

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 IN VISAKHAPATNAM
KRISHNA NAGAR AND MAHARANIPETA AREAS**

BY

**POTHALA PARVATHI
REGD.NO: 720130805063**



Estd : 1860

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

2020 – 2023.

DECLARATION

I, **POTHALA PARVATHI**, Student of IIB.Sc. – M.P.C, Mrs. A.V. N College, Visakhapatnam, affiliated with Andhra University hereby declared there is a project entitled "**SURVEY ON WATER POLLUTION IN VISAKHAPATNAM KRISHNA NAGAR AND MAHARANIPETA AREAS**" is a genuine work carried out by me under the guidance of **B.VINEETHA**, Lecturer in English, Mrs.A.V.N College, Visakhapatnam, Andhra Pradesh. Furthermore, this project work was not submitted to any other institution or University for awarding a Degree.

CERTIFICATE

P. Parvathi
Name & Signature of the student

DATE:

PLACE: Visakhapatnam


MRS. A.V.N COLLEGE

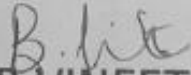


Estd : 1860
VISAKHAPATNAM – 530001
ANDHRA PRADESH

CERTIFICATE

This certifies that project entitled “**SURVEY ON WATER POLLUTION IN VISAKHAPATNAM KRISHNA NAGAR AND MAHARANIPETA AREAS**” is Bona fide workdone by **POTHALA PARVATHI**(Regd.no:720130805063), II B.Sc. – M.P.C student under my guidance. I certify that the project work done by her is original and has not been submitted to any other information.


(M. SIMHADRI NAIDU)
PRINCIPAL
MRS. A.V.N. COLLEGE
PRINCIPAL VISAKHAPATNAM


(B.VINEETHA)
MENTOR

PROGRAM BOOK FOR COMMUNITY SERVICE PROJECT

Name of the Student: Pothala - Parivathi

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

Registration Number: 720130805063

Period of CSP: From 12-09-22 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: B. Vineetha

Duration of the CSP: From 12.9.2022 To 12.11.2022

Name of the Student: Pothala Parvathi

Programme of Study: Water Pollution

Year of Study: 2020 - 2023

Register Number: 720130805063

Date of Submission:

Student's Declaration

I, P. Parvathi, a student of M.P.C Program,
Reg. No. 720130805063 of the Department of Chemistry
Mrs. A.V.N College do hereby declare that I have completed
the mandatory community service from 12-09-2022 to 12-11-2022 in
Part area (Name of the Community/Habitation) under the Faculty
Guideship of B. Vineetha, (Name of the Faculty Guide), Department
of English in College

P. Parvathi
(Signature and Date)

Endorsements



Faculty Guide



Head of the Department

P. KRISHNA KUMARI

HOD IN CHEMISTRY

DEPARTMENT OF CHEMISTRY

Mrs. A.V.N. COLLEGE

VISAKHAPATNAM-530001



PRINCIPAL

Mrs. A.V.N. COLLEGE

VISAKHAPATNAM

Acknowledgements

It is really a matter of pleasure for me to get an opportunity to thank all the persons who contribute 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.V.N. college, Visakhapatnam, for being a source of support during this training period.

Pothala Parvathi
(720130805063)

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.T.R. colony" about to list out the part city Visakhapatnam, which have several types of water pollution, are there, Industrial sites, wastes water works are major contributor to water pollution and also another causes include to water pollution.

The whole colony was divided into "70" quadrates of 700×400 meters. The surrounding untreated waste water directly contributes chloromphenical typhoid, fever and neta 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 has harmful effect of water pollution. Water pollution sources is oxygen demand waste mine draining modern washing powders and they chemical pollution ground water pollution.

Nutrient pollution which includes nitrates Phosphates is leading type 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 disease can spread through waste water cause the disease of fever malaria. water with increase in the amount of organic waste in water bacteria use up the available 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 disease.

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, sulphides and other harmful toxins, which can make the water even more dangerous to animals 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 but 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 area 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 forests are pure water sources.
- * in the area of n.t.r. colony people's 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 types of conserving the water sources,

- * Pick up litter and throw it away in garbage cans.

- * Blow or sweep fertilizer back onto the grass if it gets onto paved areas. Don't put fertilizer on the grass right before it rains the chemical will wash into storm drains and water ways.

- * Wash car vehicles or outdoor equipment where it can flow to ground or grassy area instead of a street.

- * Mulch 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 affected of these pollution side effects: We pale, and vomiting, typhoid, etc..., some of the people facing calcium deficiency and iron deficiency problem, children, and adults are also facing health issues of for water pollution of drinking water.

The solution of these problems one and only awareness about water importance, and how to pollution avoid resources, and have to save our 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 in 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 and plants.

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

Causes of water pollution :-

There are numbers causes of water pollution, the main ones are listed below: Types of sources

1. Point source :-

- It is directly to be to influence. here pollution 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 industrial establishments connects to public sewerage system.

2. Industrial waste!- The industries discharge several inorganic and organic pollution which may have lightly toxic to the living beings.

3. Agricultural sources!-

- * Fertilizers contain major plant nutrients such 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, nematocides, rodenticides and soil fumigants 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 channels and agricultural run off.

5. Marine Pollution:-

- * oceans are the ultimate sink of all natural and manmade 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. Urbanization!- urbanization is a key factor in increasing the amounts of water pollution.
8. Pumping solid waste!- Humans, after carelessly dump their trash in the secret near rivers.
9. Oil spills!- Accidental oil spills have devastating effect on seas.
10. Dissolved solid waste!- Human polluting gases in the can dissolve into salt and freshwater and polluted it

Control Measures :-

- * Riparian purifiers
- * Recycle
- * 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.

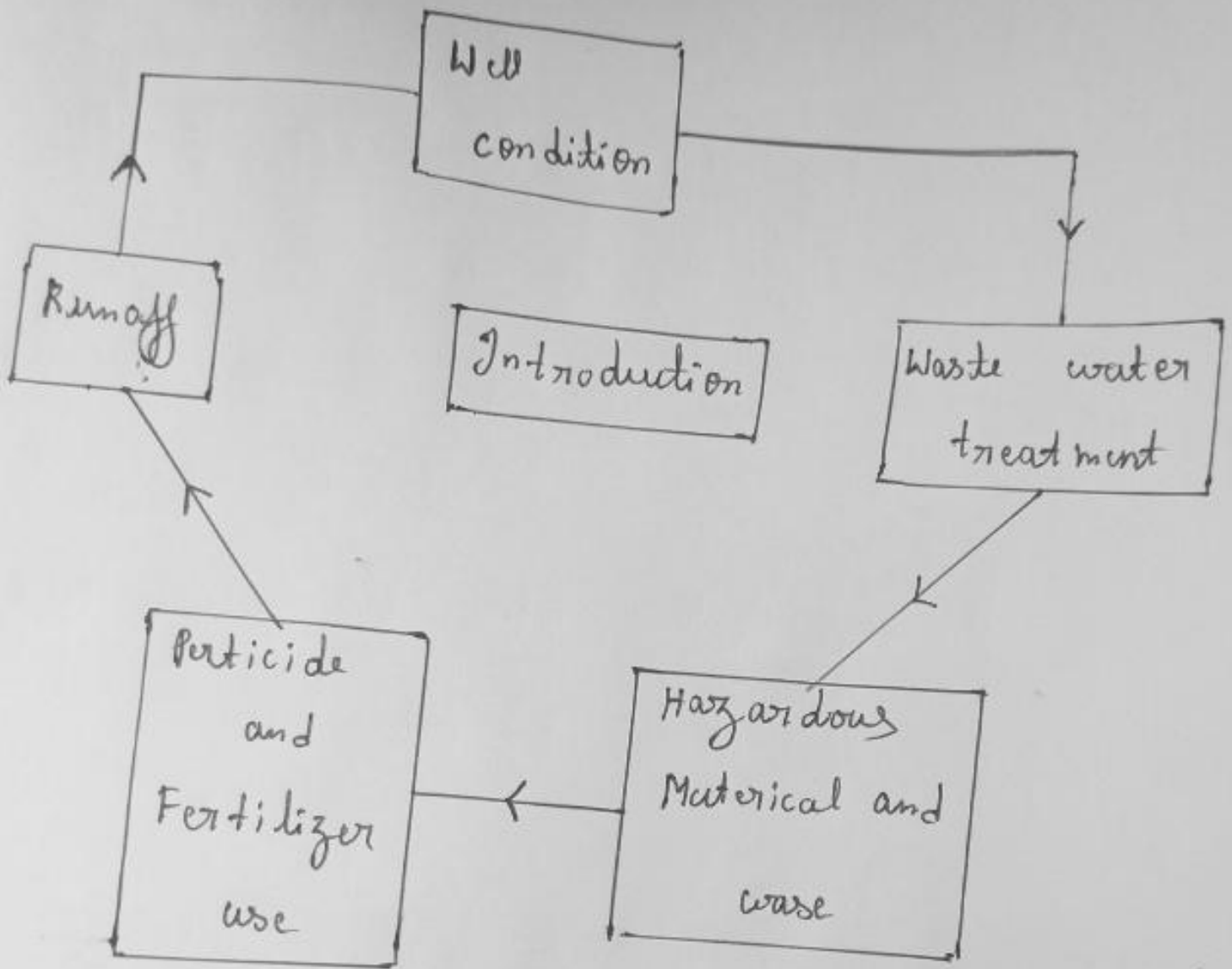
Ground water pollution :-

- * Any addition of undesirable substance to ground water caused by human activities is considered to be contamination it has.

after been assumed that contaminants left on or under the ground will stay there.

Source of ground water pollution:-

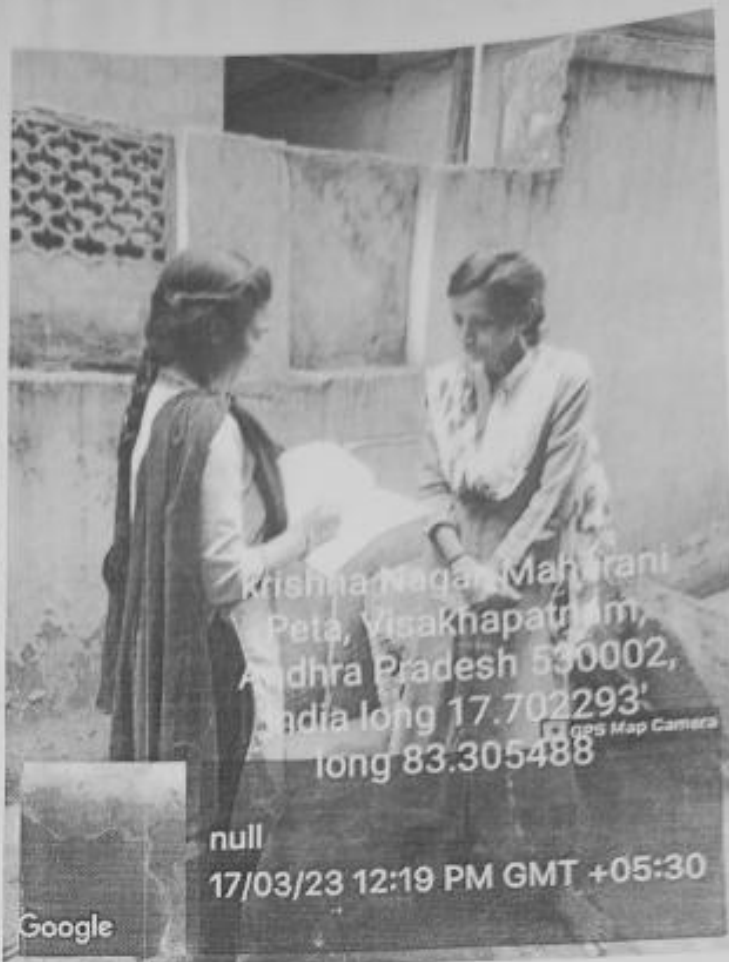
- * Most concern over ground water contamination has centered on pollution associated with human activities.
- * Human ground water contamination has centered on to waste disposal system land disposal of solid.
- * Municipal waste water, waste water impoundments land spreading of sludge brine disposed from the petroleum industry.
- * Mine waste, deep-cell herbicides and animal waste are agriculture source of ground





Krishna Nagar, Maharani
Peta, Visakhapatnam,
Andhra Pradesh 530002,
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Andhra Pradesh 530002,
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Peta, Visakhapatnam,
Andhra Pradesh 530002,
India long 17.702293'
null long 83.305488
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INTERNAL ASSESSMENT STATEMENT

Name Of the Student: Pothala Parvathi

Programme of Study: Water Pollution

Year of Study: 2020-2023

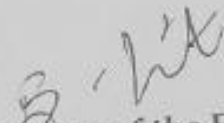
Group:

Register No/H.T. No: 720130805063

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

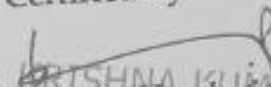
University: Andhra

SLNo	Evaluation Criterion	Maximum Marks	Marks Awarded
		20	
1.	Activity Log	30	
2.	Community Service Project Implementation	25	
3.	Mini Project Work	25	
4.	Oral Presentation	100	
	GRAND TOTAL		


Signature of the Faculty Guide

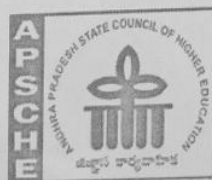
Date:

Certified by


P. ARISHNA KUMAR
Signature of the Head of the Department/Principal
HOD IN CHEMISTRY
DEPARTMENT OF CHEMISTRY
MRS. A.V.N.COLLEGE
VISAKHAPATNAM-530001

Date:

Seal:



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of Andhra Pradesh)

2nd, 3rd, 4th and 5th floors, Neeladri Towers, Sri Ram Nagar, 6th Battalion Road

Atmakur (V)Mangalagiri (M), Guntur, Andhra Pradesh, Pin - 522 503

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