

Survey of Rice Milling Centers in Nigeria

Description: This survey was designed to elicit information on the activities of paddy millers and milling centers in Nigeria.

Purpose: The purpose of this survey is to evaluate the economic viability and sustainability of electricity generation using Rice Husk. It will evaluate energy contribution from Rice Husks towards meeting the energy need of both milling center and surrounding communities.

Confidentiality: Personal information collected by this survey shall be treated as confidential and will be analyzed in an aggregated manner so that personal attributes are not disclosed." Thank you for your cooperation.

* Indicates required question

Section 1. Characteristics of miller and milling center

1. State *

2. Name of Community. Please use short name.

3. Name of rice mill. Please use short name.

4. Rice mill location. Description of the rice mill location or point. *

Mark only one oval.

☐ Rural

☐ Semi-Urban

☐ Urban

5. Type of rice mill. *
- ("stand alone" implies a small or medium scale rice mill that is not surrounded by other rice mills).

Mark only one oval.

- ☐ stand alone
- ☐ less than 8 rice mill in one cluster
- ☐ more than 8 rice mill in one cluster
- ☐ integrated large-scale rice mill

6. How far is this rice mill from the center of the community or town (KM)? *

7. Age of rice mill. How long has this rice mill been in operation? *

8. Age of miller *

9. How many years have you been milling? *

10. Education status of the miller. (Informal education includes religious schools). *

Mark only one oval.

- ☐ No education
- ☐ Informal education
- ☐ Primary school
- ☐ Secondary School
- ☐ Post Secondary

11. Number of years of schooling

12. Gender of the miller. *

Mark only one oval.

☐ Male

☐ Female

13. Marital status *

Mark only one oval.

☐ Not married

☐ Married

☐ Divorce/widowed

14. Household size *

15. Ownership status. (Plc means the rice mill although privately owned is formally registered).

Mark only one oval.

☐ Privately owned (not Plc)

☐ Privately owned (Plc)

☐ Owned by community or association

☐ Supported/owned by government

16. Are you a member of miller-dealer association *

Mark only one oval.

☐ Yes

☐ No

17. Are you a member of Rice Farmers Association of Nigeria (RIFAN)? *

Mark only one oval.

☐ Yes

☐ No

18. Sources of income (multiple selections allowed)

Check all that apply.

☐ Milling activities

☐ Farming

☐ Rice farming

☐ Rice trading or selling

☐ Formally employed

19. Which of the following is your main source of income?

Mark only one oval.

☐ Milling activities

☐ Farming

☐ Rice farming

☐ Rice trading or selling

☐ Formal employment

20. Average monthly income (Naira) from milling activities. *

Section 2: milling machine characteristics and in-plant energy need

21. Types of milling machines installed

Check all that apply.

- ☐ local mill
- ☐ semi modern mill
- ☐ modern mill
- ☐ integrated mill

22. Photo of milling machine(s). If possible, take a photo of the milling machine.

23. How many milling machines do you have in your rice mill? *

24. Average age of milling machine. (Please, take the average age in the case of two or more machines). *

25. Total capacity of all your milling machines (kg/hr)

26. Number of hours worked per day. *

27. Sources of electricity for the rice mill (multiple selections allowed).

Check all that apply.

- ☐ Grid electricity
- ☐ Off-grid electricity
- ☐ Diesel or petrol generator
- ☐ Others

28. Main source of electricity that power the rice mill most of the time. *

Mark only one oval.

- ☐ Grid electricity
- ☐ Off-grid electricity
- ☐ Diesel or petrol generator
- ☐ Others

29. Average hours of electricity received from grid or off-grid per day *

30. Average hours of generator use per day

31. Monthly bill from grid or off-grid supplied electricity (Naira). *

32. Diesel or petrol generator capacity (kVA)

33. Monthly cost of diesel or fuel used to power generator (Naira).

34. Monthly maintenance and servicing cost of generator (Naira).

35. Monthly maintenance and servicing cost of milling machines (Naira).

Section 3. Milling activities and revenue

36. Number of busy or peak paddy rice milling months in a year. *

37. Sources of of paddy (multiple selections allowed).

Check all that apply.

- ☐ From my paddy rice farm
- ☐ From smallholder farmers
- ☐ From large scale farmers
- ☐ From paddy dealers
- ☐ From other countries
- ☐ large company farms

38. Main source of paddy. *

Mark only one oval.

- ☐ From my paddy farm
- ☐ From smallholder farmers
- ☐ From large scale non-company farmers
- ☐ From large company farmers
- ☐ From other countries

39. Which of these describe your paddy milling activities? *

Mark only one oval.

- ☐ I mill paddy commercially for others only
- ☐ I milled paddy commercially for myself only
- ☐ I do both

40. What is the weight of a regular paddy bag that are milled here (kg)?

41. On average, how many paddy bag do you mill per day in non-busy time? *

42. On average, how many paddy bag do you mill per day in busy time?

43. How many paddy bag do you purchase per week in non-busy time?

44. How many paddy bag do you purchase per week in busy time?

45. Average cost of paddy in non-busy time (Naira per bag).

46. Average cost of paddy in busy time (Naira per bag).

47. Cost of paddy transportation (Naira per bag).

48. Regular number of hired employees or labourers. *

49. Average monthly labor wage per person (Naira). *

50. What is the milling service charge per 1 paddy bag (Naira)? *

51. Number of milled rice bag per day (1bag = 50kg) in non-busy time. *

52. Number of milled rice bag per day (1bag = 50kg) in busy time. *

53. Price of milled rice per 50kg bag (Naira). *

54. Three top constraints to your rice milling business

Section 4. Treatment of husks and environmental impact awareness

55. Methods of husks disposing

What are the ways you disposed of the husks in your rice mill (multiple selections allowed)?

Check all that apply.

- ☐ use all or part for in-plant energy needs
- ☐ use all or part as animal or fish feeds
- ☐ use all or part for organic farming
- ☐ sell all or part of it
- ☐ landfilling or burning
- ☐ other use

56. Which one is the most frequent method to disposed of husk that you are currently using?

Mark only one oval.

- ☐ use all or part for in-plant energy needs
- ☐ use all or part as animal or fish feeds
- ☐ use all or part for organic farming
- ☐ sell all or part of it
- ☐ landfilling or burning

57. If you use part of it for in-plant energy need, what fraction of the husks do you use?

Mark only one oval.

- ☐ 1/4
- ☐ 1/2
- ☐ 3/4
- ☐ all

58. Estimate the quantity of husks you sell per week (bag)

59. What is your price of husks (Naira per bag)?

60. Estimate the quantity that goes to landfilling or burning (%).

61. Do you consider the current husks disposing methods in your rice mill challenge?

*

Mark only one oval.

☐ Yes

☐ No

☐ NA

62. What are the environmental impacts of current husks disposal practices in your community or town?

Check all that apply.

☐ air pollution (smokes, dust-like particles)

☐ toxic ash pollutes

☐ choking smells from littered husks

☐ No visible environmental issues

☐ Others

63. Are you aware of any national or state regulation on properly husks disposing? *

Mark only one oval.

☐ Yes

☐ No

64. What does the regulation says about proper husks disposing?

65. Do you comply with the regulation on properly husks disposing?

Mark only one oval.

- ☐ Yes, fully
- ☐ Yes, partially
- ☐ No, its difficult to comply with

66. Do other millers you know comply with the regulation on proper husks disposing?

Mark only one oval.

- ☐ Yes, fully
- ☐ Yes, partially
- ☐ No

67. How is the regulation enforced?

Check all that apply.

- ☐ National task force
- ☐ Local or community task force
- ☐ Environmental activist/NGO

68. Photo of husks storage or disposed.

Section 5. Characteristics of surrounding community or town

69. Population of the surrounding community or town within 5km or less *

70. Number of households in the surrounding community or town within 5km or less. *

71. Average household members in the community or town within 5km or less *

72. Electricity sources of surrounding community or town within 5km or less.

Check all that apply.

- ☐ grid electricity
☐ off-grid electricity
☐ personal generators

73. Main source of electricity of surrounding community or town. *

Mark only one oval.

- ☐ grid electricity
☐ off-grid electricity
☐ personal generators

74. Hours of electricity supplied from grid or off-grid per day

75. Hours of personal generator use per day.

76. Monthly household electricity bill (Naira).

77. Monthly expenditure on generators (fuel + maintenance + service or repair cost)

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