

Study of a solid waste generated by a domestic system (biodegradable & non-biodegradable) & its impact on land degradation

1. What is domestic waste?

Domestic waste is waste that is generated as a result of the ordinary day to day use of a domestic premise e.g. food waste, paper, glass, metals, plastics etc.

Domestic waste can be of two types - (i) Biodegradable
ii) Non-biodegradable.

(i) Biodegradable waste - These are waste that come from our kitchen and it includes food remains, garden waste etc. Biodegradable waste is also known as moist waste. This can be composted to obtain manure. Biodegradable wastes decompose themselves over a period of time depending on the material.

ii) Non-biodegradable waste - These are the wastes that include old newspapers, broken glass pieces, plastics etc. Non-biodegradable waste is also known as dry waste. Dry wastes can be recycled and can be reused. Non-biodegradable wastes ~~can~~ do not decompose by themselves and hence are major pollutants.

Biodegradable waste

1. Food waste
- (2) Paper waste
- (3) Human waste
- (4) Manure.
- (5) Sewage.

Non-Biodegradable waste

1. Glass
2. e-waste
3. Plastic
4. Metallic waste
5. Nuclear waste

EX - M - NE

HOUSEHOLD QUESTIONNAIRE

Subject: Study of solid waste generated by a domestic system (biodegradable & nonbiodegradable) and its impact on land degradation

Bachelor of Science in BOTANY (Semester V)
Krishna Chandra College
Hetampur, Birbhum

- Participation in the study is completely voluntary and written informed consent will be obtained.
- The questionnaire is to be answered by the owner of the house.
- Before starting to answer the questions, Please go through the instructions relevant to each question and identify the correct answer for each question.

Details of Respondent(s):

Name of the

respondent *Rijya Sultana*

Name of the Village, block & sub-division *Subrajpur*

Name of the interviewer

Naxia Danish

Date *9.08.2022*

The information requested is purely for academic purpose and will be treated confidentially. Thank you for accepting the Questionnaire

EXAMINE

General Information

Please put ✓ in the appropriate box/boxes for your answer

1. Sex

1. Male
 2. Female

2. Please mark your age group in the appropriate box

1. 15-17
 2. 18-29
 3. 30-39
 4. 40-49
 5. 50-59
 6. 60-64
 7. 65 and over

3. How many people are currently living in this house?

.....6.....

4. How many are less than 15 years:

.....2.....

5. How many are more than 15 years: 4

6. How long have you lived in This City?

1. Less than one year (12 months)
 2. 1-2 years
 3. 3-4 years
 4. 5-9 years
 5. 10-19 years
 6. 20 years or more

7. What is your highest educational level?

1. Never Schooled 2. Primary 3. Middle school
 4. High School 5. University graduate 6. Vocational training
 7. Other.....

8. What is your major occupation?

1. Farming 2. Business 3. Government servant
 4. Other.....Homemaker.....

Solid waste management

"Solid Waste" means: *left-over arising from human, animal or plant activities that are normally discarded as useless*

9. Have you ever heard about solid waste management?

- 1. Yes
- 0. No

If yes, in what way? (One or more answers)

- 1. over radio
- 2. Over TV
- 3. In public meeting
- 4. In school
- 5. On poster
- 6. Other.....

10. Have you ever been educated on proper waste disposal by the council?

- 1. Yes
- 0. No

11. What type of solid waste comes out from your household? (One or more answers)

- 1. Paper and carton
- 2. Plastics (bags/bottles)
- 3. Food waste
- 4. Tins/cans
- 5. Fiber bags
- 6. Glass
- 7. Other.....

12. In what type of container do you collect waste? (One or more answers)

- 1. Carton
- 2. Waste Basket
- 3. Old bucket
- 4. Plastic bag
- 5. Tin/can
- 6. Other...Municipality...provided...dustbin

EXAMINEE

13. How often is the waste container emptied?

- 1. Once a day
- 2. Once in two days
- 3. Once in three days
- 4. Once a week
- 5. Other.....

14. Where do you usually put away collected wastes?

- 1. In the public bin
- 2. In the itinerant waste van
- 3. By the valley/lake side/river
- 4. By the road or street side
- 5. On an open space
- 6. In a hole in own compound
- 7. Other *In own dustbin*.....

15. Are there any public bins near your house?

- 1. Yes
- 0. No

If yes, How long does it take to get there?

- 1. 5- 10min
- 2. 11- 15min
- 3. 16- 20min
- 4. 21-25min
- 5. Other.....

16. If there are public bins, how often are the nearest public bins emptied?

- 1. Once a week
- 2. Twice a week
- 3. Thrice a week
- 4. Everyday
- 5. Don't know
- 6. Other.....

17. How can you describe the state of the public bin near your house? (One or more answers).

- 1. Rusting/ rotting
- 2. In a good state
- 3. Adequate size
- 4. Not in a good condition
- 5. Inadequate
- 6. Don't know
- 7. Other.....

18. Do you think the waste disposal method is a problem in your neighborhood?

- 1. Yes
- 0. No

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19. What problems do you think exist in your area as for waste management?

- a. *There is no public bins*
- b. *Waste are thrown here and there*
- c.
- d.
- e.

20. How do you evaluate the state of solid waste collection in your House area?

- 1. Good
- 2. Fair
- 3. Not good
- 4. Don't have

21. Do you know if there is a waste management center in your locality ?

- 1. Yes
- 0. No

22. Are you satisfied with the waste management processes of your locality ?

- 1. Yes
- 0. No

23. Have you ever heard about the importance of recycling?

- 1. Yes
- 0. No

24. If yes, Do you agree to Solid waste recycling?

- 1. Yes
- 0. No
- 2. Not Sure

25. If a recycling programme was set up, would you be willing to separate materials into separate bags for collection purposes?

- 1. Yes
- 0. No
- 2. Don't know

26. Please explain why the Solid Waste Management is important to you?

- * *Inadequate distribution of transport of waste*
- * *Open and unhygienic way of waste disposal*

27. What do you suggest your local govt. to resolve solid waste problems ?

Local govt can provide public bins

Environmental Impact

Environment" Means; *The living and non-living surroundings, natural or man-made, which make life on earth possible.*

28. Do you know about environmental impact of solid waste?
 1. Yes 0. No
29. Do you ever notice waste in the road, land or and public area?
 1. Yes 0. No
30. Do you ever notice waste in water recourses such as the rivers, lakes, sea etc..?
 1. Yes 0. No
31. Do you ever notice burning waste in public area?
 1. Yes 0. No
32. Did you ever hear of health problems due to solid waste?
 1. Yes 0. No
33. Do you notice the presence of the following in and around public waste bin or dumping land? (One or more answers)
1. Dark flowing water
 2. Odour
 3. Mosquitoes and cockroaches
 4. Fire
 5. Domestic animals
 6. Rats
 7. Scavengers
 8. Other.....

EXAMINEE

Please tell how concerned you are about these Issues in the table.

	1. Concerned	Not Concerned
34. How concerned are you about environmental pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
35. How concerned are you about the health impact of waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
36. How concern are you about Sustainable Development	<input checked="" type="checkbox"/>	<input type="checkbox"/>

37. Would you personally say the solid waste is a major issue currently affecting your locality ?

1. Yes 0. No

38. Do you think there is enough information available about the environmental impacts of Solid waste in your area?

1. Yes 0. No

39. Do you think most environmental issues in your locality could be minimized if solid waste is managed properly?

1. Yes 0. No

40. Do you agree that the new development process has impact on solid waste generation in your area?

1. Yes 0. No 2. Don't Know

41. Overall, how would you rate the quality of the environment in your locality as compared to the environment you had 5 years ago

1. much better
 2. a little better.
 3. the same
 4. a little worse
 5. much worse

Sustainable development

Sustainable Development means; *"Promoting development at a rate and such a way as to ensure that the quality of the environment and the supply of the resource is maintain and, wherever practicable, enhanced to meet the needs of the present generations without compromising future generations 'need",*

42. Have you heard of "Sustainable development"?

1. Yes 0. No

43. Are you aware of sustainable development in your locality ?

1. Yes 0. No

44. Can you explain the importance of sustainable development for you?

No.

45. Do you think Solid waste management has impact on sustainable development?

1. Yes 0. No

46. Do you agree that solid waste management should be developed in your locality for Sustainable Development?

1. Yes 0. No

47. Do you believe that there should be environmental conservation for sustainable development?

1. Yes 0. No

What is the reason for your answer?

The environmental conservation is the most important thing.

48. Do you agree that every single person has a responsibility to contribute to sustainable development

1. Yes 0. No

49. Finally, Please tell me, are you satisfied with the waste management process in your locality ?

1. Yes 0. No

Thank you for your participation!!!

S. Saha

HOUSEHOLD QUESTIONNAIRE

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- Before starting to answer the questions, Please go through the instructions relevant to each question and identify the correct answer for each question.

Details of Respondent(s):

Name of the

respondent

M. HABIB NAWAZ

Name of the Village, block & sub-division

Dubrajpur

Name of the interviewer

Naxia Danish

Date

09.08.2022

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EXAMINED

General Information

Please put in the appropriate box boxes for your answer

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- 2. 18-29
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- 4. 40-49
- 5. 50-59
- 6. 60-64
- 7. 65 and over

3. How many people are currently living in this house?

..... 6

4. How many are less than 15 years:

..... 2

5. How many are more than 15 years: 4

6. How long have you lived in This City?

- 1. Less than one year (12 months)
- 2. 1-2 years
- 3. 3-4 years
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- 5. 10-19 years
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- 1. Never Schooled
- 2. Primary
- 3. Middle school
- 4. High School
- 5. University graduate
- 6. Vocational training
- 7. Other.....

8. What is your major occupation?

- 1. Farming
- 2. Business
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- 4. Other.....

Solid waste management

'Solid Waste' means *left-over arising from human, animal or plant activities that are normally discarded as useless*

9. Have you ever heard about solid waste management?

1. Yes 0. No

If yes, in what way? (One or more answers)

1. over radio
 2. Over TV
 3. In public meeting
 4. In school
 5. On poster
 6. Other

10. Have you ever been educated on proper waste disposal by the council?

1. Yes 0. No

11. What type of solid waste comes out from your household? (One or more answers)

1. Paper and carton
 2. Plastics (bags bottles)
 3. Food waste
 4. Tins cans
 5. Fiber bags
 6. Glass
 7. Other

12. In what type of container do you collect waste? (One or more answers)

1. Carton
 2. Waste Basket
 3. Old bucket
 4. Plastic bag
 5. Tin can
 6. Other

13. How often is the waste container emptied?

1. Once a day
2. Once in two days
3. Once in three days
4. Once a week
5. Other

14. Where do you usually put away collected wastes?

1. In the public bin
2. In the itinerant waste van
3. By the valley lake side river
4. By the road or street side
5. On an open space
6. In a hole in own compound
7. Other

15. Are there any public bins near your house?

1. Yes
0. No

If yes, How long does it take to get there?

1. 5- 10min
2. 11- 15min
3. 16- 20min
4. 21-25min
5. Other

16. If there are public bins, how often are the nearest public bins emptied?

1. Once a week
2. Twice a week
3. Thrice a week
4. Everyday
5. Don't know
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17. How can you describe the state of the public bin near your house? (One or more answers)

1. Rusting rotting
2. In a good state
3. Adequate size
4. Not in a good condition
5. Inadequate
6. Don't know
7. Other

18. Do you think the waste disposal method is a problem in your neighborhood?

1. Yes
0. No

19. What problems do you think exist in your area as for waste management?

- a. Public bins are not well maintained
 b. Public bins are away from the house.
 c.
 d.
 e.

20. How do you evaluate the state of solid waste collection in your House area?

1. Good
 2. Fair
 3. Not good
 4. Don't have

21. Do you know if there is a waste management center in your locality?

1. Yes 0. No

22. Are you satisfied with the waste management processes of your locality?

1. Yes 0. No

23. Have you ever heard about the importance of recycling?

1. Yes 0. No

24. If yes, Do you agree to Solid waste recycling?

1. Yes 0. No 2. Not Sure

25. If a recycling programme was set up, would you be willing to separate materials into separate bags for collection purposes?

1. Yes 0. No 2. Don't know

26. Please explain why the Solid Waste Management is important to you?

It will make the environmental clean and healthy.

27. What do you suggest your local govt. to resolve solid waste problems?

They can install more public bins.

Environmental Pollution

Environment: Means The living and non-living surroundings, natural or man-made which make life on earth possible.

28. Do you know about environmental impact of solid waste?
 1. Yes 0. No
29. Do you ever notice waste in the road, land or any public area?
 1. Yes 0. No
30. Do you ever notice waste in water resources such as the rivers, lakes, sea etc.?
 1. Yes 0. No
31. Do you ever notice burning waste in public area?
 1. Yes 0. No
32. Did you ever hear of health problems due to solid waste?
 1. Yes 0. No
33. Do you notice the presence of the following in and around public waste bin or dumping land? (One or more answers)
- 1. Dark flowing water
 - 2. Odour
 - 3. Mosquitoes and cockroaches
 - 4. Fire
 - 5. Domestic animals
 - 6. Rats
 - 7. Scavengers
 - 8. Other _____

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(Handwritten checkmark)

37. Would you personally say the solid waste is a major issue currently affecting your locality ?

1. Yes 0. No

38. Do you think there is enough information available about the environmental impacts of Solid waste in your area?

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39. Do you think most environmental issues in your locality could be minimized if solid waste is managed properly?

1. Yes 0. No

40. Do you agree that the new development process has impact on solid waste generation in your area?

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41. Overall, how would you rate the quality of the environment in your locality as compared to the environment you had 5 years ago

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Sustainable development

Sustainable Development means: "Promoting development at a rate and such a way as to ensure that the quality of the environment and the supply of the resource is maintain and, wherever practicable, enhanced to meet the needs of the present generations without compromising future generations 'need'".

42. Have you heard of "Sustainable development"?

1. Yes 0. No

43. Are you aware of sustainable development in your locality ?

1. Yes 0. No

44. Can you explain the importance of sustainable development for you?

It helps us to avail resources in optimum amount for present generation and save resources for future generation.

45. Do you think Solid waste management has impact on sustainable development?

1. Yes 0. No

46. Do you agree that solid waste management should be developed in your locality for Sustainable Development?

1. Yes 0. No

47. Do you believe that there should be environmental conservation for sustainable development?

1. Yes 0. No

What is the reason for your answer?

Because through the conservation of environment the existing resources can be utilize at its best.

48. Do you agree that every single person has a responsibility to contribute to sustainable development?

1. Yes 0. No

49. Finally, Please tell me, are you satisfied with the waste management process in your locality?

1. Yes 0. No

Thank you for your participation!!!

B. Bator

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Name of the respondent Meheboob Nawaz

Name of the Village, block & sub-division Dubrajpur

Name of the interviewer Nazia Danish

Date 09.08.2022

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4. How many are less than 15 years.

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5. How many are more than 15 years... 2

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Solid waste management

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1. Yes 0. No

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 2. Waste Basket
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 6. Other.....

17. How often do you use the waste disposal method applied?

- 1. Every day
- 2. Every 2-3 days
- 3. Every 4-5 days
- 4. Every 6-7 days
- 5. Every 8-9 days
- 6. Every 10-11 days
- 7. Never

18. Where do you dispose of the waste generated in your house?

- 1. In the garden
- 2. In the open area
- 3. In the street
- 4. In the road
- 5. In the open area
- 6. In the street
- 7. In the road
- 8. In the garden
- 9. In the open area
- 10. In the street
- 11. In the road

19. How often do you use the waste disposal method applied?

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- 5. Every 8-9 days
- 6. Every 10-11 days
- 7. Never

22. How often do you use the waste disposal method applied?

- 1. Every day 1. In a good way
- 2. Every 2-3 days 2. Not in a good way
- 3. Every 4-5 days 3. Like a waste
- 4. Every 6-7 days
- 5. Every 8-9 days
- 6. Every 10-11 days
- 7. Never

23. Do you think the waste disposal method is a problem in your neighborhood?

- 1. Yes
- 2. No

19. What problems do you think exist in your area as for waste management?

- a. *There is no public bins in our locality.*
- b.
- c.
- d.
- e.

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- 1. Good
- 2. Fair
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21. Do you know if there is a waste management center in **your locality** ?

- 1. Yes
- 0. No

22. Are you satisfied with the waste management processes of **your locality** ?

- 1. Yes
- 0. No

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- 1. Yes
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24. If yes, Do you agree to Solid waste recycling?

- 1. Yes
- 0. No
- 2. Not Sure

25. If a recycling programme was set up, would you be willing to separate materials into separate bags for collection purposes?

- 1. Yes
- 0. No
- 2. Don't know

26. Please explain why the Solid Waste Management is important to you?

It keeps our locality clean.

27. What do you suggest **your local govt.** to resolve solid waste problems ?

Provide public bins in the area.

Environmental Issues

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 1. Yes 0. No
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42. Have you heard of "Sustainable development"?

1. Yes 0. No

43. Are you aware of sustainable development in your locality ?

1. Yes 0. No



44. Can you explain the importance of sustainable development for you?

Through of sustainable development proper growth of society will happen

45. Do you think Solid waste management has impact on sustainable development?

1. Yes 0. No

46. Do you agree that solid waste management should be developed in your locality for Sustainable Development?

1. Yes 0. No

47. Do you believe that there should be environmental conservation for sustainable development?

1. Yes 0. No

What is the reason for your answer?

Because environmental condition is the most important thing for sustainable development.

48. Do you agree that every single person has a responsibility to contribute to sustainable development?

1. Yes 0. No

49. Finally, Please tell me, are you satisfied with the waste management process in your locality?

1. Yes 0. No

Thank you for your participation!!!

EXAMINER

S. Sahar