

A COMMUNITY SERVICE PROJECT REPORT

On

PROJECT TITLE

Community Service Project report submitted
in partial fulfillment of the requirements for the award of the Degree of
BACHELOR OF SCIENCES

By

G.prameela

720130805106

Under the Guidance of

k.swetha

physical science



Mrs. A.V.N. College

(Affiliated to Andhra University)

Visakhapatnam-530001

2020-2023



Mrs. A.V.N. College
(NAAC Accredited 'A' Grade Institution)
(Affiliated to Andhra University)



Date:

CERTIFICATE

This is to certify that G. parvatha . Regd.No 720130805106
of Mrs. A.V.N College underwent Community Service Project in
water pollution with special reference to Isukapathala
Visakhapatnam, Andhra Pradesh under the guidance of
K. savelka from 26/9/2022 to 5/11/2022 .

The overall performance of the community service volunteer
during her / his community service is found Good .

G. Savelka

Authorized Signatory

Ch. Govindarao



Estd: 1860

Model Program Book
**COMMUNITY
SERVICE
PROJECT**



Designed & Developed by



**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

PROGRAM BOOK FOR COMMUNITY SERVICE PROJECT

Name of the Student: Pranav Kumar

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

Registration Number: 73013022006

Period of CSP: From: 5/19/2021 To: 5/11/2022

Name & Address of the Community / Habitation: 54-2-17, Shalayani
Colony, Visakhapatnam,
Visakhapatnam - 530022

Pranav Kumar

University

YEAR

Community Service Project Report

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

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

Department: computer science (B.Sc) [H.P.C.S]

Name of the Faculty Guide: K. Sweetha

Duration of the CSP: From 26/9/2022 To 5/11/2022

Name of the Student: Gussala prameela

Programme of Study: Community service project - water pollution

Year of Study: 2020 - 2023

Register Number: 720130806106

Date of Submission:

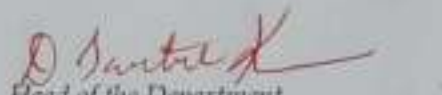
Student's Declaration


I, Gussala prameela, a student of C.S.P Program,
Reg. No. 720130805106 of the Department of Computer
Mrs. A.V.N. college College do hereby declare that I have completed
the mandatory community service from 26/9/22 to 5/11/22 in
Isukhattota (Name of the Community/Habitation) under the Faculty
Guideship of K. Sweetha, (Name of the Faculty Guide), Department
of English, Mrs. A.V.N. college into A** College

G. prameela
(Signature and Date)

Endorsements


Faculty Guide


Head of the Department
Head of the Dept.
Dept. of Physics, Electronics and Computer Science
Mrs. A.V.N. COLLEGE
Principal **VISAKHAPATNAM**


PRINCIPAL
Mrs. A.V.N. COLLEGE
VISAKHAPATNAM

Certificate from Official of the Community

This is to certify that Gowda - Pramela (Name of the Community Service Volunteer) Reg. No 220130805106 of M.S. A.V. S. College (Name of the College) underwent community service in Sukattole (Name of the Community) from 26/9/22 to 5/11/22. The overall performance of the Community Service Volunteer during his/her community service is found to be Good. (Satisfactory/Good).

Ch. Govinda Rao

Authorized Signatory with Date and Seal



Acknowledgements

It is really 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, "WATER POLLUTION" with special reference to Shivabalayam, Nisakhapatnam District of Andhra Pradesh.

I wish to express my gratitude to all the members of Shivabalayam for giving the proper response which had been instrumental in completion of this project.

I am thankful to I am thankful to my mentor K. Swetha lecturer in English M.S. A.V.V. Degree college Nisakhapatnam for his support and encouragement throughout the tenure of the project. Also, I am very grateful to head of the department of COMPUTER SCIENCE, and the other faculty members of the Computer department for being a source of support during this project period.

G. Prameela

Hi.No: 720130805106

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.

In shivabayan colonies people are located at Subbathota most of the people are drinking municipal water in shivabayan colony few people are drinking bore water. Because of water pollution is not water.

safe and readily available drinking water is key to public health. well collect ground water and also gets filled through, rain not just the quality like, gets filled through even when the humans end up drinking polluted water. chlorine and chloramine are the major disinfectants used in public water systems. one of the challenges identified which affect the supply of water in rural areas in illegal connections.

facilities should be increased in shivalayam colony.
Awareness should be created in shivalayam colony.
Drinking polluted water results in diseases. people
in shivalayam colony are getting mineral water
because the municipal water is not water. few
were unaware about of polluted water. facilities should
be decreased.

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.

Sukhasthota, Shivabayan colony is located in area of Wisakhapatnam, Andhra Pradesh. Shivabayan colony comes under pincode 530022. we have more than Shivabayan colony on this website.

In Shivabayan most of the peoples are drinking municipal water. few peoples are drinking mineral water 30%. In Shivabayan many peoples are drinking the under ground water.

By drinking the underground water the aged peoples are suffering with the diseases in Shivabayan. the surrounding of the Shivabayan are good and neat. the should be improved in the facilities. the drainage system is good in the area. But the many peoples are drinking the municipal water directly. due to the heavy rain the water should be muddy and not quality. Aged peoples are suffering with the joints pain because of drinking bore water. Awareness should be created in Shivabayan. so become peoples are drinking pollution water and mineral 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.

THE ACTIVITIES UNDERTAKEN IN THE COMMUNITY DURING THE COMMUNITY SERVICE PROJECT

1. Survey on socio-economic
2. House hold survey
3. Report writing
4. Awareness created
5. Awareness programme.
6. Submit the project
7. Report the project

Values, Lifeskills, And technical skills

1. Team work and problem solving skills
2. The ability to communicate effectively with others.
3. The collaborative nature of projects also reinforces the social and emotional learning programs.
4. People in learning environments have a wider and more diverse social circle.
5. Those who learn readily and continually are better able to pass along what they have learned and act.
6. When people learn, they gain confidence for trying new things and stretching themselves.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Found few houses with poor water facilities and many houses getting water from bore.	facilities should be increased	G. N. S. S.
Day -2	few houses getting water from outside but many people are getting water complained about fewer	Awareness should be created here in Sivajyala about water pollution	G. N. S. S.
Day -3	few houses are unaware of many diseases they are getting by drinking polluted water.	Drinking polluted water results in diseases.	G. N. S. S.
Day -4	Many people are drinking underground water and using it for cooking purpose.	people in Sivajyala are preferring ground water only.	G. N. S. S.
Day -5	few people here are affordable to get filtered water	few were unaware about the problem of polluted water	G. N. S. S.
Day -6	very few houses are receiving municipal water.	found water crisis in this particular area.	G. N. S. S.

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

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

Most water bodies get converted into dumping grounds by nearby localities. And this causes a huge problem because the dump contains everything from plastic, aluminium to glass, styrofoam etc. And since all the waste takes different time to degrade in the water, they tend to harm the aquatic life until degraded.

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

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	few houses getting water from outside but many people are getting need water.	Awareness should be created in simhadai puram	<i>[Signature]</i>
Day -2	many peoples are drinking bore water and using it for cooking purpose	facilities should be increased.	<i>[Signature]</i>
Day -3	few houses are using municipal water	peoples in shivay-alam are drinking municipal water	<i>[Signature]</i>
Day -4	many peoples are affords -debate to get filled from outside.	few were unaware about of polluted water.	<i>[Signature]</i>
Day -5	many peoples are suffering with disease by drinking polluted water	drinking polluted water in shivay-alam.	<i>[Signature]</i>
Day -6	many houses getting water from bore few aged people are suffering from joints pains	facilities should be increased.	<i>[Signature]</i>

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

The pollution happens when water flowing down streams get contaminated at different points. A river may get polluted by sewage, industrial waste, construction waste and so on. Rain carrying sewage and industrial effluents, wastewater goes in the oceans. Water is in fact water especially fresh water is one of the most important elements in the world.

However with increasing levels of water pollution

water not only quenches our thirst but also plays a critical role in keeping us healthy. By drinking the polluted water we begin to suffer from ill health. By the water pollutant the aquatic animals are died.

The oxygen level in polluted water is 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. Chlorine and chloramine are the major disinfectants used in public water.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	few houses with having a poor water facilities.	good facilities are should be created in Shivajayam	Rajesh
Day-2	many houses getting the water from bore. few aged people are suffering from asthma.	Awareness should be created in Shivajayam	Rajesh
Day-3	Most of the people are drinking municipal water directly.	drinking municipal water	Rajesh
Day-4	Most of the houses are affordable to drink the municipal water.	people in Shivajayam are getting municipal water from outside	Rajesh
Day-5	By drinking the municipal water people are suffering with the diseases	By drinking polluted water people are suffering with diseases	Rajesh
Day-6	many houses are unaware of many diseases by drinking polluted water	drinking polluted water result in diseases	Rajesh

WEEKLY REPORT

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

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 eventually water is essential to our body. Without we can't even thing living can't survive without water. We all know that water pollution can affect our health body.

It 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 save and care our mother nature, especially the different bodies of water. Absolutely there are many simple ways in how we can help.

The pollution happen when water flowing down stream get contaminated at different point. Water not only quenches our thirst but also plays a critical role in keeping us healthy. The water pollutant the aquatic animals are died. One of the challenges identified which affected the supply of water in several areas.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Most of the peoples are getting mineral water in shivalayam.	people in shivalayam using mineral water to drink.	B. Raju
Day-2	few peoples are drinking municipal water in their areas	facilities should be created.	B. Raju
Day-3	some peoples are drinking under ground water and using it for cooking purpose	Awareness should be created in shivalayam	B. Raju
Day -4	few peoples are afforad-able to get filter water	people are in shivalayam are using filter	B. Raju
Day -5	in shivalayam their are drinking polluted water	some peoples are suffering with diseases due to drinking of pollution	B. Raju
Day -6	some peoples are afforadable to get filter water.	People are afforadable to drink municipal water	B. Raju

WEEKLY REPORT

WEEK - 4 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Ground water :- it 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 disinfectants used in public water systems.

Drinking water should be safe for consumption. water is required in the body and depends on several factors, including maintaining health and level of physical activities. Also, it varies on health-related issues as well as environmental conditions such as summer.

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 a community and access to drinking water.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	few peoples are drinking mineral water in shivalayam	peoples in shivalaya m are preferring mineral water	P. H. L.
Day - 2	some peoples are receiving the municipal water in their area	Drinking municipal water in their area.	P. H. L.
Day - 3	many peoples are afford able to drink the ground water.	They are afford able to drink the ground water	P. H. L.
Day - 4	some peoples are suffering with joint pain by drinking pollutant water.	Drinking polluted water	P. H. L.
Day - 5	many peoples are facing the poor water facilities in shivalayam.	good facilities are should be created in shivalayam	P. H. L.
Day - 6	many peoples are getting the water from outside due to water pollutant.	Awareness should be created here shivalayam.	P. H. L.

WEEKLY REPORT

WEEK - 5 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

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

A community water system supplies water to the same population year around in many places. Communities lack the capacity to effectively adapt their current systems for water sanitation and hygiene to the community's changing needs (such as population growth, changes in water quality).

Traditional water purification methods include boiling, filtration, sedimentation and solar radiation. Water borne diseases are more common in rural communities where potable water supply coverage is very low. The boiling method was the most efficient giving 100% decontamination after three minutes of boiling. Water is at the core of sustainable development, and is critical for socio-economic development.

CHAPTER 5: OUTCOMES DESCRIPTION

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

1. Name of the village/Hamlet?
2. Name of district?
3. Door No of the houses?
4. Water source for domestic consumption?
5. Drinking water source?
6. What are the major water pollutants?
7. What types of freshwater pollutants are there?
8. What are the property and dangers of water pollutants?
9. Where does water pollution come from?
10. How much water does a person use each day?
11. Is proper drainage system exist for your used water?
12. Water born diseases encountered in the last few years in the family.
13. Mosquito repellents using a toilet cleaners?
14. Chemical products using a toilet cleaners?
15. Names of the medicine frequently used in the family and their quantity?

Describe the problems you have identified in the community

Water scarcity is the lack of fresh water resources to satisfy water demand. It is manifested by partial or no satisfaction of reported demand, economic competition for water quantity or quality, disputes between users, irreversible groundwater depletion, and negative effects on the environment.

It affects every continent and was categorized by the World Economic Forum as one of the largest global risks with respect to its potential impact over the next decade. One-third of the global population live under situations of severe water scarcity at least one month of the year. Half a billion people in the world affected by severe water scarcity all year round.

Half of the world's largest cities have been facing water scarcity. The absolute minimum water requirement for domestic use is 50 litres per person per day, though 100-200 litres is often recommended.

Moreover, some states are facing the water scarcity in Andhra Pradesh.

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.

possible solutions for the problems identified

- * waste water treatment.
- * plastic waste reduction.
- * water conservation.
- * install a water-efficient toilet in your home.
- * septic tanks.
- * Avoid using the toilet as a waste basket.
- * stormwater management.
- * green agriculture.

Solutions:

Before raw sewage can be safely released back into the environment, it needs to be treated correctly in a water treatment plant. In a water treatment plant, sewage goes through a number of chambers and chemical processes to reduce the amount and toxicity of the water. The final stage of treatment is the tertiary phase. This stage must be done before the water can be used. Almost all solid particles are removed from the water and chemical additives are supplied to get rid of any left over.

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

AWARENESS ABOUT WATER : 0

Public water conservation campaigns create awareness in all levels of society about the importance of saving water to cope with its scarcity and ensure sustainability. The aim is to change citizen attitudes and behaviours to improve water use efficiency.

AWARENESS PROGRAMMES : 0

S.No	Name of programme	Mode	Date
1.	Awareness programme on water conservation	Pravara news Paper phone-in programme.	29-05-2019
2.	Community Based water resource management	Krushikarshana (Chandana varnis) phone-in programme	23-06-2020
3.	on occasion of world water day talade moulya jagada karatayya.	Krushikarshana (Chandana varnis) phone-in programme	22-03-2021

2. Diffuse or non-point source.

It is from various ill-defined and diffuse sources. They vary spatially and temporarily and are difficult to regulate.

The main source of water pollution are as follows:

1. Community waste water. include discharges from houses, Commercial and industrial establishments connects to public sewerage system. The sewage contain human and animal excreta, food residues, cleaning agents, detergents and other wastes.

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

3. Agricultural source:

Fertilizers contain major plant nutrients such as nitrogen, phosphorus and potassium.

Excess fertilizer 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, organo phosphates, metallic salts, carbonates, thiocarbonates, derivatives of acetic acid etc. Many of the pesticides are non-degradable and their residues have long life.

The animal excreta such as dung, wastes from poultry farms, piggeries and slaughter houses etc. reach the water through run off and surface leaching during rainy season.

4. Thermal pollution.

The main sources are the thermal and nuclear power plants.

* The power plants use water as coolant and release hot waters to the original source.

* Sudden rise in temperature kills fishes and other aquatic animals.

5. Underground water pollution:-

In India at many places, the ground water is threatened with contamination due to seepage from industrial and municipal wastes and effluents, sewage channels and agricultural runoff.

6. 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.

* The other sources of oceanic pollution are navigational discharge of oil, grease, detergents, sewage, garbage and acids, active wastes, off shore oil mining, oil spills.

7. untreated sewage from house holds :-

* Dye, lotion, soap, hair oil, shampoo and many other products also contribute in water pollution. These products go to the sewage without any treatment.

* untreated sewage pipes break, there is a chance that the wastes bodies in the process.

* when sewage pipes break, there is a chance that the wastes will contaminate drinking water. Sometimes, poorly treated sewage is released into water bodies. Domestic cleaning products can be very dangerous pollutants.

8. garbage : plastics are non-biodegradable, mass plastic clog water bodies and contaminate water.

9. urbanization :- urbanization is a key factor in increasing the amounts of water pollution.

10. Dumping solid waste : Humans, often carelessly dump their trash in the season near rivers.

11. oil spills : Accidental oil spills have devastating effect on seas.

12. dissolved solid waste : Human polluting gases in the air can dissolve into salt and freshwater and pollute it.

* Excess fluoride in drinking water causes neuro-muscular disorders, gastro-intestinal problems, teeth deformity, hardening of bones and stiff and painful joints.

* High concentration of fluoride ion is present in drinking water in 13 states of India. The maximum level of fluoride which the human body can tolerate is 1.5 parts per million.

* Over exploitation of ground water may lead to leaching of arsenic from soil and rock sources and contaminate ground water. Chronic exposure to arsenic causes black foot disease.

4. Biological magnification.

5. Eutrophication

Control MEASURES:

* Riparian buffers

* Recycle.

* Treatment of sewage water and the industrial effluents should be done before releasing it into 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.

* excessive use of fertilizers and pesticides should be avoided.

* organic farming and efficient use of animal residues as fertilizers.

* water hyacinth water by taking some toxic materials and a no of heavy metals from water.

* oil spill in water can be cleaned with the help of

biodegradable by-product of paper industry resembling saw dust, oil zapper, organisms.

GROUND WATER POLLUTION :-

Any addition of undesirable substance to groundwater caused by human activities is considered to be contamination. It has often been assumed that contaminants left on or under the ground will stay there. This has been shown to be wishful thinking. Groundwater often spreads the effects of dumps and spills far beyond the site of the original contamination. Groundwater contamination is extremely difficult and sometimes impossible

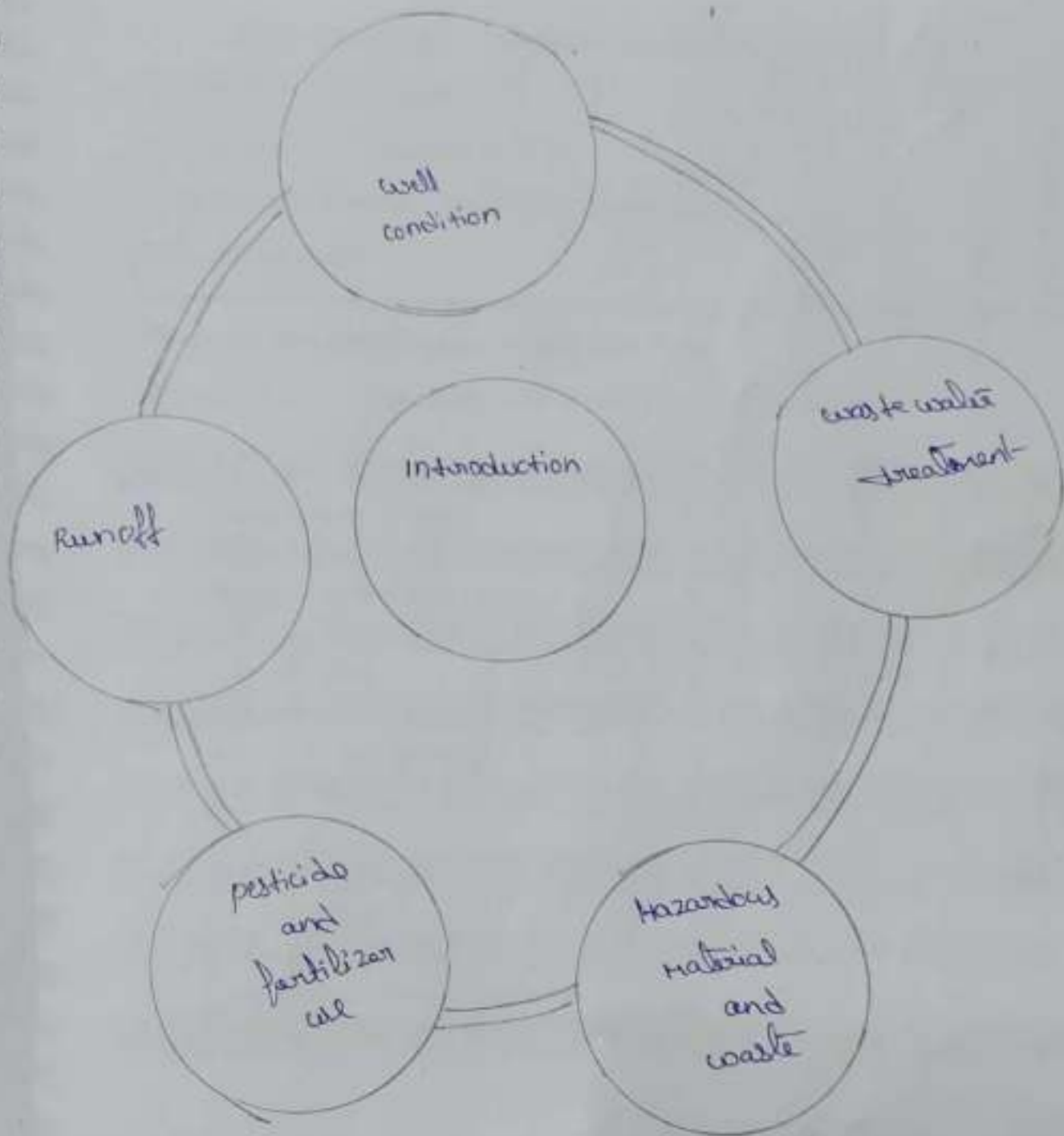
- to clean up.

groundwater contaminants come from two categories of sources: point sources and distributed or non point source. Landfills, leaking gasoline storage tanks, leaking septic tanks and accidental spills are examples of point sources. Infiltration from farm land treated with pesticides and fertilizer is an example of a non-point source.

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 the waste disposal system, land disposal of solid waste, municipal wastewater, wastewater impoundments, land spreading of sludge, brine disposal from the petroleum industry, mine waste, deep-well disposal from the petroleum industry, mine waste, deep-well herbicides and animal waste are agricultural sources of ground.



Student Self-Evaluation for the Community Service Project

Student Name: G. prameela

Registration No: 720130805106

Period of CSP: From: To: 26/9/22 to 5/11/22

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:

G. prameela
Signature of the Student

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

Student Name: G. prameela

Registration No: 720130805106

Period of CSP: From: To: 26/9/22 to 5/11/22

Date of Evaluation:

Name of the Person in-charge:

Address with mobile number: 7659022274, Isukhattala, shivajyam 54-2-17

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
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10	Creativity	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



Visakhapatnam, Andhra Pradesh, India
No. 2, 101, Anandabhai Colony, Subbaraya, Visakhapatnam, Andhra Pradesh 530012, India
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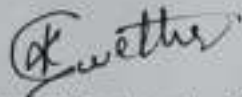
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INTERNAL ASSESSMENT STATEMENT

Name Of the Student: G. prameela
Programme of Study: water pollution
Year of Study: 2022 - 2023
Group: BSC
Register No/H.T. No: 720130805106
Name of the College: MTS. 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	

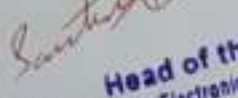
Date:


Signature of the Faculty Guide

Certified by

Date:
Seal:

Signature of the Head of the Department


Head of the Dept.
Dept. of Electronics and Computer Science
Mrs. A.V.N. COLLEGE
VISAKHAPATNAM



**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**

(A Statutory Body of the Government of Andhra Pradesh)

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