water	Drinking polluted water	Ans
Day - 5	Many peoples are going to drink roof water facilities in M.T.R colony	Good facilities are should be created	Ans
Day - 6	many peoples are getting the water from out side due to water pollution.	Awarenes should be created here M.T.R Colony.	Ans

WEEKLY REPORT
WEEK - 5 (From Dt 26/10/21 to Dt 1/11/21...)

Objective of the Activity Done:







Detailed Report:

Water pollution is the cause of our undisciplined action and irresponsibility. We humans are only creating problems that can bequeathing water is essential to our body.

If cause such sickness and diseases that will body effect our health. Let us not destroy it - pollute it. We need and we should help some are our mother nature.

The pollution happens when water flowing down streams not contaminated at different point water not only our thirst but also plays a critical role in keeping us healthy.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Few people are drinking mineral water in Sivakayam	people in A.T.R Colony are getting mineral water	
Day -2	Some peoples are rejecting the municipal water	drinking water in their area	
Day -3	Many peoples are off credible to drink the ground water	they are affable to drink. The ground water	
Day -4	Some peoples are suffering root with joint pairs was drinking water	drinking polluted water	
Day -5	many peoples are facing root water facilities in A.T.R Colony	Good facilities are should be created	
Day -6	many people are getting the water from due to water pollution.	Awareness should be created here A.T.R Colony	

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	Few people are drinking natural water in Sivakayam	people in N.T.R Colony purifying mineral water	(Signature)
Day-2	Some peoples are receiving the municipal water	potable water in their area	(Signature)
Day-3	Many peoples are off credible to drink the ground water	they are affable to drink. The ground water	(Signature)
Day-4	Some peoples are suffering part with joint pain was drinking water	drinking polluted water	(Signature)
Day-5	many peoples are facing non-water facilities in N.T.R Colony	Good facilities are should be created	(Signature)
Day-6	many people are getting the water from due to water pollution.	awareness should be created here N.T.R Colony	(Signature)

WEEKLY REPORT
WEEK - 6 (From Dt. 3/01/22 to Dt. 9/01/22)

Objective of the Activity Done:

Detailed Report:

Water pollution is the cause of our undisciplined action and irresponsibility we humans are only creating problems that can sequentially water is essential to our body.

If cause such sickness and diseases that will body affect our health let us not destroy it nor pollute it. we need and we should help some are our mother nature.

The pollution happens when water following down streams get contaminated at different point water not only our thirst but also plays a critical role in keeping us healthy.

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 water pollution in the studied area are high level and their quantity is being shortage there is a necessity to conserve those type of conserving the water sources

- * pick up litter and throw it away in garbage can
- * blow or sweep fertilizer take onto the gates if it gets onto paved area don't put fertilizer on the grass right before it rains. The chemicals will wash into storm drains and water ways
- * wash our vehicle or out door equipment where it can flow to ground or gravel area instead of a street
- * much or compost grass or yard waste

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

The whole colony was facing the problems of water pollution those people affected of these pollution side effects like polio, and Kuntings tyroid, etc. Some of the people are having calcium deficiency and iron deficiency problem, childrens and adults are also facing health issues for water pollution of drinking water.

The solution of these problem one and only awareness about water importance and hence to pollution resources, and how to save our water bodies.

Report of the mini-project work done in the related subject with the habitations village.

A mini-project work in the related subject with the habitations village like ex. a student of Botany may do a project on a type of farming or Horticulture or usage of bio-pesticides or decomposers or effect of the fungicide, pesticides etc. A student of Zoology may do a project on Agrostology 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 8-10 pages.

Water Pollution

Water pollution is the contamination of water in water bodies such as rivers, oceans, lakes and streams, this means that one or more substance have built up in water to extent of causing problems to people, animals and plants.

So whether or not water is considered to be polluted will depends on what that water was go to be used for.

Causes of water pollution

There are numerous causes of water pollution. The main ones are listed below.

Types of Sources

1. point source :

* It is directly to be to influence there pollutant travels directly from source to water

* point source are easy to regulate

* The main source of water pollution are as follows

* Community waste water, include discharges from houses commercial and incultural establishments connects to public sewage system

2. Industrial wastes The industrial discharge

several inorganic and organic pollution which may have lightly toxic to the living beings,

2. Agricultural sources

* Fertilizers contain major plant nutrients as nitrogen phosphorus and potassium

* excess fertilizers so many reach the ground water by leaching or may be mixed with surface water of rivers, lakes and ponds by runoff and drainage

* pesticides include, insecticides, fungicides, herbicides, nematodes, rodenticides and soil nematocides. They contain a wide range of chemicals such as chlorinated hydrocarbons.

4. Underground water pollution

* In India at many places. The ground water is threatened with contamination due to seepage from industrial and municipal waste to and effluents sewage chemicals and agricultural run off.

5. Marine pollution

* Oceans are the ultimate sink of all natural and man made pollutants.

* Rivers discharge their pollutants into the sea. The sewage and garbage of coastal cities are also dumped into the sea.

6. Garbage & plastics are non-biodegradable materials. Plastic clog water bodies and contaminate water.

7. Urbanization & Colonization is a key factor in increasing the amounts of water pollution.

8. dumping solid waste :- Humans after carelessly dump their trash in the sand near rivers
9. Oil spills :- Accidental oil spills have devastating effect on seas
10. Dissolved solid waste :- Human polluting gases in their air can dissolve into salt and fresh water and pollute it,

Control measures,

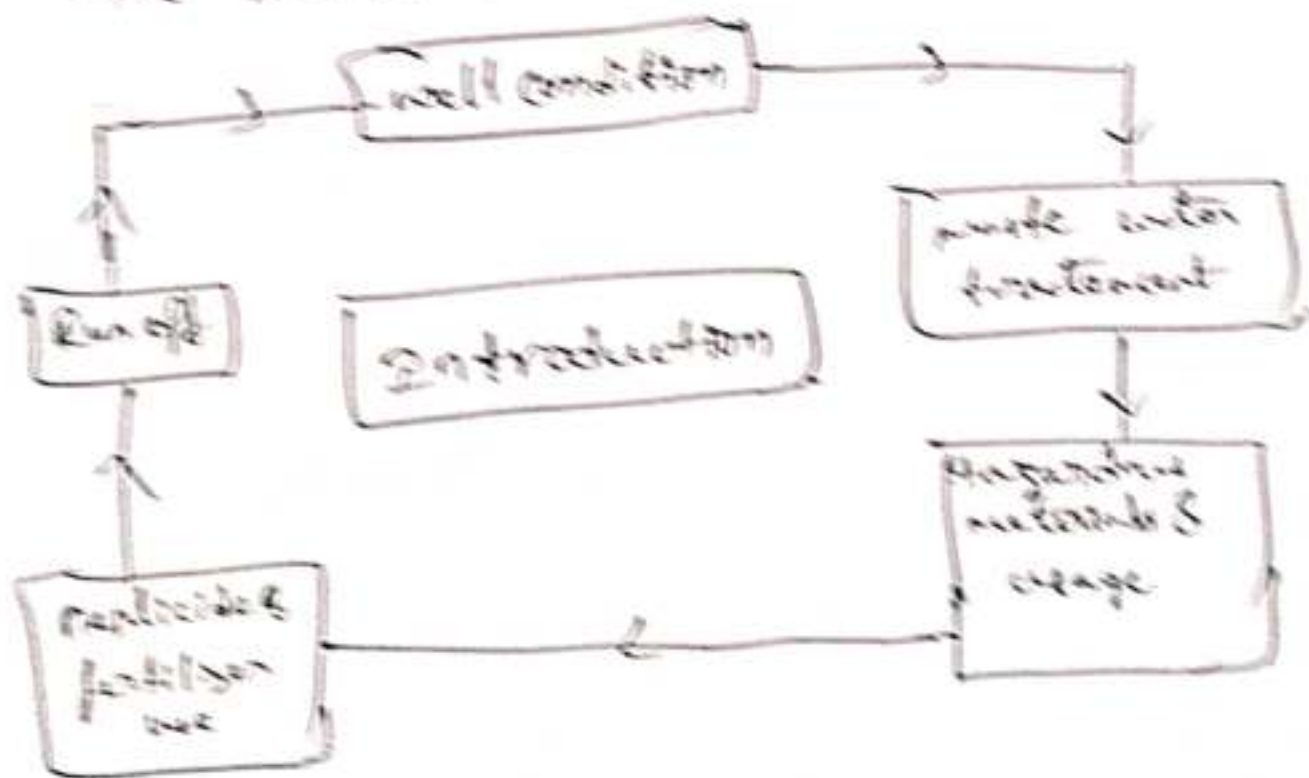
- * Repairment purifiers & Recycles
 - * Treatment of sewage water and the industrial effluents should be done before releasing it water bodies
 - * Hot water should be cooled before release from the power plants
 - * Domestic cleaning in tanks streams and rivers which supply drinking water should be prohibited
- Ground water pollution :-

Any Addition of undesirable substance to ground water caused by human activities is considered to be contamination it has after been assumed that ^{Page No:} contaminants left on or under the ground will stay here.

CHARACTERIZATION AND CONCLUSIONS OF THE MINI PROJECT

Point 1 - Ground water pollution

- 1. The study on ground water contamination by heavy metal pollution associated with human activities.
- 2. Heavy metal content concentration in water supply in the district system, hand pump and well.
- 3. Heavy metal content, water table improvement and quality of water table depth.



Student Self-Evaluation for the Community Service Project

Student Name: **BAP SURAPATI RAJU**

Registration No: **720131805075**

Period of CSP: From: To:

Date of Evaluation:

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

S. Raju

Signature of the Student

Date:

Evaluation by the Person in-charge in the Community/Habitation

Student Name: *S. Raju*

Registration No: *720130805075*

Period of CSP: From: To:

Date of Evaluation:

Name of the Person in-charge:

Address with mobile number:

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
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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

PHOTOS & VIDEO LINKS





GPS Map Camera
Visakhapatnam, Andhra Pradesh, India
M8W2+V9H, Jalaripeta, Port Area, Visakhapatnam, Andhra Pradesh 530001, India
Lat 17.897478
Long 83.301837
07/03/23 02:14 PM GMT +05:30



GPS Map Camera
Visakhapatnam, Andhra Pradesh, India
M8W2+V9H, Jalaripeta, Port Area, Visakhapatnam, Andhra Pradesh 530001, India
Lat 17.897478
Long 83.301837
07/03/23 02:25 PM GMT +05:30

INTERNAL ASSESSMENT STATEMENT

Name Of the Student: *Surekshi Raju*
Programme of Study: *water pollution*
Year of Study: *2021-2023*
Group: *BSc (C.P.C)*
Register No/H.T. No: *720130805075*
Name of the College: *Mrs A.V.N College.*
University: *Andhra University.*

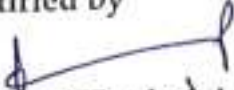
Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	20	
2.	Community Service Project Implementation	30	
3.	Mini Project Work	25	
4.	Oral Presentation	25	
	GRAND TOTAL	100	

Date:


Signature of the Faculty Guide

Date:

Seal:

Certified by

Signature of the Head of the Department/Principal
PRINCIPAL
Mrs. A.V.N. COLLEGE
V.SAKHAPATNAM