

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: ANURAG JAGSIRJI

Name of the College: DESAI ACADEMY

Registration Number: 730150809457

Period of CSP: 27-06-12 From: 28-06-12 To: 11-07-12

Name & Address of the Community / Habitation : SAHAYAN COMMUNITY

ANURAG

University

YEAR : 2012 - 2013

Community Survey Project

on

Water facilities and Drinking water availability



*Mrs. A.V.N. college, Visakhapatnam
Andhra Pradesh -530001*

submitted by,

N . LAKSHMAN

Reg no: 720130805158

Under the guidance of,

Ms. G . NAVYA

Community Service Project Report

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

Name of the College: Mrs. A.V.N college

Department: B.Sc [Statistics]

Name of the Faculty Guide: G. Navga

Duration of the CSP: 1 month, From 10.07-2022 To 10.10-2022

Name of the Student: Nayana Lakshman

Programme of Study: C.S.P

Year of Study: 2020 - 2023

Register Number: 720130805158

Date of Submission:

Student's Declaration

I am N. Lakshman a student of Community Service Program
Reg. No 72013030-9158 of the Department of BSc.
STATISTICS College do hereby declare that I have completed
the mandatory community service from 10-07-22 to 10-10-22 in
Suburban Hospital (Name of the Community/Institution) under the Faculty
Guidance of Ms. G. Nayya (Name of the Faculty Guide) Department
of MATHEMATICS Yeshwanth College

N. Lakshman
(Signature and Date)

Endorsements

Faculty Guide G. Nayya

S. S. S. S.
Head of the Department

Head of the Dept.
Statistical Methods & Inference
MS. J. V. N. COLLEGE
YESHWANTHPATNAM

W. W. W.
PRINCIPAL
MS. J. V. N. COLLEGE
YESHWANTHPATNAM

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 AND DRINKING WATER AVAILABILITY" with special reference to pand street, purna market, visakha - palnam district of Andhra Pradesh.

I wish to Express my gratitude to all the members of pand street for giving the project responses which has been instrumental in completion of this project. I am thankful to my mother Mrs. Nageswari Naidu, Lecturer in Mathematics, DEGREE COLLEGE, VISAKHA PALNAM for her support and encouragement throughout the tenure of the project.

I would also like to extend my gratitude to the principle sir "M. Simhadri 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 time frame.

N. Lakshman

INDEX

S.No	Name of the topic	page No.
1.	chapter - 1: Executive summary	02
2.	chapter - 2: overview of the community	03
3.	chapter - 3: community service point	04
4.	work - 1 to work - 05 and	06 to 16
5.	chapter - 4	17 to 18
6.	Identified possible solutions for the problem	19
7.	community awareness programmes	20
8.	mini-project work done	21 to 28
9.	chapter - 6 :- Recommendations and conclusions of the mini project	29
10.	Survey Reports	31 to 36
11.	House visited in survey	37 to 39
12.	photos and videos links	40
13.	Student self - Evaluation	40
14.	Evaluation by the person in-charge	41
15.	Internal Asses	44

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.

puana market, pond street located in visakhapatnam, Andhra Pradesh.

Water is the basis of life. water is an important resource. water is used by people in many ways. water quality and water pressure. The institutional responsibility for water supply is arranged differently in different countries and regions. water used for drinking, cooking, cleaning and other activities pollution include chemicals, trash matter and parasites.

In my survey I have observed that many of the people are affected with water diseases. like Diarrhoea, typhoid etc. To water air control this situation Act-1974 is enacted with the object of prevention and control of pollution in India.

objectives :-

- * Identify the ways in which human waste water can cause water pollution
- * Identify contaminants that are non-chemical pollution

Out come :-

- * Facility should be increased
- * Awareness 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.

Kollupeta, punna market, AP - 530001 is located in VPT 101 - AP.

Here houses are placed on 70 mountain, the people are too friendly with each other.

The houses are placed within no place there are street lights for each line of the area. people are

Some people using Munciple water for drinking and other uses.

Some people are buying water cans for drinking purpose. the roads are very clean and clear.

Some places are filled with slant 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 and long term diseases,

They not think that water is basis of life.

They are not identify problems in future.

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

1. Team work and problem solving skills.
2. The ability to communicate effectively with others.
3. The collaborative nature of project also reinforces the social and emotional Learning programme.
4. people in learning environments have a wider and more diverse social circle.
5. Those whose learn reality and continually are better able to put learn along 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	Developing municipal water	NS
Day - 2	Many houses getting water from bore	facilities should be increased	NS
Day - 3	few houses getting water from outside but many people are getting mudpolluted	Awareness should be created here	NS
Day - 4	Many people are drinking mineral water due to low water quality.	quality of water should be increased.	NS
Day - 5	Some municipal water is having repellents in water	facilities should be increased	NS
Day - 6	Many people are drinking bore water and using it for cooking too.	water supply should be increased	NS







ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	In pando street few people are suffering from water diseases	Awareness should be provided.	AS
Day-2	few people are suffering from joint pains and long term diseases	facilities should be increased.	AS
Day-3	In halliyana street some people are getting mud water with soil	water supply should be increased.	AS
Day-4	In prosod garden street people are getting water with mixed pesticides	quality of water should be increased.	AS
Day-5	In mathana street drinking bore water due low water supply	water supply should be increased.	AS
Day-6	In gajula street getting water from munciple corporation.	supply of water should be increased.	AS

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	Many house holders are suffering from joint pains and lung form decreased.	Quality should be increased	Jee
Day-2	Few people are drinking bore water and using for cooking	Awareness should be created in people	Jee
Day-3	In SC colony near park street people getting water with mixed pesticides	awareness of the problems from the water.	Jee
Day-4	many people drinking water with mixed bleaching powder	Quantity of mixed bleaching powder should be decreased	Jee
Day-5	most of the people are getting water from outside due to water quality	quality of water should be increased	Jee
Day-6	Less people are drinking bore water and some suffering from joint pains	water supply should be increased.	Jee

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 people are getting mineral water in panda street.	People in panda street using mineral water to drink	
Day -2	few people are drinking and municipal water in their areas.	facility should be created.	
Day -3	Some people are drinking under ground water and using it for cooking purpose	water tap should be created in purna market	
Day -4	for people affordable able to get filter water	people are in purna market using filter.	
Day -5	In panda street they are drinking pollution water	Some people are suffering with disease due to drinking of pollutant	
Day -6	Some people are affordable to get filter water	people are not able to drinking municipal water.	

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	more of the people are drinking municipal water and suffering joint pains	In panda street awareness should be created	RJ
Day-2	Many people are getting low water supply and getting water from outlet	water supply should be increased	LJ
Day-3	most of the people are drinking mineral water and having good water facilities	water supply should be increased	LJ
Day-4	many people are getting municipal water with high mixed bleaching powder	people unaware of diseases they are getting	LJ
Day-5	few people drinking bore water and using it for looking too.	Awareness should be created.	LJ
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.	LJ

CHAPTER 4 OUTCOMES DESCRIPTION

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

1. Name of the persons ?
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 door number ?
6. Which sources of drinking water are available in your neighbourhood ?
7. Which sources of does your household use ?
8. Is their frequency sufficient for your needs ?
9. Any water born diseases in your house ?
10. Is any of your family members suffering from joint pains ?
11. Name of the medicine frequently used in the family ?
12. Quality and drinking water source How much ?
13. How is drinking water purified ?
14. What impact do humans have on the the aquatic life zones ?
15. water born diseases encountered 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, diarrhoea, dysentery, hepatitis A, typhoid and polio. Absent, inadequate or inappropriately managed water and sanitation services expose individuals to preventable health risks. This is particularly the case in health care placed at additional risks of infection hygiene services lacking. Globally 15% of patients develop an infection during a hospital stay, with the proportion much greater in low income countries.

Indadequate management of urban, industrial and agricultural wastewater means the drinking water of hundreds of millions of people is dangerously contaminated or chemically polluted. Natural presence of chemicals particularly in ground water, can also be of health significance, including arsenic and fluoride, while other chemicals, such as lead may be elevated in drinking as a result of leaching from water supply components.

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
- ⇒ Specific tanks
- ⇒ Avoid using the toilet as a waste basket
- ⇒ Digging water ponds wells
- ⇒ 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 phases this stage must almost all solid particles are removed additives water 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 campaign. To raise awareness in all level of society about the importance of saving water to scope, the with it's scarcity and ensure sustainability the aim is to change citizen attitudes and behaviours to improve water use efficiency.

Awareness programmes.

S. No	name of program	Mode	Date
1.	Awareness program on water conservation	Prajavani news paper, phone in programme	09/09/2022
2.	Community based water resource management	Krishidharshan [Chandana vahini] phone in programme	15/10/2022
3.	on occasion of world water day Jalada maulya jagada karavya	Krishidharshan [Chandana vahini] phone in programme	27/10/2023

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 8-10 pages.

WATER FACILITIES :-

one or more devices used in the collection, treatment or distribution of water for domestic and other legal uses, including systems of raw and clean water and distribution storage reservoirs, deep and shallow wells, pumping, ventilating, and gaging stations, inlets, tunnels, flumes, conduits, canals, collection, transmission and distribution lines, infiltration galleries, hydrants, meters and filtration and treatment plants and works, all purging, power, and other equipment and appurtenances, all extensions, improvement, remodeling, addition and alteration thereof and any and all right or interests in such water facilities.

⇒ An analysis of Census 2011 data confirms many known facts - the urban beats the rural when it comes to treated tap water supply, access to water testing labs and much more sixty eight percent of India's population.

⇒ lives in rural areas but when it comes to facilities.

⇒ Including the availability of safe drinking water cities and towns corner most of them.

Investments to rural India increased from Rs 31,356 crore (2002-07) to Rs 39,150 crore (2007-12)

but this hasn't helped bridge the gap.

Major causes of water consumption :-

Freshwater is primarily used for thermoelectric power (45%), irrigation (32%), public supply (12%), sold supplied industrial (5%) and agriculture (3%) in the United States. These water demands are expected to increase in a changing climate due to changes in temperature and precipitation.

WATER AVAILABILITY

Water is constantly moving on the Earth between the atmosphere, ocean, rivers and streams, snowpacks and ice sheets and underground. Water availability, both at surface water and groundwater is essential for agriculture, human consumption, industry, and energy generation.

Fresh water is available or available as surface water (such as lakes, rivers, reservoirs) and groundwater (found underground in rock or soil layers, and accessed through wells or natural spillings). Water is constantly moving on the Earth between the atmosphere, ocean, and different fresh water bodies. Climate, land use, local geology, and quality all affect the availability of fresh water resources in addition to the direct demands people place on them.

Why does water availability matter?
Ans:- Water is vital for agriculture, human consumption, industry and energy and groundwater are used up or contaminated beyond use, often more expensive water sources.

How does geoscience help inform decisions on water availability?

Ans: Geoscientists study how water moves in order to locate and quantify surface water and water underground. They use models to predict how much water will be available under different scenarios of climate and societal demand. They also explore alternative water sources like water recycling and desalination of ocean water.

Resources of water:

1. Groundwater information

Basic information on the science of groundwater, human interaction with groundwater (wells, groundwater depletion and overuse), groundwater quality [pesticide, contaminants, water well contamination], use of groundwater and groundwater measurement and groundwater in discussion and the water cycle, and links to USGS Groundwater data. This is a groundwater information.

1. Surface water Information :-

Basic information on the science of surface water, surface water hazards (floods, drought, storms), surface water quality (runoff, soil fences, sediment ponds, storm sewers, urbanization and water quality), statistics on surface water use by various sectors, discussion of ~~ground~~^{surface} water and the links to surface water data.

2. Alternative water information :-

Information on alternative water supplies: storm water, reclaimed waste water and more, with to fourth resources and • cases study

Examples for Each.

Three water source is mostly important

Source of water for water availability.

Water is at the center of economic and social development; it vital to maintain health grow food, manage the environment.

Water quality :-

⇒ According to the World Health Organization's 2019 report, safe drinking-water that "does not represent any significant risk to health over a lifetime of consumption, including different sensitivities that may occur throughout life stages".

⇒ Physical parameters affect the aesthetics and taste of the drinking water and complicate the removal of microbial pathogens.

⇒ microbiological parameters include coliform bacteria, *E. coli* and specific pathogenic species of bacteria, viruses, and protozoan parasites.

⇒ perfluorinated alkylated substances (PFAS) are a group of synthetic compounds used in a large variety of consumer products, such as food packaging, waterproof fabrics, carpeting and cookware. PFAS chemicals have been detected in blood, both humans and animals, worldwide, etc.

CHAPTER 6: RECOMMENDATIONS AND CONCLUSIONS OF THE MINI PROJECT

Recommendations :-

- ⇒ Small water enterprises (SWEs) :-
Employ kiosks to complement piped water supply.
- ⇒ piped water supply :- pilot 20/3 water supply initiative and build local capacity
- ⇒ Digital Tools :- improve e-governance for vizag
encouraging digital tools.

Conclusions :-

- only a few of which are discussed here.
- Rivers and streams demonstrate some capacity to recover from the effects of certain pollutants, but lakes, bays, ponds, sluggish rivers and oceans have little resistance to the effects of water pollution.
- ⇒ there is need to identify a water conservation and demand strategy for Entebbe municipality.
- ⇒ There is need for research and development in potential water use saving facilities and appropriate technologies.

Awareness on saving the losing water

Resources :



Survey Report

Report 1 :

As a part of internship, I started a survey on water availability in our area.

The people in that area have the availability of clean water. They didn't effected with any diseases. The mode of the drinking water is filtered and used by them. They save water as much as they can and they also stated that they don't have any problems with the Municipal water in their locality.



Report 2 :

As a part of internship, I started a survey on water availability in our area. The people in that area have the availability of clean water. They didn't effected with any diseases. The mode of the drinking water is filtered and used by them. They save water as much as they can and they also stated that they don't have any problems with the Municipal water in their locality.



Community Services

Name of the village/street :- panda street

Name of the district :- visakhapatnam

Name of the person :- Seethamma

DOB number :- 16/01/1981

Gender :- Female

Age :- 40

Education :- literate

occupation :- labor

Drinking water source :- municipal water

purity of the water :- good

proper drinking facility :- Yes

Any water born diseases in your house :- NO

Is the quantity of the water is sufficient :- Yes

How long does it take to fetch water return home :- 30 min

Are you satisfied with your water facility :- Yes

Community Service

Name of the village / street :- Kollupaka street

Name of the district :- Visakhapatnam

Name of the person :- Mani

Door number :- 26/01/10317

Gender :- Female

Age :- 37

Education :- Literate

Occupation :- Labour

In come :- 12000/- per month

Drinking water source :- municipal water

Purity of the water :- good

proper drinking facility :- yes

Any water born diseases in your home :- yes

Is the quantity of water is sufficient :- NO

How long does it take to fetch water and return home :- 30 min

Are you satisfied with your water facility :- yes

PHOTOS & VIDEO LINKS

- 1 <https://apps.who.int/>
- 2 <https://www.cdc.gov/>
- 3 <https://www.ncbi.nlm.nih.gov/>
- 4 <https://www.lawinsider.com/>
- 5 <https://www.researchgate.net/>
- 6 <https://allucosof.com/>
- 7 <https://www.theweek.in>
- 8 <https://mayoclinichealthsystem.org/>
- 9 <https://washmatters.wateraid.org/>
- 10 <https://www.lawinsider.com/dictionary/water-facilities>
- 11 <https://www.who.int>

Student Self-Evaluation for the Community Service Project

Student Name: N. LAKSHMAN

Registration No: 72030805158

Period of CSP: ~~2020-21~~ : 1 Month From: 10-09-20 To: 09-10-22

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:

N. Lakshman
Signature of the Student

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

Student Name: N LAKSHMAN

Registration No: 720130805158

Period of CSP: ~~2021-22~~ I From: 10-07-22 to: 19-10-22

Date of Evaluation:

Name of the Person in-charge: G. Navya

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

MARKS STATEMENT
(To be used by the Examiners)

INTERNAL ASSESSMENT STATEMENT

Name Of the Student: N LAKSHMAN
Programme of Study: C.S.I
Year of Study: 2020 - 2023
Group: B.Sc (M.P.S)
Register No/U.T. No: 7203070583
Name of the College: Mrs. A.V.N College
University: Andhra University

SLNo	Evaluation Criteria	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:

P. GANDHI, M.Sc, M.Phil
Head of the Department
Department of Mathematics & Statistics
Mrs. A.V.N College, Mahabubnagar

Date:
Seal:

Signature of the Head of the Department/Principal