



# 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: K. Kumar Summy

Name of the College: Mrs. AVNI Degree College

Registration Number: 720130805185

Period of CSP: From: 23/05/2022 To: 02/07/2022

Name & Address of the Community/Habitation: D/No: 26-18-2/2  
Town Kotha Rd. puvula  
Sandnuly near Neelamma  
Guedi, Purna market  
Jagadamba junction,  
Ap. 630001.

# Community Service Project Report

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

Name of the College: MRS. ANJ DEGREE COLLEGE

Department: B.Sc. [Statistics]

Name of the Faculty Guide:

Duration of the CSP: From 22/10/20 To 22/12/20

Name of the Student: K. KUMARI SWAMY

Programme of Study

Year of Study: [2020 - 2023]

Register Number: 720130805185

Date of Submission:

## Student's Declaration

I, K. Kumar, a student of B.S. Program, Reg. No. 10012050109 of the Department of Stat., Mrs. AVN College do hereby declare that I have completed the mandatory community service from 01/02/2021 to 01/04/2021 in ... (Name of the Community/Habitation) under the Faculty Guideship of ... (Name of the Faculty Guide), Department of Statistics in Mrs. AVN College.

*K. Kumar*  
(Signature and Date)

## Endorsements

*Shankar*  
Faculty Guide

P. GANDHI, M.Sc, M.Phil  
Head of the Department  
Department of Mathematics & Statistics  
Mrs. AVN College, Visakhapatnam

*P. Gandhi*  
Head of the Department

*[Signature]*  
Principal

PRINCIPAL  
MRS. A.V.N. COLLEGE  
VISAKHAPATNAM

**Certificate from Official of the Community**

This is to certify that K. Kumar Swamy (Name of the Community Service Volunteer) Reg. No. 7200000000 of Mrs. Avni Chaurac (Name of the College) underwent community service in 17/05/23 (Name of the Community) from 18/05/23 to 02/06/23.

The overall performance of the Community Service Volunteer during his/her community service is found to be ..... (Satisfactory/Good).

Authorized Signatory with Date and Seal

## ACKNOWLEDGEMENTS

I wish to express My gratitude to those who extended their valuable co-operation and contribution towards the Project.

I would like to thank My project mentors, Mr. Sheikh Sharukh Sir, Mrs. A.V.N. college for his valuable time and continued assistance for the successful completion of the project.

I would also like to express gratitude to Mr. Sheikh Sharukh Sir, Mrs. A.V.N. college management for facilitating this Project and providing his guidance throughout the duration of the project.

I would also like to thank the faculty and staff of the institute, and all my team members for their support.

## 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 equation organism, plants, humans 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 of salvaging the water environment, integration of environmental policies into the other firms core objectives coupled with continuous periodical enlightenment on the present and future consequences of environmental/water pollution will greatly assist in conserving the water environment.

Since water forms is 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 is pollution which in turn affects the ecosystem and cause 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.

## 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.

One town also called the "Old Town" is also located in Visakhapatnam city, India. The area falls under the local administrative limits of Greater Visakhapatnam Municipal Corporation.

One town area has more than 200 years of history in British era. The business of whole city was located here including the administration of Vizagapatnam District. There are many old movements built here like Town Hall Visakhapatnam (1904), Kurupam market (1914), Europa cemetery (1619), Queen Victoria pavilion (1901), St John's church (1844), Queen Victoria pavilion (1904), St John's church (1844), Queen Mary's school (1800), Ishag Madina, dangala (1706), St Aloysius Anglo-Indian High school (1847) and the light house (1903).

The old town area runs from Turner Chantry to End of Visakhapatnam port. It has many historical Educational institutions there are a so many middle class students are learning education here. The area is administered by Greater Visakhapatnam Municipal Corporation.



## 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 surveyed
- Survey with an Questionnaire
- Analyzing the survey data
- Finding solutions for the problem
- Explaining the people how to solve there water problem.

### ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Monday Day - 1 22-08-22	Few houses are using municipal water.	Drinking municipal water.	
Tuesday Day - 2 23-08-22	Many houses getting water from bore.	Facilities should be increased.	
Wednesday Day - 3 24-08-22	Few houses getting water from outside but many people are getting mud water.	Awareness should be created here.	
Thursday Day - 4 25-08-22	Some municipal water is having repellents in water.	Facilities should be increased.	
Friday Day - 5 26-08-22	Many people are drinking mineral water due to low water quality.	Quality of water should be increased.	
Saturday Day - 6 27-08-22	Many people are drinking bore water and using it for cooking too.	Water supply should be increased.	

## WEEKLY REPORT

WEEK - 1 (From Dt. 22.08.22 to Dt. 28.08.22)

Objective of the Activity Done:

Detailed Report:

In Bungalaravipalem colony the water supply is too low some people are getting water with mixed water pollutants. Pesticides and soil in the water the water is heated for drinking purpose.

People are suffering from joint pain, fevers, colds, cough and some long term diseases 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 getting from drinking this type of water. water with bad quality kidney diseases and liver problems are resided 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
Monday Day - 1 27-09-22	In Mangalavarpattam colony few people are suffering from water diseases	Accessories should be provided	
Tuesday Day - 2 28-09-22	few people are suffering from joint pains and long form diseases	Facilities should be increased.	
Wednesday Day - 3 29-09-22	In dungat some people are getting mud water with soil.	water supply should be increased.	
Thursday Day - 4 01-10-22	In velampeta colony some people are getting mud with mixed pesticides	Quality of water should be increased.	
Friday Day - 5 02-09-22	Some people are drinking bore water due low water supply.	water supply should be increased.	
Saturday Day - 6 03-09-22	Many people are not getting water from municipal corporation	Supply of water should be increased	

## WEEKLY REPORT

WEEK - 2 (From Dt. 21.08.22 to Dt. 27.08.22)

Objective of the Activity Done:

Detailed Report:

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

In rainy season people are drinking water with mud and dust particles people are suffering from fever joint pains and some kidney problems.

Finally there is no water supply properly, quality of water is too low people are unaware of diseases they are getting. Some people are not using municipal water and they are depending on ground water for drinking.

20% percent of people are working so they are not getting water from municipal corporation. They are getting water from outside and for drinking they are getting mineral water.

### ACTIVITY LOG FOR THE THIRD WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Monday Day - 1 05-09-22	Many house holders are suffering from joint pains and long term diseases.	Quality should be increased.	
Tuesday Day - 2 06-09-22	Few people are drinking bore water and using for cooking.	Awareness should be created in people.	
Wednesday Day - 3 07-09-22	In Dungalnipalem colony people are getting water with mixed pesticides.	Unaware of the problems from the water.	
Thursday Day - 4 08-09-22	Many people drinking water with mixed bleaching powder.	Quantity of water mixed bleaching powder should be decreased.	
Friday Day - 5 09-09-22	Most of the people are getting water from all side due to water quality.	Quality of water should be increased.	
Saturday Day - 6 10-09-22	Few people are drinking bore water and some suffering from joint pains.	water supply should be increased.	

## WEEKLY REPORT

WEEK - 3 (From Dt. 07.07.22 to Dt. 10.07.22)

Objective of the Activity Done:

Detailed Report:

Agricultural and industrial waste is mixed with local drinking water because of this they are getting water from outside like mineral water etc. water quality is also very low.

In simple words people are getting water with mixed bleaching powder with in high quantity. Due to this some people are getting long term diseases fever, cold, liver problems, kidney problems etc.

In Durgamchalam colony, people are unaware of diseases 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 FOURTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Monday Day - 1 12-09-22	Most of the peoples are getting mineral water for	People in velampeta using mineral water to drink.	
Tuesday Day - 2 13-09-22	Few peoples are drinking under ground water in using it for cooking purpose	Awareness should be created in velampeta.	
Wednesday Day - 3 14-09-22	Few peoples are drinking municipal water in their area.	Facilities should be created.	
Thursday Day - 4 15-09-22	Few people are affordable to get filter water.	People are in velampeta using filter.	
Friday Day - 5 16-09-22	In velampeta there are drinking polluted water.	Some people are suffering with disease due to drinking of polluted water.	
Saturday Day - 6 17-09-22	Some people are affordable to get filter water.	People are affordable to drinking municipal water.	



## WEEKLY REPORT

WEEK - 4 (From Dt. 12.09.21 to Dt. 17.09.21)

**Objective of the Activity Done:**

**Detailed Report:**

In velampeta people are drinking municipal water some people are drinking mineral water and few people are drinking ground water by heating.

They are not getting proper drinking water pollutant were mixed with the drinking water. Some people are getting water with mud particles which is not used for drinking but for normal usage.

Water supply is not supplied properly in required amount of time people are suffering with some skin diseases throat diseases, and some long term diseases.

People are not aware of diseases they are getting from drinking the polluted water.

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### ACTIVITY LOG FOR THE FIFTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Monday Day - 1 17-07-22	Most of the people are drinking municipal water and suffering joint pains.	In water awareness should be created.	
Tuesday Day - 2 20-07-22	Many people are getting low water supply and getting water from outside.	water supply should be increased.	
Wednesday Day - 3 21-07-22	Most of the people are drinking mineral water and having good water facilities.	water supply should be increased.	
Thursday Day - 4 22-07-22	Many people are getting municipal water with high mixed bleaching powder.	people unaware of diseases they are getting	
Friday Day - 5 23-07-22	Few people drinking bore water and using it for cooking too.	Awareness should be created.	
Saturday Day - 6 24-07-22	people getting joint pains and some long term diseases due to low water quality.	Awareness should be created Quality of water should be increased	

## WEEKLY REPORT

WEEK - 5 (From Dt. 13.09.22 to Dt. 19.09.22)

Objective of the Activity Done:

Detailed Report:

In Vidampeta they are not using municipal water and they are 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 inferred that some residency areas NAD Junction.

Burhivraju palace including a couple of slum areas like poorna market area contains aquifers with high degree of hydrogeologic vulnerability.

Most of the sectors of the NAD colony and other residential areas in the study area have a high degree of vulnerability in the range 120 < 0.21. Domestic < 160. Due to this people are getting some health diseases.

## 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 you pay attention to local drinking water quality?
- \* Are you satisfied with your drinking water quality?
- \* Do you have any problems with your tap water quality?
- \* Do you think any factors affect the quality of your tap water?
- \* Do you pay attention to the pollution events represented on TV or in the news paper?
- \* Do you have a municipal or panchayat tap water facility?
- \* Which months do you face scarcity?
- \* Are you taking any precautions to prevent water pollution?

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 level water facility.
- ⇒ There is no proper main sources of drinking water.
- ⇒ Facing water scarcity.
- ⇒ Health issues due polluted water.
- ⇒ factories affecting the quality of drinking water.
- ⇒ wastage of drinking water.
- ⇒ No proper storage for saving 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

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 assist 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 gets into a body of water it will cause the water quality to worsen and eventually become toxic to humans and the surrounding environment.

- + wastewater treatment.
- + Plastic waste reduction
- + water conservation
- + Install a water-efficient toilet in your home.
- + septic tanks.
- + Avoid using the toilet as a waste bucket.
- + Storm water management.
- + Green Agriculture
- + Desalination

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

Awareness about water.

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. The aim is to improve citizen attitudes and behaviour to improve water use efficiency. Awareness programmes.

SNO.	Name of program	Mode	Date
1.	Awareness programmes water conservation	Poojawan news Paper, phone in programme.	
2.	community based water resource management	Krushidasham Chandana Vahini phone in programme.	
3.	An occasion of world water day Jalada mulya Jagada kartavya	Krushidashama (Chandana vahini) phone in programme.	

## 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, seas, aquifers, reservoirs and groundwater. Water pollution results 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 storm water. It can be grouped into surface water pollution or ground water pollution. For example, releasing inadequately treated waste water into the natural waters can lead to degradation of these aquatic ecosystem. Water pollution also leads 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 the ecosystem services that it would be otherwise provide.



Sources of water pollution are either point sources or non-point sources. Point sources drain, a waste water treatment identify - able source such as a urban drain, a water waste treatment plant or an oil spill. Non point sources are more diffuse such as a storm drain, a waste water to use the agriculture runoff. 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). Stressful conditions (eg. changes of pH, hypoxia or anoxia, increased temperatures, excessive turbidity, unpleasant taste, odour, and change of salinity, or pathogenic organisms). Contaminants, many include organic and inorganic substance. Heat can also be a pollutants and can this is called thermal pollution. A common cause of the thermal pollution is the use of water as a coolant by power plants and industrial manufactures.

Control of water pollution requires appropriate infrastructure and management plans as well as legislation. Technology solutions can include improving sanitation, sewage treatment, industrial water treatment, agricultural water wastes treatment, erosion control, sediment control and control of urban runoff. Effective control of urban runoff includes reducing speed and quantity of flow.

## CONTAMINANTS WATER AND ORIGIN IN SEWAGE

The following compounds can all reach water bodies via raw sewage or even treated sewage discharges:-

1) Various chemical compounds found in personal hygienic and cosmetic products.

2) Disinfection by products found in chemically disinfected by products water ( whilst these are the chemicals can be a pollutant in the water distribution network, they are fairly volatile and therefore not usually found in environmental water.

3) Hormones and synthetic materials such as the phthalates the mimic hormones in their action.

4) 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 (mineral 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 organochlorides such as polychlorinated biphenyl (PCBs) and trichloroethylene, a common solvent, and polyfluoralkyl 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 refers to contamination by excessive inputs of nutrients.

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

## MARINE POLLUTION:-

Marine pollution occurs when substances are used & spread by humans, such as industrial, agricultural and residential waste, plastics, noise even carbon dioxide & invasive organisms enter the ocean and cause harmful effects there.

## NUTRIENT POLLUTION:-

Nutrient pollution is a form of water pollution that 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 cause of a fall in the temperature of a natural body of water caused by human.

## Biological Pollution:-

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

## IMPACTS!

### => ECOSYSTEM!

Water pollution is a major global environmental problem because it can result in the degradation of all aquatic ecosystem fresh, brackish and ocean waters.

### => PUBLIC HEALTH AND WATER BORNE DISEASES

Polluted water spread gastrointestinal diseases and parasitic infections and killed 1.8 million people. There are also referred to as water borne diseases.

### => OCEAN ACIDIFICATION!

Ocean acidification is another impact of water pollution. Ocean acidification is the on going decrease in the pH value of the earth's oceans caused by the uptake of carbon dioxide

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

Since water forms a core of the existence of human and other 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 which in turn affects the ecosystem and causes various climatic changes while various wastewater treatment methods are being explored by industries, various treatment plants, untreated wastewater is still being discharged into the water bodies by some industries. Thus, effective environmental protection policies compliance drive will be of immense benefits to the environment and by extension to human factoring these environmental protection policies into the goals and objectives of various actors involved in environmental deterioration will help policies perform. This will serve as a step toward in two direction of ameliorating water pollution.

## Student Self-Evaluation for the Community Service Project

Student Name: KOLLIPAKA KUMAR SWAMY

Registration No: 720130805185

Period of CSP: From: ~~August~~ To: OCTOBER

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:

*K. Kumar Swamy*  
Signature of the Student

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

Student Name: KOLLIPARA. KUMARSWAMY

Registration No: 720130305185

Period of CSP: From: August To: OCTOBER

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



