

# **Program Book**

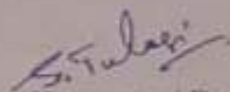
## **Community Service Project**

**AP STATE COUNCIL OF HIGHER  
EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)


### Student's Declaration

I, S. Tubasi, a student of <sup>community</sup> ~~Stat~~ Program, Reg. No. 720/2020/2020 of the Department of ~~Stat~~ Maths in Mrs. A.V.N. College do hereby declare that I have completed the mandatory community service from..... to ..... in AKYALYAPALEM (Name of the Community/Habitation) under the Faculty Guideship of ch. Mallik (Name of the Faculty Guide), Department of Statistics in Mrs. A.V.N. College

  
(Signature and Date)

### Endorsements

Faculty Guide ch. Mallik  
P. GANDHI, M.Sc, M.Phil  
Head of the Department  
Department of Mathematics & Statistics  
Mrs. A.V.N. College, Visakhapatnam

  
Principal  
PRINCIPAL  
Mrs. A.V.N. COLLEGE  
VISAKHAPATNAM

## ACKNOWLEDGEMENTS

It is really matter of pleasure for me to get an opportunity to thank all the persons who contair-ed directly or indirectly for the successful completion of Project report "WATER Pollution" with special referen to Dunselvanipalem Viskha Patnam District of Andhra Pradesh.

I wish to Express my gratitude to all the members of Dunselvanipalem Colony for their the proper supports which has been Instrumental in completion of this Project I am thankful to my self mento me lecturer in statistics Mrs. A. V. N. Collese Viskha Patnam for her support and Encouragement through out the tenure of the Project.

I would also like to Extending my gratitude to the Principal Sir " Simhadri maidu " for Providing me all the facilities that was required.

In the End, I wish to thank my Parents as well their support and Encouragement with out which I could not have completed this Project in the limited frame.

S. Tulasi.

## 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 stress on our water environment as result of increased industrialization, which aids urbanization is becoming very high thus reducing the availability of clean water. Polluted water is a great concern to the equal to human, plants, and climate and indeed alter the ecosystem, the preservation of our water environment, which is embedded in sustainable development, must be well driven by all sectors while effective waste water treatment has the tendency saves the water environment, integration of environmental policy into the sector firms can coupled with continuous periodical English from the present and future consequences of water pollution will assist in conserving the water environment.

Since water forms a core to the existence of human and living things. Its preservation and sustainable availability can not be over emphasized the availability of clean water is greatly threatened by various human activities and lot of interest of pollution cause various climate change.

The water is still being discharged into the water bodies by some industries.

## 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.

Water Pollution is the release of substance into bodies of water that makes unsafe for human use and disrupts aquatic ecosystems. Water pollution can be caused by a plethora of waste, petroleum, and disease - causing microorganisms.

The houses are placed within no place there are street lights for each line of ten houses. People are using municipal water for drinking and other uses.

Some people are buying water can for drinking purpose. The roads are very clean and clear. Some places are filled with dirt and waste of houses which is mixed with drinking water.

Some people are using ground water for drinking. The water of ten ten area is not purified. People are suffering for some skin disease, throat 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.

#### Activities undertaken in the Community during the Community Service Project:-

- \* Study on water pollution
- \* Preparing Questionnaire
- \* Study About the location to be survey
- \* Survey with our Questionnaire
- \* Analysing the survey data
- \* finding solutions for the problems
- \* Explains the people how to solve their water problem.

#### Value, life skills, 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 gain focus the social and emotional learning processes
- 4) Those who learn steadily and continuously are better able to pass learn along what they have learned and act.
- 5) when people learn they gain confidence to try new things and stretch themselves.

Describe the problems you have identified in the community

### \* Problems Identified in the Community :-

→ lack of Awareness on water pollution

→ There is no proper municipal (or) Panchayat taps water facility.

→ There is no proper main source of drinking water.

→ Health Issues due to Polluted water.

→ Facing water scarcity

→ Practices affecting the quality of drinking water  
wastage of drinking water

→ No proper storage for solving water pollution.

while other chemicals, such as lead may be elevated in drinking water as a result of leaching from water supply components in contact with drinking water.

## CHAPTER 5: OUTCOMES DESCRIPTION

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

\* Are you aware of water Pollution?

\* What do you think about water Pollution?

\* Did water Pollution affect your life?

\* How does water Pollution affect your life?

\* What kind of water do you use as the main source of your drinking water?

\* Do what is the main source of your water?

\* Do you have municipal / Panchayat tap water facility?

\* Generally, what type of water do you prefer?  
Cool water / normal water / boiled water?

\* Are you facing any water contamination issues in your locality? If so mention the steps taken by the government & by you for the prevention.

\* Are you facing any health issues like diarrhea / gastric / kidney problems etc. recently?

\* Do you have water sources like well / bore well?

\* Finally, Are you satisfied with your drinking water or not? If not what are the suggestions you want to give?

\* Which months do you receive face scarcity?



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.

while there are many things that need to be done in order to protect the environment, one highly important method of maintaining the health of the environment is to reduce water pollution of which there are many effective solutions that can exist with this goal, water pollution results from harmful substances entering any body of water.

These substances typically include microorganisms and chemicals like oil, when pollution get into a body of water, it will use the water quality to worsen and eventually become toxic to humans and the surrounding environment.

- \* 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
- \* storm water management
- \* Green Agriculture
- \* defecation.

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

- water Issues is a way to build a Common understanding of water Issue And to Create shared values on how water should be used and managed
- Pick up litter and throw it Away in a Secure Can show a sweep-fertilizer but onto the street so it get onto paved area as
- much of compost grass & yard waste
- wash your car & outdoor equipment where it can flow to a gravel & sandy area instead of street
- Environment awareness is critical because it can help to minimize pollution and global warming
- Public water Conservation Campaigns raise Awareness in all levels of society about the Importance of saving water to cope with its scarcity and ensure Sustainability.
- residents through newspaper write, LR, news coverage in local cable networks, Pamphlets and banners.
- way you can raise Awareness about Environment Issues

1. Playing your Part
2. Campaigns on social media
3. meeting with Government officials
4. Holding Peaceful protests.

**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) Quantitative Pollution is the contamination of water bodies usually as a result of human activities, so that it negatively affects its use. Water bodies include lakes, rivers, oceans, seas, canals and Ground water. Pollution occurs when contaminants are introduced into these water bodies. Water Pollution can be attributed to one of four sources: sewage discharge, Industrial activities, agricultural activities, and urban runoff. Included is storm water. It can be grouped into Surface water Pollution [Fresh water Pollution & marine Pollution] & Ground water Pollution. Example: releasing inadequately treated waste water into the natural water can lead to degradation of these aquatic ecosystems. Water Pollution can also lead to water borne diseases for people using Pollution.

water for drinking, bathing, washing & the Disinfection  
Water pollution reduces the ability of the body of  
water to provide to ecosystem services (such as  
drinking water) that it would be otherwise provide.

Sources of water pollution are further Point  
Sources (P) non-Point sources Point sources have one  
Identifiable cause, such as storm drain, a waste  
water treatment plant (P) an oil spill, Non-Point  
sources are more diffuse, such as agricultural runoff.  
Pollution is the result of the cumulative effect  
over time. Pollution may take the form of toxic  
substances (Eg: oil, metals, plastics, pesticides, herbicides,  
organic pollutants, industrial waste products, stress-  
ful conditions (Eg: changes of pH, hypoxia &  
Anoxia increased temperature, excessive turbidity,  
upstream, lake & river, and change of salinity,  
pathogenic organisms, containment, many include  
organic and inorganic substances. They can also  
be pollutants and the term is called thermal pollution.  
A common use of thermal pollution is the use  
of water as a coolant by power plants and industrial  
manufacturing.

legislation. Technology solutions can include Improving sanitation, septic, treatment, Industrial waste water treatment, agricultural waste water treatment. Erosion control, sediment control and control of urban runoff (including stormwater management). Effective control of urban runoff. Includes reducing speed and quantity of flow.

### CONTAMINANTS WITH AN URBAN ORIGIN:

The following compounds can all reach water bodies via new release or even treated sewage discharge.

⇒ Various chemical compounds found in personal hygiene and cosmetic products.

⇒ Distillation by products found in chemicals.

Distilled by products water, which means these chemicals can be polluted in water distribution network, they are fairly volatile and therefore not usually found in environmental water.

⇒ Hormonal and synthetic materials such as the phthalate that mimic hormones in their action.

⇒ Insecticides and herbicide, after from agricultural runoff.

In the water pollution stems from surface the main pollutants are suspended solids biodegradable organic matter, nutrient and the pathogenic organisms.

### ORGANIC COMPOUNDS:-

Organic substances that enter water bodies are often toxic.

⇒ Petroleum hydrocarbon, including flue (so called diesel fuel, jet, fuels, and fuel oil) and lubricant (motor oil) and fuel combustion by product, from oil, spills or storm water runoff.

⇒ Volatile organic compounds, such as Improperly stored industrial solvents, problematic species are organochloride such as Polychlorinated

biphenyl (PCBs) and trichloroethylene, a common solvent. Per and polyheptyl, substance (PEAs) are Persistent organic pollutants.

### TYPES OF SURFACE WATER POLLUTION:-

Surface water pollution of river, lakes and oceans. A subset of surface water pollutions

is marine pollution which affects the ocean. Nutrient pollution refers to contamination by excessive inputs of nutrients.

Globally, about 4.5 billion people do not have safely managed sanitation of 2018, according to an estimate by the Joint Sanitation Programme for water supply and the sanitation.

### MARINE POLLUTION:-

marine pollution occurs when substances used & spread by humans, such as industrial effluents and residential waste, particles, noise & excess carbon dioxide & invasive organisms enter the ocean and cause harmful effects there.

### NUTRIENT POLLUTION:-

nutrient pollution is a form of water pollution refers to contamination by excessive inputs of nutrients.

### THERMAL POLLUTION:-

Thermal pollution sometimes called thermal encroachment, is the degradation of water quality by any process that changes ambient water temperature. Thermal pollution is the cause of a fall in the temperature of a natural body of water.

Caused by human Influence.

### Biological Pollution :-

The Introduction of aquatic Invertebrates is a form of water pollution & well it causes by human Influence biological pollution.

### IMPACTS :-

#### ⇒ ECOSYSTEMS :-

Water pollution is a major global environmental problem because it can result in the degradation of all aquatic ecosystems fresh, coastal and ocean water.

#### ⇒ PUBLIC HEALTH AND WATER BORNE DISEASES :-

Polluted water spread zoonotic disease and Parasitic Infections and killed 1.9 million people "These are also referred to as water borne diseases".

#### ⇒ OCEAN ACIDIFICATION :-

Ocean acidification is another impact of water pollution ocean acidification is the ongoing decrease in the pH value of the surface ocean caused by the uptake of carbon dioxide.



## GROUND WATER POLLUTION :-

Ground water pollution occurs when pollutants are released to the ground and make their way into the ground water. This type of water pollution, can also occur naturally due to the presence of a mine and unwanted constituent, containment of impurity in the ground water in which case it is more likely referred to as contamination rather than pollution.

When these ground waters supplied to people, they get diseases like cholera, disease joint pains kidney problem, liver disease, and thyroid disease, skin all etc.

Ground water pollution poses a hazard to the well being of people ecosystems one quarter of the world's population depends on ground water for drinking.

These polluted water can be tested in many ways the following diseases represented the water pollution test.

## CHAPTER 6: RECOMMENDATIONS AND CONCLUSIONS OF THE MINI PROJECT

Since water forms a base of the existence of human and other living, its preservation and sustainable availability cannot be over emphasized. The availability of clean water is greatly threatened by various human activities and the greatest is pollution which in turn affects the ecosystem and causes various climate change. While various waste water treatment methods are being employed by industries and various treatment plants, untreated waste water is still being discharged into the water bodies by some industries.

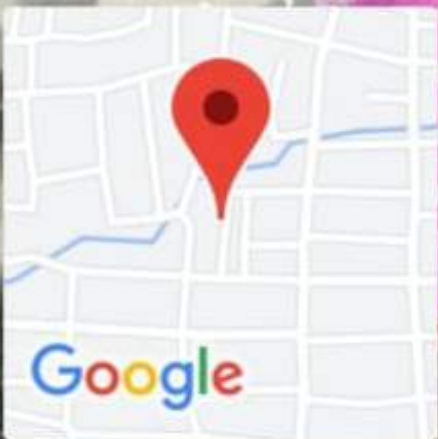
Thus, Effective Environmental Protection, Policies Compliance Drive will be benefit to the Environ Protection policies into the goals and objectives of various actors involved in Environmental declaration will help Policies performance. This will serve as a step forward in the direction of Ambient water Pollution.







GPS Map Camera



**Visakhapatnam, Andhra Pradesh, India**

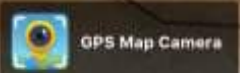
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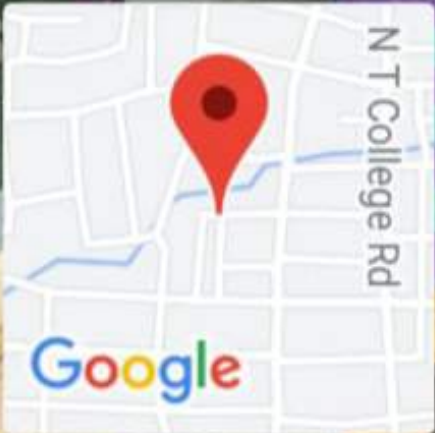
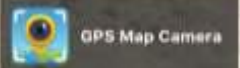
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# Visakhapatnam, Andhra Pradesh, India

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