

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA

Dr. B.R. AMBEDKAR UNIVERSITY, SRIKAKULAM

DEPARTMENT OF CHEMISTRY

COMMUNITY SERVICE PROJECT REPORT

(Batch 2021-2022)



**PROJECT NAME: "DETECTION OF ADULTERANTS IN SOME
COMMON FOOD – STUFF"**

Submitted by

(PALABOYINA SANTOSHI)

(II B.Sc (CBZ); Reg No :2122004049025)

Under the Mentorship of

P SRIVIDYA

Lecturer in CHEMISTRY

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

**GOVERNMENT DEGREE COLLEGE, NARASANNAPETA
SRIKAKULAM DISTRICT**

(Accredited with B by NAAC Ph: 08942-277007
email.id:narasannapeta.jkc@gmail.com
Website:www.gdcnarasannapeta.ac.in)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

Certified that the project report titled

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD - STUFF" is
the bonified work of **PALABOYINA SANTOSHI (Reg .No :2122004049025)**
who carried out the project work under the supervision of Smt P.Srividya. 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.

P. Srividya

Signature of the Mentor

DATE:

STATION:

DECLARATION

I hereby declare that the project report titled "DETECTION OF ADULTERANTS IN SOME COMMON FOOD - STUFF" 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(CBZ) in Govt. Degree College, Narasannapeta.

Paraboyana Santoshi
Signature of the student

Date:

(ReNo:2122004049025)

- "Detection of Adulterants In Some Common Food-Stuff....."

*..... Dedicated to my favorite and
Respected teacher P. SRIYIDYA Madam*

ACKNOWLEDGEMENT

I would like to express my greatest gratitude to the people who have helped & supported me throughout my project. I am grateful to my teacher, DR PALASMONI SAIKIA for his continuous support for the project, from initial advice & contacts in the early stages of conceptual inception & through ongoing advice & encouragement to this day.

I wish to thank my parents for their undivided support and interest who inspired me and encouraged me to go my own way, without whom I would be unable to complete my project.

A special thank of mine goes to my best friend who helped me in completing the project & he exchanged his interesting ideas, thoughts & made this project easy and accurate.

At last but not the least I want to thank my friends who appreciated me for my work and motivated me and finally to God who made all the things possible.....

PALABOYANA SANTOSHI

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:

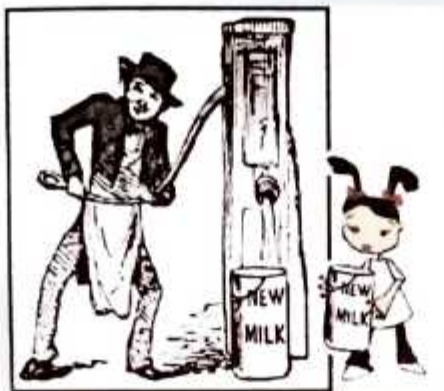
To make students experimental learning strategy and learning meaning full community service with instruction, participation, learning and community development.

Objectives:

- Community service project involves students in community development and service activities and applies the experience to personal and academic development.
- To help students to realize the stark realities of society.
- To bring about an 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.



STOP ADULTERATION NOW!!



A PROJECT WORK

SUBMITTED TO

DEPARTMENT OF CHEMISTRY

GOVT. DEGREE COLLEGE, NARASANNAPETA

On

***“DETECTION OF ADULTERANTS IN
SOME COMMON FOOD-STUFF”***



SUBMITTED BY-

PALABOYANA SANTOSHI

B.Sc 1st YEAR

ROLL NO- 212200404925. YEAR- 2021-22.

Govt. Degree College, Narasannapeta

UNDER THE GUIDANCE OF-

P. SRIVIDYA.

LECTURER IN CHEMISTRY

Govt. Degree College, Narasannapeta



CHAPTER- (1)

INTRODUCTION

**SOME ADULTERANTS IN
COMMON FOOD**

**IMPACT OF ADULTERANTS
DIFFERENT CHEMICAL
TESTS FOR DETECTION OF
ADULTERANTS**

INTRODUCTION

The Objective of this project is to study some of the common food adulterants present in different food stuffs.

Adulteration in food is normally present in its most crude form; prohibited substances are either added or partly or wholly substituted. Normally the contamination/adulteration in food is done either for financial gain or due to carelessness and lack in proper hygienic condition of processing, storing, transportation and marketing. This ultimately results that the consumer is either cheated or often become victim of diseases. Such types of adulteration are quite common in developing countries or backward countries. It is equally important for the consumer to know the common adulterants and their effect on health.

The increasing number of food producers and the outstanding amount of import foodstuffs enables the producers to mislead and cheat consumers. To differentiate those who take advantage of legal rules from the ones who commit food adulteration is very difficult. The consciousness of consumers would be crucial. Ignorance and unfair market behavior may endanger consumer health and misleading can lead to poisoning. So we need simple screening, tests for their detection. In the past few decades, adulteration of food has become one of the serious problems. Consumption of adulterated food causes serious diseases like cancer, diarrhea, asthma, ulcers, etc. Majority of fats, oils and butter are paraffin wax, castor oil and hydrocarbons. Red chilli powder is mixed with brick powder and pepper is mixed with dried papaya seeds. These adulterants can be easily identified by simple chemical tests.

Several agencies have been set up by the Government of India to remove adulterants from food stuffs. Selection of wholesome and non-adulterated food is essential for daily life to make sure that such foods do not cause any health hazard. It is not possible to ensure wholesome food only on visual examination when the toxic contaminants are present in ppm level. However, visual examination of the food before purchase makes sure to ensure absence of insects, visual fungus, foreign matters, etc. Therefore, due care taken by the consumer at the time of purchase of food after thoroughly examining can be of great help. Secondly, label declaration on packed food is very important for knowing the ingredients and nutritional value. It also helps in checking the freshness of the food and the period of best before use. The consumer should avoid taking food from an unhygienic place and food being prepared under unhygienic conditions. Such types of food may cause various diseases. Consumption of cut fruits being sold in unhygienic conditions should be avoided. It is always better to buy certified food from reputed shop.





SOME ADULTERANTS IN COMMON FOOD

Majority of adulterants used by the shopkeepers are cheap substitutes easily available. For example, adulterants in fats,oils and butter are paraffin wax,castor oil and hydrocarbons. Read chili powder is mixed with brick powder ,turmeric powder is mixed with yellow lead salts and pepper is mixed with dried papaya seeds. Similarly sugar is contaminated with washing soda and other insoluble substances, milk is adulterated with starch,argemone oil is used to adulterate mustard oil,vanaspati ghee is mixed with deshi ghee,beson is mixed with khesari dal etc.These type of adulterants makes a food stuff inferior.

IMPACT OF ADULTERANTS

Every day we hear and watch live on television sets how the food items are being adulterated and this spurious, unhygienic and harmful food is entering our houses. We have seem how milk and milk products are being made from urea, soap and other harmful chemicals. We all know that vegetables are being given injections to make them grow faster and overnight. The other day we saw how steroids were being injected to chickens to make them into a hen in a very short span of time. We have also come across evidence as to how the fruits are being ripened with the use of harmful chemicals.

Adulteration of food causes several heath problems in humans. Some of the health hazards include stomach ache, body ache, anemia, paralysis, and increase in the incidence of tumors, pathological lesions in vital organs, abnormalities of skin and eyes. Hence food adulteration should be given great importance due to its effect in the health significance of the public. The people are suffering from heart disease, kidney failure, skin diseases, asthma and other chronic diseases. The people are hapless victims of this adulteration industry running in full swing and unchecked.

DIFFERENT CHEMICAL TESTS FOR DETECTION OF ADULTERANTS



Food adulteration has now become a burning problem. The adulterants used are so similar to natural foodstuffs that it becomes very difficult for a common man to detect them. A few simple tests can be done to detect adulterants found in common foodstuffs.

1. METANIL YELLOW IN PULSES

Shake 5 gms: of the suspected pulses with 5 ml of water. Add a few drops of hydrochloric acid. A pink colour shows the presence of metanil yellow.

2. KESARI DAL IN CHANNA OR OTHER DALS

Add 5 ml of normal hydrochloric acid to a small quantity of dal in a glass. Keep the glass in simmering water for 15 minutes. Development of pink colour indicates the presence of Kesari dal. By visual detection-shape of dal. The kesari dal is wedge shaped.

3. WATER IN MILK:

Measure the specific gravity with a lactometer. The normal values will fall between 1.030 and 1.034. Milkmen are wise to the test and may dilute the milk only to the right density, so this is only a rough test.

4. STARCHES IN MILK:

Add a drop of iodine solution to a small quantity of milk. Milk containing starch turns blue. Pure milk turns a coffee shade.

5. VANASPATI IN PURE GHEE

Take about one teaspoonful of melted butter with an equal quantity of concentrated hydrochloric acid in a test tube. Add 2 or 3 drops of furfural solution. Shake it well for one minute and let it stand for five minutes. Appearance of pink colour in the lower layer of acid means that vanaspati is present in pure ghee/butter as an adulterant.

6. ARGEMONE OIL IN MUSTARD OIL

Heat the mixture of oils with a little amount of nitric acid for two to three minutes. A red colour will appear if argemone is present

7. CHALK OR ANY OTHER DUST OR DIRT IN SUGAR

Dissolve sugar in water, the impurities will settle down at the bottom. Etc.

CHAPTER -(2)

- **INTRODUCTION**
- **DETECTION OF STARCH IN MILK**
- **DETECTION OF YELLOW DYE IN TURMERIC POWDER**
- **DETECTION OF VANASPATHI GHEE IN DESHI GHEE**
- **DETECTION OF ARGEMONE OIL IN MUSTARD OIL**
- **DETECTION OF WASHING SODA, CHALK POWDER AND WATER INSOLUBLE SUBSTANCES IN SUGAR**
- **DETECTION OF RED COLOURED LEAD SALTS IN CHILLI POWDER**
- **DETECTION OF KHEASARI DAL IN BESON**



2.1 INTRODUCTION

The Objective of this project is to study some of the common food adulterants present in different common food stuffs. In this project different food items are tested in laboratory by some tests to detect the adulterants present. Moreover, different samples of each food item are also taken and their quality is specially analysed. The batch no, serial no, date of expiry, and date of modification are also noted for the packeted samples of the food items. The way in which the experiments had taken as described in this chapter and result for each sample has written here

2.2 DETECTION OF STARCH IN MILK

Along with water, a very common adulterant of milk is starch. Milk consists of three basic components which are water (about 80%), fat (about 3.5%) and solids containing protein, lactose and mineral matters (about 8.5%). Milk is adulterated with starch to maintain the thickness of fat extracted milk or diluted milk. The presence of starch can be detected by adding iodine solution to milk.

Reagent used- Iodine solution or tincture of iodine.

Procedure- At first 5 mL of milk sample is taken in a test tube and is boiled for 3-4 minutes. Then it is cooled and 1-2 drops of iodine solution is added to it and is shaken well.

Detection- Appearance of blue colour indicates the presence of starch in the sample.

Table for different samples-

| SL NO | SAMPLES | BATCH NO. | RESULT |
|-------|-----------------|------------|---------------------|
| 1. | Amul TAZA | B5087M | Adulterant absent. |
| 2. | Diary milk | ----- | Adulterant present. |
| 3. | Nestle EVERYDAY | 127304514A | Adulterant absent. |
| 4. | Amulya | 4B8790 | Adulterant absent. |



Sample-1



sample-2



Sample-3



sample-4

Milk samples



DETECTION OF YELLOW DYE IN TURMERIC POWDER

Turmeric(haladhi) powder is a popular natural dye used in cooked food. The powder is often adulterated with rice powder, besan, wheat powder etc. which makes the colour of the turmeric pale. To make the colour bright, often lead chromate, which is a poisonous chemical or coal tar dye is added to turmeric powder.

a) DETECTION OF LEAD CHROMATE-

Reagents: Concentrated HCL and 1% diphenyl carbazide in rectified spirit.

Procedure: 1g of the turmeric powder sample is taken in a test tube and 5ml of concentrated HCL is added to it. The mixture is shaken thoroughly. Now 1ml of 1% diphenyl carbazide reagent is added.

Detection: Appearance of pink to red colour indicates the presence of lead chromate, $PbCrO_4$, in the sample.

b) DETECTION OF COAL TAR DYE-

Reagents: Concentrated HCL and petroleum ether (40-60°C).

Procedure: 5g of the sample is taken in a test tube and 10mL petroleum ether is added to it. The mixture is shaken vigorously and is allowed to stand. 5 mL of conc. HCL is added and is again shaken thoroughly.

Detection: The aqueous acid becomes pink to red in colour if coal tar is present.

Table for different samples-

| SL.NO. | SAMPLES | BATCH NO | RESULT |
|--------|------------------|----------|---------------------|
| 1. | MDH Haldi powder | GN-60 | Adulterant absent. |
| 2. | Open sample | ---- | Adulterant present. |
| 3. | Bharat haldi | KL29 | Adulterant present. |



Sample-1



sample-2



sample-3

HALDI SAMPLES

DETECTION OF VANASPATI(VEGETABLE)GHEE INDESHI GHEE(MILK PRODUCT)



Deshi ghee, which is a milk product is much costlier than vanaspati ghee. So, deshi ghee is often adulterated with vanaspati ghee. Vanaspati ghee contains sesame oil, which is not present in deshi ghee. Sesame oil reacts with the mixture of conc. HCL and furfural solution to produce rose red colour. This test is known as Baudouin test.

Reagent: Concentrated HCL and 2% solution of furfural in alcohol.

Procedure: 5mL of melted ghee sample is taken in a test tube. 5mL of conc. HCL is added to it. Then 2-3 drops of 2% solution of furfural is added in alcohol. The mixture is shaken and is allowed to stand for about 10 minutes.

Detection: Appearance of rose red colour indicates the presence of vanaspati ghee in the ghee sample.

Table for different samples-

| SL. NO. | SAMPLES | BATCH NO. | RESULT |
|---------|----------------|-----------|---------------------|
| 1. | Amul ghee | 11N307 | Adulterant present. |
| 2. | Annapurna ghee | M907B | Adulterant absent. |



Sample-1



sample-2

GHEE SAMPLES

DETECTION OF ARGEMONE OIL IN MUSTARD OIL



Argemone oil is a non-edible oil which is often used to adulterate vegetable oil or fat. Argemone oil can be easily detected by FeCl_3 solution test.

Reagent: Concentrated HCl , 10% FeCl_3 solution (dissolve 10g to anhydrous FeCl_3 in 10mL concentrated HCl and dilute to 100 mL with distilled water).

Procedure: In a test tube, 5mL of the mustard oil sample is taken and 2mL of conc HCl is added to it. Then it is shaken vigorously and is warmed in a little water bath for 5 minutes. It is shaken intermittently during warming. 1mL of 10% FeCl_3 solution is added and is mixed it by rotating the test tube between the palms. The mixture is heated in a boiling water bath for about 10 minutes.

Detection: Reddish brown needle like crystals appear at the junction of the acid and oil, if argemone oil is present.

Table for different samples-

| SL. NO. | SAMPLES | BATCH NO. | RESULT |
|---------|-------------------------------|-----------|--------------------|
| 1. | DHARA mustard oil | A3K02 | Adulterant absent. |
| 2. | ASSAM VALLEY pure mustard oil | 07 | Adulterant absent. |
| 3. | Open sample | ----- | Adulterant absent. |



Sample-1



sample-3

OIL SAMPLES



DETECTION OF WASHING SODA, CHALK POWDER AND WATER INSOLUBLE SUBSTANCE IN SUGAR

Chalk powder is a water insoluble substance which is often used as a common adulterant in sugar. Moreover sugar is usually contaminated with washing soda.

a) Detection of various insoluble substances-

Reagent: concentrated H_2SO_4 , alcoholic solution of α -naphthol, dil HCl.

Procedure: A small amount of sugar is taken in a test tube and is shaken with little water. Pure sugar dissolves in water but insoluble impurities do not dissolve.

Detection: Insoluble substances appear at the bottom of the test tube if they are present.

b) Detection of chalk powder, washing soda-

Reagent: dil. HCl

Procedure: To a small amount of sugar taken in a test tube, a few drops of dil. HCl are added and observed.

Detection: Brisk effervescence of CO_2 shows the presence of chalk powder or washing soda in the given sample of sugar.

Table for different samples-

| SL.NO. | SAMPLES | BATCH NO | RESULT |
|--------|---------------|----------|---------------------|
| 1. | Open sample | ----- | Adulterant present. |
| 2. | Packed sample | ----- | Adulterant absent. |



Sample-1



sample-2

SUGAR SAMPLES



DETECTION OF RED COLOURED LEAD SALTS IN CHILLI POWDER

Chilli powder often adulterated with red are coloured lead salts n brick powders.

Reagents: dil HNO_3 , KI

Procedure: To a sample of chilli powder dil. HNO_3 is added. The solution is filtered and a few drops of potassium iodide solution is added to the filtrate.

Detection: Yellow ppt. indicates the presence of lead salts in chilli powder and insoluble substances indicates the presence of brick powder in the sample.

Table for different samples-

| SL.NO. | SAMPLES | BATCH NO. | RESULT |
|--------|---------------------|-----------|---------------------|
| 1. | MDH Chilli powder | B 17 | Adulterant present. |
| 2. | ADAMS chilli powder | CH 07 | Adulterant present. |



SAMPLE-1



SAMPLE-2

CHILLI POWDER SAMPLES

DETECTION OF KHEsARI DAL IN BESON



Beson powder is usually adulterated with khesari dal which contains butyl oxalyl alanine amine(BOAA) which causes lethargy and ultimate paralysis in lower limbs of human body on regular consumption. The detection of BOAA in beson powder indicates adulteration of it with khesari dal.

Reagents: dil. HCl

Procedure: To 1g of the beson sample is taken in a test tube and 10 mL of 70% HCl is added to it. The content is boiled for some time.

Detection: Development of pinkish colour indicates adulteration of beson with khesari dal.

Table for different samples-

| SL.NO. | SAMPLES | BATCH NO. | RESULT |
|---------------|----------------|------------------|---------------------|
| 1. | Open sample | ----- | Adulterant present |
| 2. | Packed sample | 956G | Adulterant present. |



CHAPTER- 3

CONCLUSION

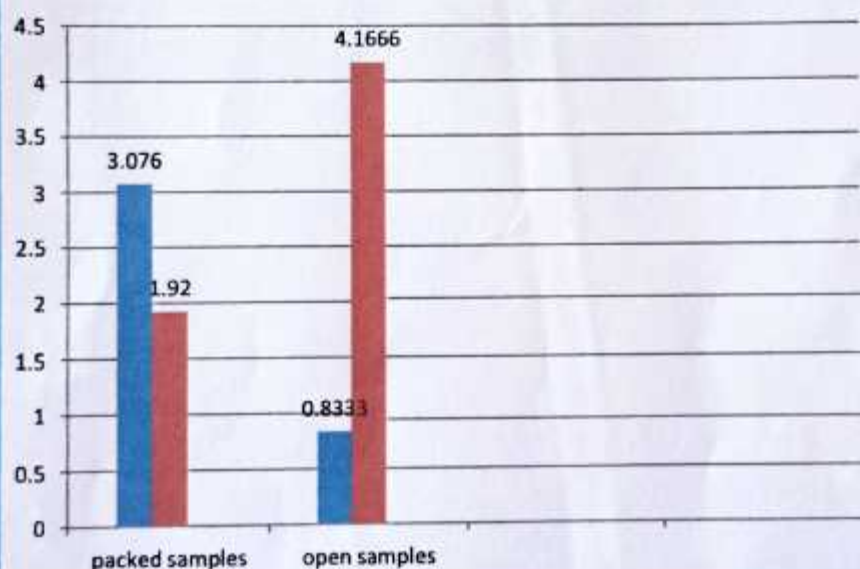
STATISTICAL ANALYSIS OF THE PROJECT



CONCLUSION-

I have studied different chemical reactions involving in the process of detection of different adulterants in different food items. These experiments were performed for the purpose of detecting various adulterants present in common food. The results obtained during these experiments have been shown in this project. The experiments have been performed by common laboratory methods.

STATISTICAL ANALYSIS OF THE PROJECT



ADULTERANT PRESENT



ADULTERANT ABSENT







GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)

DEPARTMENT OF CHEMISTRY

MONTHLY LOG BOOK FOR COMMUNITY SOCIAL SERVICE PROJECT

MONTH 1 (AUGUST - 2022)

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE GUIDE/MENTOR AND DEPARTMENT: Smt, P. Srividya Lecturer in Chemistry

| Sl.No | Date | Day | Time | No of Houses visited | Activity Conducted | Signature of the House Holder |
|-------|----------|--------|-------|----------------------|--------------------|-------------------------------|
| 1 | 21/8/22 | Sunday | 9:31 | 1 | common-food Survey | <u>P. Bhavani</u> |
| 2 | 21/8/22 | Sunday | 11:34 | 1 | common-food Survey | <u>P. Bhavani</u> |
| 3 | 28/8/22 | Sunday | 11:30 | 1 | common-food Survey | <u>B. Lakshmi</u> |
| 4 | 28/8/22 | Sunday | 11:32 | 1 | Common-food survey | <u>Ch. Jagadeesh</u> |
| 5 | 4/9/22 | Sunday | 1:40 | 1 | common-food Survey | <u>M. Srinivas</u> |
| 6 | 15/9/22 | Sunday | 11:34 | 1 | common food Survey | <u>K. Shitharam</u> |
| 7 | 18/9/22 | Sunday | 1:32 | 1 | Common-food Survey | <u>A. Srinivas</u> |
| 8 | 11/9/22 | Sunday | 9:14 | 1 | Common-food Survey | <u>Ch. Srinivas</u> |
| 9 | 8/9/22 | Sunday | 1:44 | 1 | common-food Survey | <u>G. Srinivas</u> |
| 10 | 18/9/22 | Sunday | 12:31 | 1 | Common-food Survey | <u>B. Bhavathi</u> |
| 11 | 25/9/22 | Sunday | 10:12 | 1 | Common food survey | <u>G. Srinivas</u> |
| 12 | 8/9/22 | Sunday | 10:38 | 1 | common food Survey | <u>B. Srinivas</u> |
| 13 | 11/9/22 | Sunday | 11:20 | 1 | common food Survey | <u>B. Bhavathi</u> |
| 14 | 28/10/22 | Sunday | 12:45 | 1 | common-food Survey | <u>B. Srinivas</u> |
| 15 | 08/9/22 | Sunday | 11:36 | 1 | Common-food Survey | <u>Ch. R. Srinivas</u> |
| 16 | 18/10/22 | Sunday | 3:20 | 1 | common-food Survey | <u>A. Srinivas</u> |
| 17 | 15/9/22 | Sunday | 12:31 | 1 | common-food Survey | <u>M. Srinivas</u> |
| 18 | 27/9/22 | Sunday | 10:32 | 1 | Common-food Survey | <u>T. Anand</u> |
| 19 | 10/9/22 | Sunday | 11:29 | 1 | common food Survey | <u>P. Laxmi</u> |
| 20 | 18/10/22 | Sunday | 10:30 | 1 | Common-food Survey | <u>D. Srinivas</u> |

P. Santoshi
Signature of the student

P. Srividya
Signature of the Mentor

GOVERNMENT DEGREE COLLEGE::NARASANNAPETA

DEPARTMENT OF CHEMISTRY

TITLE OF THE PROJECT

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD STUFF"

QUESTIONNAIRE FOR THE PROJECT

1. What type of food do you like most?
a) Home made b) Restaurant c) Road side d) all of the above
2. How do you evaluate the quality of your food?
a) very good b) good c) satisfactory d) dissatisfactory
3. Are you suffering any food related diseases?
a) thyroid b) diabetes c) Acidity d) typhoid
4. Do you take milk and milk products daily: (yes/no)
5. do you have any dairy forms in your surroundings: (yes/no)
6. which type of milk are you used daily?
a) packet milk b) from dairy forms c) Milk powder d) Others
7. what type of water do you use for drinking?
a) mineral water b) tap water c) ground water d) pond water
8. how much water is used (for drinking only) in your family per a day?
a) 30 lit b) 40 lit c) 50 lit d) 60 lit
9. Are you vegetarian: (yes/no)
10. Are you take any soft drinks frequently : (yes/no)
11. which type of healthy routine do you followed?
a) by taking nuts b) by taking fruits c) by following yoga d) taking sufficient water
12. which type of powders (like chilli powder ,turmeric ,cumin etc..) used in your home?
a) home made b) packed c) loose d) None of the above
13. which type of oil preferred in your home?
a) sun flower b) palm c) coconut d) olive
14. are you taking egg in your daily food: (yes/no)
15. average duration of storage of general glossary item after purchasing
a) less than 1 month b) 1 month c) above 1 month d) 2 months
16. Do you used iodised salt: (yes/no)
17. how much amount of sugar content used in your daily life?
a) 3g b) 5g c) 7g d) 10g
18. Most preferred fruit in our home.
a) Guava b) Apple c) Banana d) orange
19. Are you notice the expire date on glossary items: (yes/no)
20. If any of your family member suffer with general flu like cold and cough, which type of remedies do you followed?
a) home made remedies b) Homeopathy c) ayurvedic d) English medicines

GOVERNMENT DEGREE COLLEGE::NARASANNAPETA

DEPARTMENT OF CHEMISTRY

TITLE OF THE PROJECT

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD STUFF"

QUESTIONNAIRE FOR THE PROJECT

1. What type of food do you like most?

- ☒ a) Home made b) Restaurant c) Road side d) all of the above

2. How do you evaluate the quality of your food?

- ☒ a) very good b) good c) satisfactory d) dissatisfactory

3. Are you suffering any food related diseases?

- a) thyroid b) diabetes ☒ c) Acidity d) typhoid

4. Do you take milk and milk products daily:

(yes/no) ☒

5. do you have any dairy forms in your surroundings:

(yes/no) ☒

6. which type of milk are you used daily?

- ☒ a) packet milk b) from dairy forms c) Milk powder d) Others

7. what type of water do you use for drinking?

- a) mineral water ☒ b) tap water c) ground water d) pond water

8. how much water is used (for drinking only) in your family per a day?

- ☒ a) 30 lit b) 40 lit c) 50 lit d) 60 lit

9. Are you vegetarian:

(yes/no) ☒

10. Are you take any soft drinks frequently :

(yes/no) ☒

11. which type of healthy routine do you followed?

- a) by taking nuts ☒ b) by taking fruits c) by following yoga d) taking sufficient water

12. which type of powders (like chilli powder ,turmeric ,cumin etc..) used in your home?

- ☒ a) home made b) packed c) loose d) None of the above

13. which type of oil preferred in your home?

- a) sun flower ☒ b) palm c) coconut d) olive

14. are you taking egg in your daily food:

☒ yes/no)

15. average duration of storage of general glossary item after purchasing

- a) less than 1 month b) 1 month ☒ c) above 1 month d) 2 months

16. Do you used iodised salt:

☒ yes/no)

17. how much amount of sugar content used in your daily life?

- a) 3g b) 5g c) 7g ☒ d) 10g

18. Most preferred fruit in our home.

- a) Guava b) Apple c) Banana d) orange

19. Are you notice the expire date on glossary items:

(yes/no) ☒

20. If any of your family member suffer with general flu like cold and cough, which type of remedies do you followed?

- ☒ a) home made remedies b) Homeopathy c) ayurvedic d) English medicines

GOVERNMENT DEGREE COLLEGE::NARASANNAPETA

DEPARTMENT OF CHEMISTRY

TITLE OF THE PROJECT

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD STUFF"

QUESTIONNAIRE FOR THE PROJECT

1. What type of food do you like most?
a) Home made b) Restaurant ☒ c) Road side d) all of the above
2. How do you evaluate the quality of your food?
☒ a) very good b) good c) satisfactory d) dissatisfactory
3. Are you suffering any food related diseases?
☒ a) thyroid b) diabetes c) Acidity d) typhoid
4. Do you take milk and milk products daily: (yes/no) ☒
5. do you have any dairy forms in your surroundings: (yes/no) ☒
6. which type of milk are you used daily?
a) packet milk ☒ b) from dairy forms c) Milk powder d) Others
7. what type of water do you use for drinking?
a) mineral water ☒ b) tap water c) ground water d) pond water
8. how much water is used (for drinking only) in your family per a day?
a) 30 lit ☒ b) 40 lit c) 50 lit d) 60 lit
9. Are you vegetarian: (yes/no) ☒
10. Are you take any soft drinks frequently : (yes/no) ☒
11. which type of healthy routine do you followed?
a) by taking nuts b) by taking fruits c) by following yoga ☒ d) taking sufficient water
12. which type of powders (like chilli powder ,turmeric ,cumin etc..) used in your home?
a) home made b) packed ☒ c) loose d) None of the above
13. which type of oil preferred in your home?
a) sun flower b) palm ☒ c) coconut d) olive
14. are you taking egg in your daily food: ☒ (yes/no)
15. average duration of storage of general glossary item after purchasing
a) less than 1 month b) 1 month ☒ c) above 1 month d) 2 months
16. Do you used iodised salt: ☒ (yes/no)
17. how much amount of sugar content used in your daily life?
a) 3g b) 5g ☒ c) 7g d) 10g
18. Most preferred fruit in our home.
a) Guava ☒ b) Apple c) Banana d) orange
19. Are you notice the expire date on glossary items: (yes/no) ☒
20. If any of your family member suffer with general flu like cold and cough, which type of remedies do you followed?
a) home made remedies ☒ b) Homeopathy c) ayurvedic d) English medicines

GOVERNMENT DEGREE COLLEGE::NARASANNAPETA

DEPARTMENT OF CHEMISTRY

TITLE OF THE PROJECT

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD STUFF"

QUESTIONNAIRE FOR THE PROJECT

1. What type of food do you like most?
a) Home made ☒ b) Restaurant ☒ c) Road side ☐ d) all of the above ☐
2. How do you evaluate the quality of your food?
a) very good ☐ b) good ☐ c) ~~satisfactory~~ ☒ d) dissatisfactory ☐
3. Are you suffering any food related diseases?
☒ a) thyroid ☐ b) diabetes ☐ c) Acidity ☐ d) typhoid ☐
4. Do you take milk and milk products daily: ☒ (yes/no)
5. do you have any dairy forms in your surroundings: ☒ (yes/no)
6. which type of milk are you used daily?
a) packet milk ☐ b) from dairy forms ☒ c) Milk powder ☐ d) Others ☐
7. what type of water do you use for drinking?
a) mineral water ☐ b) tap water ☐ c) ground water ☒ d) ~~pond water~~ ☐
8. how much water is used (for drinking only) in your family per a day?
a) 30 lit ☐ b) 40 lit ☐ c) ☒ 50 lit ☐ d) 60 lit ☐
9. Are you vegetarian: ☒ (yes/no)
10. Are you take any soft drinks frequently : ☒ (yes/no)
11. which type of healthy routine do you followed?
☒ a) by taking nuts ☐ b) by taking fruits ☐ c) by following yoga ☐ d) taking sufficient water ☐
12. which type of powders (like chilli powder ,turmeric ,cumin etc..) used in your home?
a) home made ☐ b) packed ☐ c) loose ☐ d) ☒ None of the above
13. which type of oil preferred in your home?
a) sun flower ☐ b) palm ☐ c) coconut ☐ d) ☒ olive
14. are you taking egg in your daily food: ☒ (yes/no)
15. average duration of storage of general glossary item after purchasing
a) less than 1 month ☐ b) 1 month ☐ c) above 1 month ☐ d) 2 months ☐
16. Do you used iodised salt: ☒ (yes/no)
17. how much amount of sugar content used in your daily life?
a) 3g ☐ ☒ b) 5g ☐ c) 7g ☐ d) 10g ☐
18. Most preferred fruit in our home.
a) Guava ☐ b) Apple ☐ ☒ c) Banana ☐ d) orange ☐
19. Are you notice the expire date on glossary items: ☒ (, yes/no)
20. If any of your family member suffer with general flu like cold and cough, which type of remedies do you followed?
a) home made remedies ☒ b) Homeopathy ☐ c) ayurvedic ☐ d) English medicines ☐

GOVERNMENT DEGREE COLLEGE::NARASANNAPETA

DEPARTMENT OF CHEMISTRY

TITLE OF THE PROJECT

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD STUFF"

QUESTIONNAIRE FOR THE PROJECT

1. What type of food do you like most?

- ☒ a) Home made b) Restaurant c) Road side d) all of the above

2. How do you evaluate the quality of your food?

- ☒ a) very good b) good c) satisfactory d) dissatisfactory

3. Are you suffering any food related diseases?

- a) thyroid b) diabetes c) Acidity ☒ d) typhoid

4. Do you take milk and milk products daily:

☒ (yes/no)

5. Do you have any dairy forms in your surroundings:

(yes/no) ☒

6. Which type of milk are you used daily?

- ☒ a) packet milk b) from dairy forms c) Milk powder d) Others

7. What type of water do you use for drinking?

- a) mineral water ☒ b) tap water ☒ c) ground water d) pond water

8. How much water is used (for drinking only) in your family per a day?

- ☒ a) 30 lit b) 40 lit c) 50 lit d) 60 lit

9. Are you vegetarian:

☒ (yes/no)

10. Do you take any soft drinks frequently:

(yes/no) ☒

11. Which type of healthy routine do you followed?

- a) by taking nuts b) by taking fruits c) by following yoga ☒ d) taking sufficient water

12. Which type of powders (like chilli powder, turmeric, cumin etc..) used in your home?

- ☒ a) home made b) packed c) loose d) None of the above

13. Which type of oil preferred in your home?

- ☒ a) sun flower b) palm c) coconut d) olive

14. Are you taking egg in your daily food:

☒ (yes/no)

15. Average duration of storage of general grocery item after purchasing

- ☒ a) less than 1 month b) 1 month c) above 1 month d) 2 months

16. Do you use iodised salt:

☒ (yes/no)

17. How much amount of sugar content used in your daily life?

- ☒ a) 3g b) 5g c) 7g d) 10g

18. Most preferred fruit in our home.

- a) Guava b) Apple ☒ c) Banana d) orange

19. Do you notice the expiry date on grocery items:

(yes/no) ☒

20. If any of your family member suffer with general flu like cold and cough, which type of remedies do you followed?

- ☒ a) home made remedies b) Homeopathy c) ayurvedic d) English medicines

GOVERNMENT DEGREE COLLEGE::NARASANNAPETA

DEPARTMENT OF CHEMISTRY

TITLE OF THE PROJECT

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD STUFF"

QUESTIONNAIRE FOR THE PROJECT

1. What type of food do you like most?
a) Home made b) Restaurant c) Road side ☒ d) all of the above
2. How do you evaluate the quality of your food?
a) very good ☒ b) good c) satisfactory d) dissatisfactory
3. Are you suffering any food related diseases?
☒ a) thyroid b) diabetes c) Acidity d) typhoid
4. Do you take milk and milk products daily: ☒ (yes/no)
5. Do you have any dairy forms in your surroundings: ☒ (yes/no)
6. Which type of milk are you used daily?
a) packet milk ☒ b) from dairy forms c) Milk powder d) Others
7. What type of water do you use for drinking?
☒ a) mineral water b) tap water c) ground water d) pond water
8. How much water is used (for drinking only) in your family per a day?
a) 30 lit b) 40 lit ☒ c) 50 lit d) 60 lit
9. Are you vegetarian: ☒ (yes/no)
10. Do you take any soft drinks frequently: ☒ (yes/no)
11. Which type of healthy routine do you followed?
a) by taking nuts b) by taking fruits ☒ c) by following yoga d) taking sufficient water
12. Which type of powders (like chilli powder, turmeric, cumin etc..) used in your home?
a) home made ☒ b) packed c) loose d) None of the above
13. Which type of oil preferred in your home?
a) sun flower b) palm c) coconut ☒ d) olive
14. Are you taking egg in your daily food: ☒ (yes/no)
15. Average duration of storage of general grocery item after purchasing
a) less than 1 month b) 1 month ☒ c) above 1 month d) 2 months
16. Do you use iodised salt: ☒ (yes/no)
17. How much amount of sugar content used in your daily life?
a) 3g b) 5g ☒ c) 7g d) 10g
18. Most preferred fruit in our home.
a) Guava ☒ b) Apple c) Banana d) orange
19. Do you notice the expiry date on grocery items: ☒ (yes/no)
20. If any of your family member suffer with general flu like cold and cough, which type of remedies do you followed?
a) home made remedies ☒ b) Homeopathy c) ayurvedic d) English medicines

GOVERNMENT DEGREE COLLEGE::NARASANNAPETA

DEPARTMENT OF CHEMISTRY

TITLE OF THE PROJECT

"DETECTION OF ADULTERANTS IN SOME COMMON FOOD STUFF"

QUESTIONNAIRE FOR THE PROJECT

1. What type of food do you like most?
a) Home made ☒ b) Restaurant ☐ c) Road side ☐ d) all of the above ☐
2. How do you evaluate the quality of your food?
a) very good ☒ b) good ☐ c) satisfactory ☐ d) dissatisfactory ☐
3. Are you suffering any food related diseases?
a) thyroid ☐ b) diabetes ☐ c) Acidity ☒ d) typhoid ☐
4. Do you take milk and milk products daily: ☒ (yes/no)
5. Do you have any dairy forms in your surroundings: ☒ (yes/no)
6. Which type of milk are you used daily?
a) packet milk ☐ b) from dairy forms ☒ c) Milk powder ☐ d) Others ☐
7. What type of water do you use for drinking?
a) mineral water ☐ b) tap water ☒ c) ground water ☐ d) pond water ☐
8. How much water is used (for drinking only) in your family per a day?
a) 30 lit ☐ b) 40 lit ☐ c) 50 lit ☐ d) 60 lit ☒
9. Are you vegetarian: ☒ (yes/no)
10. Do you take any soft drinks frequently: ☒ (yes/no)
11. Which type of healthy routine do you followed?
a) by taking nuts ☒ b) by taking fruits ☐ c) by following yoga ☐ d) taking sufficient water ☐
12. Which type of powders (like chilli powder, turmeric, cumin etc..) used in your home?
a) home made ☐ b) packed ☐ c) loose ☒ d) None of the above ☐
13. Which type of oil preferred in your home?
a) sun flower ☐ b) palm ☒ c) coconut ☐ d) olive ☐
14. Are you taking egg in your daily food: ☒ (yes/no)
15. Average duration of storage of general grocery item after purchasing
a) less than 1 month ☒ b) 1 month ☐ c) above 1 month ☐ d) 2 months ☐
16. Do you use iodised salt: ☒ (yes/no)
17. How much amount of sugar content used in your daily life?
a) 3g ☐ b) 5g ☐ c) 7g ☐ d) 10g ☒
18. Most preferred fruit in our home.
a) Guava ☒ b) Apple ☐ c) Banana ☐ d) orange ☐
19. Do you notice the expiry date on grocery items: ☒ (yes/no)
20. If any of your family member suffer with general flu like cold and cough, which type of remedies do you followed?
a) home made remedies ☐ b) Homeopathy ☐ c) ayurvedic ☐ d) English medicines ☒

Collection of the information

QUESTIONNAIRE

There is a single questionnaire containing 20 questions and collected reports from surrounding areas and prepared survey reports according to it.

Village Name : Edulavasa
Mandal : Polaki^o
District : Srikakulam
State : Andhra Pradesh.

Questionnaires are submitted to department. Based on this survey prepared report for CSP.

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT:

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer In Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|-----------|------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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

3. 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 _____

4. Health Details :

i) Diseases in family :

ii) Do you have Government Arogyasri Card : Yes / No

5. Other details :

i) Do you have TV : Yes / No

ii) Do you have Dish connection : Yes / No

iii) Do you have Mobile : Yes / No Mobile number:

iv) Is internet available at home : Yes / No

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village :

Place:

Date :

Signature of the Mentor

Signature of the Student

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: IB.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|-----------|------------|
| 1 | Ramanna | male | 45 | → | labour |
| 2 | Saraswathi | female | 35 | 5th | Housewife |
| 3 | John | male | 16 | 10th | Student |
| 4 | Prasit | male | 15 | 8th | Student |

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

3. 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 NO 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 HP

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle two wheeler

4. Health Details :

i) Diseases in family : no

ii) Do you have Government Arogyasri Card : Yes / No

5. Other details :

i) Do you have TV : Yes / No

ii) Do you have Dish connection : Yes / No

iii) Do you have Mobile : Yes / No Mobile number:

iv) Is internet available at home : Yes / No

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village : water Problem

Place: edulavaka

Date : 18/10/22

P. Srividya
Signature of the Mentor

P. Santoshi
Signature of the Student

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|---------|-----------|------------|
| 1 | B. Jessi | female | 1 year | - | |
| 2 | B. Johan | male | 3 years | - | |
| 3 | B. Ramya | female | 22 | 6th | house wife |
| 4 | B. Bhaskar | male | 30 | 10th | labour |
| | | | | | |

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

3. 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 No 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 HPG

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle bike

4. Health Details :

i) Diseases in family : No

ii) Do you have Government Arogyasri Card : Yes / No Yes

5. Other details :

i) Do you have TV : Yes / No Yes

ii) Do you have Dish connection : Yes / No Yes

iii) Do you have Mobile : Yes / No Mobile number: 6281933919

iv) Is internet available at home : Yes / No

6. Name of the Govt. Schemes received :

Jagananna Vidhya Deevena / Jagannana Vasati Deevena / Raithu Bharosa / Any other: No

7. Any three problems faced in the village : wash room Problem

Place: edulavada

Date : 11/09/22

P. Snudya
Signature of the Mentor

P. Santoshi
Signature of the Student

(11)

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: Pataboyana Santoshi
 SEMESTER: II REGISTER NO:

COURSE/GROUP: I B.Sc (CBZ)
 YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|-----------|------------|
| 1 | ch. saraswati | female | 60 | - | farmer |
| 2 | ch. narasumali | male | 65 | - | laborer |
| | | | | | |
| | | | | | |
| | | | | | |

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

3. 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 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 LPG

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle _____

4. Health Details :

i) Diseases in family : No

ii) Do you have Government Arogyasri Card : Yes / No

5. Other details :

i) Do you have TV : Yes / No

ii) Do you have Dish connection : Yes / No

iii) Do you have Mobile : Yes / No Mobile number:

iv) Is internet available at home : Yes / No

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village : water Problem

chayutha

Place: edlavada
 Date : 10/09/22

P. Srividya
 Signature of the Mentor

P. Santoshi
 Signature of the Student

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer In Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|-----------|------------|
| 1 | T. Yamini | female | 27 | 10th | housewife |
| 2 | T. Ramana | male | 35 | - | labour |
| | | | | | |
| | | | | | |
| | | | | | |

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

3. 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 No 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 HP

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle two wheeler

4. Health Details :

i) Diseases in family : No

ii) Do you have Government Arogyasri Card : Yes / No Yes

5. Other details :

i) Do you have TV : Yes / No

ii) Do you have Dish connection : Yes / No

iii) Do you have Mobile : Yes / No Mobile number:

iv) Is internet available at home : Yes / No Yes

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village : drying Problem

Place: Edulavala
 Date : 27/09/22

P. Srividya
 Signature of the Mentor

P. Santoshi
 Signature of the Student

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer In Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|-----------|------------|
| 1 | T. Yamini | female | 27 | 10th | housewife |
| 2 | T. Ramana | male | 35 | - | labour |
| | | | | | |
| | | | | | |
| | | | | | |

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

3. 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 NO 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 HP

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle two wheeler

4. Health Details :

i) Diseases in family : NO

ii) Do you have Government Arogyasri Card : Yes / No ✓

5. Other details :

i) Do you have TV : ✓ Yes / No

ii) Do you have Dish connection : ✓ Yes / No

iii) Do you have Mobile : ✓ Yes / No Mobile number:

iv) Is internet available at home : Yes / No ✓

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village : dring Problem

Place: Edulavala
Date : 27/09/22

P. Srividya
Signature of the Mentor

P. Santoshi
Signature of the Student

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family : P

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|------------------|------------|
| 1 | Ch. Nagalakshmi | | 33 | 10 th | housewife |
| 2 | Ch. Sridhar | | 37 | 10 th | labour |
| 3 | Ch. Mohan | | 15 | 10 th | Student |
| 4 | Ch. Reshma | | 12 | 7 th | Student |

Social Status details : i) Caste : (SC/ST/BC-A/B/C/D/OC) ii) Religion : 2nd Hindu

3. 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 HP
 vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle two wheeler

4. Health Details :

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

5. Other details :

- i) Do you have TV : Yes / No ✓
 ii) Do you have Dish connection : Yes / No ✓
 iii) Do you have Mobile : Yes / No Mobile number: _____
 iv) Is internet available at home : Yes / No ✓

6. Name of the Govt. Schemes received :

Jagananna Vidhya Deevena /Jagannana Vasati Deevena / Raithu Bharosa / Any other: Amma vadi

7. Any three problems faced in the village : road problem

Place: edulavalasa
 Date : 28/08/22

P. Srividya
 Signature of the Mentor

P. Santoshi
 Signature of the Student

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|---------------|-----------|-----------|---------------|
| | <u>A. lachamma</u> | <u>female</u> | <u>65</u> | <u>-</u> | |
| | <u>A. Appaiya</u> | <u>male</u> | <u>75</u> | <u>-</u> | <u>labour</u> |
| | | | | | |
| | | | | | |
| | | | | | |

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

3. 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 HP
 vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle —

4. Health Details :

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

5. Other details :

- i) Do you have TV : Yes / No ✓
 ii) Do you have Dish connection : Yes / No ✓
 iii) Do you have Mobile : Yes / No Mobile number:
 iv) Is internet available at home : Yes / No ✓

6. Name of the Govt. Schemes received :

Jagananna Vidhya Deevana / Jagannana Vasati Deevana / Raithu Bharosa / Any other: Pension

7. Any three problems faced in the village : water Problem

Place: edulavalsa
 Date : 15/09/22

P. Snividy
 Signature of the Mentor

P. Santoshi
 Signature of the Student

3

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: IB.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|-----------|---------------|
| 1 | B. Vardhan | male | 10 | 5th | Student |
| 2 | B. Nanya | female | 9 | 8th | Student |
| 3 | B. Bhargathi | female | 30 | Inter | housewife |
| 4 | B. Buji | male | 35 | degree. | milk business |

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

3. 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 NO 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 HPG

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle bull.

4. Health Details :

i) Diseases in family :

ii) Do you have Government Arogyasri Card : Yes / No

5. Other details :

i) Do you have TV : Yes / No

ii) Do you have Dish connection : Yes / No

iii) Do you have Mobile : Yes / No Mobile number:

iv) Is internet available at home : Yes / No

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village :

Place: edulavala

Date : 18/09/22

Signature of the Mentor

P. Santoshi
Signature of the Student

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: Paleyogana Santoshi

COURSE/GROUP: I B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|-----|-----------|------------|
| 1 | K. Sethaiah | Female | 70 | - | housewife |
| 2 | P. Laxmi | Female | 35 | | |
| 3 | P. Aparna | Female | 14 | 9th | Student |
| 4 | K. Thulishan | Male | 40 | - | labour |

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

3. 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 No 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 BP

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle Cycle

4. Health Details :

i) Diseases in family :

ii) Do you have Government Arogyasri Card : Yes / No

5. Other details :

i) Do you have TV : Yes / No Yes

ii) Do you have Dish connection : Yes / No Yes

iii) Do you have Mobile : Yes / No Mobile number:

iv) Is internet available at home : Yes / No

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village : ding Problem

Place: edulavalasa

Date : 5/09/22

P. Srividya

Signature of the Mentor

P. Santoshi

Signature of the Student

(7)

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA, SRIKAKULAM (Dist)
DEPARTMENT OF CHEMISTRY

NAME OF THE STUDENT: P. Santoshi

COURSE/GROUP: 1 B.Sc (CBZ)

SEMESTER: II REGISTER NO:

YEAR: 2021-22

NAME OF THE MENTOR AND DEPARTMENT: Smt, Srividya Lecturer in Chemistry

Community Social Service Project -Socio Economic Survey

1. Address of the family :

2. Family Details :

| Sl.No | Name of the Person | Gender | Age | Education | Profession |
|-------|--------------------|--------|----------|------------------|------------|
| 1 | G. Govardhan | male | 64 years | 10 th | UKG |
| 2 | G. Sophe | female | 4 years | — | — |
| 3 | G. Sarasini | female | 30 | 10 th | housewife |
| 4 | G. spinu | male | 35 | B.com. | Shope |

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

3. 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 NO 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 LPG

vii) Do you have vehicle : two wheeler/ auto/car/any other vehicle —

4. Health Details :

i) Diseases in family : NO

ii) Do you have Government Arogyasri Card : Yes / No

5. Other details :

i) Do you have TV : Yes / No

ii) Do you have Dish connection : Yes / No

iii) Do you have Mobile : Yes / No Mobile number:

iv) Is internet available at home : Yes / No

6. Name of the Govt. Schemes received :

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

7. Any three problems faced in the village : road Problem

Place: edumavasa

Date : 11/09/22

P. Srividya

Signature of the Mentor

P. Santoshi

Signature of the Student