

## Rice Survey 2016 (CSISA Bangladesh)

### 1. Household General Information

#### 1.1 Household identification

|                |            |                         |  |
|----------------|------------|-------------------------|--|
| Country        | Bangladesh | District                |  |
| Upazila        |            | Village                 |  |
| Name of Farmer |            | Name of Farmer's Father |  |
| Mobile number  |            |                         |  |
|                |            |                         |  |

Select Season Year : 1. Aus, Aman, Boro for 2016, 2017, 2018, 2019, 2020, 2021

Would you like to enter crop cut information? Yes / No

If Yes:

#### A. Crop Cut Information

| SamplingArea (in square meter)                            |   |   |
|---|---|---|
| Sampling area no. 1                                       | Sampling area no. 2                                       | Sampling area no. 3                                       |
| Number of hills   | Number of hills   | Number of hills   |
| Grain weight (kg/sampling area)                           | Grain weight (kg/sampling area)                           | Grain weight (kg/sampling area)                           |
| Moisture % of grain at the time of measuring grain weight | Moisture % of grain at the time of measuring grain weight | Moisture % of grain at the time of measuring grain weight |
|   |   |   |

#### 1.2 Household Information

|  |  |   |  |
|--|--|---|--|
| Total HH members   |  | HH members involved in agriculture      |  |
| Total land holding (in <b>decimal</b> unit) <sup>a</sup> |  |   |  |
| Total cultivated land                                    |  | Total rice area in selected season year |  |
|  |  |   |  |

(in decimal unit)<sup>a</sup> : The unit should be uniform in all questions related to land

## 2. Rice Plot Information [Ask data for the plot in which crop cut was done] [Mandatory]

|   |                       |  |   |
|---|-----------------------|--|---|
| Plot area in which crop cut was taken (in <b>decimal</b> unit) <sup>a</sup> |                       | What did you grow before this season?                                |   |
| Soil type of the plot   | Light , Medium, Heavy | Land type of the plot  | Highland, Medium land, Low land,        |
| Enter variety name  |                       | Type of variety  | Hybrid, OPV, Traditional/Local, Unknown |
| Crop establishment <sup>b</sup>   |                       | If line sowing / transplanting , row – to –row spacing ( <b>cm</b> ) |   |
| Total seed required in the mentioned plot (kg)                              |                       | Seed source <sup>c</sup>   |   |
| If TPR, nursery establishment date  |                       | Date of transplanting or sowing                                      |   |
| Was FYM and /or organic manure applied?                                     | Yes / No              | If yes, type of FYM?   | Dry, Wet                                |
| If yes, total FYM applied in the plot (maund)                               |                       | 1 maund equals how many KG ?   |   |

(in decimal unit)<sup>a</sup> : The unit should be uniform in all questions related to land

**Crop establishment<sup>b</sup>** : 1 = Random transplanted, 2 = DSR broadcasted, 3 = DSR Line Sowing, 4 = Transplanted in line, 5 = Machine transplanted puddled, 6 = Machine transplanted non-puddled

**Seed source<sup>c</sup>** : 1 = Own stored, 2 = BADC, 3 = Private Company, 4 = Local trader, 5 = Neighbor / other farmer, 6 = Other

### 2.1 Fertilizer application in crop cut plot

|  |         |
|--|---------|
| Did you apply chemical fertilizer in the plot? | Yes, No |
| If yes,  |         |
| Total Urea applied (kg)                        |         |
| Total DAP applied (kg)                         |         |
| Total Potash applied (kg)                      |         |
| Total SSP applied (kg)                         |         |
| Total TSP applied (kg)                         |         |
| Total Zinc Sulphate applied (kg)               |         |
| Total Gypsum applied (kg)                      |         |

|  |  |
|--|--|
| Other fertilizer 1 applied? If yes, name.....; amount..... |  |
| Other fertilizer 2 applied? If yes, name.....; amount..... |  |
| Total SuperGranuleNPK (Guti) applied                       |  |

## 2.2 Fertilizer application in crop cut plot

| Fertilizer               | Basal | Top Dress 1 |  | Top Dress 2 |  | Top Dress 3 |  | Price (Taka/kg) |
|--------------------------|-------|-------------|--|-------------|--|-------------|--|-----------------|
| Urea (kg)                |       |             |  |             |  |             |  |                 |
| DAP (kg)                 |       |             |  |             |  |             |  |                 |
| MOP (kg)                 |       |             |  |             |  |             |  |                 |
| TSP (kg)                 |       |             |  |             |  |             |  |                 |
| Zinc (kg)                |       |             |  |             |  |             |  |                 |
| Gypsum (kg)              |       |             |  |             |  |             |  |                 |
| Other 1 (specify)        |       |             |  |             |  |             |  |                 |
| Other 2 (specify)        |       |             |  |             |  |             |  |                 |
| Super Granule NPK (Guti) |       |             |  |             |  |             |  |                 |

## 2.3 Fertilizer related Information in crop cut plot

|  |   |
|--|---|
| Source of information on fertilizer use rate   | 1 = Neighbors, 2 = Extension Agents, 3 = Agrodealers, 4 = Cooperatives, 5 = Others (specify)..... |
| Were you able to apply fertilizers when you wanted to?                               | Yes , No  |
| If NO, why were you unable to apply fertilizers in the time you wanted? <sup>d</sup> |   |
| Source <sup>e</sup> of fertilizer purchase   |   |
|  |   |
|  |   |

**(unable to apply fertilizers)<sup>d</sup>** : 1 = Fertilizer not available, 2 = Lack of cash, 3 = Other (specify...)

**Source<sup>e</sup>** : 1 = Agro dealer, 2 = Cooperative, 3 = Others (specify).....

## 2.4 Irrigation related Information in crop cut plot

|  |  |
|--|--|
| Do you have access to irrigation?  | 1. Yes    2. No  |
| If NO, end of this section   |  |
| If YES, Source of irrigation <sup>f</sup>  |  |
| If Ground water selected, select irrigation machineries for ground water                           | Private Shallow tubewell, Private Deep tubewell, Collective Shallow tubewell, Collective Deep tubewell |
| If Rive / Pond / Canal selected, select irrigation machineries for surface water                   | LLP , Axial Flow Pump  |
| If YES, Number of times of irrigation (includes transplanting/puddling) [Enter "0" if not applied] |  |
| If number of times of irrigation = 0, why did not you irrigate the plot? <sup>g</sup>              |  |

**Source of irrigation<sup>f</sup>**: 1 = River, 2 = Canal, 3 = Pond, 4 = Ground water, 5 = Others (specify)

**why did not you irrigate the plot?<sup>g</sup>**: 1 = Sufficient rainfall, 2 = cost of irrigation too high, 3 = Irrigation infrastructure present but water unavailable, 4 = Lack of irrigation facility, 5 = Others (specify)

## 2.5 Irrigation related Information in crop cut plot

|  |  |
|--|--|
| Are you using pump for irrigation?   | 1. Yes    2. No  |
| If YES, is the pump rented?  | 1. Yes    2. No  |
| How do you pay for the irrigation cost?                                      | Crop share, pay for machine and fuel cost, seasonal contract, other (specify...) |
| If Crop share, what share of the crop are you providing to the pump owner?   |  |
| If pay for machine and fuel, how much did you pay for machine and fuel?      |  |
| If seasonal contract, how much did you pay to the pump owner per 33 decimal? |  |
| IF YES for pump irrigation, source of energy for pumping                     | 1. Fuel    2. Electricity    3 = No fuel applied                                 |
| Do you use lay – flat / polyethene pipe?                                     | 1. Yes    2. No  |

|   |                 |
|---|-----------------|
| Did you always maintain standing water in the plot? | 1. Yes    2. No |
|---|-----------------|

## 2.6 Supplemental irrigation

|  |   |
|--|---|
| Do you apply supplemental irrigation? (for <b>Aus / Aman season only</b> ) | 1. Yes    2. No   |
| If Yes, at what stage did you apply supplemental irrigation?               | 1 = Crop establishment, 2 = Vegetative stage, 3 = Reproductive stage  |
| If No, why would you not apply supplemental irrigation?                    | 1 = Sufficient rainfall, 2 = Water not available, 3 = Irrigation facility not available, 4 = Field is bounded by other farmer's plot, 5 = Too expensive, 6 = Other (specify...) |
|  |   |

## 2.7 Weed management in crop cut plot

|                                      |  |
|--------------------------------------|--|
| Rate the weed density in the plot    | 1 = Low, 2 = Medium, 3 = High                          |
| Did you control weed in the plot?    | 1 = Yes, 2 = No  |
| If YES, methods used to control weed | 1 = Manual, 2 = Herbicide, 3 = Both manual & herbicide |
|                                      |  |

## 2.8 Detail Weed management in crop cut plot

| No of times for herbicide application | Herbicide name | Herbicide type (pre / post emergence) | Time of herbicide application (DAS/DAT <sup>k</sup> ) | No of times for manual weeding | Time of manual weeding (DAS/DAT <sup>k</sup> ) | Labor wage (taka/person/day) |
|---------------------------------------|----------------|---------------------------------------|---|--------------------------------|--|------------------------------|
| 1                                     |                |                                       |   |                                |  |                              |
| 2                                     |                |                                       |   |                                |  |                              |
| 3                                     |                |                                       |   |                                |  |                              |
|                                       |                |                                       |   |                                |  |                              |

**DAS/DAT<sup>k</sup>** : DAS = Days after seeding, DAT = Days after transplanting

### 2.9 Rice stress and Yield in crop cut plot

|  |                 |  |  |
|--|-----------------|--|--|
| Did you face any stress in the plot?   | 1 = Yes, 2 = No | If YES, select type of stress <sup>1</sup> |  |
| Date of Harvest                        |                 |  |  |
| Grain yield (kg)                       |                 |  |  |
| What would you grow after this season? |                 |  |  |

**type of stress<sup>1</sup>:** 1 = Flood, 2 = Drought, 3 = Insects, 4 = Disease, 5 = Others (specify)

### 3. GPS (from the center of the crop cut plot)