

**GOVERNMENT DEGREE COLLEGE, NARASANNAPETA**

**Dr. B. R. AMBEDKAR UNIVERSITY, SRIKAKULAM**

**DEPARTMENT OF PHYSICS**

**COMMUNITY SERVICE PROJECT REPORT**

**(Batch 2022-2023)**



**PROJECT NAME: WATER FACILITIES AND DRINKING WATER  
AVAILABILITY**

**Submitted by**

**( TANGI CHAKRADHAR )**

**(II B. Sc M.P.C.S ; Reg No :2022004050021 )**

**Under the Mentorship of**

**P.DHILLISWARA RAO**

**Lecturer in PHYSICS**

**Government Degree College, Narasannapeta  
Srikakulam District-532421**

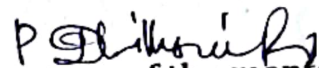
**GOVERNMENT DEGREE COLLEGE, NARASANNAPETA  
SRIKAKULAM DISTRICT**

Ph: 08942-277007 email.id:narasannapeta.jkc@gmail.com  
Website:www.gdcnarasannapeta.ac.in)

DEPARTMENT OF PHYSICS

**CERTIFICATE**

This is to certified that **TANGI CHAKRADHAR, M.P.C.S, regd no:2022004050021** has successfully completed his/her Community Service Project on **WATER FACILITIES AND DRINKING WATER AVIALIABILITY** as part of U.G. curriculam during the academic year of 2022-2023 under the guidance of **smt.P.DHILLISWARARAO** Lecturer in **PHYSICS** Government degreecollege,Narasannapeta,Srikakulam. It is further certified that the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate to the best of my knowledge.

  
Signature of the mentor  
LECTURER  
(**P.DHILLISWARARAO**)  
NARASANNAPETA

DATE : 5/08/2022  
STATION: Narasannapeta

## DECLARATION

I hereby declared that the project report entitled "WATER FACILITIES AND DRINKING WATER AVAILABILITY" in my original work and has not been published or submitted for any degree ,diploma or other similar titles elsewhere. This has been undertaken for the purpose of partial fulfillment of B.Sc (MPCS) in Govt. Degree College, Narasannapeta.

*Chakradhar*

Signature of the student

Date:

(Reg No: 2022004050021)

*P. Shanthi Han*

PRINCIPAL  
GOVT. DEGREE COLLEGE  
NARASANNAPETA-532 421  
Srikakulam Dist.

## ACKNOWLEDGEMENT

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 "WATER FACILITIES AND DRINKING WATER AVAILABILITY"

I would like to express my gratitude to the Ward member and sarpanch of B. SANKARARAO to do community service project. I am thankful to Smt M. Shanthi ham, Principal of Government Degree College, Narasannapeta for their support and encouragement throughout the tenure of the project, I am also thankful to my faculty mentor Smt. P.Dhilliswararao, lecturer in Chemistry, GDC Narasannapeta for being a source of support during this period. I am thankful to my friends.

STUDENT NAME

(TANGI .CHAKRADHAR)

Reg No: 2022004050021



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# **INTRODUCTION**

**Community Service is considered the Backbone of the modern education system. Educational Institutions play an important role in the development of the Indian economy . Educational Institutions had played an important role in bringing Educational revolution, in removing indifference of wealth , and in attaining Balanced Regional Development.**

**Before the New Educational Policy , the condition of the education system was very terrible. Students were merely spectators and got knowledge in a mechanical manner. There was no connectivity between Industry and academia . There was no direct contact and impact of the student on society.**

**New Educational Policy stressed the need of student service to the Community and Industry-academia connectivity . This enables the student to learn and understand societal issues and tries to give an amicable solution. He became a participant in the country's development process. As a part of this , this Community Service Project has been done.**

## **AIMS AND OBJECTIVES**

### **Aims:**

To make students experimental learning strategy and learning meaning full community service with instruction, participation, learning and community development.

### **Objectives:**

- Community service project involves students in community development and service activities and applies the experience to personal and academia development.
- To help students to realize the stark realities of society.
- To bring about and attitudinal change in the students and help them to develop societal consciousness sensibility, responsibility and accountability.
- To make students aware of their inner strength and help them find new out of box solutions to the social problems.
- To make students socially responsible citizens who are sensitive to the needs of disadvantaged sections.
- To develop a holistic life perspective among the students by making them study culture, traditions, habits, life style, resource utilization, wastage and its management, social problems, public administration system and the roles and responsibilities of different persons across different social systems.
- Community service is meant to link the community with the college for mutual benefit.

## LEARNING OUTCOMES

- Students able to get knowledge on water resources , facilities around their areas .
- Students get awareness on sanitation and drainage water System problems and get knowledge on prevention methods for corresponding.
- Promote to Hygiene habits , Enhancing the feeling ownership ,Active citizenship.
- Students get experiential learning strategy that integrates meaningful community service with participation learning and community development.

## SURVEY DESIGN

### "WATER FACILITIES AND DRINKING WATER AVAILABILITY"

Safe drinking water and sanitation are important elements in safeguarding health of the people. The lack of water supply and sanitation is the primary reason for diseases transmitted via feces, which are so common in developing countries. Much of the ill health is due to poor environmental sanitation that is unsafe water.

The term Sanitation is the science of safeguarding health, as per NSF of USA sanitation is way of life. It is the quality of living that is expressed in the clean home, clean farm, clean business, the clean neighborhood and the clean community, being a way of life it is must come from within the people, it is nourished by knowledge and grows as an obligation and an ideal in human relations. The term environmental sanitation has been defined by WHO as the control of all those factors in humans physical environment which exercise a deleterious effect on his physical development, health and survival.

Water is fundamental for health and life, the human body is 70% of water, without water we couldn't maintain a normal body temperature, lubricate the joints, or get rid of waste through urination, sweat, and bowel movement. Not getting enough water can lead to dehydration, which can cause muscle weakness and cramping, increased risk of heat stroke. In fact water is so important that a person couldn't last more than five days without it. Institute of Medicine's Food and Nutrition Board recommended that women need 91 ounces of water and men need 125 ounces. Water can be contaminated in several ways. It can contain microorganisms like bacteria and parasites that get in the water from human or animal fecal matter. It can contain chemicals from industrial waste or from spraying crops. Nitrate used in fertilizers can enter the water with runoff from the land. Various minerals such as lead or mercury can enter the water supply, sometimes from natural deposits underground or more often improper disposal. The EPA has set minimum testing schedules for specific pollutants to make sure that levels remain safe.

- Safe and wholesome water is free from pathogenic organisms, harmful chemical substances.
- Sources of water : There are three main sources
- Rain Surface water (Reservoirs, Rivers, ponds, lakes)
- Ground water (Shallow wells, Deep wells, Springs)
- Waterborne diseases
  - ❖ Viral - Viral hepatitis A,E, rotavirus diarrhea
  - ❖ Bacterial – Typhoid, bacillary dysentery, E-coli diarrhea, Cholera
  - ❖ Protozoal – amoebiasis etc.....

### **Well Water:**

Well water safety can be effected by many factors including

- How the well was built
- Where it is located
- How it is maintained
- Human activities in your area

The EPA recommends that you talk with local experts, have your well water tested regularly, and not let problems go untended.

Indians drank 20 billion gallons of bottled water in previous year. It is increasing year by year. One argument advanced for the use of bottled water is its safety, yet there isn't the same guarantee of safety with bottled water as there is for the water in your tap. There is no guarantee that the bottle of water you bought is safe.

**Contaminants in the pipes:** Occasionally, your tap water can become contaminated as a result of breaks in the water line, although one of the biggest problems is lead getting into the water from pipes. Even "lead-free" pipes can contain as much as 8% lead. The best way to avoid consuming lead from tap water is to only use water from cold tap for drinking, cooking, making baby formula and to let the water run for a minute before using it.

How contaminated water effects your health depends on the type of contaminants. Does boiling contaminated water make it safe to drink? It depends on the contaminant. Boiling water can kill germs, but things like lead, nitrates, and pesticides aren't affected. Since boiling reduces the volume of water, it increases the concentration of those contaminants. Cryptosporidium is a pathogen that sometimes gets into water supplies. It can cause a gastrointestinal disease that could be fatal.



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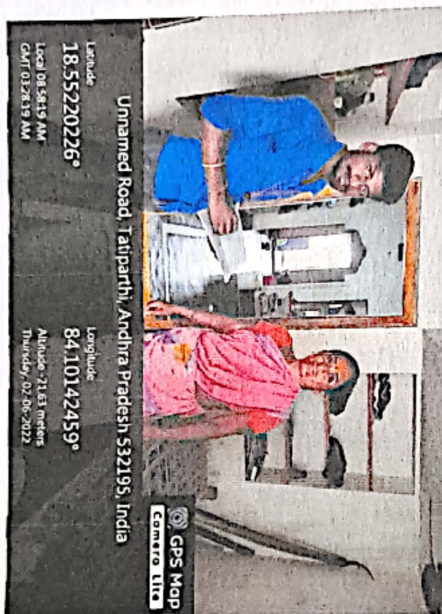
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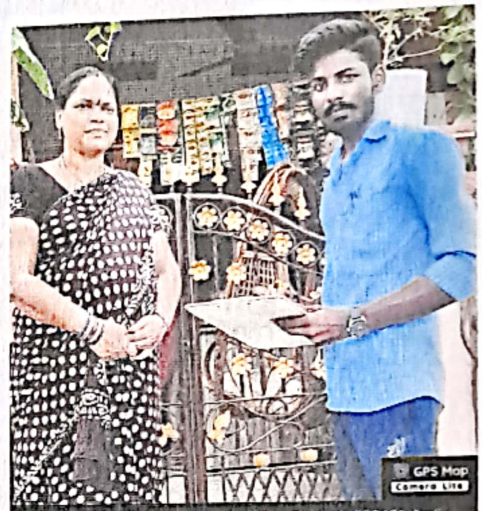
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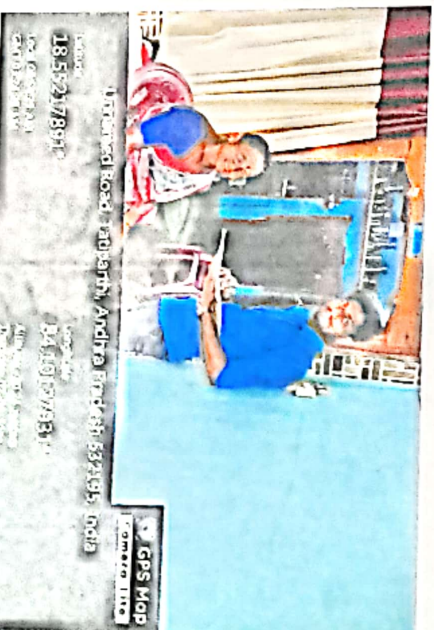
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H432+HQ, Tatiparthi, Andhra Pradesh 532195, India  
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2, Lachumannapeta St. Adivarapu Peta, Narasannapeta, Andhra Pradesh 532421, India

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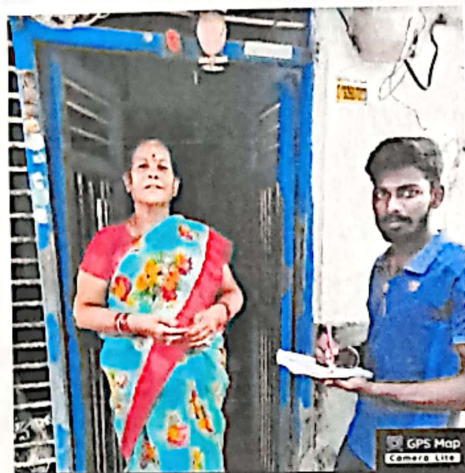
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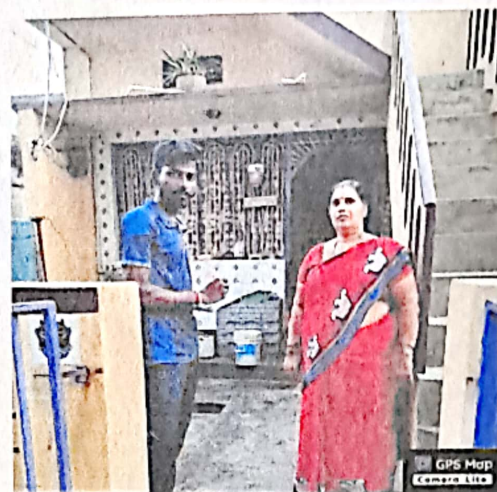
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Latitude 18.41075016° Longitude 84.04526101°  
Local 10:16:12 AM Altitude -34.53 meters  
GMT 04:46:12 AM Wednesday, 08-06-2022



C26W+GHX, Adivarapu Peta, Narasannapeta, Andhra Pradesh 532421, India

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Local 10:26:43 AM Altitude -47.56 meters  
GMT 04:56:43 AM Thursday, 09-06-2022



C26V+4WR, Kalivarapupeta St. Adivarapu Peta, Narasannapeta, Andhra Pradesh 532421, India

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Local 06:02:15 PM Altitude -35.87 meters  
GMT 12:32:15 PM Tuesday, 07-06-2022



C26V+4WR, Kalivarapupeta St. Adivarapu Peta, Narasannapeta, Andhra Pradesh 532421, India

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GMT 12:32:38 PM Tuesday, 07-06-2022



C26V+4WR, Kalivarapupeta St. Adivarapu Peta, Narasannapeta, Andhra Pradesh 532421, India

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Local 06:00:50 PM Altitude -35.85 meters  
GMT 12:30:50 PM Tuesday, 07-06-2022



C26V+4WR, Kalivarapupeta St, Adivarapu Peta, Narasannapeta, Andhra Pradesh 532421, India

Latitude	Longitude
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C27P+3R6, Narasannapeta, Andhra Pradesh 532421, India

Latitude	Longitude
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C27P+3R6, Narasannapeta, Andhra Pradesh 532421, India

Latitude	Longitude
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GMT 06:21:48 AM	Saturday, 04-06-2022

**GOVERNMENT DEGREE COLLEGE-NARASANNAPETA**  
**DEPARTMENT OF PHYSICS**  
**LOG BOOK FOR COMMUNITY SOCIAL SERVICE PROJECT**

Name of the Student : TANGI . CHAKRADHAR  
 Group : BSc [MPCS]  
 Register No : 2022004050021

S.No	Date and Day	No of Houses visited	Activity Conducted	Signature of the student
01.	02-06-2022	03	Water Survey	T. Chakradhar
02.	03-06-2022	03	Water Survey	T. Chakradhar
03.	04-06-2022	02	Water survey	T. Chakradhar
04.	07-06-2022	02	Water Survey	T. Chakradhar
05.	08-06-2022	03	Water Survey	T. Chakradhar
06.	09-06-2022	02	Water Survey	T. Chakradhar
07.	10-06-2022	02	Water survey	T. Chakradhar

P. D. Jeyaraj  
 Signature of the Mentor  
 LECTURER  
 Govt. Degree College  
 NARASANNAPETA



**GOVERNMENT DEGREE COLLEGE-NARASANNAPETA**  
**DEPARTMENT OF PHYSICS**

Name of the Student : T. Chakradhar Register No : 2022004050021  
Semester / Year/Course/Group : MPCs (BSC) II<sup>nd</sup> year  
Name of the Guide/Mentor and Department : P. Dhileswarao  
Community Social Service Project -Socio Economic Survey

1. Address of the family : 167-1, Tatiparthi (V), Kotabommali (M), Srikakulam (D)

2. Family Details :

S NO	Name of The Person	Gender	Age	Education	Profession
1	T. Yesukulu	male	41	-	driver
2	T. Eswaramma	Female	38	-	farmer
3	T. Mahesh	male	22	Degree completed	-
4	T. Chakradhar	male	19	Degree	-

3. Social Status details : i) Caste : BC-D (SC/ST/BC-A/B/C/D /OC)  
ii) Religion : Hindu

4. Economic Status details :

- i) Type of House Building : Hut/semi pucca/pucca/apartment/bungalow/rented or own  
ii) Availability of Agricultural land : Yes/No if yes ----- acres.  
iii) Names of crops :  
iv) Cattle : ----- cows ----- ox ----- buffaloes ----- sheep/goats -----  
v) Do you have own toilet : Yes/No  
vi) Type cooking fuel used : LPG/Kerosene/Electricity/wood/others specify -----  
vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle ----

5. Health Details :

- i) Diseases in family : No  
ii) Do you have Government Arogyasri Card : Yes/No

6. Other details :

- i) Do you have TV : Yes/No  
ii) Do you have Dish connection : Yes/No  
iii) Channels watched regularly : 1. ETV 2. MAATV 3. Gemini TV  
iv) Do you have Mobile : Yes/No, Mobile number : 9441001347 Laptop : yes/no, internet availability : Yes/No  
v) Is internet available at home : Yes/No

7. Name of the Govt. Schemes received :

Jagananna Vidhya Deevena/Jagananna Vasati Deevena / Raithu Bharosa /Any other :

8. Any three problems faced in the village : Drainage , water , street lights

Place : Tatiparthi

Date : 02-06-2022

P. Dhileswarao  
Signature of the Mentor

T. Chakradhar  
Signature of the Student

**GOVERNMENT DEGREE COLLEGE :: NARASANNAPETA**  
**DEPARTMENT OF PHYSICS**

Title of the Project

***"WATER FACILITIES AND DRINKING WATER AVAILABILITY"***

**Questionnaire for the Project**

1. What type of Water System do you have:  
a) Own Tap with overhead tank ☒ b) Underground water well/bore c) Community Tap
2. What type of water do you use for drinking ☒ a) Mineral Water b) Tap Water c) Ground Water
3. How do you evaluate the quality of your drinking water  
☒ a) Very Good b) Satisfactory c) Dissatisfied
4. Do you drink water from Outside : a) At hotels b) Other Places ☒ c) No
5. What kind of Sewage System do you have  
a) In house pit  
☒ b) Drainage System  
c) Polluted Water is driven into open space i.e; Ground etc
6. How do you wash up/take bath  
a) By running water under tap ☒ b) Use bucket and Mug c) Shower/Sauna
7. What kind of washroom do you use: a) Flush ☒ b) Bucket/Mug c) ODF
8. How much Water do you use for a day: a) 10lit b) 15lit c) 20lit ☒ d) More
9. Do you experience water shortages  
a) No ☒ b) Rarely c) Almost every year d) It is constant problem
10. Do you have water conservation methods: a) Pits ☒ b) Community action c) None
11. Are you suffering any water borne diseases: a) Malaria ☒ b) Cholera c) Scabies d) Typhoid
12. Does the water you use is a) Fluoride water b) Hard water ☒ c) None
13. How often do you clean water storage tanks per year  
a) Once ☒ b) 2-3 times c) 4 times d) >6 times
14. Are you interested to learn Water conservation methods: Yes/No ☒
15. How much water is used in your family per a day  
a) 60lit b) 80lit c) 100lit ☒ d) More
16. How much water is used for drinking (only) in your total family per a day  
a) 30 lit b) 40 lit ☒ c) 50 lit d) none
17. Is there any RO System ( water plant) in your village: yes/no ☒
18. How many RO System (water plant) are there in your village :  
a) 1 ☒ b) 2 c) 3 d) None
19. What type of Water bodies are there in your village  
a) Pond b) Lake c) River ☒ d) a or b
20. Is your village comes under coastal area: yes/no ☒

\*\*\*\*\*