



Program Book

Community Service Project

**AP STATE COUNCIL OF HIGHER
EDUCATION**
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



Program Book for Community Service Project

Name of the Student: P. Stegambhar

Name of the College: MBS AVN college

Registration Number: 720130805199

Period of CSP: 6 week **From:** 01/8/2022 **To:** 10/09/2022

Name & Address of the Community/Habitation:

Program Book for Community Service Project

Name of the Student: P. Yoganatharaj

Name of the College: MSS Avn college

Registration Number: 720130805199

Period of CSP: 6 weeks From: 01/8/2022 To: 10/09/2022

Name & Address of the Community/Habitation:

Community Service Project Report

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

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

Department: Mathematics

Name of the Faculty Guide: ch. Mallika

Duration of the CSP: From 1/8/22 To 10/9/2022

Name of the Student: P. Yugandhar

Programme of Study Bsc (Mscs)

Year of Study: 2020 - 2023

Register Number: 720130805199

Date of Submission:

Student's Declaration

I, P. Yugandhan, a student of B.Sc (BSES) Program, Reg. No. 220130805199 of the Department of Mathematics (Statistics) College do hereby declare that I have completed the mandatory community service from 01/01/2022 to 10/02/2023 in (Name of the Community/Habitation) under the Faculty Guideship of Ch. Mallika, (Name of the Faculty Guide), Department of Statistics in Mrs. A.V.N. College

P. Yugandhan
(Signature and Date)

10/02/2023

Endorsements

Faculty Guide Ch. Mallika

[Signature]
Head of the Department
Department of Mathematics & Statistics
Mrs. A.V.N. College, Visakhapatnam

[Signature]
Principal
PRINCIPAL
Mrs. A.V.N. COLLEGE
VISA KHAPATNAM

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 titled "WATER POLLUTION" with special reference to.

I would like to express my gratitude all the members of for giving the paper resources which has been instrumental in completion of the project. I am thankful to my net for.

I would also to extend my gratitude to the principal Sir. for providing me all the facilities that was required.

In the end, I wish to thank my parents who will be their support and encouragement without which I could not have completed this project in the limited time frame.

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.

Water pollution is the combining notion of water sources by substance which make the water unsafe for drinking, cooking, cleaning and other activities. Pollutants include chemicals, toxic bacteria and parasites. All forms of pollution eventually make their way to water.

In my survey I have observed that many of the people are affected with water disease like diarrhoea, typhoid etc. To control this situation we have to set some objective. The water act 1974 enacted with the object to prevent or control of pollution in India.

Objectives:

- * Identify the ways in which human waste water cause water pollution.
- * Identify conditions which are non-chemical pollution.

Out Come:

- * Facility should be increased
- * A waves should be created

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.

The houses are placed within no plane there are about lights for each line of the are people are using municipal water for drinking and other usage.

Some people are buying water case for drinking purpose the roads are very clean and clear. Some places are filled with dust and wastage of houses, which is mixed with drinking water.

Some people are using ground water for drinking the water of this area is not purified people are suffering from some skin diseases than diseases and long term diseases.

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, LIFE SKILLS, AND TECHNICAL SKILLS

- ⇒ Team work and problem solving skills.
- ⇒ The ability to communicate effectively with others.
- ⇒ The collaborative nature of project also reinforces the social and emotional learning programs
- ⇒ people in learning environments have a richer and more diverse social circle.
- ⇒ Those who learn readily and continually are better able to put down a long what they have learned and act.

ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	few houses are using municipal water	Drinking municipal water	P. Kumar
Day - 2	many house getting water from bore	facilities should be increased	S. Sat
Day - 3	few houses getting water from out side but many people are getting not water	Quality of water should be increased	m. of 2/6
Day - 4	some municipal water is having replemets in water.	facilities should be increased	L. Sharma
Day - 5	many people drinking unmesal water due to low water quality	Awareness should be increased	P. Anna
Day - 6	many people are drinking bore water and using it for cooking too	water supply should be increased	B. Devi

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

In Durgamchikalua colony the water supply is too low some people are getting water with mixed water pollutants, pesticides and soil in the water for water. The water is heated for drinking purpose.

people are suffering from joint Pains, fever, colds, cough and some long term disease some people are not getting required amount of water for drinking and usage.

In this colony, the water quality is low and most of the people are unaware of disease they are getting from drinking this type of water, water with bad

quality. Kindly disease and fever problems are rised in the people who are above 60.

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	few peoples all inferring from water decrease	Auroorast, should be provided	V. Kumar
Day - 2	few people all inferring from joint point and long term diseases.	facilities should be increased	G. Kumar
Day - 3	In some people are getting ruid water with soil	water supply should be increased	K. Srinivas
Day - 4	In people are getting water with mixed pesticides.	quality of water should be increased	K. Srinivas
Day - 5	some people are drinking bore water due low water supply.	water supply should be increased	M. Srinivas
Day - 6	many people are not getting water from municipal corporation	supply of water should be increased	V. Kumar

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Some people are getting water from outside due to mixing of drinking water with drinking water pollution they are getting low quality water some people are depending on ground water due to low.

In simple words people are getting water with mixed blating powder with in high quality due to this some people are getting long term disease fever, cold, liver problems, kidney problems etc.

people are unaware of disease they they are getting quality of water is too low the water supply is low and people with large family are not getting required amount of water people are buying water cans from outside and is with high amount.

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	many house holder are suffering from joint pains and long term disease.	quality should be increased	P. [Signature]
Day - 2	few people are drinking bore water and using for cooking.	Awareness should be created in people	D. [Signature]
Day - 3	people are getting water with mixed pesticides	increase of the problem from the water	M. [Signature]
Day - 4	many people drinking water with mixed bleaching powder.	Quality of mixed bleaching powder should be decrease	V. [Signature]
Day - 5	most of the people all getting water from out side due to water quality.	Quality of water should be increased.	S. [Signature]
Day - 6	few people are drinking bore water and some suffering from joint pain.	water supply should be increased	M. [Signature]

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Agricultural, medical, and factories waste is mixed with local drinking water from outside like mineral water etc.

water quality is also very low.

In simple words people are getting water with mixed bleeding powder with in high quality due to this some people use getting long term disease fever, cold, liver, problems, kidney problems etc.

people are aware of decrease they are getting quality of water is too low the water supply is low and people with large family are not getting required amount of water people are buying water from outside and it is with high amount.

ACTIVITY LOG FOR THE THIRD WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	most of the people are getting municipal water in Akkayyapalem colony.	people in Akkayyapalem colony are getting municipal water to drink.	S. D. S.
Day - 2	few people are drinking municipal water in their areas.	facilities should be created.	V. P. S.
Day - 3	Some people are drinking water from ground water and using it for drinking purpose.	facilities should be created in Akkayyapalem.	S. D. S.
Day - 4	few people are unable to get filter water.	people as in Akkayyapalem using filter.	V. P. S.
Day - 5	In Akkayyapalem they are drinking pollution water.	Some people are suffering with disease due to drinking of pollution.	G. S. S.
Day - 6	Some people are unable to get filter water.	people are unable to drinking municipal water.	M. S. S.

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

In Akkayapalem colony people are drinking municipal water some people are drinking mineral water and few people are drinking ground water by handing.

They are not getting proper drinking water polluted uses mixed with the drinking water some people all getting water with metal particles which is not used for drinking but for normal usage.

water supply is not supplied properly in required amount to time people are suffering with some skin disease throat disease and some long term disease.

people are not aware of disease they are getting from drinking the pollution water.

ACTIVITY LOG FOR THE FOURTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	Most of the people are drinking municipal water and suffering joint-pains.	In Alkayyapalem awareness should be created.	S. [Signature]
Day - 2	Many people are getting low water supply and getting water from outside.	Water supply should be increased.	M. [Signature]
Day - 3	Most of the people are drinking mineral water and having good water facilities.	Water supply should be increased.	P. Balu
Day - 4	Many people are getting municipal water with high mixed bleaching powder.	People increase of disease they are getting.	M. [Signature]
Day - 5	Few people drinking box water and using it for cooking too.	Awareness should be created.	P. [Signature]
Day - 6	People getting joint pains and some long term diseases due to low water quality.	Awareness should be created and quality of water should be increased.	Ct. [Signature]

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

In Alkayapalem colony they are not using municipal water and getting water from outside like bore water mineral water and some quality water.

The quality of water is not good some pollutants are mixed with drinking water. It is also interset that some residential areas NAD Jekshion Bushingapalem including a couple of shun area live para nearest area contain water with high digous of hydrogeologic minexability.

most of the residents of the NAD colony and other residential areas in the study are have a high degree of vulnerability in Health. - age 120 < 81 ASTIC < 160 due to two people are getting some health disease.

ACTIVITY LOG FOR THE FIFTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day - 1	most of the peoples are drinking municipal water and suffering joint pain	In Atkappalam awareness should be created	M. P. (S)
Day - 2	many people are getting low water supply and getting water from out side	water supply should be increased	V. S. (S)
Day - 3	most of the people all drinking mineral water and having good water facilities.	people unaware of disease they are getting	P. T. (S)
Day - 4	many people are getting municipal water with high mixed blocking pipes.	water supply should be increased	L. G. (S)
Day - 5	few people drinking bore water and using it for fouling too.	Awareness should be created	S. T. (S)
Day - 6	people getting joint pain and some long term disease due to low water quality.	Awareness should be created and quality of water should be increased	CH. H. (S)

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

In Akkatpalem colony they are not using municipal water and they are getting water from outside line for water mineral water and some quality water.

The quality of water is not good some pollution are mixed with drinking water. It is also intrestal that some residential area NDA Junction including a couple of slum area like pudina mother area contain aquifer with high degree of hydrologic vulnerability.

most of the gardens of the NDA colony and other residential areas in the study area have a high degree of vulnerability in the usage of DP No. I2 C C 160 due to this people are getting some health disease.

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 person?
2. Name of the village, (or) town?
3. Gender and age of the person?
4. Type of family (Nuclear / Joint / Extended)
5. What is your ID number?
6. Which sources of drinking water are available in your neighbourhood?
7. Which sources of water do you have at home?
8. Is there frequency sufficient for your needs?
9. Any water born diseases in your house?
10. In any of your family members suffering from joint pain?
11. Name of the medicine frequently used in the family?
12. Quality and drinking water sources?
13. How is drinking water purified?
14. What impact to humans have on the aquatic life sources?
15. water born diseases are contained in the last few years.

Describe the problems you have identified in the community

Contaminated water and poor sanitation are linked to transmission of diseases such as cholera, diarrhea, dysentery, hepatitis A, typhoid and polio. Absent or inadequate or inappropriately managed water and sanitation services expose individuals to preventable health risks. This is particularly the case in health care facilities where both patients and staff are placed at additional risks of infection and disease. On looking globally 10% of patients develop an infection during a hospital stay with the proportion much greater in low income countries.

Inadequate management of urban industrial and agricultural wastewater means the drinking water of hundreds of millions of polluted. Natural presence of chemicals particularly in ground water can also be of health significance including arsenic and thalasside while other chemicals such as lead may be elevated in drinking water as a result of leaking brass water supply component in contact with drinking 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.

Possible solution for the prob. problem identified

- ⇒ waste water treatment
- ⇒ plastic waste reduction
- ⇒ water conservation
- ⇒ Install a water efficient fit lot in your home
- ⇒ specific tariffs
- ⇒ Avoid using the toilet as a waste basket
- ⇒ strict water 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 removed almost all solid particles are removed from the water and chemical are removed 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

public water conservation campaigns generate awareness in all levels of society about the importance of saving water to cope the with its scarcity and ensure sustainability the aim is to change citizen attitudes and behaviours to improve water use efficiently awareness programmes.

S.No	Name of program	mode	Date
1	Awareness program on water conservation	prajisamitas paper, photo in programme	29-06-2019
2	Community based water resources management	Keraladesikan (Chandana volini) photo in programme	28-06-2019
3	on occasion of world water day Jilada maalya Jagada kabrya	Ksiehidhehade (Chandana) kabini) photo in programme	22-03-2021

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 6 pages.

WATER POLLUTION: water pollution (or aquatic pollution) is the contamination of water usually as a result of human activities, so that it negatively affects its used water bodies include lakes, rivers, oceans, aquifers, reservoirs and ground water pollution. Water pollution can be attributed to one of four sources. Sewage discharge industrial activities agricultural activities, and urban runoff including stormwater. It can be grouped into surface water pollution (either fresh water pollution or marine pollution) and groundwater pollution. For example, releasing inadequately waste water into the natural water can lead to degradation of their aquatic ecosystem water pollution can also lead to water borne disease for people using pollution water for drinking, bathing, washing & the irrigating water pollution reduces the ability of the body of water provide to ecosystem service such as drinking water that is would be otherwise provide.

sources of water pollution are either point sources (a) non-point sources have on distributed source, such as a storm drains or waste water treatment plant (b) an oil spill non-point sources are more diffuse such as agricultural run off pollution may take the form of toxic substance eg oil, mineral, plastics, pesticides, persistent, organic pollutants, industrial waste products) stressful conditions (eg changes of pH, hypoxia & anoxic increased temperatures, & saline turbidity upsurge in taste & odor, and change of salinity) & pathogenic organisms. Contaminates may include organic and inorganic substances that can also be pollutant and this is called thermal pollution. A common one of the thermal pollution is the used of water a coolant by plants and industrial manufacture.

Control of water pollution requires appropriate infrastructure and management plans as well as legislation. Technology solutions can include improving sanitation, sewage treatment, industrial waste water treatment, agricultural waste water treatment, erosion control, sediment control and control of carbon runoff (including stormwater management). Effective control of urban run off including reducing speed and quantity of them.

CONTAMINANTS WITH AN ORIGIN IN SEWAGE

The following compounds are all spread water bodies via raw sewage & even treated sewage discharge:

→ various chemical compounds found in personal hygiene and cosmetic products.

→ Disinfection by products found in chemically disinfected by products water (while these are the chemical can be a pollutant in the water distribution network, they are fairly volatile and therefore not usually found in environmental waters)

→ Hormones and synthetic materials such as the phthalates that mimic hormones in their action

→ Insecticides and herbicides, often from agricultural use.

It is the water pollution stems from sewage the main pollutants are: suspended solids, bio-degradable organic matter, nutrients and the pathogenic organisms.

ORGANIC COMPOUNDS:

organic substance that often water bodies are often toxic.

→ petroleum hydrocarbons including fuels gasohol (motor fuel, jet fuels, and fuel oil) and lubricant (motor oil) and fuel combustion by product, from oil spills in storm water run off.

volatile organic compounds such as organophosphorus stored industrial solvents, problematic species and vapors (chlorides) such as poly chlorinated biphenyl (PCBs) and tri-chloroethylene, a common solvent for and poly fluorobiphenyl substance (PFAS) are persistent organic pollutants.

TYPES OF SURFACE WATER POLLUTION:

Surface water pollution includes pollution of rivers, lakes and oceans. A subset of surface water pollution is marine pollution which affects the oceans. Marine pollution refers to contaminants that by extension inputs of pollutants.

Globally about 0.8 billion people do not have safely managed sanitation of 2017. According to an estimate by the joint UN, FAO programme for water supply and the sanitation.

MARINE POLLUTION:

Marine pollution occurs where substance created & spread by humans such as industrial agricultural and residential waste, plastic; noise. Excess carbon dioxide & methane gas enters the ocean and cause harmful effects these

NUTRIENT POLLUTION:

Nutrient pollution a form of water pollution refers to contamination by excessive inputs of nutrients

THERMAL POLLUTION

Thermal pollution is a form of water

pollution refers to contamination by excessive thermal
behaviour is the degradation of water quality by
any process that changes ambient water temperature through
pollution is the sense of a fall in the temperature
of a natural body of water caused by human influence

Biological pollution:

The introduction of aquatic organisms
organisms is a form of water pollution as well of control
by human influence biological pollution.

IMPACTS:

ECO SYSTEMS: water pollution is a major global environmental
problem because it can result in the degradation of all
aquatic ecosystem fresh, coastal and open water.

PUBLIC HEALTH AND WATER BORNE DISEASES:
polluted water spread gastrointestinal disease
and parasitic infection and killed in million people there
are aquatic ecosystem fresh, to as water become disease.

OCEAN ACIDIFICATION

Ocean acidification is another impact of
water pollution ocean acidification is the specific decrease in the
pH value of the oceans caused by the uptake of atmospheric

GROUND WATER POLLUTION:

Ground water pollution occurs when pollutants are added to the ground and make their way into ground water. This type of water pollution can also occur naturally due to the presence of a mineral naturally. Due to the presence of a mineral and unwanted constituent contained or impurity in the ground water in which an it is more likely to be affected to a contaminated water than pollution.

When these ground water supplied to people they get disease like cholera, diabetes, joint pain, kidney problem, discolour and throat disease skin allergy.

Ground water pollution poses a hazard to the overall being of people and ecosystems are quoted if the following diagram represent the water pollution test.

RECOMMENDATIONS:

- ⇒ Small water enterprise (SWEP) - a policy toolkit to complement piped water supply.
- ⇒ piped water supply: pilot 24/7 water supply initiative and build social capacity
- ⇒ Digital Toolkit Improve governance of Vizag
- ⇒ leveraging digital tools

CHAPTER 6: RECOMMENDATIONS AND CONCLUSIONS OF THE MINI PROJECT

RECOMMENDATIONS:

- ⇒ small water enterprises (SWEs) employees to complement piped water supply.
- ⇒ piped water supply's pilot water supply initiative and build local capacity
- ⇒ Digital tools: Improve E-government for Vinya leveraging digital tools

CONCLUSIONS:

- only a few of which are discussed
- one system and status demonstrate some capacity have to recover from the effects of certain pollution, for leaves, boys, ponds, Shigish, rivers, and oceans have little substance to the effects of water pollution.
- ⇒ There is need to identify a water conservation and demand strategy for entable municipality.
- ⇒ There is need for research and development in potential water use saving facilities and appropriate technologies.

Student Self-Evaluation for the Community Service Project

Student Name: P. Vignatharaj
Registration No: 720130805199

Period of CSP: From: To:

Date of Evaluation:

Name of the Person in-charge:

Address with mobile number:

Please rate your performance in the following areas:

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:

P. Vignatharaj
Signature of the Student

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

Student Name: P. Vignambharaj
 Registration No: 720130805199
 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



