

RANKS OF VARIABLES

| Block/Serial No. of farmer | Y (C.T.A.I) | X ₁ (Educa- tion) | X ₂ (Mass- media cont- act) | X ₃ (Urban contact) | X ₄ (Caste and Ethni- city) | X ₅ (Perso- nality Traits) |
|-------------------------------|----------------|------------------------------------|--|--------------------------------------|--|--|
| I. Jamalpur | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 3 | 2 | 1 | 2 | 2 | 1 | 1 |
| 4 | 2 | 1 | 1 | 1 | 3 | 3 |
| 5 | 1 | 3 | 2 | 1 | 2 | 1 |
| 6 | 1 | 2 | 1 | 1 | 2 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 1 | 2 | 1 | 2 | 1 | 1 |
| 10 | 1 | 1 | 2 | 2 | 1 | 1 |
| 11 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 1 | 1 | 1 | 1 | 1 | 2 |
| 13 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 2 | 1 | 1 | 1 | 1 | 2 |
| 15 | 1 | 1 | 2 | 1 | 1 | 1 |
| 16 | 2 | 2 | 2 | 2 | 4 | 1 |
| 17 | 1 | 2 | 3 | 1 | 1 | 2 |
| 18 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 1 | 2 | 2 | 2 | 2 | 3 |

| Block/Serial No. of farmer | Y (C.T.A.I) | X ₁ (Educa- tion) | X ₂ (Mass- media cont- act) | X ₃ (Urban contact) | X ₄ (Caste and Ethni- city) | X ₅ (Perso- nality Traits) |
|-------------------------------|----------------|------------------------------------|--|--------------------------------------|--|--|
|-------------------------------|----------------|------------------------------------|--|--------------------------------------|--|--|

II. Onda

| | | | | | | |
|----|---|---|---|---|---|---|
| 1 | 3 | 3 | 2 | 1 | 1 | 2 |
| 2 | 1 | 3 | 3 | 2 | 3 | 1 |
| 3 | 2 | 3 | 3 | 1 | 2 | 2 |
| 4 | 2 | 1 | 3 | 2 | 1 | 2 |
| 5 | 1 | 2 | 2 | 1 | 1 | 1 |
| 6 | 3 | 4 | 2 | 2 | 2 | 3 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 2 | 4 | 3 | 2 | 2 | 3 |
| 9 | 2 | 4 | 3 | 2 | 1 | 1 |
| 10 | 2 | 2 | 1 | 2 | 2 | 2 |
| 11 | 2 | 3 | 2 | 2 | 3 | 2 |
| 12 | 2 | 1 | 3 | 2 | 3 | 1 |
| 13 | 1 | 1 | 2 | 1 | 1 | 1 |
| 14 | 1 | 1 | 2 | 1 | 2 | 1 |
| 15 | 1 | 4 | 3 | 2 | 3 | 2 |
| 16 | 3 | 4 | 3 | 2 | 1 | 3 |
| 17 | 1 | 3 | 3 | 1 | 1 | 1 |
| 18 | 3 | 3 | 2 | 2 | 1 | 2 |
| 19 | 2 | 2 | 2 | 2 | 1 | 1 |
| 20 | 2 | 4 | 3 | 3 | 1 | 2 |
| 21 | 1 | 3 | 1 | 1 | 1 | 2 |

| Block/ Serial No. of farmer | Y (C.T.A.I.) | X ₁ (Educ- ation) | x ₂ (Mass- media cont- act) | X ₃ (Urban contact) | X ₄ (Caste and Ethni- city) | X ₅ (Pers- onality Traits) |
|--------------------------------|-----------------|------------------------------------|--|--------------------------------------|--|--|
| III Chapra | | | | | | |
| 1 | 1 | 1 | 1 | 2 | 2 | 1 |
| 2 | 1 | 2 | 2 | 3 | 2 | 1 |
| 3 | 1 | 3 | 2 | 2 | 2 | 1 |
| 4 | 2 | 1 | 1 | 1 | 2 | 1 |
| 5 | 1 | 1 | 1 | 2 | 2 | 1 |
| 6 | 1 | 2 | 1 | 2 | 2 | 1 |
| 7 | 1 | 1 | 1 | 2 | 1 | 1 |
| 8 | 1 | 3 | 2 | 2 | 2 | 1 |
| 9 | 1 | 3 | 2 | 2 | 2 | 1 |
| 10 | 2 | 1 | 1 | 1 | 2 | 1 |
| 11 | 1 | 3 | 3 | 3 | 2 | 1 |

| Block/Serial No. of farmer | Y (C.T.A.I) | X ₁ (Educa- tion) | X ₂ (Mass- media cont- act) | X ₃ (Urban contact) | X ₄ (Caste and Ethni- city) | X ₅ (Perso- nality Traits) |
|-------------------------------|----------------|------------------------------------|--|--------------------------------------|--|--|
| IV. Sagar | | | | | | |
| 1 | 3 | 3 | 2 | 3 | 3 | 3 |
| 2 | 2 | 3 | 2 | 2 | 2 | 3 |
| 3 | 2 | 2 | 1 | 2 | 2 | 2 |
| 4 | 2 | 1 | 2 | 1 | 3 | 1 |
| 5 | 3 | 1 | 1 | 1 | 2 | 3 |
| 6 | 4 | 1 | 1 | 1 | 3 | 4 |
| 7 | 2 | 1 | 1 | 2 | 2 | 3 |
| 8 | 3 | 3 | 2 | 2 | 2 | 2 |
| 9 | 2 | 1 | 1 | 1 | 2 | 1 |
| 10 | 1 | 1 | 1 | 1 | 3 | 2 |
| 11 | 2 | 3 | 2 | 2 | 2 | 1 |
| 12 | 1 | 2 | 1 | 1 | 2 | 2 |
| 13 | 3 | 3 | 1 | 3 | 2 | 3 |
| 14 | 3 | 3 | 2 | 2 | 3 | 2 |
| 15 | 3 | 3 | 2 | 3 | 2 | 3 |
| 16 | 2 | 2 | 2 | 2 | 2 | 2 |
| 17 | 3 | 3 | 2 | 2 | 4 | 1 |
| 18 | 2 | 2 | 2 | 1 | 3 | 2 |
| 19 | 2 | 1 | 1 | 2 | 2 | 2 |
| 20 | 3 | 2 | 1 | 3 | 3 | 1 |
| 21 | 1 | 1 | 1 | 1 | 2 | 2 |
| 22 | 2 | 3 | 1 | 2 | 2 | 1 |
| 23 | 1 | 3 | 1 | 2 | 2 | 2 |
| 24 | 1 | 2 | 1 | 1 | 2 | 2 |
| 25 | 1 | 2 | 1 | 2 | 2 | 1 |
| 26 | 2 | 2 | 1 | 2 | 3 | 2 |
| 27 | 2 | 3 | 1 | 2 | 2 | 2 |

| Block/Serial No. of farmer | Y (C.T.A.I.) | X ₁ (Education) | X ₂ (Mass- media contact) | X ₃ (Urban contact) | X ₄ (Caste and Ethnicity) | X ₅ (Personality Traits) |
|-------------------------------|-----------------|-------------------------------|---|--------------------------------------|---|---|
| 28 | 1 | 2 | 1 | 1 | 3 | 1 |
| 29 | 3 | 2 | 2 | 2 | 1 | 3 |
| 30 | 1 | 1 | 1 | 1 | 3 | 2 |
| 31 | 1 | 3 | 1 | 2 | 3 | 2 |
| 32 | 2 | 1 | 1 | 2 | 3 | 2 |
| 33 | 2 | 1 | 1 | 1 | 2 | 2 |
| 34 | 1 | 3 | 2 | 2 | 2 | 2 |
| 35 | 2 | 3 | 1 | 2 | 2 | 1 |
| 36 | 1 | 3 | 1 | 2 | 2 | 1 |

| Block/Serial No. of farmer | Y (C.T.A.I) | X ₁ (Educa- tion) | X ₂ (Mass- media cont- act) | X ₃ (Urban contact) | X ₄ (Caste and Ethni- city) | X ₅ (Perso- nality Traits) |
|-------------------------------|----------------|------------------------------------|--|--------------------------------------|--|--|
|-------------------------------|----------------|------------------------------------|--|--------------------------------------|--|--|

V. Maynaguri

| | | | | | | |
|----|---|---|---|---|---|---|
| 1 | 3 | 3 | 2 | 2 | 3 | 3 |
| 2 | 3 | 3 | 3 | 2 | 3 | 2 |
| 3 | 3 | 4 | 3 | 2 | 3 | 3 |
| 4 | 3 | 3 | 3 | 2 | 3 | 2 |
| 5 | 4 | 3 | 4 | 3 | 3 | 4 |
| 6 | 2 | 3 | 2 | 2 | 3 | 2 |
| 7 | 2 | 3 | 2 | 2 | 3 | 1 |
| 8 | 3 | 3 | 3 | 2 | 3 | 2 |
| 9 | 3 | 3 | 3 | 2 | 3 | 3 |
| 10 | 3 | 1 | 2 | 1 | 1 | 2 |
| 11 | 3 | 4 | 4 | 2 | 3 | 3 |
| 12 | 3 | 2 | 3 | 2 | 3 | 2 |
| 13 | 3 | 2 | 3 | 3 | 3 | 2 |
| 14 | 3 | 3 | 2 | 2 | 2 | 2 |
| 15 | 3 | 2 | 2 | 2 | 2 | 2 |
| 16 | 4 | 3 | 4 | 2 | 1 | 3 |
| 17 | 3 | 3 | 4 | 2 | 1 | 2 |
| 18 | 2 | 3 | 2 | 2 | 3 | 2 |
| 19 | 3 | 1 | 2 | 2 | 3 | 2 |
| 20 | 4 | 4 | 3 | 3 | 1 | 3 |
| 21 | 3 | 1 | 2 | 1 | 1 | 1 |
| 22 | 2 | 3 | 2 | 2 | 1 | 1 |
| 23 | 2 | 3 | 2 | 2 | 3 | 2 |
| 24 | 2 | 4 | 3 | 3 | 2 | 3 |
| 25 | 3 | 3 | 3 | 2 | 3 | 3 |
| 26 | 3 | 3 | 3 | 2 | 2 | 3 |
| 27 | 2 | 1 | 2 | 2 | 2 | 2 |
| 28 | 2 | 3 | 2 | 2 | 1 | 1 |
| 29 | 3 | 4 | 3 | 3 | 1 | 2 |
| 30 | 2 | 3 | 4 | 2 | 3 | 2 |
| 31 | 2 | 1 | 4 | 2 | 1 | 2 |

A P P E N D I X - B

Questionnaire used for the field - survey

1. Basic information

- a) Cultivator's name :
- b) Village and J. L. No. :
- c) Panchayet :
- d) Block :
- e) Caste (Whether SC/ST)

2. Family size and composition

- | a) Family member | Age | Sex |
|------------------|-----|-----|
| i) | | |
| ii) | | |
| iii) | | |
| iv) | | |
| v) | | |
| vi) | | |
| vii) | | |
| viii) | | |
-
- b) Occupation
 - i) Main
 - ii) Subsidiary

 - c) Dependent members
 - i) Male
 - ii) Female
 - iii) Children

3. Education

| | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|
| a) Educational Status | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------------------|---|---|---|---|---|---|---|---|

Illiterate

Can read
and write

Primary

Middle
School

High
School

Graduate

b) Have you any agricultural education or training ? Yes/No
If yes, please specify its nature and source.

c) Has any member of your family any agricultural education
or training ? Yes/No
If yes, please specify its nature and source.

d) Do you receive any literature from the Block or elsewhere? Yes/No.
 If yes , what such literature have you received in the last season?

4. Do you receive any agricultural information from the following sources ?

- i) Voluntary organisation
- ii) Radio
- iii) Television
- iv) Newspaper
- v) Any other source (Specify)

5. **Cosmopoliteness**

How often do you visit the following places ?

| | Most often | Often | Sometimes | Rarely | Never |
|--|------------|-------|-----------|--------|-------|
|--|------------|-------|-----------|--------|-------|

City

District
town

Nearest
town

6. A. Operational holding

| 6. a) Land holding | Irrigated | Unirrigated | Total in acres |
|----------------------------|-----------|-------------|-------------------|
| i) Owned land | | | |
| ii) Leased in land | | | |
| iii) Leased out land | | | |
| Total (i) + (ii) - (iii) = | | | |

B. Terms and Conditions

i) Leased in land

ii) Leased out land

C. Irrigation status

| Sources | Operated land (in acre) |
|--------------------------------------|----------------------------|
| i) Canal | |
| ii) DTW | |
| III) STW | |
| iv) Dugwell | |
| v) Lift irrigation(river/ponds ets.) | |
| vi) Others(specify) | |
| Total | |

7. Land utilization, cropping pattern and yield

a) Land utilization and cropping pattern

| Crops | Variety | Irrigated (acres) | Unirrigated (acres) |
|-----------|---------|----------------------|------------------------|
| Kharif | | | |
| Rabi | | | |
| Perennial | | | |

b) Yield and Income

| Crops | Area | Production | Yield | Value of total output |
|-----------|------|------------|-------|--------------------------|
| Kharif | | | | |
| Rabi | | | | |
| Perennial | | | | |

8. **Material cost**

| | Material | Quantity | | Rate | Value | Area Covered | Remarks |
|----------------------------|----------|----------|----------------|------|-------|--------------|---------|
| | | Own | Purchased (kg) | | | | |
| A. Seed | | | | | | | |
| | a) | | | | | | |
| | b) | | | | | | |
| | c) | | | | | | |
| | d) | | | | | | |
| B. Manure | | | | | | | |
| C. Fertilizer | | | | | | | |
| | a) | | | | | | |
| | b) | | | | | | |
| | c) | | | | | | |
| | d) | | | | | | |
| D. Plant Protection | | | | | | | |
| | a) | | | | | | |
| | b) | | | | | | |
| | c) | | | | | | |
| | d) | | | | | | |

9. a) Have you used improved implements ? Yes/No/.

b) If yes, please specify the implements and their cropwise use.

- c) Have you used any irrigation appliances? Yes/No.
- d) If yes, please specify the appliances and their cropwise use.

10. Constraints to technology adoption

a) Social

| | Extreme | Moderate | Somewhat | Nil |
|---------------|----------------|-----------------|-----------------|------------|
| i) Education | | | | |
| ii) Training | | | | |
| iii) Caste | | | | |
| iv) Ethnicity | | | | |
| v) Occupation | | | | |
| vi) Others | | | | |

b) Individual-psychological

| | Extreme | Moderate | Somewhat | Nil |
|---|----------------|-----------------|-----------------|------------|
| i) Scientific Orientation (inclination to innovate) | | | | |
| ii) Aspiration | | | | |
| iii) Economic motivation | | | | |
| iv) Risk Orientation | | | | |
| v) Individualism (ability to co-operate) | | | | |
| vi) Cosmopolite Orientation | | | | |

APPENDIX C

CONVERSIONS

1. Metric Conversions

- a) 1 Hectare is equal to 2.47 Acres
- b) 1 Ton is equal to 1.016 Metric Ton

2. Conversion Of Names

- a) Darjeeling - Darjiling
- b) Coochbehar - Kochbihar
- c) Burdwan - Barddhaman
- d) Purnea - Purniya
- e) Midnapore - Medinipur
- f) Hooghly - Hugli