

**Department of Agricultural Extension & Information System**

**Sher-e-Bangla Agricultural University, Dhaka – 1207**

Interview schedule for **Farmers/Extension Agent (KII)** to conduct research on

**“ADOPTION GAP OF BRRI RELEASED BORO RICE VARIETIES:**

**AN EMPERICAL STUDY TO DEVELOP A THEORETICAL MODEL”**

Serial No………….. Date \_\_\_ /\_\_ /\_\_\_\_ Location GIS)……………..………………

Name of the respondent: ...................................……Father’s Name:…………...............................

Village:.........................................Union:…….….............................Upazila:...................................

District: ...............................Mobile No:………….……………Email (if any):…………………...

Please provide necessary information for the following issues and put tick (√) mark whenever necessary

**1. Age**

What is your present age?.............................years.

**2. Educational qualification**

Please indicate your educational level.

a. Can’t read and write (...........)

b. Can’t read and write but can sign only (...........)

c. Passed...........................Class.

**3. Rice farming area & Annual rice farming income**

Please mention following information of last year regarding your rice farming area & annual rice farming income

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source of income** | **Area Cultivated**  **(Hectare)** | **Production (Local unit)** | **Market Price (Tk./Local unit)** | **Total (Tk.)** |
| Aus |  |  |  |  |
| Amon |  |  |  |  |
| Boro |  |  |  |  |
| Total Income = |  |  |  |  |

**4. Rice farming experience**

Please mention your rice farming experience: **…………………...** years

**5. Rice production Innovativeness/Adoption Lag (Years)**

Please indicate the following information on BRRI released Boro varieties, release year, adoption year, and reasons for late or early adoption

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No | **Name of the Variety** | **Release year** | **Year of 1st Information** | **Year of Adoption** | **Adoption Lag(Years)** | **Reasons Early**  **adoption** | **Reasons of late**  **adoption** |
| 1. | BRRI dhan28 | 1994 |  |  |  |  |  |
| 2. | BRRI dhan29 | 1994 |  |  |  |  |  |
| 3. | BRRI dhan50 | 2012 |  |  |  |  |  |
| 4. | BRRI dhan58 | 2012 |  |  |  |  |  |
| 5. | BRRI dhan63 | 2014 |  |  |  |  |  |
| 6. | BRRI dhan67 | 2014 |  |  |  |  |  |
| 7. | BRRI dhan74 | 2015 |  |  |  |  |  |
| 8. | BRRI dhan81 | 2017 |  |  |  |  |  |
| 9. | BRRI dhan88 | 2018 |  |  |  |  |  |
| 10. | BRRI dhan89 | 2018 |  |  |  |  |  |

**6. Adoption GAP of selected HYV Boro rice varieties**

Please mention the following information for adoption of selective BRRI released Boro rice varieties for last 3 years

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of the varieties** | **Potential Area (Ha)** | | | | **Actual Area (Ha)** | | | | **Adoption (%)** |
| **2018** | **2019** | **2020** | **Average** | **2018** | **2019** | **2020** | **Average** |
| BRRI dhan28 |  |  |  |  |  |  |  |  |  |
| BRRI dhan29 |  |  |  |  |  |  |  |  |  |
| BRRI dhan50 |  |  |  |  |  |  |  |  |  |
| BRRI dhan58 |  |  |  |  |  |  |  |  |  |
| BRRI dhan63 |  |  |  |  |  |  |  |  |  |
| BRRI dhan67 |  |  |  |  |  |  |  |  |  |
| BRRI dhan74 |  |  |  |  |  |  |  |  |  |
| BRRI dhan81 |  |  |  |  |  |  |  |  |  |
| BRRI dhan88 |  |  |  |  |  |  |  |  |  |
| BRRI dhan89 |  |  |  |  |  |  |  |  |  |
| **Average** |  |  |  |  |  |  |  |  |  |

**7. Comparative financial benefit**

Please provide following information of comparative economic benefit for BRRI released Boro rice cultivation vs traditional Boro rice cultivation (Local Unit.............=..............Decimal)/Biga

|  |  |  |  |
| --- | --- | --- | --- |
| **Items of Information** | **BRRI Boro Boro Rice** | **Traditional Boro Rice** | **Comparative financial benefit** |
| Total variable costs (BDT) \* |  |  |  |
| Total fixed cost/Land Rent (BDT) |  |  |  |
| Total costs (BDT) |  |  |  |
| Total Production (Kg) |  |  |  |
| Market value of paddy (BDT/Maund) |  |  |  |
| Market value of straw (BDT/Maund) |  |  |  |
| Net Profit (BDT) |  |  |  |

(\* Variable cost includes seed price + seedbed preparation + land preparation + labor cost

+ fertilizer cost + Irrigation cost + Insecticide + threshing cost)

\*Net Profit = TR-TC= TR- (VC+FC)

**8. Extension contact**

Please provide information about your extent of contact with the following different communication media.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.** |  | |  | | **Extent of extension contact** | | | | | | |  |  |
| Different extension contact | | **Regularly** | |  | | | **Occasionally** | **Rare** | | | **Not at** |  |
| **no.** |  | | |  |
|  | | **(3)** | |  | | | **(2)** | **(1)** | | | **all (0)** |  |
|  |  | | |  |
| 1. **Personal Contact** | | | | |  | | |  |  | | |  |  |
| 1 | Neighbor rice farmers | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  |  | | /month ( | | ) | | | /month ( ) | /month ( ) | | | ( ) |  |
| 2 | Relatives engaged in rice farming | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  |  | | /month( ) | |  | | | /month( ) | /month( ) | | | ( ) |  |
| 3 | Farmers’ group leaders | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  |  | | /month( ) | |  | | | /month( ) | /month( ) | | | ( ) |  |
| 4 | Agricultural input dealers  (Seed, Fertilizer, Pesticides etc) | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  | /quarter ( ) | |  | | | /quarter ( ) | /quarter ( ) | | | ( ) |  |
|  |  | |  | | |  |  | | |  |  |
| 5 | Use of call center to get | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  | agricultural related | | /month( ) | |  | | | /month( ) | /month( ) | | | ( ) |  |
|  | information | |  | |  | | |  |  | | |  |  |
| 6 | Use of mobile apps to get | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  | agricultural knowledge | | /month( ) | |  | | | /month( ) | /month( ) | | | ( ) |  |
| 1. **GO Contact** | | |  | |  | | |  |  | | |  |  |
| 7 | Sub Assistant Agriculture | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  | Officer (SAAO) | | /quarter( ) | |  | | | /quarter( ) | /quarter( ) | | | ( ) |  |
| 8 | Agricultural Extension | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  | Officer (AEO) | | /month | |  | | | /month | /month( ) | | | ( ) |  |
| 9 | Upazilla Agriculture | | >4 times /six | |  | | | 3-4 times /six | 1-2 times | | | No |  |
|  | Officers (UAO) | | months( ) | |  | | | months( ) | /six months( ) | | | ( ) |  |
| 10 | District or above Level | | >4 times | |  | | | 3-4 times /year | 1-2 times | | | No |  |
|  | Agricultural Officers | | /year( ) | |  | | | ( ) | /year( ) | | | ( ) |  |
| 1. **NGO Contact** | | | | | | | | |  | | |  |  |
| 11 | Unit level Agro based | | >4 times | |  | | | 3-4 times | 1-2 times | | | No |  |
|  | NGO officials | | /quarter( ) | |  | | | /quarter( ) | /quarter( ) | | | ( ) |  |
| 12 | Upazila/ District Level | | >4 times/six | |  | | | 3-4 times /six | 1-2 times | | | No |  |
|  | Agro based NGO officials | | months ( ) | |  | | | months( ) | /six months( ) | | | ( ) |  |
| 13 | Central Agro based NGO | >4 times | |  | | | 3-4 times /year | | | 1-2 times | | No |  |
|  | personnel | /year ( ) | |  | | | ( ) | | | /year( ) | | ( ) |  |
| 1. **Group Communication** | |  | | |  |  | | | |  | |  |  |
| 14 | Focus group discussion | >4 times | |  | | | 3-4 times /year | | | 1-2 times | | No |  |
|  | regarding agricultural | /year( ) | |  | | | ( ) | | | /year( ) | | ( ) |  |
|  | issues |  | |  | | |  | | |  | |  |  |
| 15 | Farmer’s field day | >4 times | |  | | | 3-4 times /life | | | 1-2 times | | No |  |
|  |  | /life( ) | |  | | | ( ) | | | /life( ) | | ( ) |  |
| 16 | Method demonstration for rice | >4 times | |  | | | 3-4 times /life | | | 1-2 times | | No |  |
|  | production | /life( ) | |  | | | ( ) | | | /life( ) | | ( ) |  |
| 17 | Result demonstration for rice production | >4 times( ) | |  | | | 3-4 times/life( ) | | | 1-2 times( ) | | No( ) |  |
| 1. **Mass Media Communication** | | | | | | | | | | | | |  |
| 18 | Radio (Week) | | >4 times( ) | |  | | 3-4 times( ) | | | 1-2 times( ) | No( ) | |  |
| 19 | Television (Week) | | >4 times( ) | |  | | 3-4 times( ) | | | 1-2 times( ) | No( ) | |  |
| 20 | Newspaper (Week) | | >4 times( ) | | | | 3-4 times( ) | | | 1-2 times( ) | No( ) | |  |
| 21 | Agril. magazines/books (Week) | | >4 times( ) | | | | 3-4 times ( ) | | | 1-2 times( ) | No ( ) | |  |

**9. Contact with value chain actors**

Please mention your extent of contact with the following value chain actors

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Extent of Contact** | | | | | | | |  |
| **Sl.** | **Value chain** | **Always** | **Once** | **Once** | **Once in a** | **Once** | **Once in** | **Once** | **No** |  |
|  | **in a** | **in a** | **fortnight** | **in a** | **a** | **in a** | **contact** |  |
| **no.** | **actors** |  |  |
|  | **day** | **week** |  | **month** | **quarter** | **year** |  |  |
|  |  |  |  |  |  |
|  |  | **(7)** | **(6)** | **(5)** | **(4)** | **(3)** | **(2)** | **(1)** | **(0)** |  |
| 1 | Agricultural |  |  |  |  |  |  |  |  |  |
|  | inputs dealer |  |  |  |  |  |  |  |  |  |
| 2 | Faria |  |  |  |  |  |  |  |  |  |
| 3 | Paiker/ |  |  |  |  |  |  |  |  |  |
|  | Bepari |  |  |  |  |  |  |  |  |  |
| 4 | Aratdar |  |  |  |  |  |  |  |  |  |
| 5 | Wholesaler |  |  |  |  |  |  |  |  |  |
| 6 | Retailer |  |  |  |  |  |  |  |  |  |
| 7 | Superstore |  |  |  |  |  |  |  |  |  |
| 8 | Exporter |  |  |  |  |  |  |  |  |  |

**10. Rice production training exposure**

Please mention your rice production training exposure:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name of the Training Courses** | **Conducting Agency** | **Duration (Days)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |
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|  |  |  |  |
|  |  |  |  |

**11. Decision making ability**

Please mention your decision making ability

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL. No** | **Subject** | **Extent of decision making ability** | | |
| **Able to make self-Decision**  **(3)** | **Able to make**  **decision with**  **family members**  **(2)** | **Able to make decision with outsiders of the**  **Family**  **(1)** |
|  | Adoption of agricultural  technology |  |  |  |
|  | Purchasing of agricultural inputs |  |  |  |
|  | Selling of agricultural  produce |  |  |  |
|  | Education of children |  |  |  |
|  | Income management |  |  |  |
|  | Engage in Income Generating Activities |  |  |  |
|  | Finding loans and loan repayment |  |  |  |
|  | Keeping farm produce for family use and storage |  |  |  |
|  | Participation in social activities |  |  |  |
|  | Other family affairs |  |  |  |

**12. Satisfaction on BRRI released Bororice varieties and Local Borovarieties**

Please mention your degree of satisfaction with the following items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of the items** | **Degree of satisfaction** | | | | | |
| **BRRI Bororice varieties** | | | **Local Bororice varieties** | | |
| **High**  **satisfaction** | **Moderate**  **satisfaction** | **Low**  **satisfaction** | **High**  **satisfaction** | **Moderate**  **satisfaction** | **Low**  **satisfaction** |
| Yield per unit area (Biga) |  |  |  |  |  |  |
| Plant type |  |  |  |  |  |  |
| Plant hight |  |  |  |  |  |  |
| Response to irrigation |  |  |  |  |  |  |
| Response to fertilizer |  |  |  |  |  |  |
| Duration |  |  |  |  |  |  |
| Resistant to pest |  |  |  |  |  |  |
| Resistant to diseases |  |  |  |  |  |  |
| Grain quality (Slender/Coarse) |  |  |  |  |  |  |
| Market price |  |  |  |  |  |  |
| Palatability/Taste |  |  |  |  |  |  |
| Tolerance stresses |  |  |  |  |  |  |
| Aroma/Fragrance |  |  |  |  |  |  |
| Profitability |  |  |  |  |  |  |
| Market demand |  |  |  |  |  |  |
| Seed availability |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

1. **Knowledge about BRRI released Bororice varieties**

Please answer the following questions about Boro rice varieties

| **Sl. No.** | **Knowledge about BRRI released Bororice variety** | **Full Score** | **Obtained**  **Score** |
| --- | --- | --- | --- |
| 1. | Name two major HYV Boro variety | 2 |  |
| 2. | Name two substitutes of BRRI dhan28 | 2 |  |
| 3. | Name substitutes of BRRI dhan29 | 2 |  |
| 4. | Mention the seeding time of of Boro rice | 2 |  |
| 5. | Mention the transplanting time of Boro rice | 2 |  |
| 6. | Name two major insects of Boro rice | 2 |  |
| 7. | Name two insecticides to control major insects  of Boro rice | 2 |  |
| 8. | Name two major diseases of Boro rice | 2 |  |
| 9. | Name two remedy to control major diseases  of Boro rice | 2 |  |
| 10. | Name two major machineries used for Boro rice cultivation | 2 |  |
| 11. | Mention the fertilizer dose used for Boro rice | 2 |  |
| 12. | Mention the irrigation requirements for Boro rice | 2 |  |
| 13. | Name two BRRI release hybrid variety for Boro season | 2 |  |
| 14. | Name two short duration HYV Boro variety | 2 |  |
| 15. | Mention the recommended seeding rate of Boro varieties | 2 |  |
| 16. | Mention the recommended seedling rate/hill for Boro varieties | 2 |  |
| 17. | Mention the recommended seedling age for Boro varieties | 2 |  |
| 18. | Mention the recommended line spacing of Boro varieties | 2 |  |
| 19. | Mention the Recommended time of weed control | 2 |  |
| 20. | Mention the recommended harvest time | 2 |  |
|  | Total | 40 |  |

1. **Problems faced by farmers**

Please indicate the extent of problems you faced in adopting BRRI released Boro varieties and your suggestions to mitigate the problems

| **Sl. no.** | **Items of problem** | **Extent of problem faced** | | | | **Suggestions to mitigate the problems** |
| --- | --- | --- | --- | --- | --- | --- |
| **Severe Problem**  **(3)** | **Moderate problem**  **(2)** | **Less problem**  **(1)** | **No problem**  **(0)** |
| 1. | High price of HYV Boro seeds |  |  |  |  |  |
| 2. | Non-availability of HYV  seed in the market |  |  |  |  |  |
| 3. | Inadequate extension service to support HYV Boro Adoption |  |  |  |  |  |
| 4. | Lack of technical  information modern HYV Boro rice |  |  |  |  |  |
| 5. | Inadequate knowledge  about HYV Boro rice  cultivation |  |  |  |  |  |
| 6. | Unavailability of appropriate inputs |  |  |  |  |  |
| 7. | Lack of government loan  for HYV Boro rice cultivation |  |  |  |  |  |
| 8. | Difficult to sorting & grading |  |  |  |  |  |
| 9. | Requires of high amount  of fertilizer |  |  |  |  |  |
| 10. | High price of fertilizer |  |  |  |  |  |
| 11. | Scarcity of fertilizer  supply in time |  |  |  |  |  |
| 12. | Lack of weather information, early weather forecasting |  |  |  |  |  |
| 13. | Increase Insect & Disease attack due to natural hazards |  |  |  |  |  |
| 14. | Lack of market information to the farmers about HYV Boro rice |  |  |  |  |  |
| 15. | Lack of knowledge about the market demand |  |  |  |  |  |
| 16. | Poor linkage with the marketing channel |  |  |  |  |  |
| 17. | Lack of Integrated Pest  Management (IPM)  knowledge |  |  |  |  |  |
| 18. | Lack of fair market price |  |  |  |  |  |
| 19. | Poor and inadequate transportation for marketing |  |  |  |  |  |
| 20. | Inadequate irrigation facilities |  |  |  |  |  |
| 21. | High irrigation cost |  |  |  |  |  |
| 22. | Lack of storage facilities |  |  |  |  |  |
| 23. | Lack of agricultural  machineries and tools for  HYV Boro rice cultivation |  |  |  |  |  |
| 24. | Undesirable involvement of middlemen |  |  |  |  |  |
| 25. | Weak Research Extension Linkage |  |  |  |  |  |
| 26. | Lack of training in  adoption of HYV rice  cultivation |  |  |  |  |  |
| 27. | Non-availability  of printed materials about  the HYV Boro rice cultivation |  |  |  |  |  |
| 28. | Milling recovery low |  |  |  |  |  |
| 29. | Post-harvest Processing Problem |  |  |  |  |  |
| 30. | Labor Crisis during transplanting and post transplanting management |  |  |  |  |  |

1. **Suggestions for quick adoption (KII)**

Please make some suggestions for quick adoption of BRRI released Boro rice varieties and make rank of them on the basis of their importance:

|  |  |
| --- | --- |
| **Suggestions for quick adoption (drawback/Problems)** | **Rank** |
| Timely Seed and Input supply |  |
| Provide Credit facilities |  |
| Provide Irrigation incentives |  |
| Cooperation from DAE personnel |  |
| Government steps for rice procurement |  |
| Proper Research Extension Linkage |  |
| Any other points you like to mention |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Name of Enumerator**:..........................................................

**Date of interview**:.........../............../........................................