

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: Patnala Noeka Raju

Name of the College: MRS. A.V.M. college

Registration Number: 720130805056

Period of CSP: From: 12-09-2022 To: 12-11-2022

Name & Address of the Community / Habitation :

Andhra University

YEAR

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

*By*

**PATHALA NOOKA RAJU**

Regd. No. 720130805056



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, **PATHALA NOOKA RAJU**, 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, VISAKHAPATNAM**" 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

*P. Nooka Raju*  
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 **PATHALA NOOKA RAJU** (Regd. No. 720130805056) 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  
Mrs. A.V.N. COLLEGE  
VISAHAPATNAM

  
(K. Kanaka Mahalakshmi)  
Mentor

## 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 12-9-2021 To 12-11-2022

Name of the Student: Pathala Nooka Raju

Programme of Study: Water Pollution

Year of Study: 2020-2023

Register Number: 720130805056

Date of Submission:



## Student's Declaration

I, P. Nooka Raju, a student of M.P.C Program,  
Reg. No. \_\_\_\_\_ of the Department of Chemistry  
Mrs. A.V.N College College do hereby declare that I have completed  
the mandatory community service from 12-09-2021 to 12-11-2021 in  
Port area (Name of the Community/Habitation) under the Faculty  
Guideship of \_\_\_\_\_, (Name of the Faculty Guide), Department  
of English in A.V.N College

P. Nooka Raju  
(Signature and Date)

### Endorsements

[Signature]  
Faculty Guide

[Signature]  
Head of the Department

[Signature]  
Principal **PRINCIPAL**  
**Mrs. A.V.N. COLLEGE**  
**VISAKHAPATNAM**

## Certificate from Official of the Community

This is to certify that P. NCEKA Ratu (Name of the Community Service Volunteer) Reg. No 720130305056 of MYS. A.V.M college (Name of the College) underwent community service in pat area (Name of the Community) from 12-09-2024 to 12-11-2022. 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 faculty guide from MYS-A.V.M college Vistha Patnam for being a source of support during this training period

Patihla Nooka Patna  
72030805056

## 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 N.T.R Colony about to list out the Port City ~~Wastewater Treatment~~ which have several types of water pollutions are there industrial sites wastes water pollution and also another causes include water pollution

The whole colony was divided into 70 quadrates of 700x400 meters. The sanitizing untreated waste water directly contributes cholera, mephenical typhoid fever and yata virus

## 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.P colony is located in Nizakhapatam district in the state of Andhra Pradesh India

water pollution is any chemical physical change in the quality of water that has harmful effect or water pollution water pollution sources is organic manure waste mine drainage modern washing powders and they chemical pollution ground water pollution nutrient pollution which includes 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.

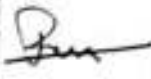



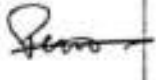
In this area water pollution pollutes the quality of the water in the water bodies many disease can spread through waste water cause the disease of fever malaria

water 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 water pollution causes some disease

### ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	visit the study area and divided into colony four divisions	learned about water pollution types	
Day - 2	Identify and tabulated the list of house members	studied types of pollution wastages	
Day - 3	Identify and tabulate the number of members the line long 2	we locate the shortage of water pipes	
Day - 4	Identify and tabulate the colony in line 3 & 4	we observed note of water pipes pollution	
Day - 5	Identify and the numbers list of 5th line	studied water pollution of houses	
Day - 6	studied the abundances of water pollution in water area of village	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	<u>Ch</u>
Day -2	using the data and awareness camp has been conducted in the community	learned about how to make a campaign	<u>Ch</u>
Day -3	by the campaign create awareness about the water pollution	learned about causes of water pollution in area	<u>Ch</u>
Day -4	The campaign has been continued and created awareness on value of pollution	learned about various threats facing by pollution The community area	<u>Ch</u>
Day -5	The campaign has been continued and created awareness about drinking water	learned about various threats facing by pollution in community area	<u>Ch</u>
Day -6	The campaign has been continued and created awareness about protective measure of plants	learned about protective measure be taken to rescue of water	<u>Ch</u>



### 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 1 <sup>st</sup> and 2 <sup>nd</sup> weeks is analysed	learn about how to prepare a data analysis	KE
Day - 2	The analysed data is written on the paper in required manner	learn about method of data presentation.	KE
Day - 3	The pictures has been collected which were taken during camp	learn about methods of data presentation	KE
Day - 4	pie charts and tabular forms were prepared	learn about preparing updated in the data report	KE
Day - 5	Information obtained is updated in the data report	learn about information updating in the data report	KE
Day - 6	The Reported data self verified are Again	learn about how to prepare and report data analysis.	KE

### ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	few people were drinking mineral water in shinerly.	people in N.R. colony purifying mineral water.	Jand
Day - 2	Some people are securing the mineral water.	Drinking mineral water in their area.	Jand
Day - 3	many people are affordable to drink the ground water.	They are able to drink the ground water.	Jand
Day - 4	Some people are suffering and joint pains hand drinking water.	Drinking purified water.	Jand
Day - 5	many people were family poor were facing in N.T.R colony.	good farming are should to cultivate.	Jand
Day - 6	many people are getting the water from outside due to coming pollution.	Acquies should be given by N.T.R colony.	Jand

### ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Few people are doing mineral water in Shivajinagar.	people in NTR along with many mineral water.	<i>[Signature]</i>
Day - 2	Some people are creating the municipal water.	drinking water along in the area.	<i>[Signature]</i>
Day - 3	many people are of tend to buy to drink the good water.	They are able to drive the good water.	<i>[Signature]</i>
Day - 4	Some people are suffering with the pain by drinking water.	drinking water.	<i>[Signature]</i>
Day - 5	many people are finding poor water quality in NTR.	good facilities are should be provided.	<i>[Signature]</i>
Day - 6	many people are getting the water from outside due to water provided.	Access should be created here in NTR.	<i>[Signature]</i>

## 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 microorganisms are capable of producing ammonia, sulphides and other harmful toxins 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

- \* NTR 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 in this study area losing several valuable resources contaminated due to this improper conservation
- \* Due to insufficient knowledge to people in the area are refusing to conserve the plants and lot of our pure water sources.
- \* In the area of NTR colony peoples doesn'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 are high level and their quantity is being shortage there is a necessity to conserve those types of conserving the water sources.

- \* Pick up or litter and throw it away in garbage can.
- \* blow or sweep fertilizer back onto the grass if it gets onto paved areas - don't put fertilizer on the grass right before it rains. The chemicals will wash into storm drains - and water ways.
- \* Wash our vehicles or outdoor equipment where it can flow to gravel or grassy area instead of a street.
- \* Muck 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 facing the problem of water pollution those people affected of those pollution side effects like polio and vomiting typhoid, etc ---, some of the people being calcium deficiency and iron deficiency problems, children's and adult's are also being health issues for water pollution of drinking water.

The solution of these problems one and only awareness about water importance and how to pollution resources and how to save our 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 substance 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 go to be used for.



## Causes of water Pollution

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

### 1. Point Source

- It is directly to be to influence here pollutant travels directly from source to water.
- Point source are easy to regulate
- The main source of water pollution are as follows;
- Community waste water, include discharges from houses, commercial and institutional establishments connects to public sewage system.

## 2. Industrial Waste:

The industries discharge several inorganic and organic pollutants which may have slightly toxic to the living beings.

## 3. Agricultural Sources:

→ Fertilizers contain major plant nutrients such as nitrogen phosphorus and potassium

→ Excess fertilizers so many reach the ground water by leaching or may be mixed with surface water of rivers lakes and ponds by runoff and drainage

→ Pesticides include insecticides, fungicides, herbicides, nematocides, rodenticides and soil fumigants. They contain a wide range of chemicals such as chlorinated hydrocarbons

## 4 Underground Water pollution

→ In India at many places the ground water is treated with contamination due to seepage from industrial and municipal waste to effluents sewage channels and agricultural runoff.

## 5 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.

## 6. Garbage:

Plastics are non-biodegradable materials that clog water bodies and contaminate water.

## 7. Urbanization:

Urbanization is a key factor in increasing the amounts of water pollution.

8. Pumping Solid Waste: Humans, after carelessly dump their trash in the sewer 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 the salt and fresh water and pollute it.

## Control measures

→ Riparian purifiers

→ Recycle

→ Treatment of sewage water and the industrial effluents should be done before releasing it water bodies.

→ Hot water should be cooled before release from the power plants.

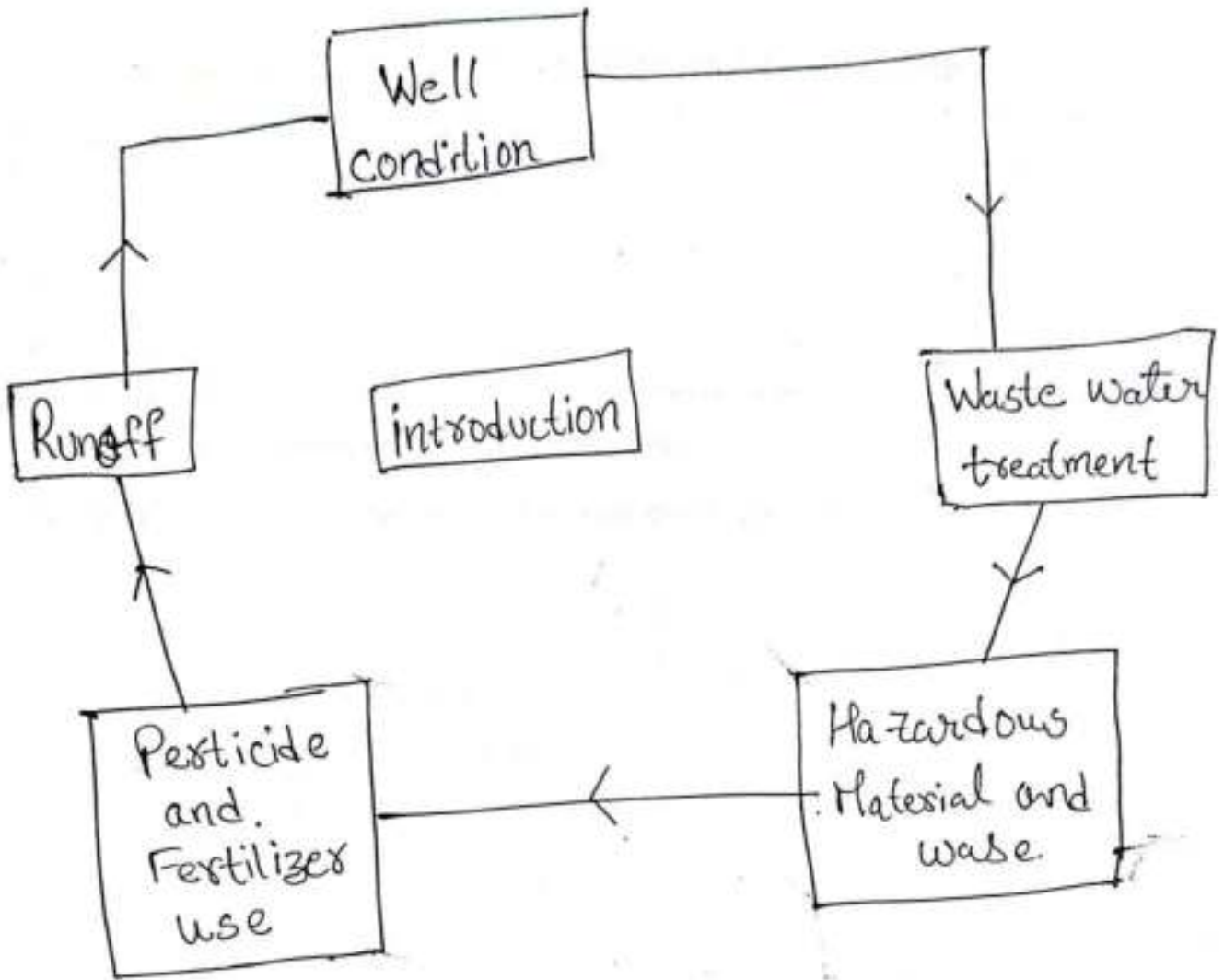
→ Domestic cleaning in tanks, streams and rivers, which supply drinking water should be prohibited.

## Ground Water Pollution

→ Any addition of undesirable substance to groundwater caused by human activities is considered to be contamination. It has after been 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 waste disposal system and disposal of solid.
- Municipal waste water, waste water impoundments and spreading of sludge. Brine disposed from the Petroleum industry
- Mine waste, deep cell herbicides and animal waste are agricultural source of ground



## Student Self-Evaluation for the Community Service Project

Student Name: P. Nooka Raju

Registration No: 720130805056

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:

P. Nooka Raju  
Signature of the Student



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

Student Name: ~~S. D.~~ P. NOOKA RAJU

Registration No: 720130805056

Period of CSP: From: To:

Date of Evaluation:

Name of the Person in-charge:

Address with mobile number: 6300204928, NTR COLONY PART 2/1A

Please rate the student's performance in the following areas:

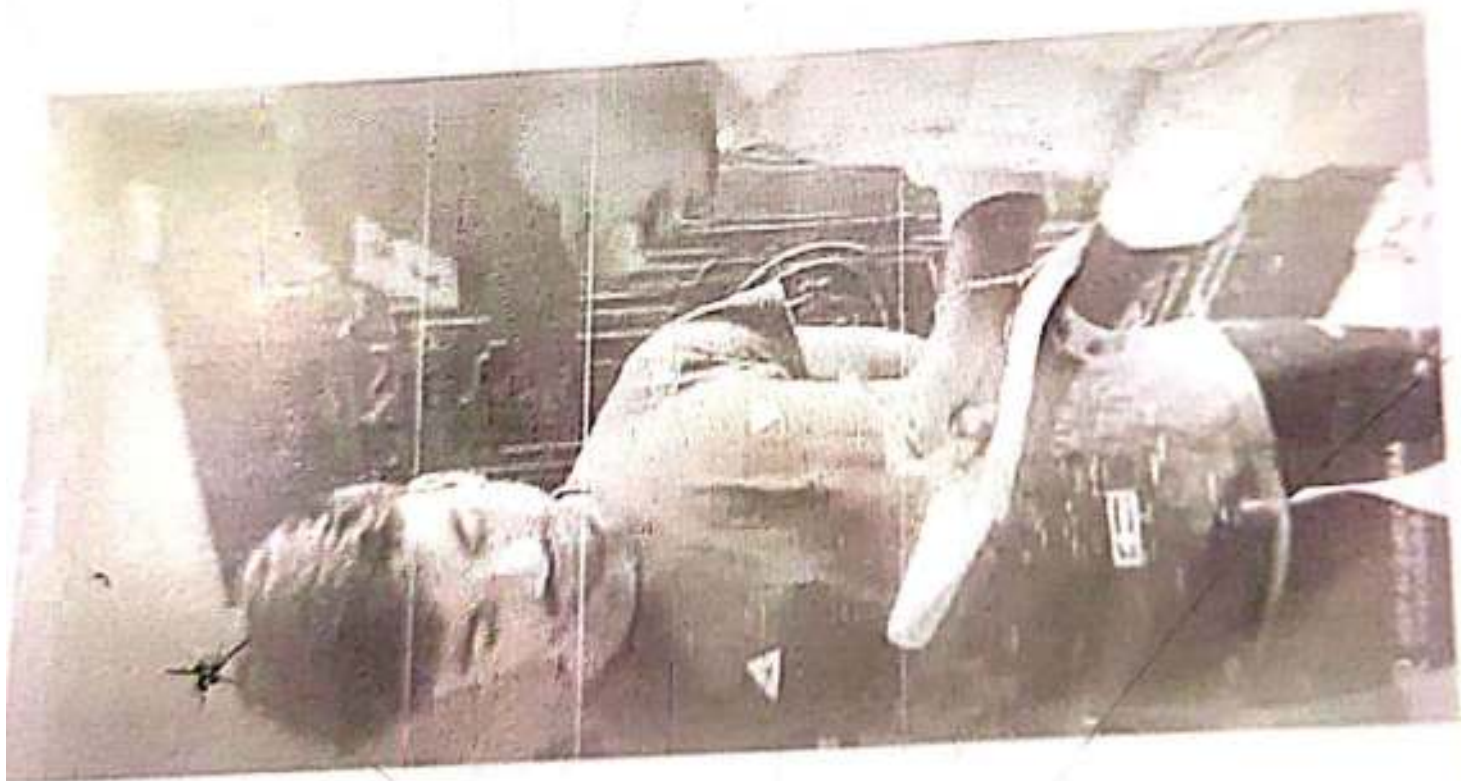
Please note that your evaluation shall be done independent of the Student's self-evaluation

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: Pathala Nooka Raju  
Programme of Study:  
Year of Study: 2020-22  
Group: B.S.C MPC  
Register No/H.T. No: 720130805056  
Name of the College: Mrs P.V.M 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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