

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 USED BY PEOPLE AND PORT
AREA*

BY

BAIREDDY SURESH

REGD.NO:: 720130805008



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

BAIREDDY SURESH, Student of BSc- M.P.C, Mrs. A.V.N College, affiliated to Andhra University here by declared that this project entitled " Survey on Screening report of WATER POLLUTION at PORT area" is a genuine work carried out by me under the guidance of Mrs.P.KRISHNA KUMARI lecturer in Chemistry, 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:

PLACE: Visakhapatnam

Name & Signature of the student

B. Suresh
B. Suresh

MRS. A.V.N COLLEGE





Estd :1860 VISAKHAPATNAM - 530001

ANDHRA PRADESH

CERTIFICATE

This is to certify that project entitled as " Survey of screening report on Water pollution at Port area" is Bonfide work done by BAIREDDY SURESH (Regd.no:720130805008), BSc- 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.


(M. Simhadri Nadiu)
PRINCIPAL
MRS. A.V.N. COLLEGE
VISAKHAPATNAM
PRINCIPAL


(P. KRISHNA KUMARI)
P. KRISHNA KUMARI
HOD IN CHEMISTRY
DEPARTMENT OF CHEMISTRY
MRS. A.V.N. COLLEGE
VISAKHAPATNAM-530001
MENTOR

PROGRAM BOOK FOR COMMUNITY SERVICE PROJECT

Name of the Student: BAIREDDY SURESH

Name of the College: M.V.S A.V.N College

Registration Number: 720130805008

Period of CSP: From: 12/9/2022 To: 12/11/2022

Name & Address of the Community / Habitation :

ANDHRA University

YEAR

Community Service Project Report

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

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

Department: Chemistry

Name of the Faculty Guide: P. Krishna Kumari

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

Name of the Student: BAIREDDY SORESH

Programme of Study: WATER POLLUTION

Year of Study: 2020 - 2023

Register Number: 720130805008

Date of Submission:

Student's Declaration

I, BAIREDDY SORESH, a student of M.P.C Program,
Reg. No. 72030805008 of the Department of Chemistry,
Mrs. 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. Krishna Kumari, (Name of the Faculty Guide), Department
of Chemistry in College

B. Suresh
(Signature and Date)

Endorsements

P. KRISHNA KUMARI
HOD IN CHEMISTRY
DEPARTMENT OF CHEMISTRY
Faculty Guide
MRS. A.V.N. COLLEGE
VISAKHAPATNAM-530002

P. KRISHNA KUMARI
Head of the Department
HOD IN CHEMISTRY
DEPARTMENT OF CHEMISTRY
MRS. A.V.N. COLLEGE
VISAKHAPATNAM-530002
Principal

PRINCIPAL
MRS. A.V.N. COLLEGE
VISAKHAPATNAM

Certificate from Official of the Community

This is to certify that BAIREDDY SURESH (Name of the Community Service Volunteer) Reg. No 720130805008 of M.V.S. A.V.N. College (Name of the College) underwent community service in Port enoa (Name of the Community) from 12/8/2022 to 12/11/22. 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 Mrs. A.M.N college, Visakhapatnam, for being a source of support during this training period.

B. Suresh

720130805008

Contents

Water pollution is the contamination of water sources by substance which make the water unusable 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 NTR about to list out port by Visakhapatnam. which have several types of waste pollutions are there. Industrial sites, wastes of water. World are major contribution to water pollution and also another causes include to water pollution.

The whole colony was divided into '70' quadrates of 700x400 meters. The surroundings untreated waste water directly contributes cholera, 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 visakhapatnam district in the state of Andhra Pradesh, India.

Water pollution is any chemical, physical change in the quality of water that was harmful. Effect of water pollution. Water pollution sources are Oxygenated mandit waste mine drainage, modern, washing powders and they chemical pollution ground water pollution.

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

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 5 th line	studied water pollution of causes	
Day - 6	Studied the abundance of water pollution in whole are of NTR colony	learned identification of water pollution	

WEEKLY REPORT

WEEK - 1 (From Dt. 12-09-2022 to Dt. 18-09-22)







Objective of the Activity Done:

Detailed Report:

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

Not just the aquatic life, even when the humans and animals drink 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 date and awareness comp 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 on value of pollution	learned about various threads facing by pollution of community area	
Day -5	The campaign has been continued and created awareness about increasing water pollution area	learned about various Threats facing by pollution in community area	
Day -6	The campaign has been continued and created awareness about procedure measures of plants in area	learned about Protection measure be taken to research of water pollution	

WEEKLY REPORT

WEEK - 2 (From Dt. 27-07-22 to Dt. 28-07-22)

Objective of the Activity Done:







Detailed Report:

The pollution happen when water following down streams get contaminated at different points. A river may get polluted by sewage and industrial effluents 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 is lower. This causes the death of several organisms. drinking water should be safe by suspension 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 1 st and 2 nd weeks is analysed.	learned about how to prepare a data analysis.	
Day -2	The analysed data is written on the paper in required manner	learned about methods of data Presentation	
Day -3	The pictures has been collected which were taken during Campaign	learned about Methods of data Presentation.	
Day -4	pie charts and tabulated forms were prepared.	learned about information updated in the data request	
Day -5	The information obtained in updated in the data report.	learned about preparation of tabular forms	
Day -6	The reported data self verified once again	learned about how to prepare and report data analysed	

WEEKLY REPORT

WEEK - 3 (From Dt. 7.10.22 to Dt. 13.10.22)

Objective of the Activity Done:







Detailed Report:

Water pollution is the cause of our
undisciplined action and irresponsibility.
Humans are only creating problems that con-
sequently water is essential to our body

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

The pollution happens when water
following down sentences get contained at
different point water not only our thirst
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 book were downloaded and print out has been	people in several years using minerals to drink	
Day -2	The data obtained and prepared literature were central in the programme book	facilities should be created	
Day -3	The picture take during project were printed and bind in the programme book	Awariness should be created in NTR colony	
Day -4	The pictures taken during project were printed and fixed in the programme book	People are in NTR colony are using filter	
Day -5	The programme book papers are arranged in order and verified once again	people are suffering with diseases due to drinking water	
Day -6	The programme book has generator binding sole book	People are affordable to drink municipal water	

WEEKLY REPORT

WEEK - 4 (From Dt. ¹⁹⁻¹⁰⁻²² to Dt. ²⁵⁻¹⁰⁻²²)

Objective of the Activity Done:

Detailed Report:







Ground water is a source of water that is under the land surface. It is accessible by wells, tube wells and hand pumps.

Surface water :- This type of source 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.

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 NTR Colony purifying mineral water	
Day -2	Some people are receiving the municipal water	Drinking municipal water in their area	
Day -3	Many people are Effortable to drink the ground water	They are afforta-ble to drink the ground water	
Day -4	Some people are suffering with joint pains by cause of drinking water	Drinking polluting water	
Day -5	Many people are going to drink poor water facilities in NTR colony	Good facilities are should be created	
Day -6	Many people are getting the water from outside due to water pollution	Awareness should be created here NTR colony	

WEEKLY REPORT
WEEK - 5 (From Dt. ²⁷⁻¹⁰⁻²² to Dt. ⁵⁻¹¹⁻²²)

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.

It causes such sickness and diseases that will badly affect our health. Let us not destroy it or pollute it. We need and we should help save our mother nature.

The pollution happens when water flowing down streams not contaminated at different points. Water not only sustains 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 Shivalayam	Peoples in NTR colony purifying mineral water	
Day -2	Some people are receiving municipal water.	Drinking water in their area	
Day -3	Many people are irradible to drink the ground water	They are affortable to drink the ground water	
Day -4	Some people are suffering pool with joint-pains was drinking water	Drinking polluter water	
Day -5	Many people are facing poor water facilities in NTR 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 NTR colony	

WEEKLY REPORT
WEEK - 6 (From Dt. 8-11-22 to Dt. 15-11-22)

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 frequently 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.

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 depend upon oxygen to survive are killed off while anaerobic ones thrive. Some anaerobic microorganisms are capable of producing ammonia, sulphide and other harmful toxins, which can make the water even more dangerous to animals & humans too.

Surface water pollution :-

Referring to all water pollutions 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 costed our pure water sources.
- * In the area of N.T.R colony peoples doesn't know the value of water.

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 grass if it gets onto paved area. Don't put fertilizer on the grass rich before it rains. The chemicals will wash into storm drains and water ways
- * Wash over vehicles or outdoor equipment where it can flow to ground or grassy area instead of a street.
- * Muck 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 problem of water pollution. Those people effected of these pollution side effects like polio and vomiting, typhoid etc. Some of the people painting 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 afraid resources, and how to some ower water bodies.

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 8-10 pages.

Water pollution :-

Water pollution is the contamination of water bodies such as rivers, oceans, lakes and swamps. This means that one or more substance have built up in water to extent of causing problems to people, animals, 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 reasons 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 follow.
- * community waste water, include discharges from houses, commercial and industrial establishments connects to public sewage system.

2. Industrial waste: The industrial discharge several inorganic and organic pollution which may have highly toxic to the living beings.

3. Agricultural sources:

- * Fertilizers contain major plant nutrients such as nitrogen phosphorous and potassium.
- * Excess fertilizers so many reach the ground water by leaching & may be mixed with surface water of rivers, lakes and pond by runoff and drainage.

* pesticides include insecticides, fungicides, herbicides, nematodes, rodenticides and soil fumigants.

The 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 runoff:

5. Marine pollutions:-

* 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, mass plastic clog water bodies and contaminate water.

7. Urbanisation:- urbanisation is a key factor in increasing the amounts of water pollution

8. pumping solid waste: Humans after carelessly dump their brush in the seawater 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 +

* Separation 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 lakes, streams, rivers, which supply drinking water should be prohibited.

Ground water pollution:-

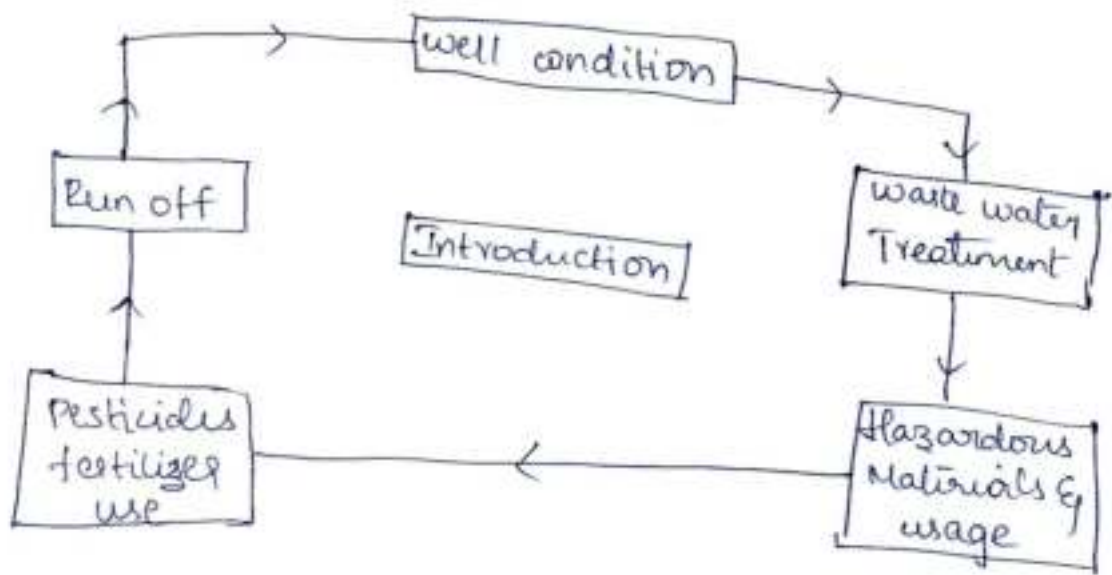
Any addition of undesirable substance to ground water caused by human activities is considered to be contamination. It has after been assumed that contaminants left on or under the ground will stay here

CHAPTER 6: RECOMMENDATIONS AND CONCLUSIONS OF THE MINI PROJECT

Source of ground water pollution:-

Most concern over ground water contamination has centered on pollution associated with human activities

- * Human around ground water contamination has centered on to waste deposited system land disposal of solid.
- * Municipal waste water, waste water impoundments land spreading of sludge brine disposed from the Petroleum industries.
- * Mine waste, deep-well herbicides and animal waste are agriculture source of ground.



Student Self-Evaluation for the Community Service Project

Student Name: BAIREDDY SURESH

Registration No: 720130805008

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

Date:


Signature of the Student

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

Student Name: B. Sujesh

Registration No: 720130805008

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
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

Page No:



GPS Map Camera



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N8X3+H9R, Jalariyeta, Port Area,
Visakhapatnam, Andhra Pradesh 530001, India
Lat 17.699089°
Long 83.303999°
07/03/23 02:08 PM GMT +05:30

Google



GPS Map Camera



Visakhapatnam, Andhra Pradesh, India
N8X3+H9R, Jalariyeta, Port Area,
Visakhapatnam, Andhra Pradesh 530001, India
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Visakhapatnam, Andhra Pradesh 530001, India
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GPS Map Camera

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GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

M8W2+V9H, Jalaripeta, Port Area, Visakhapatnam, Andhra

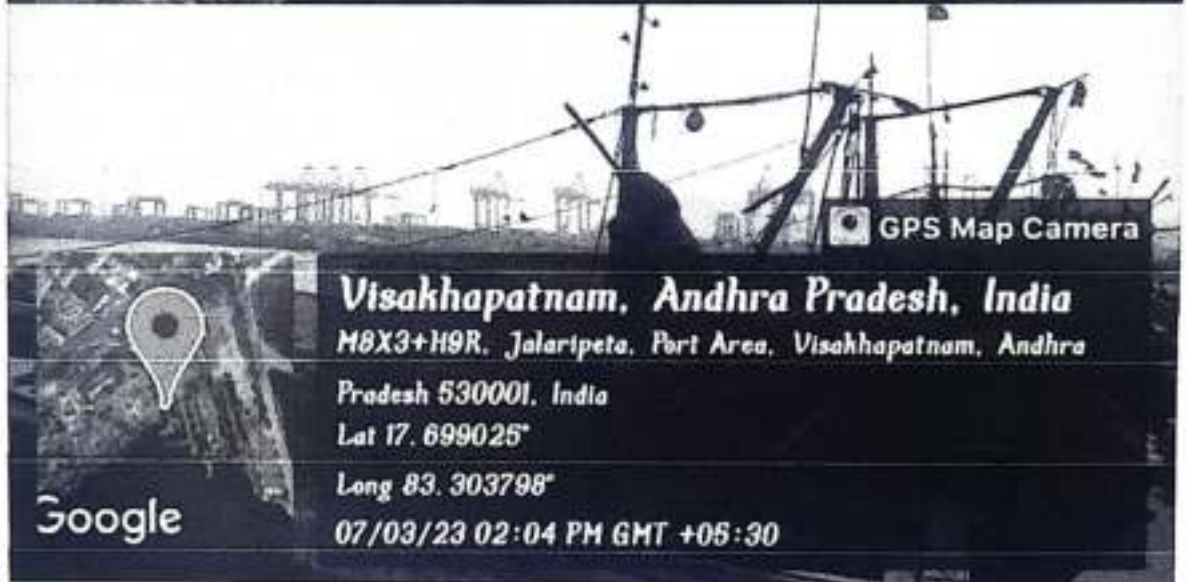
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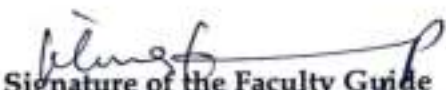
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INTERNAL ASSESSMENT STATEMENT

Name Of the Student: BAIREDDY SURESH
Programme of Study: water pollution
Year of Study: 2021 - 2023
Group: m.p.c
Register No/H.T. No: 720/30905008
Name of the College: Mrs. A.V.N. College
University: ANDHRA University.

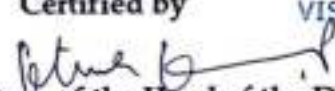
Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	20	
2.	Community Service Project Implementation	30	
3.	Mini Project Work	25	
4.	Oral Presentation	25	
	GRAND TOTAL	100	

Date:


Signature of the Faculty Guide
R. KRISHNA KUMARI
HOD IN CHEMISTRY
DEPARTMENT OF CHEMISTRY
MRS. A.V.N.COLLEGE
VISAKHAPATNAM-530001

Certified by

Date:
Seal:


Signature of the Head of the Department/Principal

R. KRISHNA KUMARI
HOD IN CHEMISTRY
DEPARTMENT OF CHEMISTRY
MRS. A.V.N.COLLEGE
VISAKHAPATNAM-530001



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of Andhra Pradesh)

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