



Program Book
Community Service Project

**AP STATE COUNCIL OF HIGHER
EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

Student's Declaration

I Am S. Chaitanya student of community course Program, Reg. No. 77013065263 of the Department of statistics MRS AVN College do hereby declare that I have completed the mandatory community service from _____ to _____ in Atkayyapalem (Name of the Community/Habitation) under the Faculty Guideship of Mr S. Ch. Mallika (Name of the Faculty Guide), Department of statistics in MRS AVN college College.

(Signature and Date)

Endorsements

Faculty Guide ch. Mallika

[Signature]
Head of the Department **B. GANDHI, M.Sc, M. PHD**
Head of the Department
Department of Mathematics & Statistics
Mrs. AVN College, Visakhapatnam

[Signature]
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 contributed directly or indirectly for the successful completion of the project report "WATER pollution" with special referen to Dungalvanipalem viskhopatham district of Andhra Pradesh.

I wish to express my gratitude to all the members of Dungalvanipalem colony for giving the proper responses which has been instrumental in completion of this project. I am thankful to my self mentor - ma lecture in statistics Mrs. AN college viskhopatham for her support and encouragement through out the tenure of the project.

I would also like to extend my gratitude to the principal Sri "Naidu" for providing me all the facilities that was required.

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

S. Bhargavi

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 of great concern to the aquatic organism, plants, and climate and indeed alters 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 salvaging the water environment. Integration of environmental policies into the other firm's care coupled with continuous periodical enlightenment of the personnel and further consequences of water pollution will greatly assist in conserving the water environment.

Since water forms a core of the existence of human and living things, its preservation and sustainable availability cannot be overemphasized. The availability of clean water is greatly threatened by various human activities and of interest in pollution causes various climate changes. While various waste water treatment methods are being employed by industries and various treatment plants, untreated waste water.

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 substances into bodies of water that makes unsafe for human use and disrupts aquatic ecosystems. water pollution can be caused by -
 plethora of toxic wastes, petroleum, and disease-causing microorganisms.

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

Some people are buying water cans 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 the this area is not purified. people are suffering from some skin diseases. 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.
- * Explaining the people how to solve there water problem.

Values, 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 reinforces the social and emotional learning programs.
4. These who learn readily and continually are better able to pass learn along what they have learned and act.
5. when people learn, they gain confidence for trying new things and stretching 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 tap water facility.
- ⇒ there is no proper main source of drinking water.
- ⇒ Health issues due to polluted water.
- ⇒ facing water scarcity.
- ⇒ factors affecting the quality of drinking water waste of drinking water.
- ⇒ no proper storage for saving 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.

8

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 or by you for the prevention.

* Are you facing any health issue like diarrhea / gastric / kidney problems frequently.

* Do you have water resources like well / bore well?

* Finally, are you satisfied with your drinking water or not? If not what are the suggestions you would give?

* Which month do you receive water 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 contaminating any body of water.

these substances typically include microorganisms and chemicals like oil. when pollution get into a body of water, it will cause 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.
- * stormwater management.
- * Green Agriculture
- * denification.

11

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 issues and to create shared values on how water should be used and managed.
- > pickup litter and throw it away in a garbage can.
- > Blow or sweep fertilizer back onto the grass if it gets onto paved areas as --
- > mulch or compost grass or yard waste.
- > wash your car or outdoor equipment where it can flow to a gravel or grassy area instead a street.
- > Environmental 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-ups news coverage in local cable networks, pamphlets and banners.
- > way you can raise awareness about environments 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 aquatic pollution) is the contamination of water bodies usually as a result of human activities, so that it negatively affects its uses. Water bodies include lakes, rivers, oceans, aquifers, reservoirs and ground water pollution result. 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 including stormwater. It can be grouped into surface water pollution (either freshwater pollution or marine pollution) or ground water pollution. Example: releasing inadequately treated waste water into the natural waters 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 or the irrigation water pollution reduces the ability of the body of water to provide to ecosystem sources (such as drinking water) that is would be otherwise provide.

Sources of water pollution are either point sources (or) non-point sources point sources have one identifiable cause, such as a storm drain, a wastewater treatment plant (or) an oil spill, Non point source are more diffuse, such as agricultural run off. pollution is the result of the cumulative effect over time pollution may take the form of toxic substances (eg:- oil, metals, plastics, pesticides, persistent, organic pollutants, industrial waste products) stress ful conditions (eg:- changes of pH, hypoxia or anoxia, increased temperatures, excessive turbidity, unpleasant taste or odor, and change of salinity, pathogenic organism, contaminants, many include organic and inorganic substances. Heat can also be a pollutant, and this is called thermal pollution. A common cause of thermal pollution is the use of water as a coolant by power plants and industrial manufacturers.

Control of water pollution requires appropriate infrastructure and management plans as well as

14
Legislation. Technology solutions can include improving sanitation, sewage, treatment, industrial water water treatment, agricultural water 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 ORIGIN SEWAGE:

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

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

⇒ Disinfection by products found in chemically-disinfected by products water whilst there are the chemicals can be polluted in 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.

15
=> insecticides and herbicides, often from agricultural runoff.

If the water pollution stems from sewage the main pollutants are: suspended solids, biodegradable organic matter, nutrients and the pathogenic organisms.

ORGANIC COMPOUNDS:-

organic substances that enter water bodies are often toxic.

=> petroleum hydrocarbons, including fuels (gasoline, diesel fuel, jet, fuels and fuel oil) and lubricants (motor oil) and fuel combustion byproduct, from oil spills or storm water runoff.

=> Volatile organic compounds, such as improperly stored industrial solvents, problematic species are organochlorides such as polychlorinated.

biphenyl (PCBS) and trichloroethylene, a common solvent per- and polyfluoralkyl, substance (PFAS) are persistent organic pollutants.

TYPES OF SURFACE WATER POLLUTION:-

Surface water pollution of rivers, lakes and oceans. A subset of surface water pollution is

16
is marine pollution which affects the oceans. Nutrient pollution refers to contamination by excessive inputs of nutrients.

Globally, about 4.5 billion people do not have safely managed sanitation. In 2017, according to an estimate by the joint sanitation programme for water supply and the sanitation.

MARINE POLLUTION:-

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

NUTRIENT POLLUTION:-

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

THERMAL POLLUTION:-

Thermal pollution sometimes called thermal enrichment; is the degradation of water quality by any process that changes ambient water temperature. Thermal pollution is the rise of or fall in the

17
temperature of a natural body of water caused by human influence.

Biological Pollution:

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

IMPACTS:-

⇒ ECOSYSTEMS:-

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

⇒ PUBLIC HEALTH AND WATER BORNE DISEASES:-

Polluted water spread gastrointestinal diseases and parasitic infections and killed 1.8 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 earth's oceans caused by the uptake of carbon dioxide.

18 GROUND WATER POLLUTION:-

Ground water pollution occurs when pollutants are released to the ground and make their way in to ground water. This type of water pollution, can also occur naturally due to the presence of a minor and unwanted constituent, contaminant or impurity in the groundwater. 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, diarrhea, joint pains, kidney problems, liver diseases, and thyroid diseases, skin allergies.

Ground water pollution poses a hazard to the well being of people. 80% of the world's population depends on groundwater for drinking.

These polluted water can be tested in many ways. The following diagram represents the water pollution test.

CHAPTER 6: RECOMMENDATIONS AND CONCLUSIONS OF THE MINI PROJECT

Since water forms a core of the existence of human and other living, its preservation and sustainable availability cannot be overemphasized. The availability of clean water is greatly threatened by various human activities and of interest is pollution which in turn affects the ecosystem and causes various climatic changes. While various waste water treatment methods are being explored 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 benefited to the environment and by extension to human factoring these environmental protection policies into the goals and objectives of various actors involved in environmental deliberation will help policies performance. This will serve as a step forward in the direction of ameliorating water pollution.

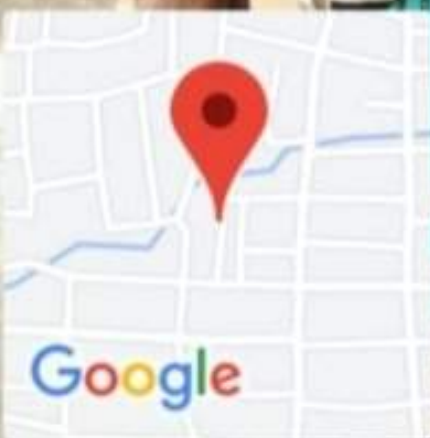


PHOTOS AND VIDEO LINKS

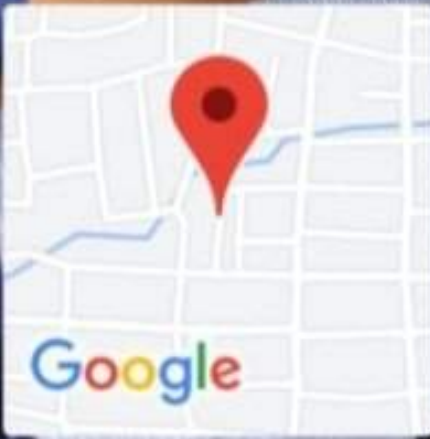
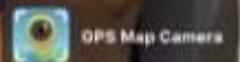




GPS Map Camera



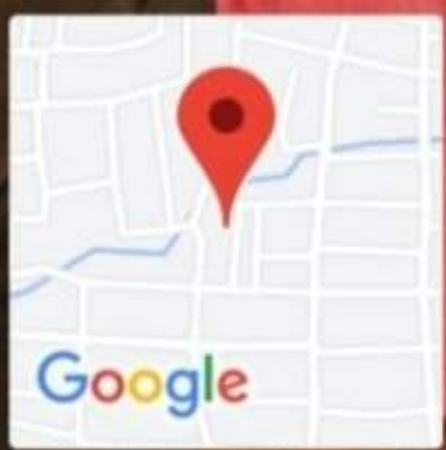
Visakhapatnam, Andhra Pradesh, India
45-27-4, sri nivasam, Akkayyapalem,
Visakhapatnam, Andhra Pradesh 530016, India
Lat 17.732323°
Long 83.298506°
23/08/22 12:23 PM



Visakhapatnam, Andhra Pradesh, India
45-27-4, sri nivasam, Akkayyapalem,
Visakhapatnam, Andhra Pradesh 530016, India
Lat 17.732282°
Long 83.298524°
23/08/22 12:24 PM



GPS Map Camera



Visakhapatnam, Andhra Pradesh, India
45-27-4, sri nivasam, Akkayyapalem,
Visakhapatnam, Andhra Pradesh 530016, India
Lat 17.732321°
Long 83.298422°
23/08/22 12:19 PM