

Model Program Book  
**COMMUNITY  
SERVICE  
PROJECT**



Designed & Developed by



**ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

**SURVEY ON WATER POLLUTION  
AT ITOWN AREA, VISAKHAPATNAM**

By  
**GANJA MAHESH**

**RGD NO: 720130805022**



**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**

Mrs. A.V.N College



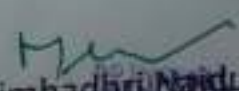
Estd : 1860


Visakhapatnam - 530001

Andhra Pradesh

### CERTIFICATE

This is to certify that project entitled as "Survey on BLOOD GROUPING use by people report at I Town area, Visakhapatnam" is bonafide work done by GANJA MAHESHA (Regd.no: 720130805022), B.Sc - M.P.C student under my guidance. I certify that the project work done by him/her is original and has not been submitted to any other information.

  
(M. Simhadri Naidu)  
Mrs. A.V.N. COLLEGE  
PRINCIPAL VISAKHAPATNAM

  
(V. PADHAMINI)  
MENTOR



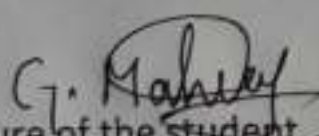
## DECLARATION

I, G. MAHESH, Student of II B.Sc – M.P.C,  
Mrs. A.V.N College, affiliated to Andhra University here by declared that  
this project entitled "Survey on BLOOD GROUPING use by people at  
Town area, Visakhapatnam. is a genuine work carried out by me under  
the guidance of Mrs. V. PADHAMINI, Lecturer in Chemistry, Mrs. A.V.  
N College, Visakhapatnam, Andhra Pradesh.

Further more, this project work was not submitted to any other  
institution or university for awarding any degree.

DATE:

PLACE: VISAKHAPATNAM

  
Signature of the student

# PROGRAM BOOK FOR COMMUNITY SERVICE PROJECT

Name of the student: Dr. MAHESH

Name of the College: MYS AUN DEGREE COLLEGE

Registration Number: 720130805022

Period of CSP: From 26/9/22 To 5/11/22

Name & Address of the Community / Habitation: 4-68-47-1 A. Colony  
pat office ward  
Wishakapaliam  
-530022

Andhra University

YEAR

## Community Service Project Report

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

Name of the College: MYS. AVN DEGREE COLLEGE

Department: BSC [m.p.c]

Name of the Faculty Guide:

Duration of the CSP: From 26/9/22 To 2/11/22

Name of the Student: G. MAHESH

Programme of Study: Community service project - water pollution.

Year of Study: 2020-22

Register Number: 720130805022

Date of Submission:



## Student's Declaration

I, G. MAHESH a student of C.S.P Program,  
Reg. No. 220130805022 of the Department of BSC [mp],  
MYS. AVN DEGREE College do hereby declare that I have completed  
the mandatory community service from 26/9/22 to 5/10/22 in  
L.B Colony (Name of the Community/Habitation) under the Faculty  
Guideship of \_\_\_\_\_ (Name of the Faculty Guide), Department  
of \_\_\_\_\_ in \_\_\_\_\_ College

(Signature and Date)

### Endorsements

V. Padma  
Faculty Guide

P. KRISHNA MARI  
HOD IN CHEMISTRY  
DEPARTMENT OF CHEMISTRY  
MRS. A.V.N. COLLEGE  
VISAKHAPATNAM-530001

[Signature]  
PRINCIPAL  
MRS. A.V.N. COLLEGE  
VISAKHAPATNAM

## Certificate from Official of the Community

This is to certify that G. MAHESH (Name of the Community  
Service Volunteer) Reg. No. 220130805022 of MVS AUN DEGREE (Name of  
the College) underwent community service in  
L. B Colony (Name of the Community) from 26/9/22 to  
5/11/22. The overall performance of the Community Service Volunteer during  
his/her community service is found to be \_\_\_\_\_ (Satisfactory/Good).

  
P. B. N. Thota  
(Verbal Secretary)  
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 pollutants".

Also I am thankful to my faculty guide from Mrs. Avni Degree College, Ushakapalan, 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 Lantusby colony about to list out the part city Wshakapatnam. which have several types of water pollutions, are there industrial sites, waste water would be major contributors to water pollution and also another causes include to water pollution.

The whole colony was divided into to quadrates of 700x400 meters. The surroundings untreated waste water directly contribute chlorophenical, typhoid, fever and other diseases.

## 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.

Laxmanpur colony is located in Mishkatipur 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 sources are oxygen demand, waste water discharge, modern washing powder and they chemical pollution ground water pollution.

Nitrate phosphates are leading type of contaminants 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. With increase 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 decided into colony town discussion	learned about water pollution types	by
Day - 2	Identify and tabulated the list of home members	Studied types of pollution water - gas.	by
Day - 3	Identify and tabulated the number of members the line 1 and 2	we locate the storage of water bodies	by
Day - 4	Identify and the tabulated the colony in line 3 & 4	we observed state of water bodies pollution	by
Day - 5	Identify and the members list of the line	Studied water pollution of causes	by
Day - 6	Studied the structure of water pollution in whole are of claudisby colony	learned identification of water pollution	by



## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

The household of waste  
factories or agricultural lands,  
gets discharged into rivers. our lakes  
-rivers waste can either be in the form  
of liquid waste, garbage or sewage  
the harmful chemical coming out  
of this waste can damage aquatic life.  
not just the aquatic  
life, even when the humans end up  
drinking polluted water, they make  
themselves vulnerable to various  
life threatening illness like hepatitis  
cholera, typhoid, and many other  
water borne disease.



### 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	chr
Day - 2	Using the data and awareness camp has been conducted in the community	learned about causes of water pollution in area	chr
Day - 3	By the campaign the awareness about the water pollution	learned about various threats being our area.	chr
Day - 4	The campaign has been continued and created awareness on value of pollution	learned about causes of water pollution	chr
Day - 5	The campaign has been continued and created awareness about water pollution	learned about various threats being by pollution	chr
Day - 6	The campaign has been continued and created awareness about protective measures	learned about protective measures to be taken to rescue of water	chr

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

The pollution happens when water flowing down streams get contaminated at different points. Cities may get polluted by sewage and industrial effluents. Waste water goes into the oceans, rivers etc.

The oxygen content in polluted water is lower. This causes the death of several organisms. Drinking water should be safe for consumption. Water is required in the body and depends on several factors including maintaining health.



### ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	The data obtained 1st and 2nd weeks is analyzed	learned about how to prepare a data analysis	(K)
Day - 2	The analyzed data is written on the paper in required	learned about methods of tabular form	(K)
Day - 3	The pictures has been collected which were taken	learned about methods of data presentation	(K)
Day - 4	Pic charts and tabular form were prepared	learned about preparation of tabular form	(K)
Day - 5	Information obtained is updated in the data report.	learned about information updated in the data report	(K)
Day - 6	The reported data soft verified once again.	learned about how to prepare data analyzed	(K)



## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Water pollution is the cause of our undisciplined action and is responsibility we humans are only creating problems than can sequentially water is essential to our body.

The pollution happens when water flowing down streams get contaminated at different point water not only our thirst but also plays a critical role in keeping us healthy.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	The community project report paper - online book were downloaded.	People in our colony using mineral water	J
Day -2	The data obtained and prepared literature were entered in the programme book.	facilities should be created.	J
Day -3	The pictures taken during project were printed.	Axons should be created in lanes buy colony	J
Day -4	The pictures taken were printed and fixed in the project.	People are in L.B colony are using filters	J
Day -5	The programme book papers are arranged in order.	Peoples are affordable to drinking	J
Day -6	The programme book has given for binding work	Peoples are affordable to drinking municipal water.	J

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Ground water it is a source of a water that is under the land surface it is accessible by wells, tube well and hand pumps.

This type of source is found on the surface of the earth like ponds, rivers etc. rain water is the major source of water from rain. chlorine and chloramine are the major used in public water systems.

Safe and readily available drinking water is key to public health.



ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	People are drinking mineral water in L-B colony.	People in L-B colony prefer mineral water.	<u>ESJ</u>
Day - 2	Some people are receiving the municipal water.	Drinking of municipal water in ground water.	<u>ESJ</u>
Day - 3	many people are affordable to drink the ground water.	they are affordable to drink the ground water.	<u>ESJ</u>
Day - 4	Some people are suffering with joint pain.	Drinking better water.	<u>ESJ</u>
Day - 5	many people are facing poor water facilities in L-B colony.	good facilities are should be created.	<u>ESJ</u>
Day - 6	many people are getting the water flow outside.	Awaras should be created here L-B colony.	<u>ESJ</u>

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Safe and readily available drinking water is key to public health. Community water systems and water supply plans (wsp) are important ways to assure the health of a community and access to drinking water.

A community water system supplies water to the same population served in many places. Communities lack the capacity to efficiency about their current system for water sanitation and hygienical to the community is changing needs. Traditional water purification methods include boiling, filtration, sedimentation and solar radiation. water borne diseases are more common in rural coming, where potable water supply coverage is very low.



## 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 alogal blo come is their consumption of oxygen supplies. This means that those species which depend upon oxygen to survive are killed off, while aerobic ones thrive which can make the water even more dangerous to animals and humans too.

### Surface water pollution :-

Referring to all water sources 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

- \* L.B colony is rich in water resources have several benefits values most of the people in the area don't know their value.
- \* Due to this they are refusing to protect them.
- \* The people in this study area loosing 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 loosed our pure water sources

\*

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
- + septic tanks
- + avoid using the toilet as a waste basket
- + storm water management.
- + green agriculture.

### Solutions:-

Before raw sewage can be safely released back onto the environment, it needs to be treated. Usually in a water treatment plant in a sewage goes through a number of chambers and chemical process to reduce the amount and toxicity of the water.



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

AWARENESS ABOUT WATER:-

Public water Conservation Campaigns receive awareness in all levels of society about the importance of saving water to cope with its scarcity and ensure sustainability. The aim is to change citizen attitudes and behavior to improve water use efficiency.

AWARENESS PROGRAMMES:-

S-NO	Name of programme	mode	date
1.	Awareness programme on water conservation	Prakash news paper phone-in programme	29-05-2019
2.	Community Based water resource management	Krishna dhan (Chaudhary Verma) phone in programme	23-06-2020
3.	on occasion of world water day Salade moolya - ragde karyaya	Krishna dhan Chaudhary Verma phone in programme	22-03-2021



### 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 water to extent of causing problem to people, animals, plants.

Addition of certain substances of the water such as organic, inorganic, biological, radiological, heat with which degrades the quality of water so that it becomes unfit for use. Water pollution is not only confined to surface water, but it has also spread to ground water, sea and oceans.

## Causes of water pollution :-

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

### Point sources :-

+ It is directly to one effluence. Here pollutant travels directly from source to water.

\* Point sources are easy to regulate.

2. Diffuse or non-point source.

It is from various ill-defined and diffuse sources. They vary spatially and temporarily and are difficult to regulate.

The main sources of water pollution are as follows :-

1. Community waste water include discharges from houses, commercial and industrial establishments connects to public sewage system. The sewage contains human and animal extra. food residues, cleaning agents, detergents and other wastes.



### Industrial waste :-

The industrial discharge several inorganic and organic pollutants, which may have highly toxic to the living beings.

### Agricultural sources :-

# fertilizers contain major plant nutrients such as nitrogen, phosphorus and potassium.

Excess fertilizers so many seep the ground water by leaching & may be mixed surface water of rivers, lakes and ponds by run off and drainage.

# pesticides include, insecticides, fungicides, herbicides, nematocides, rodenticides and soil fumigants they contain a wide range of chemicals such as chlorinated hydrocarbons. Their residues have long life.

# The animal excreta as such dung, wastes from poultry farms, piggeries and slaughter houses etc. seep the water through run off and surface leaching during season.



### Thermal pollution :-

\* The main sources are the thermal and nuclear power plants.

\* The power plants use water as coolant and release hot water to the original source.

\* Sudden rise in temperature kills fishes and other aquatic animals.

### Underground water pollution :-

In India at many places the ground water is threatened with contamination due to seepage from industrial and municipal waste and effluent sewage chambers and agricultural run off.

### Marine pollution :-

\* Oceans are the ultimate sink of all natural and manmade pollutants.

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

\* The other sources of oceanic pollution are navigational discharge of oil, grease, detergents, sewage, garbage and plastic refuse, wastes, off shore oil, mining oil spills.

### untreated sewage from house holds:-

\* Dye, lotion, soap, hair oil shampoo and many other products also contribute in water pollution. These products go to the sewage without any treatment.

\* untreated sewage pipes break, there is a chance that the water bodies in the process.

\* when sewage pipes break, there is a chance that the water will contaminate drinking water sometimes. Poorly treated sewage is released into water bodies. Domestic cleaning products can be very dangerous pollutants.



garbage :- plastics are non-biodegradable, mass plastic bag water bodies and contaminate water.

urbanization :- urbanization is a key factor in increasing the amounts of water pollution.

Dumping solid waste:-

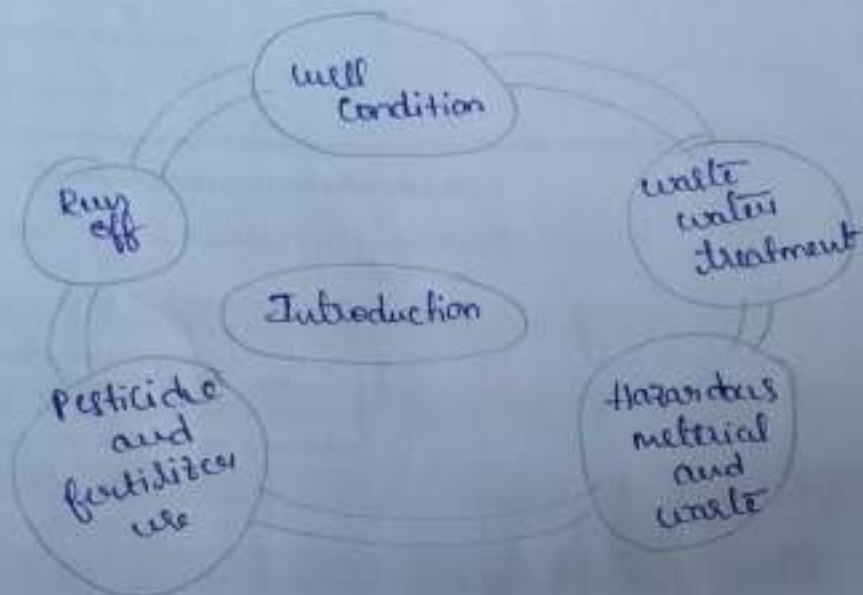
Humans, often carefully dump their trash in the season near cities.



## 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 onto waste disposal system. Land disposal of solid waste, municipal waste water impoundments and spreading of sludge being disposal from the petroleum. Industry mine waste - deep-well disposal from the petroleum and animal waste are agricultural source of ground.



*Student Self-Evaluation for the Community Service Project*

Student Name: G. MAHESH

Registration No: 710130805022

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

Page No:



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

Student Name: E. MAHESH

Registration No: 720130805022

Period of CSP: From: To: 26/9/22 to 5/11/22

Date of Evaluation:

Name of the Person in-charge:

Address with mobile number: 6303211496, L B Colony, Utharapatnam

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
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14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Signature of the Supervisor

Date:

Page No:

## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: G. MAHESH  
Programme of Study: water pollution  
Year of Study: 2022-23  
Group: BSC (mpc)  
Register No/HT. No: 720130805022  
Name of the College: MYS. AVN DEGREE COLLEGE  
University: ANDHRA PRADESH, 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

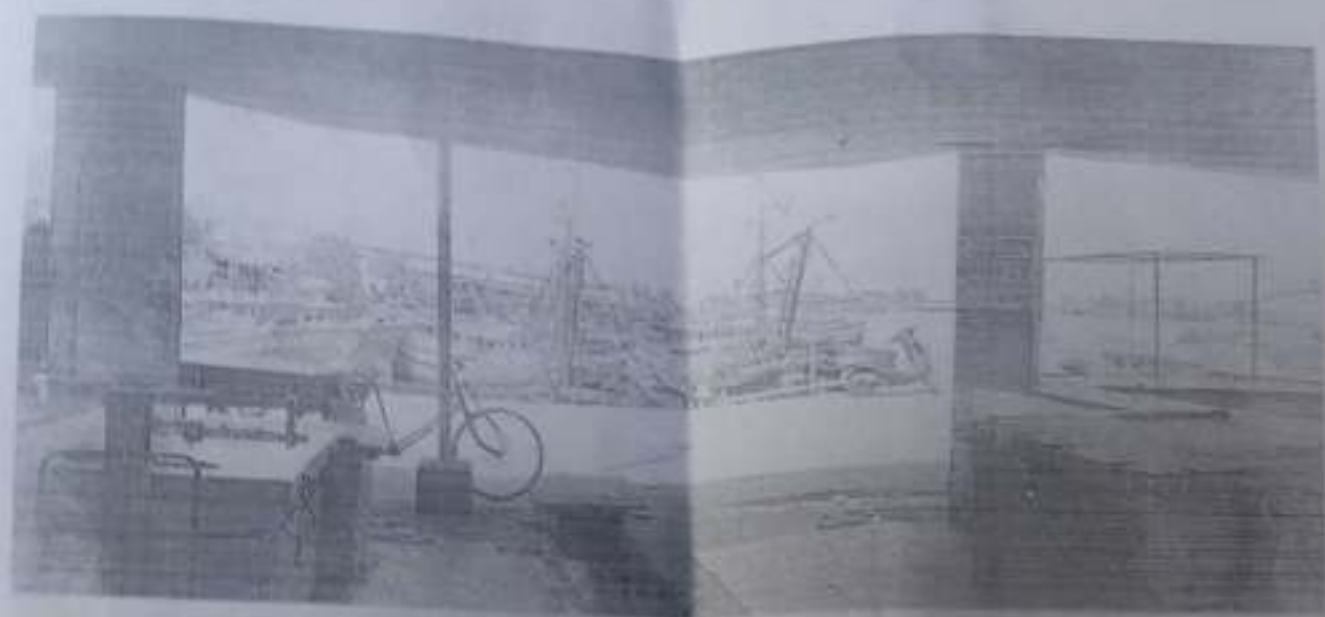
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Date:

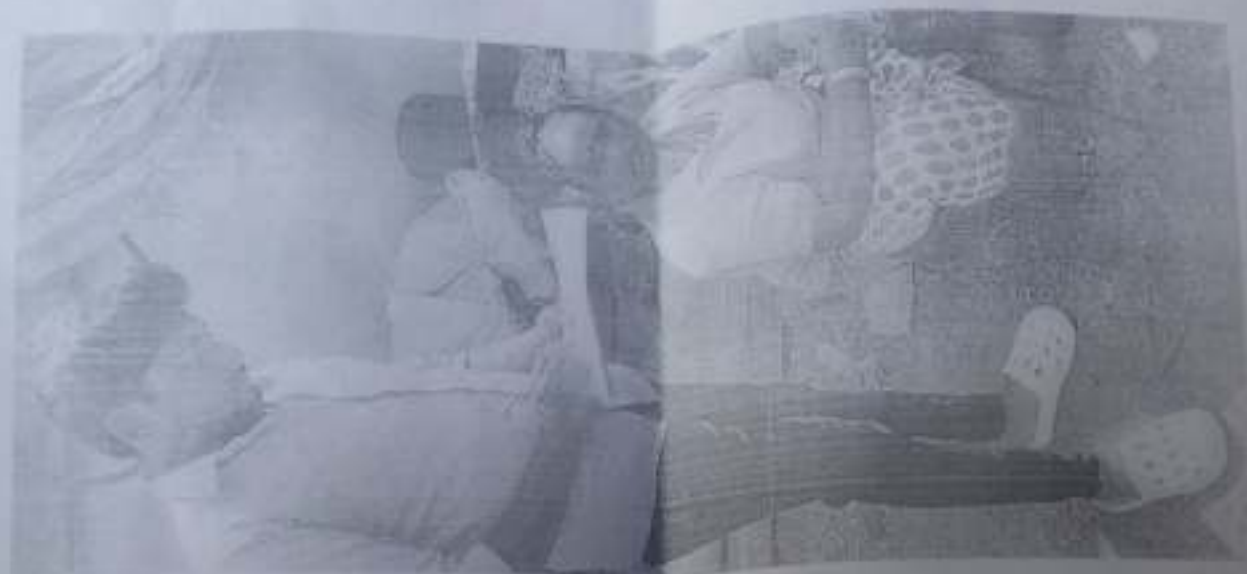
Seal:

Signature of the Head of the Department/Principal  
KRISHNA KUMARI  
HOD IN CHEMISTRY  
DEPARTMENT OF CHEMISTRY  
MRS. A.V.N. COLLEGE  
VISAKHAPATNAM-530001

Page No:











## **ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

(A Statutory Body of the Government of Andhra Pradesh)

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