

Model Program Book
**COMMUNITY
SERVICE
PROJECT**



Designed & Developed by



**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**

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**SURVEY ON WATER POLLUTION IN
N.T.R. COLONY, PORT AREA, VISAKHAPATNAM**

By

DARAPU BHANU CHANDRA

Regd. No. 720130805019



Estd : 1860

**PROJECT WORK SUBMITTED TO MRS. A.V.N. COLLEGE
AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM
FOR THE PARTIAL FULFILMENT OF DEGREE OF**

BACHELOR OF SCIENCE

2020-2023

DECLARATION

I, **DARAPU BHANU CHANDRA**, Student of III B.Sc - M.P.C., Mrs. A.V.N College, affiliated to Andhra University here by declared that this project entitled "**SURVEY ON WATER POLLUTION IN N.T.R. COLONY, PORT AREA, VISAKHAPATANM**" is a genuine work carried out by me under the guidance of **Mrs. P. Krishna Kumari**, HOD, Mrs. A.V.N College, Visakhapatnam, Andhra Pradesh. Furthermore, this project work was not submitted to any other institution or University for awarding any Degree.

DATE:

PLACE: Visakhapatnam

D. Bhanu chandra
-charan-

Name & Signature of the student

MRS. A.V.N. COLLEGE
VISAHAPATNAM - 530001
ANDHRA PRADESH



Estd : 1860

CERTIFICATE

This is to certify that project entitled as "SURVEY ON WATER POLLUTION IN N.T.R. COLONY, PORT AREA, VISAKHAPATNAM" is a bonafide work done by DARAPU BHANU CHANDRA (Regd. No. 720130805019) III B.Sc. – M.P.C. student under guidance. I certify that the project work done by him/her is original and has not been submitted to any other information.


(M. Simhadhri Naidu)

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


(P. Krishna Kumari)
Mentor

PROGRAM BOOK FOR COMMUNITY SERVICE PROJECT

Name of the Student: D Bhanu chandra

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

Registration Number: 720130805019

Period of CSP: From: 12/9/22 To: 12/11/22

Name & Address of the Community / Habitation :

ANDHRA

University

YEAR

Instructions to Students for Community Service Project

Please read the detailed Guidelines on Community Service Project hosted on the website of AP State Council of Higher Education <https://apsche.ap.gov.in>

Link:

<https://apsche.ap.gov.in/Pdf/Guidelines%20for%20the%20OJT%20Internship%20Community%20Service%20Project.pdf>

1. It is mandatory for all the students to complete 2 months (180 hours) of Community Service Project as a part of the 10-month mandatory internship/on the job training.
2. Consider yourself a committed volunteer in the community, you work with.
3. Every student should identify the village/community/habitation for Community Service Project (CSP) in consultation with the College Principal/the authorized person nominated by the Principal.
4. Report to the community/habitation as per the schedule given by the College. You must make your own arrangements for transportation to reach the community/habitation.
5. You will be assigned a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow volunteers. Post your daily activity done and/or any difficulty you encounter during the programme.
6. You should maintain punctuality in attending the CSP. Daily attendance is compulsory.
7. You are expected to learn about the community/habitation and their problems.
8. Know the leaders and the officials of the community/habitation.
9. While in the project, always wear your College Identity Card.
10. If your College has a prescribed dress as uniform, wear the uniform daily.
11. Identify at least five learning objectives in consultation with your Faculty Guide. These learning objectives can address:
 - Information about the community, including the realities and

problems of the society.

- Need for creating awareness on socially relevant aspects/ programs.
 - Acquiring specific Life Skills.
 - Learning areas of application of knowledge and technologies related to your discipline.
 - Identifying developmental needs of the community/habitation.
12. Practice professional communication skills with team members, and with the leaders and officials of the community. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.
 13. **Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.**
 14. At the end of Community Service Project, you shall be evaluated by the person in-charge of the community/habitation to whom you report to.
 15. There shall also be an evaluation at the end of the community service by the Faculty Guide and the Principal.
 16. Do not indulge in any political activities.
 17. Ensure that you do not cause any disturbance to the inhabitants or households during your interaction or collection of data.
 18. Be cordial but not too intimate with the people you come across during your service activities.
 19. You should understand that during this activity, you are the ambassador of your College, and your behavior during the community service programme is of utmost importance.
 20. If you are involved in any discipline related issues, you will be withdrawn from the programme immediately and disciplinary action shall be initiated.
 21. Do not forget to keep up your family pride and prestige of your College.
 22. Remember that you are rendering valuable service to the society and your role in the community development will become part of the history of the community.

Community Service Project Report

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

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

Department: *chemistry*

Name of the Faculty Guide:

Duration of the CSP: *From.12/9/22 To.12/11/22*

Name of the Student: *D. Bharu chandra*

Programme of Study: *water pollution*

Year of Study: *2020 - 2023*

Register Number: *720130805019*


Date of Submission:

Student's Declaration

I, D. Bhanu chandra, a student of M.P.C Program,
Reg. No. 720130805019 of the Department of chemistry
Mrs. A.V.N college College do hereby declare that I have completed
the mandatory community service from 12/9/22 to 12/11/22 in
post-Asca (Name of the Community/Habitation) under the Faculty
Guideship of _____, (Name of the Faculty Guide), Department
of English in AVN College


(Signature and Date)

Endorsements


Faculty Guide


Head of the Department


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

Certificate from Official of the Community

This is to certify that D. Bhanu chandra (Name of the Community Service Volunteer) Reg. No 720130805019 of Mrs A.U.N college (Name of the College) underwent community service in poth - Nila (Name of the Community) from 12/9/22 to 12/11/22. 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

It is really a 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.

A Study on WATER POLLUTION

Also I am thankful to my beauty guide

from Mrs. AVN College Visakhapatnam,

for being a source of support

during this training period.

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 present study water pollution in Nkr Colony
- about to list at the part city Usakhapetram
which have several type of water pollution
- are their industries six, wastes water world
- are major contributing to water pollution

- the whole colony was divided into 10
- quadrates of ~~to~~ 700 x 400 meter the send
- dings undersided waste water directly
- contributes chloramphenicol, typhoid fever
and other viruses

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.

N.T.R Colony is located in Visakhapatnam district in the state of Andhra Pradesh India.

Water pollution is any chemical, physical change in the quality of water that has harmful effect. of water pollution. water pollution source or oxydite mandifui waste mine drainings modern washing powder and the chemical pollution ground water pollution

Nutrient pollution which include nitrates phosphates is leading type of contamination in fresh water

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.

In this area water pollution degrades the quality of the water in the water bodies.

- many diseases can spread through waste water cause the disease of fever malaria.

- water cause the disease in the amount of organic waste in water bacteria use up the available oxygen.

- Surface water and ground water are both important sources for community water supply needs.

- waste water directly contributes cholera typhoid fever. for water pollution causes same disease.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	Visited the study area and divided into colony four diseases	Learned about water pollution types	Ⓜ
Day-2	Identify and tabulated the list of some members	Studies types of pollution wastages	Ⓜ
Day-3	Identify and tabulate the number of members the line 1 and 2	We observed mode of waste bodies pollution	Ⓜ
Day-4	Identify and tabulate the colony in line 3 & 4	We determine mode of water bodies pollution	Ⓜ
Day-5	Identify and the number list of 5th line	Studied water pollution of causes	Ⓜ
Day-6	Studied the abundance of water pollution in whole are of our colony	learned identification of water pollution.	Ⓜ

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	the data obtained in 1st week is tabulated and studied	learned about water pollution in the community area	<i>[Signature]</i>
Day-2	using the data an awareness camp has been conducted in the community	learned about how to mount a campaign	<i>[Signature]</i>
Day-3	by the campaign created awareness about the water pollution	learned about causes of water pollution in area	<i>[Signature]</i>
Day-4	the campaign has been continued and created awareness on value of	learned about various trends being by the community area	<i>[Signature]</i>
Day-5	the campaign has been continued and created awareness about increase water pollution in area	learned about various trends being by pollution in community area	<i>[Signature]</i>
Day-6	the campaign has been continued and created awareness about protective measure a plant in the area	learned about protective measure to be taken to preserve of water	<i>[Signature]</i>





ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	the Community project report programme body were downloaded and posted has been	people in shwas years using nitrose to disease	Ⓟ
Day-2	the data obtained and prepared literature were entered in the program book	Excitex should be created.	Ⓟ
Day-3	the picture taken during project were. during project done in the program book	people are in N.T.R cloning and using either	Ⓟ
Day-4	the program book paper are arranged in order and verified once again	people are in the cloning and using either	Ⓟ
Day-5	the picture taken during project were pointed and fixed in the program.	people of suffering with disease due to during	Ⓟ
Day-6	the program book has given for binding Role work	people are outdorble to drink mucipe water	Ⓟ

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	few people are drinking mineral water in shivalyarn	Peoples in N.T.R Colony purchase mineral water	N. jacob
Day -2	Some people are receiving the municipal water	Drinking municipal water the ground water	N. jacob
Day -3	many people are suffering with joint Rues low brinking water	they are effective to drink the ground water	N. jacob
Day -4	Some people are fearing poor water facilities in N.T.R colony	Drinking bottle waters	N. jacob
Day -5	many people are facing poor water paitras has drinking water	good facilities are should be created	N. jacob
Day -6	Many peoples are getting the water from outside due to water pollution	Awareness should be create thone N.T.R colony	N. jacob

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	the data obtained is analysed	learned about how to prepare a data analysis	S. Sanjay
Day-2	the analysed data is written on the paper in required manner	learned about methods of data presentation	
Day-3	the picture has been called which were taken during company.	learned about methods of data presentation	
Day-4	pie charts and tabulated forms were prepared	learned about preparation of tabular forms	S. Sanjay
Day-5	Information obtained is updated in the data Report	learned about information updated in the data report -	
Day-6	the reported data self verified once again	learned about how to prepare a report data analysis	

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day-1	Too people are drinking mineral water in Shivajinagar	people in N.T.R colony prefer mineral water	M. J. [Signature]
Day-2	Some people are receiving the mineral water	Drinking mineral water in their area	M. J. [Signature]
Day-3	many people are attracted to drink the ground water	they are attracted to drink the ground water	M. J. [Signature]
Day-4	Some people are facing with hard bus drinking water	Drinking wellhead water	M. J. [Signature]
Day-5	Many people are facing poor water facilities in N.T.R colony	good bore wells are should be created	M. J. [Signature]
Day-6	Many people are getting the water from another side due to water pollution.	Awareness be created here N.T.R Colony	M. J. [Signature]

CHAPTER 5: OUTCOMES DESCRIPTION

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

Oxygen - depletion pollution :-

Another consequence of algal blooms is their consumption of oxygen supplies. This means that those species which depend upon oxygen to survive are killed off. While anaerobic ones thrive. Some anaerobic sulphides and other harmful toxins, which can make the water even more dangerous to animals and human too,

Surface water pollution :-

Referring to all water surface above ground such as rivers, lakes, seas and oceans, surface water pollution can occur both naturally accidentally and intentionally.

Describe the problems you have identified in the community

- * N.T.R Colony is rich in water resources, have several benefits values most of the people in the area don't know their values.
- * Due to this they are refusing to protect them.
- * The people there in this study area losing several valuable resources contaminated due to this improper conservation.
- * Due to insufficient knowledge the people in the area are refusing to conserve the plants and losted our pure water sources.
- * In the area of N.T.R colony people don't know the value of 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.

Since the water pollution in the studied area high level and their quantity is being their quantity there is a necessity to conserve those type of conserving the water surface.

- * pick up litter and throw it away in garbage can
- * Blow or sweep fertilizer back onto the grass if it gets into grass right before it rains.
the chemicals will wash into storm drains or a water way.
- * wash our vehicle or out door equipment where it can flow to grass or grassy area instead of a street.
- * Mulch or Compost grass or yard waste.

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

The whole Colony was being the problem of water pollution. These people affected or those pollution side effect. Like polio and various - typhoid etc..... Some of the people facing calcium, discromy and even deficiency problem. Children and adults are also facing health issues for water pollution of drinking water.

The solution of these problem one and only awareness about water importance and how the pollution avoid recovery, and has to source water, bodies

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 pollution :-

Water pollution is the contamination of water in water bodies such as rivers, oceans, lakes, and swamps. This means that one or more substances have built up in water to extent of causing problems to people, animals and plants.

So whether or not water is considered to be polluted will depend on what that water was to be used for.

Causes of Water Pollution

There are numerous causes of water pollution. The main ones are listed below: type of source.

1. Point Source:

It is directly to be influence, here pollutants travel directly from source to water.

Point sources are easy to regulate.

The main sources of water pollution are as follows.

* Community water wastes include discharge from house, commercial establishments connected to public sewerage system.

to public sewerage ~~system~~ system.

2. Industrial waste : The Industrial discharge several inorganic and organic pollution which can have highly toxic living beings.

3. Agricultural sources :-

* Fertilizers contain major plant nutrients such as nitrogen, phosphorus and potassium.

* Excess fertilizers so many be mixed with surface water at rivers, lakes and ponds by runoff and drainage.

* Pesticides :- Include, insecticides, fungicides, herbicides, nematocides, and soil fumigants. They contain a.w.p.

They contain a.w.p.

range of chemicals such as chlorinated hydrocarbons:

4. Underground water pollution :-

* In India, at many places, the ground water is threatened with contamination due to seepage from industrial and municipal waste to and effluents of sewage, chemical and agricultural run off.

5. Marine pollution :-

* Oceans are the ultimate sink of all natural and man-made pollutants.

* Rivers discharge their pollutants into the sea. The sewage and garbage of coastal cities are also dumped into the sea.

6. Garbage : plastics are non-biodegradable mass plastic, clay water bodies and construction, water.
7. Urbanization : urbanization is a key factor in increasing the amount of water pollution.
8. Pumping solid waste : - Humans often carelessly dump their trash in the basin or near rivers.
9. Oil spills : Accidental oil spills have devastating effect on seas.
10. Dissolved solid waste : Human polluting gases in the air can dissolve into salt and precipitation and pollute it.

Control Measures:

- * Riparian practices
- * Recycle
- * Treatment of sewage water and the industrial effluents should be done before releasing it into water bodies.
- * Hot water should be cooled before release from the power plants.
- * Domestic cleaning in tanks, streams and rivers, which supply drinking water should be prohibited.

Ground water pollution

- * Any addition of artificial substance to ground water caused by human activities is considered to be contamination if it has, after being assumed.

that contaminants left on or under the ground will stay here.

Source of ground water pollution

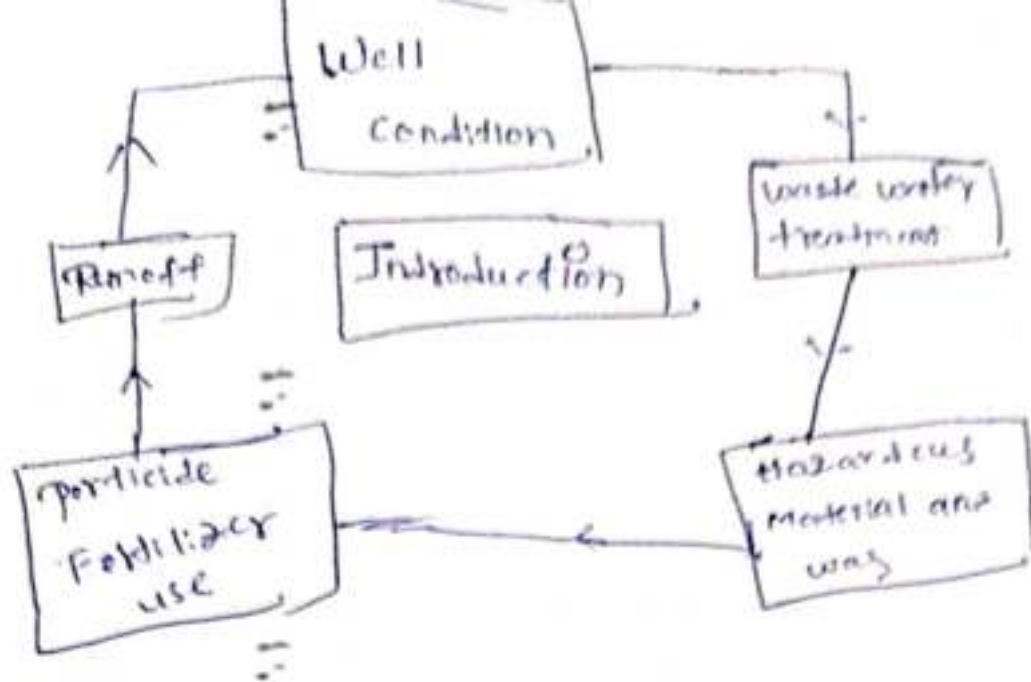
→ Most concern over ground water contamination has centered on pollution associated with human activities.

→ Human ground water contamination has centered on the waste disposal system.

land disposal of solid.

→ Municipal waste water waste water impoundments land spreading of sludge, brine, disposed from the petroleum industry.

→ Mine waste deep-cell herbicides and animal waste are agricultural sources of ground



Student Self-Evaluation for the Community Service Project

Student Name: D. Bhanu chandra

Registration No: 120130805019

Period of CSP: From: To:

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:


Signature of the Student

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

Student Name: D. Bhanu chandra
Registration No: - 720130805019
Period of CSP: From: To:
Date of Evaluation:
Name of the Person in-charge:
Address with mobile number: 8184916891, NTR colony, part area

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



INTERNAL ASSESSMENT STATEMENT

Name Of the Student: Darapu Bharu chandra

Programme of Study:

Year of Study: 2020-2023

Group: BSc (M.P.C)


Register No/H.T. No: 720130805019

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

University: Andhra University.

SLNo	Evaluation Criterion	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

Date:

Seal:


Signature of the Head of the Department/Principal



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of Andhra Pradesh)

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