# ANNUAL REPORT 2008 – 09

# KRISHI VIGYAN KENDRA BURDWAN





KRISHI VIGYAN KENDRA

Central Research Institute for Jute & Allied Fibres (ICAR) Budbud, Burdwan, W.B. 713 403 Telefax: 0343-2513651 <u>www.kvkcrijaf.org.in</u>

## **GENERAL INFORMATION ABOUT THE KVK**

| Name. Krishi vigyan Kenura, buruwan |           |         |                      |                   |  |  |
|-------------------------------------|-----------|---------|----------------------|-------------------|--|--|
| Address                             | Telephone |         | E mail               | Website           |  |  |
| BudBud, Burdwan-                    | Office -  | Fax -   | kvkburdwan@gmail.com | www.kvkcrijaf.org |  |  |
| 713 403.                            | 0343      | 0343    | _                    |                   |  |  |
| West Bengal                         | 2513651   | 2513651 |                      |                   |  |  |

## **1.1.** *Name and address of KVK with phone, fax and e-mail* Name: Krishi Vigyan Kendra, Burdwan

#### 1.2. Name and address of host organization with phone, fax and e-mail

Name of Host organization: Central Research Institute for Jute and Allied Fibres (ICAR)

| Address           | Telephone |          | E mail           | Website        |
|-------------------|-----------|----------|------------------|----------------|
|                   | Office    | Fax      |                  |                |
| Barrackpore       | 033-      | 033-     | crijaf-wb@nic.in | www.crijaf.org |
| Kolkata- 700 120. | 25356124  | 25350415 | -                |                |
| West Bengal       |           |          |                  |                |

#### **1.3.** Name of the Programme Coordinator with phone & mobile No

| Name             | Telephone / Contact |             |                                      |  |  |  |
|------------------|---------------------|-------------|--------------------------------------|--|--|--|
| ivanic           |                     | reiep       | none / contact                       |  |  |  |
|                  | Residence           | Mobile      | Email                                |  |  |  |
| DR. F. H. RAHMAN | 09432955117         | 09433586026 | fhrahmancal@gmail.com/rediffmail.com |  |  |  |

## 1.4. Year of sanction: 2005 vide order No. 5-24 / 2002 - AE - I, dated April 01, 2005

| Sl.<br>No. | Sanctioned post | Name of the incumbent | Designation | Discipline   | Pay<br>Scale with<br>present basic | Date of<br>joining | Category<br>(SC/ST/<br>BC/Others) |
|------------|-----------------|-----------------------|-------------|--------------|------------------------------------|--------------------|-----------------------------------|
| 1          | Programme       | Dr. F. H.             | Prog.       | Soil Science | Rs. 15600-39100                    | 10.04.2007         | GEN                               |
|            | Coordinator     | Rahman                | Coordinator |              | Grade Pay - 8000                   |                    |                                   |
|            |                 |                       |             |              | Basic - Rs. 31650                  |                    |                                   |
| 2          | Subject Matter  | Mr. Dipankar          | SMS         | Agriculture  | Rs. 15600-39100                    | 26.04.2006         | GEN                               |
|            | Specialist      | Ghorai                |             | -            | Grade Pay - 5400                   |                    |                                   |
|            |                 |                       |             |              | Basic - Rs. 22280                  |                    |                                   |
| 3          | Subject Matter  | Mr. Golam             | SMS         | Fisheries    | Rs. 15600-39100                    | 28.04.2006         | GEN                               |
|            | Specialist      | Ziauddin              |             |              | Grade Pay - 5400                   |                    |                                   |
|            |                 |                       |             |              | Basic - Rs. 22280                  |                    |                                   |
| 4          | Subject Matter  | Dr.                   | SMS         | AH&VS        | Rs. 15600-39100                    | 29.04.2006         | GEN                               |
|            | Specialist      | Chandrakanta          |             |              | Grade Pay - 5400                   |                    |                                   |
|            |                 | Jana                  |             |              | Basic - Rs. 22280                  |                    |                                   |
| 5          | Subject Matter  | Dr. Subrata           | SMS         | Horticulture | Rs. 15600-39100                    | 04.05.2006         | GEN                               |
|            | Specialist      | Sarkar                |             |              | Grade Pay - 5400                   |                    |                                   |
|            |                 |                       |             |              | Basic - Rs. 22280                  |                    |                                   |
| 6          | Subject Matter  | Mr. Manoj             | SMS         | Agriculture  | Rs. 15600-39100                    | 09.05.2006         | OBC                               |
|            | Specialist      | Kumar                 |             | Extension    | Grade Pay - 5400                   |                    |                                   |
|            |                 |                       |             |              | Basic - Rs. 22280                  |                    |                                   |
| 7          | Subject Matter  | Ms. Sujata Sethy      | SMS         | Home         | Rs. 15600-39100                    | 12.03.2007         | SC                                |
|            | Specialist      |                       |             | Science      | Grade Pay - 5400                   |                    |                                   |
|            |                 |                       |             |              | Basic - Rs. 21630                  |                    |                                   |
| 8          | Programme       | Mr. Sandipan          | Prog.       | Agriculture  | Rs. 9300-34800                     | 18.04.2006         | OBC                               |
|            | Assistant       | Garai                 | Assistant   |              | Grade Pay - 4200                   |                    |                                   |
|            |                 |                       |             |              | Basic - Rs. 14330                  |                    |                                   |
| 9          | Computer        | Sk. Golam Rasul       | Prog.       | Computer     | Rs. 9300-34800                     | 10.04.2006         | GEN                               |
|            | Programmer      |                       | Assistant   |              | Grade Pay - 4200                   |                    |                                   |
|            |                 |                       | (Computer)  |              | Basic - Rs. 14330                  |                    |                                   |

## 1.5. Staff Position (as on 29th February 2008)

| Sl.<br>No. | Sanctioned post  | Name of the incumbent | Designation       | Discipline  | Pay Scale with present basic | Date of<br>joining | Category<br>(SC/ST/<br>BC/Others) |
|------------|------------------|-----------------------|-------------------|-------------|------------------------------|--------------------|-----------------------------------|
| 10         | Farm Manager     | Mr. Soumya            | Prog.             | Agriculture | Rs. 9300-34800               | 06.01.2007         | GEN                               |
|            |                  | Sarathi Kundu         | Assistant         |             | Grade Pay - 4200             |                    |                                   |
|            |                  |                       | (Farm<br>Manager) |             | Dasic - Ks. 13910            |                    |                                   |
| 11         | Accountant /     | Mr. Baidyanath        | OSA               |             | Rs. 9300-34800               | 15.03.2006         | GEN                               |
|            | Superintendent   | Mukhopadhyay          |                   |             | Grade Pay - 4200             |                    |                                   |
|            |                  |                       |                   |             | Basic - Rs. 14330            |                    |                                   |
| 12         | Stenographer     | Mr. Sushanta          | Jr. Steno-        |             | Rs. 5200-20200               | 20.03.2006         | GEN                               |
|            |                  | Dey                   | cum-              |             | Grade Pay - 2400             |                    |                                   |
|            |                  |                       | Computer          |             | Basic – Rs. 10520            |                    |                                   |
|            |                  |                       | Operator          |             |                              |                    |                                   |
| 13         | Driver           | Mr. Joydeep Pal       | Driver -          |             | Rs. 5200-20200               | 06.07.2006         | GEN                               |
|            |                  |                       | cum -             |             | Grade Pay - 1900             |                    |                                   |
|            |                  |                       | mechanic          |             | Basic – Rs. 8210             |                    |                                   |
| 14         | Driver           | Mr. Santi Nath        | Driver- cum       | -           | Rs. 5200-20200               | 10.07.2006         | OBC                               |
|            |                  | Pal                   | - mechanic        |             | Grade Pay - 1900             |                    |                                   |
|            |                  |                       |                   |             | Basic – Rs. 8210             |                    |                                   |
| 15         | Supporting staff | Mr. Shyamal           | Supporting        | Peon        | Rs. 4440-7440                | 25.02.2006         | GEN                               |
|            |                  | Bhanja                | staff             |             | Grade Pay - 1300             |                    |                                   |
|            |                  |                       |                   |             | Basic – Rs. 6430             |                    |                                   |
| 16         | Supporting staff | Mr. Anup Das          | Supporting        | Cook        | Rs. 4440-7440                | 01.03.2006         | SC                                |
|            |                  |                       | staff             |             | Grade Pay - 1300             |                    |                                   |
|            |                  |                       |                   |             | Basic – Rs. 6430             |                    |                                   |

## 1.6. Total land with KVK (in ha)

: 18 ha

| S. No. | Item                      | Area (ha) |
|--------|---------------------------|-----------|
| 1      | Under Buildings           | 3.5       |
| 2.     | Under Demonstration Units | 2.5       |
| 3.     | Under Crops               | 7.0       |
| 4.     | Orchard/Agro-forestry     | 2.0       |
| 5.     | Others (Ponds)            | 3.0       |

## 1.7. Infrastructural Development: A) <u>Buildings</u>

|           |                            | Source  |                    | Stage                    |                       |                  |                          |                        |
|-----------|----------------------------|---------|--------------------|--------------------------|-----------------------|------------------|--------------------------|------------------------|
| c         |                            | of      |                    | Complete                 |                       |                  | Incom                    | nplete                 |
| S.<br>No. | Name of building           | funding | Completion<br>Date | Plinth<br>area<br>(Sq.m) | Expenditu<br>re (Rs.) | Starting<br>Date | Plinth<br>area<br>(Sq.m) | Status of construction |
| 1.        | Administrative<br>Building | ICAR    | 31.03.09           | 552                      | 60.09 lakhs           | -                | -                        | Completed              |
| 2.        | Farmers Hostel             | ICAR    | 29.11.08           | 306                      | 23.36 lakhs           | -                | -                        | Completed              |
| 3.        | Staff Quarters (6)         | ICAR    | -                  |                          |                       | -                | 400                      | Under<br>Construction  |
| 4.        | Demonstration<br>Units (2) | -       | -                  | -                        | -                     | -                | -                        | -                      |
| 5         | Fencing                    | ICAR    | 08.02.2007         | 925 m                    | 4.30 lac              | -                | -                        | -                      |

## B<u>) Vehicles</u>

| Type of<br>vehicle | Year of purchase | Cost<br>(Rs.) | Kms. Run<br>during the<br>year | Total Kms. Run                       | Present<br>status |
|--------------------|------------------|---------------|--------------------------------|--------------------------------------|-------------------|
| TATA               | 01.04.1999       | -             | 22725                          | 64600 since its possession from PSB, | In running        |
| Sumo               |                  |               |                                | Shantiniketan on 08.05.2006          | condition         |
| Tractor            | 01.04.1999       | -             | 177 hrs                        | 291 since its possession from PSB,   | In running        |
|                    |                  |               |                                | Shantiniketan on 08.05.2006          | condition.        |

### C) Equipments & AV aids

| Name of the equipment   | Year of purchase | Cost (Rs.) | Present status       |
|-------------------------|------------------|------------|----------------------|
| Photo copier with       | 2006-07          | 49499.00   | In working condition |
| stabilizer              |                  |            |                      |
| Flame photometer        | 2006-07          | 29813.00   | In working condition |
| Spectrophotometer       | 2006-07          | 46283.00   | In working condition |
| Shaker                  | 2006-07          | 20756.00   | In working condition |
| Hot air oven            | 2006-07          | 5344.00    | In working condition |
| Hot plate               | 2007-08          | 14000.00   | In working condition |
| Glass distillation unit | 2007-08          | 28000.00   | In working condition |
| Conductivity bridge     | 2007-08          | 10000.00   | In working condition |
| pH meter                | 2007-08          | 9563.00    | In working condition |
| Refrigerator            | 2007-08          | 12350.00   | In working condition |
| Electronic balance      | 2007-08          | 12375.00   | In working condition |
| Grinder                 | 2007-08          | 19500.00   | In working condition |
| Kjeldahl N analyser     | 2008-09          | 250474.00  | In working condition |
| Generator               | 2008-09          | 68000.00   | In working condition |
| FAX machine             | 2008-09          | 12080.00   | In working condition |
| LCD projector           | 2008-09          | 109000.00  | In working condition |
| Godrej Iron Chest       | 2008-09          | 9360.00    | In working condition |

## 1.8. Details SAC meeting conducted in the year

| S.N                | Date   | Number of    | Salient Recommendations                                   | Action   |
|--------------------|--------|--------------|---|----------|
|                    |        | Participants |   | taken    |
| 1. 6 <sup>th</sup> | 06.09. | 45           | Collaborative approach should be followed to              | To be    |
| SAC                | 2008   |              | mitigate farmers' problem.                                | Followed |
| Meeting            |        |              | • Variety replacement with latest varieties in all field  |          |
|                    |        |              | crops should be duly done.                                |          |
|                    |        |              | • Soil test based fertilizer prescription should be       |          |
|                    |        |              | followed compulsorily.                                    |          |
|                    |        |              | • Micronutrient should be tested in regular basis.        |          |
|                    |        |              | • Toxin analysis of feed stuff for cattle should be done. |          |
|                    |        |              | • Participants of the trainings should be maintained at   |          |
|                    |        |              | par their population percent of the district              |          |
|                    |        |              | • Seeds produced in the farm should be certified seeds    |          |
|                    |        |              | • KVK should give emphasis on the value addition of       |          |
|                    |        |              | produce like rice or potato etc.                          |          |
|                    |        |              | • Improved farm machineries should be demonstrated        |          |
|                    |        |              | to the farmers  |          |
|                    |        |              | • Micro financing steps should be undertaken at self      |          |
|                    |        |              | help groups or farmers club level                         |          |

Proceedings of the Sixth proceeding of Scientific Advisory Committee of Krishi Vigyan Kendra, Burdwan, held on 6<sup>th</sup> September, 2008- See Annexure - I

#### 2. DETAILS OF DISTRICT (2008-09)

| 2.1 | Major farming | systems/enterprises | (based on the | analysis made | by the KVK) |
|-----|---------------|---------------------|---------------|---------------|-------------|
|-----|---------------|---------------------|---------------|---------------|-------------|

| S. No | Farming system/enterprise              |
|-------|--|
| 1.    | Rice production system                 |
| 2.    | Fishery                                |
| 3.    | Poultry                                |
| 4.    | Goatary                                |
| 5.    | Duckery                                |
| 6.    | Rice -vegetable-Rice production system |
| 7.    | Jute-rice production system            |

## 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

| S. No | Agro-climatic Zone | Characteristics  |
|-------|--------------------|--|
| 1.    | New Alluvium       | Average annual rainfall 1300-1600 mm,                                |
|       |                    | Soil type- sandy loam, clay and clay loam,                           |
|       |                    | Soil depth 4-6 ft with medium to good water holding capacity,        |
|       |                    | Neutral to acidic soil with good fertility.                          |
| 2.    | Old Alluvium       | Average annual rainfall 1300-1500 mm,                                |
|       |                    | Soil type- sandy loam and clay loam                                  |
|       |                    | Soil depth 4-6 ft with medium to good water holding capacity         |
|       |                    | Neutral to acidic soil with good fertility                           |
| 3.    | Red and Lateritic  | Average annual rainfall 1100-1400 mm,                                |
|       |                    | Soil type- sandy loam, coarse in texture                             |
|       |                    | Undulating land with low soil depth, sometimes hard layer present in |
|       |                    | sub surface  |
|       |                    | Medium to highly acidic soil   |

(Source: Dept. of Agriculture, Govt. of W.B.)

| <b>S.</b> N | Agro ecological situation       | Characteristics   |
|-------------|---------------------------------|---|
| 1.          | Agro ecological sub region 12.3 | I Chhotonagpur Plateau and Garhjat hills, hot dry sub humid   |
|             | under the AES 12.0 (Eastern     | ecosystem with red & laterite soils and LGP 150-180 days      |
|             | Plateau)                        | covering the blocks of Durgapur & Asansol. Main crops are,    |
|             |                                 | paddy, mustard, vegetables, pulse etc. The area covers        |
|             |                                 | 186154 ha   |
|             |                                 | II. Moist and sub humid ecosystem with alluvial soil with LGP |
|             |                                 | of 180-200 days covering the blocks of Burdwan (N),           |
|             |                                 | Burdwan (S), Kalna & Katwa, Main crops paddy, mustard,        |
|             |                                 | sesame, potato, jute, vegetables etc. The area covers 517532  |
|             |                                 | ha  |

(Source: NBSS&LUP (ICAR),, 2007, Nagpur )

## 2.3 Soil type/s

| S. No | Soil type         | Characteristics   | Area in ha |
|-------|-------------------|---|------------|
| 1.    | Gangetic alluvial | Soil order is entisols. Sandy loam to clay loam, fine in texture, | 206423     |
|       |                   | slightly acidic to neutral in reaction. Rich in potash and medium |            |
|       |                   | to rich in available plant nutrients.                             |            |
| 2     | Vindhya alluvial  | Soil order is entisol Sandy loam to clay loam, fine to moderate   | 311000     |
|       |                   | coarse in texture, acidic to neutral in reaction.                 |            |
| 3     | Red and Lateritic | Soil orders are mainly alfisol and ultisol. Coarse gritty soil    | 186054     |
|       |                   | blended with rock fragment, mainly acidic in nature, reddish in   |            |
|       |                   | color due to high level of iron, low in nitrogen, calcium,        |            |
|       |                   | phosphate and other plant nutrient.                               |            |

(Source: Dept. of Agriculture, Govt. of W.B., 2006)

| S. No | Сгор                   | Area ('000 ha) | Production ('0000 q) | Productivity (q/ha) |
|-------|------------------------|----------------|----------------------|---------------------|
| 01    | Aus paddy              | 14.6           | 44.6                 | 30.47               |
| 02    | Aman pady              | 417.2          | 1365.5               | 32.73               |
| 03    | Boro paddy             | 207.2          | 558.4                | 26.95               |
| 04    | Wheat                  | 2.2            | 4.8                  | 21.99               |
| 05    | Pulses                 | 1.3            | 1.1                  | 8.80                |
| 06    | Oilseeds               | 42.0           | 42.1                 | 10.01               |
| 07    | Jute & other fibres ** | 15.5           | 282.8                | 18.7                |
| 08    | Potato                 | 43.4           | 921.2                | 212.49              |
| 09    | Chilli (dry)           | 2.6            | 3.7                  | 14.13               |
| 10    | Ginger                 | 0.1            | 0.3                  | 18.87               |

2.4. Area, Production and Productivity of major crops cultivated in the district

\*\* Production in 1000 bales of 180 kg each & productivity in bales/ha

(Source: District statistical handbook, 2006, Bureau of Applied Economics & Statistics, Govt. of West Bengal) **2.5.** *Weather data* (*Avg. of 5 uears*)

| Month     | Rainfall (mm) | Tempe   | Relative Humidity (%) |    |
|-----------|---------------|---------|-----------------------|----|
|           |               | Maximum | Minimum               |    |
| April     | 72.9          | 30.8    | 17.1                  | 88 |
| May       | 84.0          | 34.2    | 18.2                  | 87 |
| June      | 23.8          | 33.2    | 17.3                  | 85 |
| July      | 280.0         | 28.4    | 19.3                  | 89 |
| August    | 234.2         | 34.0    | 24.0                  | 91 |
| September | 201.2         | 34.0    | 23.0                  | 88 |
| October   | 156.3         | 33.4    | 20.6                  | 86 |
| November  | 7.9           | 31.0    | 16.7                  | 85 |
| December  | 5.0           | 31.0    | 11.2                  | 79 |
| January   | 16.2          | 25.2    | 6.9                   | 76 |
| February  | 8.8           | 28.6    | 10.7                  | 78 |
| March     | 25.8          | 32.2    | 12.9                  | 81 |

(Source: Agricultural Directorate, Burdwan Dist, 2003-07)

#### 2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

| Category          | Population | Production         | Productivity       |
|-------------------|------------|--------------------|--------------------|
| Cattle            |            |                    |                    |
| Crossbred         | 182149     | 464080 tonnes milk | 280 kg milk / year |
| Indigenous        | 1473755    |                    |                    |
| Buffalo           | 127539     |                    |                    |
| Sheep             |            |                    |                    |
| Crossbred         |            |                    |                    |
| Indigenous        | 140873     | 61.887 kg (wool)   |                    |
| Goats             | 127184     | 4000 MT (meat)     |                    |
| Pigs              |            |                    |                    |
| Crossbred         |            |                    |                    |
| Indigenous        | 120994     | 420 MT (Meat)      |                    |
| Rabbits           |            |                    |                    |
| Poultry           |            |                    |                    |
| Hens              |            |                    |                    |
| Desi              | 3141669    | 2672.40 lakh egg   | 85 no. eggs/year   |
| Improved          |            |                    |                    |
| Ducks             | 1835094    |                    |                    |
| Turkey and others | 27981      |                    |                    |

(Source: Livestock population, W.B., Animal Resources Development Department, 2006)

| Category | Area (ha) | Production (t) | Productivity (kg/ha) |
|----------|-----------|----------------|----------------------|
| Fish     |           |                |                      |
| Marine   |           |                |                      |
| Inland   | 50448.19  | 36029.787      | 3250                 |
| Prawn    |           |                |                      |

(Source: Annual report, 2007, Office of the Assistant Director of Fisheries, Meen bhavan, Burdwan)

| 2   |       |           |             |                  |   |  |
|-----|-------|-----------|-------------|------------------|---|--|
| S.N | Taluk | Name of   | Name of     | Major crops      | Major problem identified                                      | Identified Thrust Areas                      |
|     |       | the block | the village | & enterprises    |   |  |
| 1   | Dur   | Kanksa    | Keten       | Paddy, potato,   | <u>Bio-physical</u>   | <ul> <li>Integration of good</li> </ul>      |
|     | gap   |           | (Ghosh      | mustard,         | Low productivity of all major crops                           | agronomic practices                          |
|     | ur    |           | para,       | sesame, lentil,  | • Non-availability of quality seed /                          | • Providing quality                          |
|     |       |           | Bauri para  | vegetable,       | planting materials  | seeds/planting                               |
|     |       |           | and Pan     | cattle, poultry, | <ul> <li>Marginal soil</li> </ul>                             | materials                                    |
|     |       |           | para)       | duck, goat,      | • Limited water resources for irrigation                      | • Diversification of land                    |
|     |       |           |             | fish             | • Indiscriminate and inappropriate use                        | use  |
|     |       |           |             |                  | of chemical fertilizer  | <ul> <li>Soil health management</li> </ul>   |
|     |       |           |             |                  | Inadequate descriptive/prolific                               | like organic farming etc.                    |
|     |       |           |             |                  | breed of livestock  | Livestock productivity                       |
|     |       |           |             |                  | Poor feed resources   | improvement and health                       |
|     |       |           |             |                  | Socio- economic   | care   |
|     |       |           |             |                  | Lack of credit facilities                                     | <ul> <li>Efficient utilization of</li> </ul> |
|     |       |           |             |                  | Lack of awareness regarding good                              | water bodies                                 |
|     |       |           |             |                  | agronomic /husbandry practices                                | <ul> <li>Entrepreneurship</li> </ul>         |
|     |       |           |             |                  | Very restricted livelihood option                             | development                                  |
| 2   | Dur   | Galsi-1   | Jaguli para | Kharif Paddy,    | <u>Bio-physical</u>   | Providing quality                            |
|     | gap   |           | (Mollapar   | boro paddy,      | Low productivity of all major crops                           | seeds/planting material                      |
|     | ur    |           | a and       | mustard,         | • Non-availability of quality seed                            | • Diversification of land                    |
|     |       |           | Bauripara)  | cattle, poultry, | materials   | use  |
|     |       |           |             | duck, goat,      | • High cost involvement for major                             | <ul> <li>Entrepreneurship</li> </ul>         |
|     |       |           |             | fish             | crops   | development                                  |
| 3.  | Burd  | Galsi-II  | Garamba-    | Aus paddy,       | • Indiscriminate and inappropriate use                        | <ul> <li>Organic farming</li> </ul>          |
|     | wan   |           | Bhasapur    | kharif paddy,    | of chemical fertilizers                                       | Health care                                  |
|     | Nort  |           |             | jute, potato,    | <ul> <li>Low input of organics &amp; biofertiliser</li> </ul> | <ul> <li>Improvement of women</li> </ul>     |
|     | h     |           |             | mustard,         | Lesser extent of crop diversification                         | led vocations                                |
|     |       |           |             | vegetable        | Low productivity of livestock & poultry                       | • Popularization of                          |
|     |       |           |             | cattle, poultry, | Poor feed resources   | balanced feeding                             |
|     |       |           |             | Goat, fish       | <u>Socio-economic</u>   | practices                                    |
|     |       |           |             |                  | <ul> <li>Lack of credit facilities</li> </ul>                 | -  |
|     |       |           |             |                  | • Inadequate house hold income                                |  |
|     |       |           |             |                  | generation  |  |

2.7 Details of Operational area / Villages (2008-09)

#### 2.8 *Priority thrust areas*

| <b>S.</b> N | Thrust area  |
|-------------|--|
| 1           | Integration of good agronomic practices for cultivation of field and vegetable crops for vertical agricultural growth  |
| 2           | Production of quality seeds/planting materials for major agricultural crops like rice, jute, mustard and vegetable and |
|             | fruit crops  |
| 3           | Diversification of land use through cultivation of vegetables and other horticultural crops                            |
| 4.          | Soil health management like organic farming etc.   |
| 5.          | Livestock productivity improvement and health care   |
| 6.          | Efficient utilization of water bodies through composite fish culture and improved management practices                 |
| 7.          | Entrepreneurship development for family income generation  |



#### 7. <u>TECHNICAL ACHIEVEMENTS</u>

## 3.1. A. Abstract of interventions undertaken

|     |                                |                     |                            |  |   | Interventions   |   |  |  |
|-----|--------------------------------|---------------------|----------------------------|--|---|---|---|--|--|
| S N | Thrust area                    | Crop/<br>Enterprise | Identified<br>Problem      | Title of OFT if any  | Title of FLD if any                             | Title of Training if any  | Title of training<br>for extension<br>personnel if any  | Extensi<br>on<br>activiti<br>es              | Supply of<br>seeds,<br>planting<br>materials etc.                                  |
|     |                                | Mustard             | Low yield                  | <ul> <li>Assessment of<br/>performance of Sulphur<br/>on productivity of<br/>mustard under rainfed<br/>and medium to low<br/>land situation of<br/>Burdwan district</li> </ul>   | Package<br>demonstration<br>on mustard          | <ul> <li>Improved production<br/>technology of<br/>mustard</li> <li>Disease and insect<br/>management of<br/>mustard</li> </ul>   | • Improved<br>fertilizer<br>management<br>in oil seed &<br>pulses to<br>augment<br>productivity | -  | Certified seed<br>of var. B-9,<br>Fertilizers,<br>plant<br>protection<br>chemicals |
| 1.  | Improved<br>agronomic practice | Jute                | High cost<br>and low yield |  | Improved<br>package<br>demonstration<br>of jute | <ul> <li>Improved production<br/>technology of jute</li> <li>Weed management of<br/>jute</li> <li>Insect &amp; pest<br/>management of jute</li> <li>Use of fibre extractor<br/>in fibre extraction</li> </ul> | -   | Field<br>day,<br>method<br>demon<br>stration | Certified seed<br>of JRO 524,<br>Fertilizer &<br>PPC                               |
|     |                                | Paddy               | Low yield                  | <ul> <li>Assessment of<br/>performance of kharif<br/>rice productivity<br/>through judicious<br/>nutrition under<br/>medium to low land<br/>situation of Burdwan<br/>district</li> <li>Assessment of<br/>selective chemical<br/>measures for<br/>controlling stem borer<br/>in Kharif paddy in<br/>Burdwan district</li> </ul> | Package<br>demonstration<br>of paddy            | <ul> <li>Integrated Nutrient<br/>management</li> <li>Paddy seed<br/>production</li> <li>Pest and disease<br/>management of<br/>paddy</li> <li>Utilization of<br/>biofertiliser for kharif<br/>rice</li> </ul> |   |  | Certified seed<br>of MTU 7029,<br>biofertilizers                                   |

| S N | Thrust area | Crop/      | Identified                             | Interventions   |                                     |  |   |          |                  |
|-----|-------------|------------|--|---|-------------------------------------|--|---|----------|------------------|
|     |             | Enterprise | Problem                                | Title of OFT if   | Title of FLD if                     | Title of Training if   | Title of training for   | Extensi  | Supply of        |
|     |             |            |  | any   | any                                 | any  | extension personnel if any  | on       | seeds,           |
|     |             |            |  |   | -                                   | -  |   | activiti | planting         |
|     |             |            |  |   |                                     |  |   | es       | materials etc.   |
|     |             | Potato     | Low yield                              | Evaluation of<br>nutrient<br>management<br>in potato in<br>Burdwan  | Disease<br>management<br>of potato  | <ul> <li>Seed tuber<br/>treatment of<br/>potato</li> <li>Production<br/>problems of<br/>potato and their<br/>management</li> <li>Identification of<br/>major diseases of<br/>potato &amp; their<br/>control</li> </ul> |   |          | РРС              |
|     |             | Brinjal    | Low yield,<br>high pest<br>infestation | Assessment of<br>IPM and<br>chemical<br>measures against<br>fruit and shoot<br>borer, phomopsis<br>blight and<br>bacterial wilt of<br>brinjal | Disease<br>management<br>of brinjal | Management of<br>Phomopsis blight<br>in brinjal  | Third generation pesticides:<br>towards better crop<br>production |          | Seedling,<br>PPC |
|     |             | Chili      |  |   |                                     | Improved production technology of chilli   | -   |          |                  |
|     |             | Okra       |  |   |                                     | Improved production technology of okra   |   |          |                  |
|     |             | Cucurbits  |  |   |                                     | Improved production<br>technology of<br>cucurbits  | -   |          |                  |

| S N | Thrust area                                | Crop/                       | Identified                      | Interventions   |                          |   |   |                                 |  |
|-----|--|-----------------------------|---------------------------------|---|--------------------------|---|---|---------------------------------|--|
|     |  | Enterprise                  | Problem                         | Title of OFT if<br>any  | Title of FLD if<br>any   | Title of Training if<br>any               | Title of training for<br>extension personnel if any   | Extensi<br>on<br>activiti<br>es | Supply of<br>seeds,<br>planting<br>materials etc.                        |
| 2.  | Production of<br>quality<br>seeds/planting | Paddy                       | Lack of<br>quality seeds        |   |                          | Seed production of paddy                  |   |                                 | TL seed of<br>MTU 7029,<br>CR 1010                                       |
|     | materials                                  | Vegetable<br>seedling       | Lack of<br>quality<br>materials |   |                          | Nursery management<br>in vegetable crops  | Seed production techniques<br>of major vegetable cops |                                 | Improved<br>var. of tomato<br>and brinjal,<br>Arka<br>Anamika of<br>okra |
|     |  | Gladiolus                   | Lack of<br>quality<br>materials |   |                          | Production<br>technology of<br>gladiolus  | -   | -                               | Corms and cormlets   |
| 3.  | Crop<br>diversification                    | Rice bean<br>(Fodder)       |                                 |   | Package<br>demonstration | Cultivation<br>techniques of rice<br>bean | -   | Field<br>day                    | Seed of<br>Bidhan 1,<br>biofertilizer                                    |
|     |  | kitchen<br>garden           |                                 | Supplementation<br>of diversified<br>vegetables to farm<br>families through<br>kitchen garden |                          | Management of nutrition garden            | -   | Farm<br>school                  | Seeds of<br>different<br>vegetables                                      |
|     |  | Tissue<br>culture<br>banana |                                 |   |                          |   |   |                                 | TCB planting<br>material   |

| S N Thrust area Crop/ Identified |  |            | Interventions  |  |   |             |  |  |                                 |   |
|----------------------------------|--|------------|--|--|---|-------------|--|--|---------------------------------|---|
|                                  |  | Enterprise | Problem  | Title of OFT if<br>any   | Title of FLD if<br>any                    | •           | Title of Training<br>if any  | •Title of training for<br>extension personnel if any | Extensi<br>on<br>activiti<br>es | Supply of<br>seeds,<br>planting<br>materials etc. |
| 4.                               | Soil health<br>management                | Paddy      |  |  | -   | •           | Vermicompost<br>production<br>technology<br>Need for soil<br>testing and soil<br>test based fertilizer<br>application<br>Sustainable<br>restoration of soil<br>health &<br>importance of soil<br>testing<br>NADEP compost<br>production<br>Integrated<br>nutrient<br>management for<br>enhancement of<br>paddy<br>productivity and<br>better soil health | •Vermicompost production<br>technology               |                                 | Biofertiliser/<br>vermicompos<br>t                |
|                                  | Livestock<br>productivity<br>improvement | Cattle     | Low milk<br>yield and<br>infertility;<br>disease<br>prevalence | Evaluation of<br>performance of<br>supplemented<br>feeding in<br>lactating deshi<br>cow in Burdwan<br>district | Feed<br>management<br>in lactating<br>cow | •<br>•<br>• | Care of new born<br>calf<br>Cattle shed<br>management and<br>sanitation<br>Cultivation of<br>maize as fodder<br>Feeding techniques<br>of mineral mixture<br>for dairy cattle<br>Home made cattle<br>feed prenaration   | Vaccination schedule for<br>ruminants                | Health<br>camp<br>on<br>FMD     | Mineral<br>Mixture, feed<br>and vaccine<br>of FMD |

|     |  |                     |                                   |  |   | Interventions   |   |  |   |
|-----|--|---------------------|-----------------------------------|--|---|---|---|--|---|
| S N | Thrust<br>area   | Crop/<br>Enterprise | Identified<br>Problem             | Title of OFT if any  | Title of FLD<br>if any                      | Title of Training if any  | Title of training for<br>extension personnel if<br>any            | Extension<br>activities                              | Supply of seeds,<br>planting<br>materials etc.            |
| 5.  |  | Goats and<br>sheep  | Malnutrition<br>of doe            | Assessment of<br>strategic<br>supplementation<br>for pregnant doe<br>in Burdwan<br>district                      | PPR disease<br>prevention                   | <ul> <li>Feeding practice of doe</li> <li>Care of new born kids</li> <li>Care of doe during pregnancy</li> <li>Preventive measures against PPR</li> </ul>   | Techniques of biological<br>specimen collection and<br>precaution | Vaccinatio<br>n camp<br>against<br>PPR &<br>Goat Pox | Feed and<br>vaccine of PPR &<br>Goat Pox                  |
|     |  | Poultry<br>(Hen)    | Poor egg<br>production            |  |   | Integrated farming  |   | Vacc.<br>camp<br>against RD                          | High laying<br>capacity chicks<br>and vaccine of<br>RD    |
|     |  | Duck                | Poor egg<br>production            |  |   | <ul><li>Vaccination schedule of ducks</li><li>Khaki Campbell duck rearing</li></ul>   |   | Vacc.<br>camp<br>against DP                          | Ducklings and vaccine of DP                               |
| 6.  | Efficient<br>use of<br>water<br>bodies<br>through<br>fish<br>culture | IMC                 | Poor fish<br>production           | Evaluation of<br>formulated feed<br>for increasing<br>fish productivity<br>under pond<br>ecosystem of<br>Burdwan | Management<br>of minor carp<br>(Labeo bata) | <ul> <li>Nutrient management in freshwater fish ponds</li> <li>Nutritional requirement of IMC</li> <li>Feed formulation &amp; management of IMC</li> <li>Preparation and management of nursery pond</li> <li>Aquatic weeds and algal blooms in fish ponds, their control and utilization</li> <li>Rearing pond preparation and management.</li> <li>Application of lime in fish culture</li> <li>Feed formulation &amp; feed management of IMC</li> <li>Integrated duck-cum-fish farming in back yard pond</li> </ul> | Sustainable aquaculture   | Farm<br>school                                       | Fish fry and<br>advanced<br>fingerling of<br>IMC, cowdung |
| 7.  | Entrepre<br>neurship<br>develop<br>ment                              | Rural crafts        | Lack of skill                     |  |   | <ul><li>Preparation of Jute handicrafts</li><li>Preparation of kantha stitch</li></ul>  |   | Farm<br>school                                       | Raw materials   |
|     |  | Mushroom            | Lack of<br>knowledge<br>and skill |  | Production of<br>oyster<br>mushroom         | Mushroom cultivation practices  |   |  | Spawn   |

3.1. B. Details of each On Farm Trial to be furnished in the following format (Total number of OFT conducted – 10 Nos.)

#### OFT 1:

| 1 | Title of On farm Trial  | Assessment of performance of Sulphur on productivity of mustard<br>under rainfed and medium to low land situation of Burdwan district  |
|---|---|--|
| 2 | Problem diagnose  | Low productivity of mustard is due to abuse of nutrient mainly sulphur   |
| 3 | Details of technologies<br>selected for assessment/<br>refinement | Farmers' practice: (60: 60: 45 kg NPK/ha through DAP, urea and MOP)<br>Technology - 1 to be assessed: 80: 40: 40: 30 kg NPKS/ha through urea,<br>SSP and MOP<br>Technology - 2 to be assessed: 80: 40: 40: 26 kg NPKS/ha through urea,<br>20:20:0:13 and MOP<br>Technology - 3 to be assessed: 80: 40: 40: 20 kg NPKS/ha through urea,<br>10:26:26 and elemental Sulphur |
| 4 | Source of Technology  | B.C.K.V., Kalvani  |
| 5 | Production system and thematic area                               | Rainfed rice based production system ; Nutrient management   |
| 6 | Performance of the<br>Technology with<br>performance indicators   | Application of SSP, 20:20:0:13 or elemental S resulted in significantly<br>higher productivity as compared to FP and were more cost effective.<br>However the use of different doses of S did not resulted in significant<br>differences in productivity among themselves which may be attributed<br>to the use of different sources of S.                               |
| 7 | Final recommendation for micro level situation                    | In case of non availability of SSP, farmers should use 20:20:0:13 or elemental S in recommended quantity   |
| 8 | Constraints identified and feedback for research                  | Single Super Phosphate should be made more available, since apart<br>from meeting the S requirement it also contains Ca and Mg in significant<br>quantity  |
| 9 | Process of farmers<br>participation and their<br>reaction         | Through training and field level demonstration.<br>Farmers were satisfied with the performance of the technology.  |

## OFT 2:

| 1 | Title of On farm Trial                         | Assessment of performance of kharif rice productivity through judicious nutrition under medium to low land situation of Burdwan district |
|---|--|--|
| 2 | Problem diagnose                               | It is observed that a gradual decline in productivity of rice due to non use of organics   |
| 3 | Details of technologies                        | <b>Farmers' practice</b> : (60:60:45 kg NPK/ha through DAP, urea and MOP)  |
|   | selected for <b>assessment</b> /<br>refinement | <b>Technology - 1 to be assessed:</b> Recomm. dose of fertilizer (80: 40:40 kg NPK/ha)   |
|   |  | <b>Technology - 2 to be assessed:</b> 75% recomm. dose + Sesbania (in situ ) *   |
|   |  | Technology - 3 to be assessed: 75% recomm. dose + vermicompost   |
| 4 | Source of Technology                           | PAU, Ludhiana  |
| 5 | Production system and                          | Rainfed rice based production system ; Nutrient management   |
|   | thematic area                                  |  |
| 6 | Performance of the                             | Rice is the predominantly major crop of Burdwan. Nutrient  |
|   | Technology with                                | management practices among farmers are grossly unbalanced and  |
|   | performance indicators                         | without use of organics in most cases. Application of 75% recommended  |
|   |  | dose + sesbania and application of 75% recommended dose +  |
|   |  | vermicompost significantly improved rice yield over recommended  |
|   |  | dose and farmers' practice and was more cost effective.  |
| 7 | Final recommendation for                       | Farmers should use organic sources of nutrient either sesbania or  |
|   | micro level situation                          | vermicompost. The former is more cost effective than the later. Farmers  |
|   |  | are also recommended to have their own vermicompost production   |
|   |  | units so that they can diminish the cost of production   |
| 8 | Constraints identified and                     | Govt. should ensure adequate supply of sesbania seed to the farmers  |

|   | feedback for research   | and further research is needed to produce more nutrient enriched |
|---|-------------------------|--|
|   |                         | vermicompost.  |
| 9 | Process of farmers      | Through training and field level demonstration.                  |
|   | participation and their | Farmers were satisfied with the performance of the technology    |
|   | reaction                |  |

## OFT 3:

| 1 | Title of On farm Trial           | Assessment of IPM and chemical measures against fruit and shoot               |
|---|----------------------------------|---|
|   |                                  | borer, phomopsis blight and bacterial wilt of brinjal                         |
| 2 | Problem diagnose                 | Several insect, pest and disease invasion is one of the prime factors for low |
|   |                                  | productivity in brinjal.  |
| 3 | Details of technologies selected | Farmers' practice   |
|   | for assessment/ refinement       | <ul> <li>Technology - 1 to be assessed: Selective chemicals</li> </ul>        |
|   |                                  | <ul> <li>Technology - 2 to be assessed: IPM approach</li> </ul>               |
| 4 | Source of Technology             | B.C.K.V., Kalyani   |
| 5 | Production system and thematic   | Medium land under irrigated condition, Integrated management of               |
|   | area                             | important pest and diseases   |
| 6 | Performance of the Technology    | Better than the conventional in respect to yield, % pest and disease          |
|   | with performance indicators      | infestation and % disease index   |
| 7 | Final recommendation for micro   | Farmers should adopt IPM approach as it is cost effective                     |
|   | level situation                  |   |
| 8 | Constraints identified and       | Difficulty in handling with so many IPM components                            |
|   | feedback for research            |   |
| 9 | Process of farmers participation | Through training and field level demonstration. They were convinced about     |
|   | and their reaction               | the positive results IPM  |

## **OFT 4:**

| 1 | Title of On farm Trial  | Evaluation of nutrient management in potato in Burdwan   |
|---|---|--|
| 2 | Problem diagnose  | Most of the cases potato growers in Burdwan Dist. apply excess<br>amount of fertilizers irrespective of soil availability to get higher<br>yield. Such practice for years leads to deterioration of soil health,<br>stagnant productivity and ultimately poor economy. |
| 3 | Details of technologies selected for <b>assessment</b> / refinement | Farmers' practice: (240: 240: 240 NPK per ha through 10:26:26, urea)   |
|   |   | <b>Technology - 1 to be assessed:</b> Recommended dose (200:150:150 NPK per ha through urea, SSP and MOP)  |
|   |   | <b>Technology - 2 to be assessed:</b> Soil test based fertilization (200:150:125 NPK per ha through urea, SSP and MOP)   |
| 4 | Source of Technology  | B.C.K.V., Kalyani  |
| 5 | Production system and thematic area                                 | Medium land under irrigated condition, proper dose of fertilizers<br>based on soil test data beneficial for maintaining soil health with<br>better yield and economy   |
| 6 | Performance of the Technology with performance indicators           | Better than the conventional in respect to yield , economy and restoration of soil health  |
| 7 | Final recommendation for micro level situation                      | Farmers should apply fertilizers on soil test basis  |
| 8 | Constraints identified and feedback for research                    | Lack of soil testing facility  |
| 9 | Process of farmers participation<br>and their reaction              | Through training and field level demonstration. They were<br>convinced about the positive results of soil test based fertilizers<br>application in potato.   |

## OFT 5:

| 1 | Title of On farm Trial   | Assessment of strategic supplementation for pregnant doe in Burdwan district  |
|---|--|---|
| 2 | Problem diagnose   | Mal-nutrition of pregnant doe (Breed- Bengal Goat) leads to production of under -weight kid   |
| 3 | Details of technologies<br>selected for<br><b>assessment</b> /refinement | <ul> <li>Farmers' practice (only grazing and used to offer kitchen waste)</li> <li>Technology - 1 to be assessed: Feeding of homemade concentrate* @ 50 gm/day/goat from 120 days of gestation to parturition</li> <li>Technology - 2 to be assessed: Feeding of homemade concentrate* @</li> </ul> |
|   |  | 50gm/day/goat from 90 days of gestation to parturition  |
| 4 | Source of Technology   | West Bengal University of Animal and Fishery Sciences, Kolkata  |
| 5 | Production system and  | Semi intensive goat based production system ; nutrition management  |
|   | thematic area  |   |
| 6 | Performance of the   | Daily supplementation of homemade feed @50 gm per pregnant doe  |
|   | Technology with  | from 90 days of gestation to parturition gave better results in term of   |
|   | performance indicators   | weight of kid in compare to traditional practice.   |
| 7 | Final recommendation for micro level situation                           | Supplementation of 50g homemade feed in pregnant doe of Bengal breed from 90 days of gestation to parturition is advisable for production of healthy kid.   |
| 8 | Constraints identified and   | Rat creates problem in storage of feed in farmers field; subsequent   |
|   | feedback for research  | growth of kid after birth is faster than kid born under traditional   |
|   |  | practice.   |
| 9 | Process of farmers   | Through training and group discussion;  |
|   | participation and their  | Farmers able to minimize the productive losses through strategic  |
|   | reaction   | supplementation of pregnancy allowance  |

### **OFT 6:**

| 1 | Title of On farm Trial   | Evaluation of performance of supplemented feeding in lactating deshi cow in Burdwan district         |
|---|--|--|
| 2 | Problem diagnose   | Poor milk yield in deshi cow is due to imbalanced feed supplementation                               |
| 3 | Details of technologies<br>selected for<br>assessment/refinement | <b>Farmers' practice:</b> (Feeding of rice polish (1-2 kg), 5-6 kg soaked straw and grazing)         |
|   | abbeoonten, remembrie  | <b>Technology 1 to be assessed:</b> Farmers' practice + soaked oil cake (0.5 kg) (locally available) |
|   |  | <b>Technology 2 to be assessed:</b> Farmers' practice + concentrate home made feed * (1kg)           |
| 4 | Source of Technology   | IVRI, Izatnagar  |
| 5 | Production system and  | Cattle based under semi intensive system ; Nutrition management                                      |
|   | thematic area  |  |
| 6 | Performance of the   | Homemade feed was formulated by using broken wheat-30 %, mustard                                     |
|   | Technology with  | oil cake-25 %, rice husk-42 % mineral mixture-2% and common salt-1%.                                 |
|   | performance indicators   | It was supplemented @ 1 kg daily in lactating deshi cow. Milk yield was                              |
|   |  | significantly increased with enhancement of lactation period in                                      |
|   |  | supplemented group   |
| 7 | Final recommendation for   | Daily supplementation of homemade cattle feed @ 1kg/day/head cow                                     |
|   | micro level situation  | should be followed for increasing lactation yield in deshi cow                                       |
| 8 | Constraints identified and                                       | Thorough mixing of feed ingredients is time consuming ;  |
|   | feedback for research  | Feed should be used within one month for better efficiency   |
| 9 | Process of farmers   | Through training , health camp and group discussion  |
|   | participation and their  | Feed intake by cattle is increased and quality of milk is improved                                   |
|   | reaction   |  |

## OFT 7:

| 1. | Title of On farm Trial  | Evaluation of formulated feed for increasing fish productivity under pond ecosystem of Burdwan   |
|----|---|--|
| 2  | Problem diagnose  | Poor fish productivity in domestic small and medium sized ponds due<br>to improper feed management                                     |
| 3  | Details of technologies selected for                            | <b>Farmers' practice :</b> (Stocking density 7500 nos. fish/ha) without any application of feed  |
|    | assessment/refinement   | <b>Technology - 1 to be assessed:</b> Stocking density 7500 nos. fish/ha +<br>Formulated feed*@ 1 % of total fish biomass              |
|    |   | <b>Technology - 2 to be assessed:</b> Stocking density 7500 nos. fish/ha + + Formulated feed* @ 3 % of total fish biomass              |
| 4  | Source of Technology  | CIFA (BBSR)  |
| 5  | Production system and thematic area                             | Extensive fish based production system, feed management  |
| 6  | Performance of the<br>Technology with<br>performance indicators | Considering the length, weight and yield, feed application @ 3 % of tltal fish biomass appeared to be more efficient among all options |
| 7  | Final recommendation for<br>micro level situation               | feed application @ 3 % of tltal fish biomass appeared to be more efficient among all options   |
| 8  | Constraints identified and feedback for research                | Farmers are not aware of application of formulated feed and its impact.  |
| 9  | Process of farmers<br>participation and their<br>reaction       | Through training and awareness camp  |

## **OFT 8:**

| 1 | Title of On form Trial           | Supplementation of diversified vegetables to farm families through              |
|---|----------------------------------|---|
| T | The of On farm Tha               | Supprementation of diversified vegetables to faim families through              |
|   |                                  | kitchen garden  |
| 2 | Problem diagnose                 | Two-three cucurbit plants in kitchen garden is practiced in village fail to     |
|   |                                  | supplement the farm families' vegetable requirement, leading to buy             |
|   |                                  | vegetables from market at a higher price. At the same time the land             |
|   |                                  | adjacent to the household become unutilized.                                    |
| 3 | Details of technologies          | <i>Farmers' practice</i> ( only cucurbits)                                      |
|   | selected for <b>assessment</b> / | <i>Technology option</i> 1: Diversified vegetables (cucurbits ,brinjal, chilli, |
|   | refinement                       | tomato, okra, bean and GLV) without manuring                                    |
|   |                                  | Technology option 2: Diversified vegetables (cucurbits, brinjal, chilli,        |
|   |                                  | tomato, okra, bean and GLV) + Manuring  |
| 4 | Source of Technology             | ICAR  |
| 5 | Production system and            | Semi intensive, adjacent to the household, Increase production of the           |
|   | thematic area                    | garden and nutritious vegetables improve diet of farm families                  |
| 6 | Performance of the               | Better than the conventional in respect to total yield and availability of      |
|   | Technology with                  | diversified vegetables  |
|   | performance indicators           |   |
| 7 | Final recommendation             | Diversified vegetables should be grown with good manuring                       |
|   | for micro level situation        |   |
| 8 | Constraints identified           | Problem of grazing and availability of quality seed. Farm women were            |
|   | and feedback for                 | realizing the fact of supplementing the diversified vegetables for daily diet   |
|   | research                         | by doing kitchen gardening  |
| 9 | Process of farmers               | Through training and awareness camp   |
|   | participation and their          |   |
|   | reaction                         |   |

## **OFT 9:**

| 1 | Title of On farm Trial                            | Evaluation of different storage structures for locally available and                |
|---|---|---|
|   |   | seasonal vegetables   |
| 2 | Problem diagnose                                  | Spoilage of freshly harvested vegetables is a serious problem in the                |
|   |   | village. Farmers faces different problems due to rush selling of the                |
|   |   | vegetables still can not get the price for it. Cool storage can prolong the         |
|   |   | shelf life of fresh produce but refrigeration equipment is expensive to             |
|   |   | buy, run and maintain.  |
| 3 | Details of technologies                           | <i>Farmers' practice</i> i.e. storing the vegetables in the corner of the house     |
|   | selected for assessment/                          | or in bamboo basket.  |
|   | refinement  | Technology option 1: Bamboo iceless refrigerator                                    |
|   |   | Technology option 2: Zero energy cool chamber                                       |
| 4 | Source of Technology                              | ICAR  |
| 5 | Production system and                             | Semi intensive, adjacent to the household or field, Reducing Post harvest losses by |
|   | thematic area                                     | improving shelf life  |
| 6 | Performance of the                                | Better than the conventional in respect to storage temperature and shelf life       |
|   | Technology with                                   |   |
| _ | performance indicators                            |   |
| 7 | Final recommendation for<br>micro level situation | Low cost storage structures should be used to keep the vegetable fresh fetching     |
| 8 | Constraints identified and                        | Problem of Watering frequently Farmers were made aware of Low cost storage          |
| 0 | feedback for research                             | structures to increase the shelf life of vegetables.                                |
| 9 | Process of farmers                                | Through training and awareness camp   |
|   | participation and their                           |   |
|   | reaction  |   |

## OFT 10:

| 1 | Title of On farm Trial  | Assessment of selective chemical measures for controlling stem borer in Kharif paddy in Burdwan district  |
|---|---|---|
| 2 | Problem diagnose  | This is one of the major insects of Kharif paddy in this region causing heavy loss.   |
| 3 | Details of technologies<br>selected for assessment/<br>refinement | <b>Farmers' practice -:</b> Frequent use of Monocrotophos 36% E.C @ 750 ml/ha.<br><b>Technology 1 to be assessed :</b> Phorate 10 G @12.5 Kg/ha at seed bed, + Spray with<br>Cartap 50 % SP @ 800 g/ha in PI stage+ Spray with Fipronil 5% SC @ 1000 ml/ha in<br>flowering stage and repeat of spray 10 days later  |
|   |   | <b>Technology 2 to be assessed :</b> Carbofuran 3 G @ 33 kg/ha at seed bed, 5 to 7 days before pulling the seedling for transplanting + Application of Cartap 4 G @ 25 kg/ha in planting to panicle initiation stage + Spray with Cartap 50 % SP @ 800 g/ha in panicle initiation to flowering stage + Spray with Acephate 75% SP @ 750 ml/ha in flowering stage. |
| 4 | Source of Technology  | DRR, Hyderabad  |
| 5 | Production system and thematic area                               | Rainfed rice based production system; disease management  |
| 6 | Performance of the<br>Technology with<br>performance indicators   | Application of carbofuran along with cartap and acephate gave better results  |
| 7 | Final recommendation for micro level situation                    | Farmers are recommended to use tech 1   |
| 8 | Constraints identified and feedback for research                  | Nil   |
| 9 | Process of farmers<br>participation and their<br>reaction         | Training and group discussion   |

## 3.1. C. Results of On Farm Trials

OFT 1

| Crop/<br>enterprise | Farming situation              | Problem<br>Diagnosed | Title of OFT  | No.<br>of<br>trials | Technology<br>Assessed | Parameters of<br>assessment  | Data on<br>the<br>paramete | Results of assessment   | Feedback from<br>the farmer                                   | Any<br>refine<br>ment | Justifica<br>tion for<br>refinem |
|---------------------|--------------------------------|----------------------|---|---------------------|------------------------|--|----------------------------|---|---|-----------------------|----------------------------------|
|                     |                                |                      |   | *                   |                        |  | r                          |   |   | done                  | ent                              |
| 1                   | 2                              | 3                    | 4   | 5                   | 6                      | 7  | 8                          | 9   | 10  | 11                    | 12                               |
| Mustard             | Medium<br>upland to<br>lowland | Low yield mustard    | of Assessment of<br>performance<br>of Sulphur on<br>productivity<br>of mustard<br>under rainfed<br>and medium<br>to low land<br>situation of<br>Burdwan<br>district | 5                   | Nutrient<br>management | <ul> <li>Yield<br/>attributing<br/>characters</li> <li>Yield</li> <li>Economics</li> </ul> | See<br>table 1             | Productivity of<br>mustard increased<br>with application of<br>Sulfur | Single super<br>phosphate should<br>be made more<br>available | No                    |                                  |

| Technology Assessed  | Production per unit (q/ha) | Net Return<br>(Profit) in Rs./ha | B:C Ratio<br>(Gross return:<br>Gross cost) |
|--|----------------------------|----------------------------------|--|
| 13   | 14                         | 15                               | 16   |
| Farmers' practice: (60: 60: 45 kg NPK/ha through DAP   | 9.91                       | 3595                             | 1.22                                       |
| Technology - 1 to be assessed: 80: 40: 40: 30 kg NPKS/ha<br>through urea, SSP and MOP                    | 12.45                      | 8320                             | 1.50                                       |
| Technology - 2 to be assessed: 80: 40: 40: 26 kg NPKS/ha<br>through urea, 20:20:0:13 and MOP             | 13.25                      | 9660                             | 1.57                                       |
| Technology - 3 to be assessed: 80: 40: 40: 20 kg NPKS/ha<br>through urea, 10:26:26 and elemental sulphur | 13.56                      | 10020                            | 1.59                                       |

#### **Results**:

|   | 140101    |                      |                   |                |                   |                       |                 |           |
|---|-----------|----------------------|-------------------|----------------|-------------------|-----------------------|-----------------|-----------|
| , | Freatment | Plant height<br>(cm) | No. of<br>siliqua | No. of<br>seed | Yield *<br>(q/ha) | Input cost<br>(Rs/ha) | Gross<br>return | B:C ratio |
|   |           |                      | / plant           | /pod           |                   |                       | (Rs/ha)         |           |
|   | FP        | 98.5                 | 92.3              | 12             | 9.91              | 16225                 | 19820           | 1.22      |
|   | TO1       | 114.6                | 112.5             | 16             | 12.45             | 16580                 | 24900           | 1.50      |
|   | TO2       | 116.8                | 116.2             | 19             | 13.25             | 16840                 | 26500           | 1.57      |
|   | TO3       | 115.2                | 117.5             | 18             | 13.56             | 17100                 | 27120           | 1.59      |
|   | LSD       | 8.1*                 | 4.6**             | 8.26*          | 2.15*             |                       |                 |           |

Table 1

The district of Burdwan is a minor oilseed producing district of West Bengal. Among the oilseed, mustard is the major one. Farmers do not get adequate yield owing to non scientific management practices especially nutrient management. They are oblivious of the necessity of application of S for oilseed like mustard. The object of the OFT was to show them the effectivity of S in augmenting productivity. Another problem the farmers face that due to scarce availability of SSP in the region they are forced to apply other fertilizers like DAP, 10:26:26 which do not contain S. Therefore the OFT was also aimed at showing the farmers that they can use other costly S containing fertilizers or elemental S profitably.

Application of SSP, 20:20:0:13 or elemental S resulted in significantly higher productivity as compared to FP and were more cost effective. However the use of different doses of S did not resulted in significant differences in productivity among themselves which may be attributed to the use of different sources of S.

| OFT 2 | 2 |
|-------|---|
|-------|---|

| Crop/<br>enterprise | Farming situation              | Problem<br>Diagnosed   | Title of OFT   | No.<br>of<br>trials<br>* | Technology<br>Assessed | Parameters of assessment   | Data on<br>the<br>paramete<br>r | Results of assessment  | Feedback from<br>the farmer   | Any<br>refineme<br>nt done | Justificati<br>on for<br>refinemen<br>t |
|---------------------|--------------------------------|--|--|--------------------------|------------------------|--|---------------------------------|--|---|----------------------------|---|
| 1                   | 2                              | 3  | 4  | 5                        | 6                      | 7  | 8                               | 9  | 10  | 11                         | 12                                      |
| Rice                | Medium<br>upland to<br>lowland | Application of<br>fertilizer in an<br>inappropriate and<br>unbalanced<br>manner and non<br>use of organics | Assessment of<br>performance of<br>kharif rice<br>productivity<br>through<br>judicious<br>nutrition under<br>medium to low<br>land situation<br>of Burdwan<br>district | 5                        | INM                    | <ul> <li>Yield<br/>attributing<br/>characters</li> <li>Yield</li> <li>Economics</li> </ul> | See<br>Table<br>2               | Farmers benefited<br>equally through use of<br>sesbania and<br>vermicompost in<br>comparison to<br>conventional practice | Poor availability<br>of sesbania seed<br>and high cost of<br>vermicompost | Nil                        |   |

| Technology Assessed  | *Production per unit (q/ha) | Net Return (Profit) in Rs. / ha | B: C Ratio<br>(Gross return : cost) |
|--|-----------------------------|---------------------------------|-------------------------------------|
| 13   | 14                          | 15                              | 16                                  |
| Farmers practice (60:60:45 kg NPK/ha)                      | 38.56                       | 13879                           | 1.82                                |
| TO1 : Recommended dose of fertilizer (80: 40:40 kg NPK/ha) | 42.15                       | 16095                           | 1.91                                |
| TO2: 75% recommended dose + Sesbania (in situ ) *          |                             |                                 |                                     |
|  | 45.56                       | 19417                           | 2.14                                |
| TO3: 75% recommended dose + vermicompost @ 2 tonnes/ha     | 46.59                       | 18647                           | 2.00                                |

| Tabl | e | 2. |
|------|---|----|
| rab  | u | ∠. |

| Technology<br>options | Plant height<br>(cm) | No. of effective<br>tillers/hill | Panicle<br>length (cm) | Yield *<br>(q/ha) | Input cost<br>(Rs./ha) | Gross return<br>(Rs./ha) | B : C ratio |
|-----------------------|----------------------|----------------------------------|------------------------|-------------------|------------------------|--------------------------|-------------|
| FP                    | 94.6                 | 10.1                             | 20.1                   | 38.56             | 16969                  | 30848                    | 1.82        |
| TO1                   | 102.5                | 12.2                             | 25.2                   | 42.15             | 17625                  | 33720                    | 1.91        |
| TO2                   | 112.3                | 14.6                             | 28.6                   | 45.56             | 17031                  | 36448                    | 2.14        |
| TO3                   | 114.5                | 15.0                             | 29.3                   | 46.59             | 18625                  | 37272                    | 2.00        |
| Average               | 105.98               | 12.98                            | 25.80                  | 43.22             | 17563                  | 34572                    | 1.97        |
| LSD at 5%             | 8.45                 | 2.25                             | NS                     | 2.98              | -                      | -                        | -           |

Rice is the predominantly major crop of Burdwan. Nutrient management practices among farmers are grossly unbalanced and without use of organics in most cases. Application of 75% recommended dose + sesbania and application of 75% recommended dose + vermicompost significantly improved rice yield over recommended dose and farmers' practice and was more cost effective.

#### OFT 3

| Crop/<br>enterprise | Farming situation                                 | Problem<br>Diagnosed   | Title of OFT  | No.<br>of<br>trials<br>* | Technology<br>Assessed | Parameters of<br>assessment  | Data on the parameter | Results of<br>assessment   | Feedback from the farmer                | Any<br>refine<br>ment<br>done | Justificati<br>on for<br>refineme<br>nt |
|---------------------|---|--|---|--------------------------|------------------------|--|-----------------------|--|---|-------------------------------|---|
| 1                   | 2   | 3  | 4   | 5                        | 6                      | 7  | 8                     | 9  | 10                                      | 11                            | 12                                      |
| Brinjal             | Medium<br>land<br>under<br>irrigated<br>condition | Several insect, pest<br>and disease<br>invasion is one of<br>the prime factors<br>for low<br>productivity in<br>brinjal. | Assessment of<br>IPM and<br>chemical<br>measures<br>against fruit<br>and shoot<br>borer,<br>phomopsis<br>blight and<br>bacterial wilt of<br>brinjal | 7                        | IPM                    | <ul> <li>Percentage<br/>pest and<br/>disease<br/>infestation.</li> <li>Yield</li> <li>Cost<br/>effectiveness.</li> </ul> | See table<br>3        | Selective<br>chemicals and<br>IPM approach<br>was more<br>effective in<br>controlling major<br>pest and diseases<br>of brinjal | IPM approach was<br>more cost effective | No                            |   |

| Technology Assessed                                | *Production per unit (q/ha) | Net Return (Profit) in Rs. / ha | B:C Ratio |
|--|-----------------------------|---------------------------------|-----------|
| 13   | 14                          | 15                              | 16        |
| Farmers' practice                                  | 180                         | 79100                           | 2.21      |
|  |                             |                                 |           |
| Technology - 1 to be assessed: Selective chemicals | 195                         | 91450                           | 2.41      |
| Technology - 2 to be assessed: IPM approach        | 219                         | 105900                          | 2.52      |
|  |                             |                                 |           |

#### Farmerss' practice-

• Phorate (10g/plant, after transplanting and again 45 DAT), Cypermethrin and Dithane M-45 (applied very frequently about 7-10 days interval)

#### Technology - 1 to be assessed

- Soil application of Carbofuran 3G @ 5g/plant
- Spray of carbosulfan
- Seedling treatment with Streptocycline.
- Foliar spray of Chlorothalonil.
- Foliar spray of Streptocycline

#### Technology - 2 to be assessed.

- Hot water seed treatment.
- Seedling treatment with Streptocycline
- Periodical removal & destruction of early infected fruit & shoots
- Alternate spray of neem based pesticides.
- Need based application of animal origin insecticide i.e., Spinosad.
- Foliar spray of Chlorothalonil

| Table 3: Effect of dif | fferent treatment on control ( | of fruit and shoot borer.             | phomopsis blight and | d bacterial wilt of brinial           |
|------------------------|--------------------------------|---------------------------------------|----------------------|---------------------------------------|
|                        |                                | · · · · · · · · · · · · · · · · · · · |                      | · · · · · · · · · · · · · · · · · · · |

| Treatment | Yield (q/ha) | % infestation | % affected fruits       | % plant survival | Gross return | Net return | B:C ratio |
|-----------|--------------|---------------|-------------------------|------------------|--------------|------------|-----------|
|           |              | of phomopsis  | (Fruit and shoot borer) | (Bacterial wilt) |              |            |           |
|           |              | blight        |                         |                  |              |            |           |
| FP        | 180          | 30            | 29                      | 91               | 144000       | 79100      | 2.21      |
| TO1       | 195          | 22            | 25                      | 89               | 156000       | 91450      | 2.41      |
| TO2       | 219          | 18            | 13                      | 93               | 175200       | 105900     | 2.52      |
| CD (0.05) | 1.96         |               |                         |                  |              |            |           |
| CD (0.01) | 2.53         |               |                         |                  |              |            |           |

Brinjal is highly infested with fruit shoot borer, phomopsis blight and wilt. Integrated approach was taken in this OFT to combine the target specific selected chemicals along with mechanical control measures. It had been found that periodical removal and destruction of infested fruit and shoot and alternate spray of neem pesticide and spinosad successfully managed fruit and shoot borer. Similarly hot water seed treatment and foliar spray of chlorothalonil was better than conventional practice for controlling phomopsis blight. Bacterial blight was not observed.

## OFT 4

| Crop/      | Farming   | Problem              | Title of OFT  | No.    | Technology  | Parameters of             | Data on the | Results of          | Feedback from the   | Any    | Justificati |
|------------|-----------|----------------------|---------------|--------|-------------|---------------------------|-------------|---------------------|---------------------|--------|-------------|
| enterprise | situation | Diagnosed            |               | of     | Assessed    | assessment                | parameter   | assessment          | farmer              | refine | on for      |
|            |           |                      |               | trials |             |                           |             |                     |                     | ment   | refineme    |
|            |           |                      |               | *      |             |                           |             |                     |                     | done   | nt          |
| 1          | 2         | 3                    | 4             | 5      | 6           | 7                         | 8           | 9                   | 10                  | 11     | 12          |
| Potato     | Medium    | Most of the cases    | Evaluation of | 7      | Soil test   | <ul> <li>Yield</li> </ul> | See table   | Better than the     | They were           | No     |             |
|            | land      | potato growers in    | nutrient      |        | based       | • Weight of               | 4           | conventional in     | convinced about the |        |             |
|            | under     | Burdwan Dist.        | management in |        | fertilizers | tuber/plant               |             | respect to yield,   | positive results of |        |             |
|            | irrigated | apply excess         | potato in     |        | applicati   | • Cost                    |             | economy and         | soil test based     |        |             |
|            | condition | amount of            | Burdwan       |        | on          | effectiveness             |             | restoration of soil | fertilizers         |        |             |
|            |           | fertilizers          |               |        |             |                           |             | health              | application in      |        |             |
|            |           | irrespective of soil |               |        |             |                           |             |                     | potato              |        |             |
|            |           | availability to get  |               |        |             |                           |             |                     |                     |        |             |
|            |           | higher yield. Such   |               |        |             |                           |             |                     |                     |        |             |
|            |           | practice for years   |               |        |             |                           |             |                     |                     |        |             |
|            |           | leads to             |               |        |             |                           |             |                     |                     |        |             |
|            |           | deterioration of     |               |        |             |                           |             |                     |                     |        |             |
|            |           | soil health,         |               |        |             |                           |             |                     |                     |        |             |
|            |           | stagnant             |               |        |             |                           |             |                     |                     |        |             |
|            |           | productivity and     |               |        |             |                           |             |                     |                     |        |             |
|            |           | ultimately poor      |               |        |             |                           |             |                     |                     |        |             |
|            |           | economy.             |               |        |             |                           |             |                     |                     |        |             |

| Technology Assessed  | *Production per unit (q/ha) | Net Return (Profit) in Rs. / ha | B:C Ratio |
|--|-----------------------------|---------------------------------|-----------|
| 13   | 14                          | 15                              | 16        |
| Farmers' practice (240: 240: 240 NPK per ha through 10:26:26 and urea  | 27.7                        | 74495                           | 2.49      |
| Technology - 1 to be assessed: Recommended dose (200:150:150 NPK per ha through urea, SSP and MOP              | 28.4                        | 79825                           | 2.66      |
| Technology - 2 to be assessed: Soil test based fertilization (200:150:125 NPK per ha through urea, SSP and MOP | 28.3                        | 79585                           | 2.67      |

| Treatment | Weight of tuber/plant | Yield (q/ha) | Gross return | Net return | B:C ratio |
|-----------|-----------------------|--------------|--------------|------------|-----------|
|           | (g)                   |              |              |            |           |
| FP        | 587.1                 | 27.7         | 124650       | 74495      | 2.49      |
| TO1       | 614.4                 | 28.4         | 127800       | 79825      | 2.66      |
| TO2       | 614.2                 | 28.3         | 127350       | 79585      | 2.67      |
| CD (0.05) | 32.97                 | 0.93         |              |            |           |

Most of the cases potato growers in Burdwan Dist. apply excess amount of fertilizers irrespective of soil availability to get higher yield. Such practice for years leads to deterioration of soil health, stagnant productivity and ultimately poor economy. Application of fertilizers based on soil test data provides better yield (28.3 q/ha) and highest profit (B:C ratio: 2.67) in comparison to conventional practice.

OFT 5

| Crop/<br>enterprise | Farming<br>situation   | Problem<br>Diagnosed   | Title of OFT  | No.<br>of<br>trials<br>* | Technolog<br>y Assessed  | Parameters of<br>assessment  | Data on<br>the<br>parameter | Results of assessment  | Feedback from<br>the farmer   | Any<br>refine<br>ment<br>done | Justi<br>ficat<br>ion<br>for<br>refin<br>eme<br>nt |
|---------------------|--|--|---|--------------------------|--|--|-----------------------------|--|---|-------------------------------|--|
| Goat                | 2<br>House<br>hold<br>farming<br>with 4-6<br>goats of<br>Bengal<br>breed | 3<br>Mal-nutrition of<br>pregnant doe<br>(Breed- Bengal<br>Goat) leads to<br>production of<br>under -weight<br>kid | 4<br>Assessment of<br>strategic<br>supplementatio<br>n for pregnant<br>doe in Burdwan<br>district | 5 7                      | 6<br>Strategic<br>supplement<br>ation of<br>pregnancy<br>allowance | <ul> <li>7</li> <li>Body weight<br/>of kid at<br/>birth</li> <li>Benefit cost<br/>ratio</li> </ul> | 8<br>See table<br>5         | 9<br>Supplementation of<br>homemade feed @<br>50g/d/doe during 90 days<br>post mating to parturition<br>improved birth weight of kid<br>with better survivability. | 10Mostofbeneficiariesexpressedthatbodycoatconditionofpregnantdoewasbecomeveryattractive and theyreceivedmorehealthy kids. | 11<br>No                      | 12   |

| Technology Assessed  | *Production per unit (Avg. birth wt | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|-------------------------------------|-----------------------------------|----------|
|  | of kid)                             |                                   |          |
| 13   | 14                                  | 15                                | 16       |
| Farmers' practice (only grazing and used to offer kitchen waste) | 842.86                              | 78                                | 1.86     |
| TO1: (Feeding of homemade concentrate @ 50 gm/day/goat           | 1071.43                             | 113                               | 2.11     |
| from 120days of gestation to parturition )                       |                                     |                                   |          |
| TO2: (Feeding of homemade concentrate @ 50gm/day/goat            | 1250.00                             | 136                               | 2.19     |
| from 90 days of gestation to parturition)                        |                                     |                                   |          |

#### Table 5 Effect of supplemented feeding during pregnancy on birth weight of kid

| Technologies* | Birth wt of kid (g/kid) |
|---------------|-------------------------|
| FP            | 842.86c                 |
| TO1           | 1071.43b                |
| TO2           | 1250.00a                |

a b c values with different superscripts differ significantly (P<0.05).

Technology details including farmers' practice

Farmers' practice :Grazing and feeding kitchen waste

Technology - 1 to be assessed: Feeding of homemade concentrate<sup>\*</sup> @ 50 gm/day/goat from 120 days of gestation to parturation

Technolog - 2 to be assessed: Feeding of homemade concentrate\* @ 50gm/day/goat from 90 days of gestation to parturition

\* The homemade concentrate is composed of 1/3 part cereal grain, 1/3 part oil cake, 1/3 part cereal byproducts, salt and mineral mixture with vitamins Homemade feed goat concentrate was prepared with broken wheat-30 %, mustard oil cake -30 %, rice polish- 37 %, salt-1% and mineral mixture-2 %. Concentrate was supplemented @ 50 gm/day in pregnant doe of Bengal breed in wet form. Strategic supplementation of pregnancy allowance during the last two months of gestation was significantly better in term of birth weight of kids.

### OFT 6

| Crop/     | Farming  | Problem  | Title of OFT   | No. of  | Technology               | Parameters of  | Data on        | Results of assessment   | Feedback from  | Any      | Justificati |
|-----------|--|--|--|---------|--------------------------|--|----------------|---|--|----------|-------------|
| enterpris | situation  | Diagnosed  |  | trials* | Assessed                 | assessment   | the            |   | the farmer   | refineme | on for      |
| e         |  |  |  |         |                          |  | parameter      |   |  | nt done  | refineme    |
|           |  |  |  |         |                          |  |                |   |  |          | nt          |
| 1         | 2  | 3  | 4  | 5       | 6                        | 7  | 8              | 9   | 10   | 11       | 12          |
| Cattle    | House<br>hold<br>farming<br>with 2-4<br>deshi cattle<br>under<br>traditional<br>feeding<br>practices | Poor milk yield in<br>deshi cow is due<br>to imbalanced<br>feed<br>supplementation | Evaluation of<br>performance of<br>supplemented<br>feeding in<br>lactating deshi<br>cow in Burdwan<br>district | 7       | Supplemente<br>d feeding | <ul> <li>Milk Yield</li> <li>Lactation<br/>period</li> </ul> | See<br>table 6 | Milk yield was<br>significantly increased<br>with enhancement of<br>lactation period by<br>supplementing<br>homemade feed @<br>1kg/ day | Feed intake by<br>cattle was<br>increased and<br>quality of milk<br>was improved | No       |             |

| Technology Assessed   | * <b>Production per unit</b> (Avg. milk<br>yield in Kg/ lactation/cow) | Net Return (Profit) in Rs.<br>(one cow/lactation) | B:C Ratio<br>(Gross return :<br>cost) |
|---|--|---|---------------------------------------|
| 13  | 14   | 15  | 16                                    |
| Farmers' practice: Feeding of rice polish (1-2 kg), soaked straw (5-6 kg) and | 235  | 85  | 1.02                                  |
| grazing   |  |   |                                       |
| TO1= Farmers' practice + soaked oil cake (0.5 kg) (locally available)         | 421.92   | 1849  | 1.37                                  |
| TO2= Farmers' practice + concentrate home made feed * (1kg)                   | 561.14   | 3151  | 1.54                                  |

Table 6 Effect of different technology options on milk yield and lactation day.

| Treatment | Milk yield ( kg/ lactation ) | Lactation day |
|-----------|------------------------------|---------------|
| FP        | 235c                         | 180b          |
| TO1       | 421.92b                      | 202a          |
| TO2       | 561.14 a                     | 215a          |

a b c values with different superscripts in a row differ significantly (p<0.05).

Home made cattle feed was formulated by using locally available feed ingredients like broken wheat -30 parts, mustard oil cake-25 parts, rice husk-40 parts, rice bran- 2 parts, common salt-1 part and mineral mixture- 2 parts. It was supplementation in lactating deshi cow under farmers management condition @ 1kg/ day/cow. Milk yield was significantly increased in supplemented group with homemade feed . Lactation day was also enhanced significantly in compare to farmers' practice but no difference was observed between oilcake supplemented and homemade feed supplemented groups.

#### OFT 7

| Crop/<br>enterprise | Farming situation  | Problem<br>Diagnosed  | Title of OFT   | No.<br>of<br>trials<br>* | Technology<br>Assessed                               | Parameters of<br>assessment         | Data on<br>the<br>paramete<br>r | Results of assessment  | Feedback<br>from the<br>farmer   | Any<br>refinemen<br>t done | Justifica<br>tion for<br>refinem<br>ent |
|---------------------|--|---|--|--------------------------|--|-------------------------------------|---------------------------------|--|--|----------------------------|---|
| 1                   | 2  | 3   | 4  | 5                        | 6  | 7                                   | 8                               | 9  | 10   | 11                         | 12                                      |
| Fish                | Medium<br>or small<br>sized<br>domestic<br>water<br>bodies | Less or no feeding<br>practices, leading<br>to poor fish<br>productivity in<br>domestic small<br>and medium sized<br>ponds. | Evaluation of<br>formulated feed<br>for increasing<br>fish productivity<br>under pond<br>ecosystem of<br>Burdwan | 7                        | Feed prepared<br>locally available<br>materials etc. | Length data<br>Yield<br>performance | see<br>table 7                  | Application of feed is<br>very much necessary<br>for better growth rate<br>of fish and sustainable<br>higher production<br>from small and semi-<br>medium domestic<br>ponds. | Farmers are<br>made<br>aware of<br>the<br>application<br>of<br>formulated<br>feed in fish<br>culture | No                         | NA                                      |

| 13  | 14  | 15                                    | 16                                 |
|---|---|---------------------------------------|------------------------------------|
|   | Production per unit area<br>of pond/ annum (t/ha) | Net Return in<br>Rs. ha <sup>-1</sup> | B:C Ratio<br>(Gross return : cost) |
| Farmers' practice : (Stocking density 7500 nos. fish/ha) without any application of feed                | 0.90  | 12117                                 | 1.37                               |
| Technology – 1 to be assessed: Stocking density 7500 nos. fish/ha + Formulated feed*@ 1 % of total fish | 1.36  | 22949                                 | 1.68                               |
| biomass   |   |                                       |                                    |
| Technology – 2 to be assessed: Stocking density 7500 nos. fish/ha + + Formulated feed* @ 3 % of total   | 1.90  | 30128                                 | 1.88                               |
| fish biomass  |   |                                       |                                    |

Trial was conducted on standardization of different doses of cowdung application for increasing productivity freshwater ponds by culturing IMC.

FP= Farmers' practice (Stocking density 7500 nos fish/ha) without application of feed

TO1= Stocking density 7500 nos fish/ha + Formulated feed\*@1 % of total fish biomass in each replication.

TO2= Stocking density 7500 nos fish/ha + Formulated feed\*@1 % of total fish biomass in each replication.

\*Formulated feed made by locally available feed ingredients (Mustard Oil

Farmers generally apply feed material made from locally available resources of that area. Feed was applied at the rate recommended at different research institutes. Table – 7: Effect of formulated feed on fish production

| Table: Treatment | Length of fish (cm)     | Yield (Qt/ha)           |
|------------------|-------------------------|-------------------------|
| FP               | 9.40±0.83°              | 9.02±0.02°              |
| TO1              | 14.02±0.64 <sup>b</sup> | 13.61±0.03 <sup>b</sup> |
| TO2              | 18.92±0.41ª             | 19.02±0.03ª             |

\*Treatments are significantly different at 5% levels.

Objectives: To study the growth rate and yield performance of IMC fish in that particular pond ecosystem

Results obtained indicated that by optimizing feed application, which was previously not applied, increased the productivity. The OFT revealed that application of formulated feed gave the best result when applied @ 3 % of total biomass of fish.

|   | OF | Т | 8: |
|---|----|---|----|
| _ |    | _ |    |

| Crop/      | Farming     | Problem Diagnosed      | Title of OFT  | No.     | Technology    | Parameters of | Data on   | Results of      | Feedback     | Any        | Justification |
|------------|-------------|------------------------|---------------|---------|---------------|---------------|-----------|-----------------|--------------|------------|---------------|
| enterprise | situation   |                        |               | OT      | Assessed      | assessment    | the       | assessment      | from the     | refinement | for           |
|            |             |                        |               | trials* |               |               | parameter |                 | farmer       | done       | refinement    |
| 1          | 2           | 3                      | 4             | 5       | 6             | 7             | 8         | 9               | 10           | 11         | 12            |
| Kitchen    | Semi        | Two-three cucurbit     | Supplementat  | 7       | Crop          | Total yield   | See table | Results         | Realized the | No         |               |
| garden     | intensive,  | plants in kitchen      | ion of        |         | diversificati | (component    | 8 , 8a &  | revealed that   | benefits of  |            |               |
|            | adjacent to | garden Which is        | diversified   |         | on and        | wise)         | 8b        | diversified     | diversified  |            |               |
|            | the         | practised in village   | vegetables to |         | Nutrient      | Incorporatio  |           | veg. with       | vegetable    |            |               |
|            | household   | fail to supplement the | farm families |         | manageme      | n of          |           | manuring        | production   |            |               |
|            |             | farm familiys'         | through       |         | nt            | vegetables in |           | performed       | with         |            |               |
|            |             | vegetable              | kitchen       |         |               | daily diet    |           | well in terms   | manuring     |            |               |
|            |             | requirement, leading   | garden        |         |               | Surplus       |           | of              |              |            |               |
|            |             | to buy vegetables      |               |         |               | production    |           | Incorporation   |              |            |               |
|            |             | from market at a       |               |         |               | Calculated    |           | of vegetables   |              |            |               |
|            |             | higher price. At the   |               |         |               | nutritive     |           | in daily diet   |              |            |               |
|            |             | same time the land     |               |         |               | value of      |           | (419), nutrient |              |            |               |
|            |             | adjacent to the        |               |         |               | available     |           | management      |              |            |               |
|            |             | household become       |               |         |               | vegetables    |           | and Yield       |              |            |               |
|            |             | unutilized.            |               |         |               |               |           | (kg/unit).      |              |            |               |

| Technology Assessed   | *Production per unit<br>(q/ha) | Net Return (Profit)<br>in Rs./ha | B:C Ratio |
|---|--------------------------------|----------------------------------|-----------|
| 13  | 10.5                           | 32000.00                         | 1.50      |
| FP– Farmers' practice (only cucurbits)  | 21.5                           | 37000.00                         | 1.90      |
| TO1= Diversified vegetables (cucurbits ,brinjal, chilli, tomato, okra, bean and GLV) without manuring | 26.0                           | 44000.00                         | 2.30      |
| TO2= Diversified vegetables (cucurbits, brinjal, chilli, tomato, okra, bean and GLV) + Manuring       |                                |                                  |           |

#### Table 8 Effect of different treatments on vegetable production

| Treatments      | Incorporation of vegetables in daily diet (g) |       |       |           |           | Surplus yield | (Kg/uni | it)   |
|-----------------|---|-------|-------|-----------|-----------|---------------|---------|-------|
|                 | Cucurbits                                     | GLV   | Total | Cucurbits | Other veg | GLV           | Total   |       |
| FP              | 149   | -     | -     | 149       | 28        | -             | -       | 28    |
| TO <sub>1</sub> | 117   | 147.3 | 75    | 339.3     | 10.5      | 19.5          | 7       | 37    |
| TO <sub>2</sub> | 137   | 204   | 78    | 419       | 13.5      | 29.75         | 7       | 50.25 |

| Treatments      |         | Cucurl | oits  |       |         | Other vegetables |        |          | GLV    |       |            |       |       |
|-----------------|---------|--------|-------|-------|---------|------------------|--------|----------|--------|-------|------------|-------|-------|
|                 | Pumpkin | Bitter | Ridge | Total | Brinjal | Okra             | Tomato | Dolichos | Chilli | Total | Amaranthus | Palak | Total |
|                 | _       | gourd  | gourd |       |         |                  |        | bean     |        |       |            |       |       |
| FP              | 38      | 20     | 26    | 84    | -       | -                | -      | -        | -      | -     | -          | -     | -     |
| TO <sub>1</sub> | 27      | 12     | 15    | 54    | 28      | 12               | 25     | 08       | 02     | 75    | 15         | 18    | 33    |
| TO <sub>2</sub> | 30      | 18     | 17    | 65    | 37      | 19               | 34     | 14       | 2.5    | 106.5 | 18         | 18.5  | 36.5  |

Table 8a Effect of different treatments on vegetable production [Yield (kg/unit)]

Table 8b: Calculated nutritive value of available vegetables (Table value)

| Treatments      | Vitamin A (µg) | Ascorbic acid (mg) | Calcium(mg) | Iron(mg) | Phosphorus(mg) |
|-----------------|----------------|--------------------|-------------|----------|----------------|
| FP              | 1605.7         | 35.94              | 22.04       | 1.35     | 57.6           |
| TO <sub>1</sub> | 8788.5         | 118.8              | 266.49      | 33.28    | 146.9          |
| TO <sub>2</sub> | 9300.5         | 145.8              | 425.6       | 43.8     | 184.9          |

It is now well conceived that by simply adding greens and other vegetables to the available food grains, the diet of the average Indians can substantially be upgraded and there is a scope for using the unutilized land adjacent to the household. In this OFT the treatments that include diversified vegetables with manuring performed best in terms of Incorporation of vegetables in daily diet (419g), availability of nutrient and Yield (208kg/unit) around the year.

| 0 | F | Г | 9 |
|---|---|---|---|
| ~ |   |   | ~ |

| Crop/<br>enterprise | Farming situation  | Problem<br>Diagnosed  | Title of OFT  | No.<br>of<br>trials<br>* | Technology<br>Assessed                              | Parameters of<br>assessment   | Data on<br>the<br>paramet<br>er | Results of assessment  | Feedback<br>from the<br>farmer  | Any<br>refinemen<br>t done | Justifica<br>tion for<br>refinem<br>ent |
|---------------------|--|---|---|--------------------------|---|---|---------------------------------|--|---|----------------------------|---|
| 1                   | 2  | 3   | 4   | 5                        | 6   | 7   | 8                               | 9  | 10  | 11                         | 12                                      |
| Vegeta<br>ble       | Semi<br>intensive,<br>adjacent<br>to the<br>househol<br>d and<br>field | Spoilage of freshly<br>harvested<br>vegetables is a<br>serious problem in<br>the village<br>without proper<br>storage facility. | Evaluation of<br>different storage<br>structures for<br>locally available<br>and seasonal<br>vegetables | 5                        | locally available<br>low cost storage<br>structures | <ul> <li>Storage<br/>temperat<br/>ure</li> <li>Percentag<br/>e of<br/>rotting</li> <li>Duration<br/>of self life</li> <li>Loss in<br/>weight</li> </ul> | See<br>table<br>9               | It was observed that<br>Zero Energy Cool<br>Chamber was recorded<br>lowest storage<br>temperature of 22.88 °C<br>and highest days of self<br>life i.e. 6.2 days. With<br>some minor<br>modification in bamboo<br>basket it is observed<br>that the temperature is<br>reducing and loss in<br>weight and rotting<br>percentage is lowered<br>by 13 and 25<br>respectively | Farmers are<br>made<br>aware of<br>different<br>types of<br>storagr<br>structures<br>can be<br>prepared<br>with the<br>locally<br>available<br>low cost<br>materials. | No                         |   |

| Technology Assessed   | *Production per<br>unit (t/ha) | Net Return (Profit)<br>in Rs./q stored veg. | B:C Ratio |
|---|--------------------------------|---|-----------|
|   | -                              |   |           |
| FP- Farmers' practice (storing the vegetables in the corner of the house or in bamboo basket) | -                              | 325   | 1.76      |
| TO1= Bamboo iceless refrigerator  | -                              | 427   | 1.85      |
| TO2 = Zero energy cool chamber  | -                              | 517   | 2.10      |

Table 9

| Treatments      | Storage Temperature (°C) | %of rotting | Shelf life (days) | Loss in weight (%) |
|-----------------|--------------------------|-------------|-------------------|--------------------|
| FP              | 35.96                    | 40          | 3.2               | 22                 |
| TO <sub>1</sub> | 28.92                    | 25          | 4.8               | 13                 |
| TO <sub>2</sub> | 22.88                    | 15          | 6.2               | 8                  |

\* Treatment details

Farmers' Practice: Storing vegetables and fruits in a corner of the house or in a bamboo basket.

**Bamboo iceless refrigerator**: Some modification was done with the bamboo basket used for farmers practice. Big Bamboo basket with a lid was covered by wet gunny bag s and watering it frequently. The vegetables were stored in plastic crates in side the bamboo basket.

Zero Energy cool chamber: A double walled brick structure and in between two walls river sand was used and the sand was kept wet to retain the moisture. The chamber was covered by a frame of bamboo and straw

It was observed that Zero Energy Cool Chamber was recorded lowest storage temperature of 22.88 °C and highest days of self life i.e. 6.2 days. With some minor modification in bamboo basket it is observed that the temperature is reducing and loss in weight and rotting percentage is lowered by 13 and 25 respectively.

| Crop/<br>enterprise | Farming situation | Problem<br>Diagnosed  | Title of OFT  | No. of<br>trials | Technology<br>Assessed  | Parameters of assessment  | Data on<br>the<br>parameter | Results of assessment   | Feedback from<br>the farmer                                  | Any<br>refine<br>ment<br>done | Justifica<br>tion for<br>refineme<br>nt |
|---------------------|-------------------|---|---|------------------|---|---|-----------------------------|---|--|-------------------------------|---|
| 1                   | 2                 | 3   | 4   | 5                | 6   | 7   | 8                           | 9   | 10   | 11                            | 12                                      |
| Rice                | Medium<br>upland  | Yellow Stem<br>Borer is one<br>of the major<br>insects of<br>Kharif paddy<br>in this region<br>causing<br>heavy loss. | Assessment of<br>selective<br>chemical<br>measures for<br>controlling stem<br>borer in Kharif<br>paddy in<br>Burdwan district | 7                | Granular<br>pesticides in<br>seed bed<br>cause better<br>protection | Percentage pest<br>infestation<br>Yield<br>Benefit: cost<br>ratio | See<br>table 10<br>& 10a    | Carbofuran 3 G @ 33 kg/ha at seed<br>bed, 5 to 7 days before pulling the<br>seedling for transplanting +<br>Application of Cartap 4 G @ 25<br>kg/ha in planting to panicle<br>initiation stage + Spray with Cartap<br>50 % SP @ 800 g/ha in panicle<br>initiation to flowering stage +<br>Spray with Acephate 75% SP @<br>750 ml/ha in flowering stage. | Yield has been<br>increased for<br>better crop<br>protection | No                            |   |

**OFT 10** 

| Technology Assessed   | Production per unit (q/ha) | Net Return (Profit) in<br>Rs. / ha | B:C Ratio<br>(Gross return/Gross cost) |
|---|----------------------------|------------------------------------|--|
| 13  | 14                         | 15                                 | 16                                     |
| Farmers practice : Frequent use of Monocrotophos 36% E.C @ 750 ml/ha.   | 39.46                      | 14718                              | 1.87                                   |
| TO1 : Phorate 10 G @12.5 Kg/ha at seed bed, + Spray with Cartap 50 % SP @ 800 g/ha in PI stage+ Spray with Fipronil 5% SC @ 1000 ml/ha in flowering stage and repeat of spray 10 days later.  | 44.97                      | 17426                              | 1.93                                   |
| TO2: Carbofuran 3 G @ 33 kg/ha at seed bed, 5 to 7 days before pulling the seedling<br>for transplanting + Application of Cartap 4 G @ 25 kg/ha in planting to panicle<br>initiation stage + Spray with Cartap 50 % SP @ 800 g/ha in panicle initiation to<br>flowering stage + Spray with Acephate 75% SP @ 750 ml/ha in flowering stage | 47.86                      | 19240                              | 2.01                                   |

## Table 10

| Treatments | Pe                          | Percent damage caused by Yellow Stem Borer# |                    |  |  |  |  |  |  |  |  |
|------------|-----------------------------|---|--------------------|--|--|--|--|--|--|--|--|
|            | 1 <sup>st</sup> Observation | 2nd Observation                             | 3rd Observation    |  |  |  |  |  |  |  |  |
| FP         | 5.19 <sup>a</sup>           | 7.33 <sup>a</sup>                           | 10.06 <sup>a</sup> |  |  |  |  |  |  |  |  |
| TO1        | 3.40 <sup>b</sup>           | 4.73 <sup>b</sup>                           | 6.36 <sup>b</sup>  |  |  |  |  |  |  |  |  |
| TO2        | 2.66 <sup>c</sup>           | 3.23°                                       | 4.74 <sup>c</sup>  |  |  |  |  |  |  |  |  |
| Average    | 3.75                        | 5.10  | 7.05               |  |  |  |  |  |  |  |  |

\* Duncan's Multiple Range Test (DMRT) was used. # Percent damage per sq. m caused by Yellow Stem Borer = (No. of white ear head\*100)/ No. of effective tiller

| Treatments | No. of effective  | Panicle           | Yield              | Input cost | Gross return | B : C ratio               |
|------------|-------------------|-------------------|--------------------|------------|--------------|---------------------------|
|            | tillers/hill      | length (cm)       | (q/ha)             | (Rs./ha)   | (Rs./ha)     | (Gross return/Gross cost) |
| FP         | 13.2ª             | 22.3ª             | 39.46 <sup>a</sup> | 16850      | 31568        | 1.87                      |
| TO1        | 15.7 <sup>b</sup> | 25.5 <sup>b</sup> | 44.97 <sup>b</sup> | 18550      | 35976        | 1.93                      |
| TO2        | 16.1c             | 26.2 <sup>c</sup> | 47.86 <sup>c</sup> | 19050      | 38290        | 2.01                      |
| Average    | 15.0              | 24.7              | 44.1               |            |              |                           |

\* Duncan's Multiple Range Test (DMRT) was used.

#### 3.2 Achievements of Frontline Demonstrations

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2007-08 (October to September) and recommended for large scale adoption in the district

| c   |                      | Technology             | Details of popularization methods suggested to the | Horizonta | al spread of technol | ogy     |
|-----|----------------------|------------------------|--|-----------|----------------------|---------|
| J.  | Thematic Area*       | damonstrated           |  | No. of    | No. of               | Area in |
| INO |                      | demonstrated           | Extension system                                   | villages  | farmers              | ha      |
| 1   | Crop diversification | Improved jute          | Training and demonstration                         | 1         | 20                   | 3       |
|     |                      | production technology  |  |           |                      |         |
| 2   | Agronomic practice   | Improved production    | Training and demonstration                         | -         | -                    | -       |
|     |                      | technology for lentil  |  |           |                      |         |
|     |                      | Improved production    | Training and demonstration                         | 3         | 50                   | 10      |
|     |                      | technology for mustard |  |           |                      |         |

Details of FLDs implemented during 2008-09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

| C1  |                       |  | Tachnalagy               | Coscop and    | Area     | (ha)   | No. of farmers/demonstration |    |        |       | Reasons for              |
|-----|-----------------------|--|--------------------------|---------------|----------|--------|------------------------------|----|--------|-------|--------------------------|
| No. | Crop                  | Thematic area                                      | Demonstrated             | year          | Proposed | Actual | SC                           | ST | Others | Total | shortfall in achievement |
| 1.  | Mustard               | Improved<br>agronomic practice                     | Package<br>demonstration | Rabi 08-09    | 4        | 4ha    | 17                           | 0  | 13     | 30    | -                        |
| 2.  | Paddy                 | Improved<br>agronomic practice                     | Package demonstration    | Kharif 08     | 1.8      | 1      | 7                            | 0  | 0      | 7     |                          |
| 3.  | Jute                  | Improved<br>agronomic practice                     | Package<br>demonstration | Pre kharif 08 | 2        | 2      | 14                           | 0  | 1      | 15    | -                        |
| 4.  | Potato                | Scientific<br>management of late<br>blight disease | Component                | Rabi 08       | 1.8      | 1.8    | 7                            | -  | 10     | 17    | -                        |
| 5.  | Rice bean<br>(fodder) | Fodder production                                  | Component (Bio<br>fert)  | Kharif 08     | 0.2      | 0.2    | 1                            | -  | 4      | 5     | -                        |
| 6.  | Brinjal               | Disease<br>management                              | Component<br>(Fungicide) | Kharif 08     | 0.75     | 0.75   | 11                           |    | 5      | 16    | -                        |
| 7.  | Brinjal *             | Improved<br>agronomic package                      | Package<br>demonstration | Kharif 08     | 0.8      | 0.8    | 2                            | -  | -      | 2     | -                        |
| 8   | Tomato *              | Improved<br>agronomic package                      | Package<br>demonstration | Rabi 2008     | 0.4      | 0.4    | 1                            | -  | -      | 1     | -                        |
| 9.  | Banana *              | Improved<br>agronomic package                      | Package<br>demonstration | Rabi 2008     | 0.8      | 0.8    | -                            | -  | 2      | 2     | -                        |

| D / 11  | ~ ~  | c •     | • •       |
|---------|------|---------|-----------|
| Details | nt t | tarmino | situation |
| Details |      | arming  | Situation |

| Сгор                  | Season           | Farming<br>situation | Soil type  | Status of soil                                    |   | Previous crop                                     | Sowing date          | Harvest date                                  | Seasonal<br>rainfall                            | No.<br>of |      |
|-----------------------|------------------|----------------------|--|---|---|---|----------------------|---|---|-----------|------|
|                       |                  | (RF/Irrigated)       |  | N (kg/ha)   | P (kg/ha)                                     | K (kg/ha)   |                      |   |   | (mm)      | days |
| Mustard               | Rabi 2008        | Irrigated            | Garamba:<br>Sandy loam<br>Jagulipara:<br>Clay loam | Garamba:<br>156 - 282<br>Jagulipara:<br>252 - 367 | Garamba:<br>23 - 54<br>Jagulipara:<br>22 - 65 | Garamba:<br>190 - 324<br>Jagulipara:<br>145 - 255 | Paddy                | Garamba: 15.10.<br>08 Jagulipara:<br>12.11.08 | Garamba:<br>16.2. 08<br>Jagulipara:<br>10.3. 08 |           |      |
| Paddy                 | Kharif 08        | Irrigated            | Sandy loam   | 160 - 270   | 45-65   | 220-310   | Sesame               | 5.7.08  | 1.11.2008                                       |           |      |
| Jute                  | Pre kharif<br>08 | Irrigated            | Sandy loam   | 205 - 350   | 23-46   | 265 - 390   | Potato<br>/Mustard   | 30.4.2008                                     | 2.9.2008  |           |      |
| Potato                | Rabi 08          | Irrigated            | Sandy loam   | 220 - 324   | 30- 64  | 195 - 298   | Paddy<br>/vegetables | 10.11.2008                                    | 26.3.2009                                       |           |      |
| Rice bean<br>(fodder) | Kharif 08        | Rainfed              | Clay loam  | 230 - 315   | 27 - 45                                       | 215 - 320   | Vegetables           | 26.8.08                                       | 10.10.08 -<br>20.11.08                          |           |      |
| Brinjal               | Kharif 08        | Rainfed              | Sandy loam   | 215 - 330   | 32-65   | 220 - 380   | Vegetables           | 27.5.08                                       | 10.8.08-<br>25.10.08                            |           |      |
| Tomato *              | Rabi 08          | Rainfed              | Sandy loam   | 215 - 330   | 32-65   | 220 - 380   | Vegetables           | 10.10.08                                      | Several<br>times                                | -         | -    |
| Banana *              | Rabi 08          | Rainfed              | Clay loam  | 230 - 315   | 27 - 45                                       | 215 - 320   | Paddy                | 07.10.08                                      | Standing  | -         | -    |

\* ATMA sponsored *Performance of FLD* 

| S1. No. | Crop     | Technology            | Variety | No. of         | Area  | Dem   | Demo. Yield (q/ha) |       | Yield of local         | Increase in | Data on                | parameter in   |
|---------|----------|-----------------------|---------|----------------|-------|-------|--------------------|-------|------------------------|-------------|------------------------|----------------|
|         |          | Demonstrated          |         | Farmers        | (ha.) |       |                    |       | Check (q/ha) yield (%) |             | relation to technology |                |
|         |          |                       |         |                |       |       |                    |       |                        | over local  | demons                 | trated (q/ha)  |
|         |          |                       |         |                |       | Н     | L                  | Α     |                        | check       | Demo                   | Local          |
| 1       | 2        | 3                     | 4       | 5              | 6     | 7     | 8                  | 9     | 10                     | 11          | 12                     | 13             |
| 1       | Mustard  | Package demonstration | B – 9   | Garamba: 15    | 4     | 13.6  | 9.8                | 11.3  | 10.2                   | 11          | See                    | below *        |
|         |          |                       |         | Jagulipara :15 |       |       |                    |       |                        |             |                        |                |
| 2       | Paddy    | Package demonstration | MTU     | 7              | 1     | 45.56 | 42.15              | 44.26 | 40.85                  | 8           | See                    | below *        |
|         | -        | -                     | 7029    |                |       |       |                    |       |                        |             |                        |                |
| 3       | Jute     | Improved package      | JRO 524 | 15             | 2     | 29.50 | 26.00              | 27.66 | 25.08                  | 10          | See                    | e below*       |
|         |          | demonstration         |         |                |       |       |                    |       |                        |             |                        |                |
| 4       | Potato   | Component             | Kufri   | 15             | 1     | 300   | 260                | 280   | 250                    | 12          |                        |                |
|         |          | demonstration         | Jyoti   |                |       |       |                    |       |                        |             |                        |                |
|         |          | (late blight disease  | -       |                |       |       |                    |       |                        |             |                        |                |
|         |          | management)           |         |                |       |       |                    |       |                        |             |                        |                |
| 5       | Rice     | Component             | Bidhan  | 5              | 0.2   | 208   | 188                | 197.6 | 161.2                  | 22.5        | Only gree              | n fodder yield |
|         | bean     | demonstation          | 1       |                |       |       |                    |       |                        |             | 8                      | given          |
|         | (fodder) | (Biofertiliser)       |         |                |       |       |                    |       |                        |             |                        | -              |

| 6 | Brinjal | Component             | Local | 16 | 0.75 | 240.3 | 215.6 | 226.5   | 213.7 | 6  | See below * |
|---|---------|-----------------------|-------|----|------|-------|-------|---------|-------|----|-------------|
|   |         | demonstration         |       |    |      |       |       |         |       |    |             |
|   |         | (Fungicide)           |       |    |      |       |       |         |       |    |             |
| 7 | Brinjal | Package demonstration | Local | 2  | 0.8  | -     | -     | 250.0   | 210.0 | 9  | See below * |
| 8 | Tomato  | Package demonstration | Local | 1  | 0.4  | -     | -     | 240.0   | 200.0 | 12 | See below * |
| 9 | Banana  | Package demonstration |       | 2  | 0.8  | -     | -     | Standin | -     | -  | -           |
|   |         |                       |       |    |      |       |       | g       |       |    |             |

## **Economic Impact** (continuation of previous table)

| Average Cost of | cultivation (Rs./ha) | Avg Gros | ss Return (Rs./ha) | Average Net Retu | rn (Profit) (Rs./ha) | Benefit-Cost Ratio (Gross  |
|-----------------|----------------------|----------|--------------------|------------------|----------------------|----------------------------|
| Demo            | Local Check          | Demo     | Local Check        | Demonstration    | Local Check          | Return / Gross Cost)       |
| 14              | 15                   | 16       | 17                 | 18               | 19                   | 20                         |
| 17150           | 16621                | 33900    | 30600              | 16750            | 13979                | Demo : 1.98, L. Chk.: 1.84 |
| 16725           | 16125                | 38408    | 35680              | 21683            | 19555                | Demo : 2.30, L. Chk.: 2.21 |
| 18393           | 23063                | 31810    | 28840              | 13416            | 5777                 | Demo : 1.73, L. Chk.: 1.25 |
| 47200           | 45800                | 126000   | 112500             | 78800            | 66700                | Demo: 2.67, L. Check: 2.45 |
| 5110            | 4990                 | 9880     | 8060               | 4770             | 3070                 | Demo : 1.93, L. Chk.: 1.61 |
| 40765           | 42143                | 104358   | 90607              | 63593            | 48464                | Demo : 2.56, L. Chk.: 2.15 |
| 41765           | 42843                | 98565    | 89970              | 56800            | 47127                | Demo : 2.36, L. Chk.: 2.10 |
| 40500           | 42300                | 93150    | 89676              | 52650            | 47376                | Demo : 2.30, L. Chk.: 2.12 |

#### \* Data on parameters: Mustard

| Crop    | Parameters                   | Data on parameter in relation to technology demonstrated |       |  |
|---------|------------------------------|--|-------|--|
|         |                              | Demo   | Local |  |
|         | No. of branches/plant        | 15   | 12    |  |
|         | No. of siliqua/plant         | 110  | 91    |  |
| Mustard | No. of seeds/pod             | 12   | 12    |  |
|         | Test weight (1000 grain) (g) | 2.54   | 2.49  |  |
|         | Insect-pest incidence (%)    | 15   | 21    |  |
|         | Disease incidence (%)        | Nil  | Nil   |  |
|         | Plant height (cm)            | 130  | 126   |  |

#### \* Data on parameters: Jute

| Crop | Parameters              | Data on parameter in relation to technology demonstrated |       |  |
|------|-------------------------|--|-------|--|
|      |                         | Demo   | Local |  |
| Jute | Plant height (cm) 287   |  | 267   |  |
|      | Base diameter (cm) 1.31 |  | 1.42  |  |
|      | No. of siliqua/plant    | 24.5   | 23.8  |  |
|      | No. of seed/siliqua     | 120  | 112   |  |
|      | Weed biomass (q/ha)     | 15.10  | 24.23 |  |

#### \* Data on parameters: Potato

| Crop   | Parameters                 | Data on parameter in relation to technology demonstrated |       |  |
|--------|----------------------------|--|-------|--|
|        |                            | Demo   | Local |  |
| Potato | weight of tubers/plant (g) | 617  | 609   |  |
|        | Disease incidence (%)      | 16   | 27    |  |

#### \* Data on parameters: Paddy

| Crop  | Parameters                    | Data on parameter in relation to technology demonstrated |       |  |
|-------|-------------------------------|--|-------|--|
|       |                               | Demo   | Local |  |
| Paddy | Plant height (cm)             | 115  | 95    |  |
|       | No. of effective tillers/hill | 15   | 11    |  |
|       | Panicle length (cm)           | 30.5   | 19.5  |  |

#### \* Data on parameters: Brinjal

| Crop    | Parameters            | Data on parameter in relation to technology demonstrated |       |  |
|---------|-----------------------|--|-------|--|
|         |                       | Demo   | Local |  |
|         | Plant height (cm)     | 72   | 66    |  |
| Brinjal | No. of fruits/plant   | 84   | 79    |  |
|         | % disease infestation | 10   | 38    |  |
|         | Yield (q/ha)          | 250  | 210   |  |

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season)

| Crop      | Season         | Component   | Farming situation | Averag<br>e yield<br>(q/ha) | Local<br>check<br>(q/ha) | Percentage<br>increase in<br>productivity over<br>local check |
|-----------|----------------|---|-------------------|-----------------------------|--------------------------|---|
|           |                | 1. Seed/Variety                                     |                   |                             |                          |   |
| Rice bean | Kharif<br>2008 | 2. Bio-fertilizer                                   | Medium<br>upland  | 197.6                       | 161.2                    | 22%   |
|           |                | 3. Fertilizer management                            |                   |                             |                          |   |
| Potato    |                | 4. Plant Protection (Disease management)            | Medium<br>upland  | 280                         | 250                      | 12%<br>over local check                                       |
|           |                | 5. Combination of<br>components (Please<br>specify) |                   |                             |                          |   |

### Technical Feedback on the demonstrated technologies

| S. No | Crop      | Feed Back   |  |  |
|-------|-----------|---|--|--|
| 1.    | Mustard   | Soils of Burdwan is general acidic in nature. Farmer often run losses in mustard  |  |  |
|       |           | productivity due to acidity induced diseases like club root. Development o        |  |  |
|       |           | acidity tolerant variety is needed to overcome this constraint                    |  |  |
| 2.    | Paddy     | Technology is required to make vermicompost more nutrient enriched                |  |  |
| 3.    | Jute      | In case of using multiple row seed drill, a good amount of seed remains           |  |  |
|       |           | unutilized. Chemical+mechanical weed control give excellent control of weeds.     |  |  |
| 4.    | Potato    | Specific Trichoderma strains need to be identified for controlling late blight of |  |  |
|       |           | potato  |  |  |
| 5.    | Rice bean | Long duration varieties need to be developed for use as fodder                    |  |  |
|       | (fodder)  |   |  |  |
| 6.    | Brinjal   | Nil   |  |  |
| 7.    | Tomato    | Soil test based fertilizer application needs to be practiced                      |  |  |

## Farmers' reactions on specific technologies

| S. No | Crop               | Feed Back     |  |
|-------|--------------------|---------------|--|
| 1.    | Mustard            | Annexure III  |  |
| 2.    | Paddy              | Annexure IV   |  |
| 3     | Jute               | Annexure V    |  |
| 4.    | Potato             | Annexure VI   |  |
| 5.    | Rice bean (fodder) | Annexure VII  |  |
| 6     | Brinjal            | Annexure VIII |  |
| 7     | Tomato             | Annexure IX   |  |

## Extension and Training activities under FLD

| S. N. | Activity               | No. of<br>activities<br>organised | Dates                       | Number of participants | Remarks            |
|-------|------------------------|-----------------------------------|-----------------------------|------------------------|--------------------|
| 1     | Field days             | 2                                 | 21.7.2008, 20.10.08         | 124                    | Jute extractor was |
|       |                        |                                   |                             |                        | demonstrated       |
| 2     | Farmers Training       | 3                                 | 26.5.08, 27.5.08, 31.5.08,  | 270                    |                    |
|       |                        |                                   | 7.7.08, , 1.9.08, 15.11.08, |                        |                    |
|       |                        |                                   | 29.12.08, 20.1.09, 28.1.09  |                        |                    |
| 3     | Media coverage         |                                   |                             |                        |                    |
| 4     | Training for extension |                                   | 28.7.08                     | 20                     |                    |
|       | functionaries          |                                   |                             |                        |                    |
| Name of<br>the<br>implement | crop | No. of<br>farmers | Area<br>(ha) | Performance<br>parameters<br>/<br>indicators | * Data<br>parame<br>relatio<br>techno<br>demons<br>Demon. | ter in<br>ter in<br>n to<br>logy<br>trated<br>Local<br>check | % change in<br>the<br>parameter | Remarks |
|-----------------------------|------|-------------------|--------------|--|---|--|---------------------------------|---------|
|                             |      |                   |              |  |   |  |                                 |         |

# c. Details of FLD on Enterprises Farm Implements

Field efficiency, labour saving etc.

# (ii) Livestock Enterprises

| Enterprise | Breed | No. of<br>farmers | No. of<br>animals,<br>etc. | Performance<br>parameters<br>/<br>indicators | * Data<br>parame<br>relatio<br>techno<br>demons<br>(kg/lact | * Data on<br>parameter in<br>relation to<br>technology<br>demonstrated<br>(kg/lactation)<br>Demon. Local<br>check |      | Remarks          |
|------------|-------|-------------------|----------------------------|--|---|---|------|------------------|
|            |       |                   |                            |  | Demon.  | check   |      |                  |
| Cattle     | Deshi | 10                | 10                         | Milk yield                                   | 331   | 251.8   | 31.5 | Lactation period |
|            | cow   |                   |                            |  |   |   |      | in demo was      |
|            |       |                   |                            |  |   |   |      | increased over   |
|            |       |                   |                            |  |   |   |      | local check      |
| Duck       | КC    | 10                | 100                        | Egg  | 210   | 180   | 16.6 | Egg production   |
|            |       |                   |                            |  |   |   |      | in demo was      |
|            |       |                   |                            |  |   |   |      | increased over   |
|            |       |                   |                            |  |   |   |      | local check      |

Milk production, meat production, egg production, reduction in disease incidence etc.

(iii) Other Enterprises

| Enterprise  | Variety/<br>breed/Species/<br>others | No. of<br>farmers | No.<br>of<br>Units | Performanc<br>e<br>parameters<br>/ | Data<br>paramo<br>relatio<br>techno<br>demons | t on<br>eter in<br>on to<br>ology<br>strated | % change<br>in the<br>parameter | Remarks |
|-------------|--------------------------------------|-------------------|--------------------|------------------------------------|---|--|---------------------------------|---------|
|             |                                      |                   |                    | mulcators                          | Demon.  | check  |                                 |         |
| Mushroom    | Oyster                               | 30                | 240<br>beds        | Yield                              | 900<br>gm/bed                                 | 600<br>gm/be<br>d                            | 50% over<br>local chk.          | -       |
| Apiary      |                                      |                   |                    |                                    |   |  |                                 |         |
| Sericulture |                                      |                   |                    |                                    |   |  |                                 |         |
| Vermi       |                                      |                   |                    |                                    |   |  |                                 |         |
| compost     |                                      |                   |                    |                                    |   |  |                                 |         |
| Fish        | Minor carp                           | 10                | 10                 | Yield                              | 7 q/ha  | 5 q/ha                                       | 40% over                        | -       |
|             | (Labeo bata)                         |                   |                    |                                    |   |  | conv.                           |         |
|             |                                      |                   |                    |                                    |   |  | practice                        |         |
| Fish        | IMC                                  | 2                 | 2                  | Yield                              | 12.5  | 7 q/ha                                       | 78.5 % over                     | -       |
|             |                                      |                   |                    |                                    | q/ha  |  | local chk                       |         |

# 3.3 Achievements on Training (Including the sponsored and FLD training programmes): A. ON Campus

| •                                     |         | No. of Participants |          |       |       |        |       |       |
|---------------------------------------|---------|---------------------|----------|-------|-------|--------|-------|-------|
| Thematic Area                         | No. of  |                     | Others   |       |       | SC/ST  |       | Grand |
| filentatic filea                      | Courses | Male                | Female   | Total | Male  | Female | Total | Total |
| (A) Farmers & Farm Women              |         | iviaic              | 1 cinaic | Total | Whate | remaie | Total | Totai |
| I Crop Production                     |         |                     |          |       |       |        |       |       |
| Weed Management                       |         |                     |          |       |       |        |       |       |
| Resource Conservation Technologies    |         |                     |          |       |       |        |       |       |
| Cropping Systems                      |         |                     |          |       |       |        |       |       |
| Crop Diversification                  |         |                     |          |       |       |        |       |       |
| Integrated Farming                    |         |                     |          |       |       |        |       |       |
| Matar management                      |         |                     |          |       |       |        |       |       |
| Cased area dusting                    |         |                     |          |       |       |        |       |       |
| Seed production                       |         | -                   |          |       |       |        |       |       |
| Nursery management                    |         | -                   |          |       |       |        |       |       |
| Integrated Crop Management            |         |                     |          |       |       |        |       |       |
| Fodder production                     |         |                     |          |       |       |        |       |       |
| Production of organic inputs          |         |                     |          |       |       |        |       |       |
| II Horticulture                       |         | <b>_</b>            | 1        |       | 1     | 1      |       |       |
| a) Vegetable Crops                    |         |                     |          |       |       |        |       |       |
| Production of low volume and high     |         |                     |          |       |       |        |       |       |
| value crops                           |         |                     |          |       |       |        |       |       |
| Off-season vegetables                 | 1       | 12                  | 4        | 16    | 14    | 1      | 15    | 31    |
| Nursery raising                       | 1       | 10                  | 4        | 14    | 11    | 1      | 12    | 26    |
| Exotic vegetables like Broccoli       |         |                     |          |       |       |        |       |       |
| Export potential vegetables           |         |                     |          |       |       |        |       |       |
| Grading and standardization           |         |                     |          |       |       |        |       |       |
| Protective cultivation (Green Houses, |         |                     |          |       |       |        |       |       |
| Shade Net etc.)                       |         |                     |          |       |       |        |       |       |
| b) Fruits                             |         |                     |          |       |       |        |       |       |
| Training and Pruning                  |         |                     |          |       |       |        |       |       |
| Layout and Management of              |         |                     |          |       |       |        |       |       |
| Orchards                              |         |                     |          |       |       |        |       |       |
| Cultivation of Fruit                  |         |                     |          |       |       |        |       |       |
| Management of young                   |         |                     |          |       |       |        |       |       |
| plants/orchards                       |         |                     |          |       |       |        |       |       |
| Rejuvenation of old orchards          |         |                     |          |       |       |        |       |       |
| Export potential fruits               |         |                     |          |       |       |        |       |       |
| Micro irrigation systems of orchards  |         |                     |          |       |       |        |       |       |
| Plant propagation techniques          |         |                     |          |       |       |        |       |       |
| a) Ornamontal Plants                  |         | -                   |          |       |       |        |       |       |
| C) Officialiterital Fights            |         | -                   |          |       |       |        |       |       |
| Nursery Management                    |         |                     |          |       |       |        |       |       |
| Management of potted plants           |         |                     |          |       |       |        |       |       |
| Export potential of ornamental        |         |                     |          |       |       |        |       |       |
| plants                                |         |                     |          |       |       |        |       |       |
| Propagation techniques of             |         |                     |          |       |       |        |       |       |
| Ornamental Plants                     |         |                     |          |       |       |        |       |       |
| d) Plantation crops                   |         |                     |          |       |       |        |       |       |
| Production and Management             |         |                     |          |       |       |        |       |       |
| technology                            |         | -                   |          |       |       |        |       |       |
| Processing and value addition         |         | -                   |          |       |       |        |       |       |
| e) Tuber crops                        |         |                     |          |       |       |        |       |       |
| Production and Management             |         |                     |          |       |       |        |       |       |
| technology                            |         |                     |          |       |       |        |       |       |
| Processing and value addition         |         |                     |          |       |       |        |       |       |
| f) Spices                             |         |                     |          |       |       |        |       |       |
| Production and Management             |         |                     |          |       |       |        |       |       |
| technology                            |         |                     |          |       |       |        |       |       |
| Processing and value addition         |         |                     |          |       |       |        |       |       |
| g) Medicinal and Aromatic Plants      |         |                     |          |       |       |        |       |       |

| Nursery management                   |      |    |   |    |   |    |    |          |
|--------------------------------------|------|----|---|----|---|----|----|----------|
| Production and management            |      |    |   |    |   |    |    |          |
| technology                           |      |    |   |    |   |    |    |          |
| Post harvest technology and value    |      |    |   |    |   |    |    |          |
| addition                             |      |    |   |    |   |    |    |          |
| III Soil Health and Fertility        |      |    |   |    |   |    |    |          |
| Management                           |      |    |   |    |   |    |    |          |
| Soil fertility management            |      |    |   |    |   |    |    |          |
| Soil and Water Conservation          |      |    |   |    |   |    |    |          |
| Integrated Nutrient Management       |      |    |   |    |   |    |    |          |
| Production and use of organic inputs |      |    |   |    |   |    |    |          |
| Management of Problematic soils      |      |    |   |    |   |    |    |          |
| Micro nutrient deficiency in crons   |      |    |   |    |   |    |    |          |
| Nutrient Use Efficiency              |      |    |   |    |   |    |    |          |
| Soil and Water Testing               |      |    |   |    |   |    |    |          |
| IV Livesteck Production and Manage   | mont |    |   |    |   |    |    |          |
| Doing Management                     |      |    |   |    |   |    |    |          |
| Daily Management                     |      |    |   |    |   |    | -  |          |
| Pourry Management                    |      |    |   |    |   |    |    |          |
| Piggery Management                   |      |    |   |    |   |    |    |          |
| Rabbit Management                    | 1    | 10 | - | 10 | 0 | 7  | 15 | 22       |
| Disease Management                   | 1    | 12 | 5 | 17 | 8 | 7  | 15 | 32       |
| Feed management                      |      |    |   |    |   |    |    |          |
| Production of quality animal         |      |    |   |    |   |    |    |          |
| products                             |      |    |   |    |   |    |    |          |
| V Home Science/Women empowerme       | ent  |    |   | 1  | 1 |    |    |          |
| Household food security by kitchen   |      |    |   |    |   |    |    |          |
| gardening and nutrition gardening    |      |    |   |    |   |    |    |          |
| Design and development of            |      |    |   |    |   |    |    |          |
| low/minimum cost diet                |      |    |   |    |   |    |    |          |
| Designing and development for high   |      |    |   |    |   |    |    |          |
| nutrient efficiency diet             |      |    |   |    |   |    |    |          |
| Minimization of nutrient loss in     |      |    |   |    |   |    |    |          |
| processing                           |      |    |   |    |   |    |    |          |
| Gender mainstreaming through         |      |    |   |    |   |    |    |          |
| SHGs                                 |      |    |   |    |   |    |    |          |
| Storage loss minimization techniques |      |    |   |    |   |    |    |          |
| Value addition                       | 1    | 0  | 2 | 2  | 0 | 23 | 23 | 25       |
| Income generation activities for     |      |    |   |    |   |    |    |          |
| empowerment of rural Women           |      |    |   |    |   |    |    |          |
| Location specific drudgery reduction |      |    |   |    |   |    |    |          |
| technologies                         |      |    |   |    |   |    |    |          |
| Rural Crafts                         |      |    |   |    |   |    |    |          |
| Women and child care                 |      |    |   |    |   |    |    |          |
| VI Agril. Engineering                |      |    |   |    |   |    |    |          |
| Installation and maintenance of      |      |    |   |    |   |    |    |          |
| micro irrigation systems             |      |    |   |    |   |    |    |          |
| Use of Plastics in farming practices |      |    |   |    |   |    |    |          |
| Production of small tools and        |      |    |   |    |   |    |    |          |
| implements                           |      | 1  |   |    |   |    |    |          |
| Repair and maintenance of farm       |      |    |   |    |   |    |    |          |
| machinery and implements             |      | 1  |   |    |   |    |    |          |
| Small scale processing and value     |      |    |   |    |   |    |    |          |
| addition                             |      |    |   |    |   |    |    |          |
| Post Harvest Technology              |      |    |   |    |   |    |    |          |
| VII Plant Protection                 |      | 1  | 1 | 1  | 1 |    |    |          |
| Integrated Pest Management           |      | 1  |   | 1  |   |    |    |          |
| Integrated Disease Management        |      | 1  |   | 1  |   |    |    |          |
| Bio-control of pests and diseases    |      |    |   |    |   | L  |    | <u> </u> |
| Production of bio control agents and |      |    |   | 1  |   |    |    |          |
| bio pesticides                       |      | 1  |   |    |   |    |    |          |
| Fromeron                             | 1    | 1  | 1 | 1  | 1 | l. |    |          |

| VIII Fisheries                     |   |    |    |    |    |    |    |     |
|------------------------------------|---|----|----|----|----|----|----|-----|
| Integrated fish farming            |   |    |    |    |    |    |    |     |
| Carp breeding and hatchery         |   |    |    |    |    |    |    |     |
| management                         |   |    |    |    |    |    |    |     |
| Carp fry and fingerling rearing    |   |    |    |    |    |    |    |     |
| Composite fish culture             |   |    |    |    |    |    |    |     |
| Hatchery management and culture of |   |    |    |    |    |    |    |     |
| freshwater prawn                   |   |    |    |    |    |    |    |     |
| Breeding and culture of ornamental |   |    |    |    |    |    |    |     |
| fishes                             |   |    |    |    |    |    |    |     |
| Portable plastic carp hatchery     |   |    |    |    |    |    |    |     |
| Pen culture of fish and prawn      |   |    |    |    |    |    |    |     |
| Shrimp farming                     |   |    |    |    |    |    |    |     |
| Edible ovster farming              |   |    |    |    |    |    |    |     |
| Pearl culture                      |   |    |    |    |    |    |    |     |
| Fish processing and value addition |   |    |    |    |    |    |    |     |
| IX Production of Inputs at site    |   |    |    |    |    |    |    |     |
| Seed Production                    |   |    |    |    |    |    |    |     |
| Planting material production       |   |    |    |    |    |    |    |     |
| Bio agonts production              |   |    |    |    |    |    |    |     |
| Bio posticidos production          |   |    |    |    |    |    |    |     |
| Bio-pesticides production          |   |    |    |    |    |    |    |     |
| Vormi compact and duction          |   |    |    |    |    |    |    |     |
|                                    |   |    |    |    |    |    |    |     |
| Organic manures production         |   |    |    |    |    |    |    |     |
| Production of fry and fingerlings  |   |    |    |    |    |    |    |     |
| Production of Bee-colonies and wax |   |    |    |    |    |    |    |     |
| sheets                             |   |    |    |    |    |    |    |     |
| Small tools and implements         |   |    |    |    |    |    |    |     |
| Production of livestock feed and   |   |    |    |    |    |    |    |     |
| fodder                             |   |    |    |    |    |    |    |     |
| Production of Fish feed            |   |    |    |    |    |    |    |     |
| X Capacity Building and Group      |   |    |    |    |    |    |    |     |
| Dynamics                           |   |    |    |    |    |    |    |     |
| Leadership development             |   |    |    |    |    |    |    |     |
| Group dynamics                     |   |    |    |    |    |    |    |     |
| Formation and Management of SHGs   |   |    |    |    |    |    |    |     |
| Mobilization of social capital     |   |    |    |    |    |    |    |     |
| Entrepreneurial development of     |   |    |    |    |    |    |    |     |
| farmers/youths                     |   |    |    |    |    |    |    |     |
| WTO and IPR issues                 | 2 | 32 | 0  | 32 | 18 | 0  | 18 | 50  |
| XI Agro-forestry                   |   |    |    |    |    |    |    |     |
| Production technologies            |   |    |    |    |    |    |    |     |
| Nursery management                 |   |    |    |    |    |    |    |     |
| Integrated Farming Systems         |   |    |    |    |    |    |    |     |
| XII Others (Pl. Specify)           |   |    |    |    |    |    |    |     |
| TOTAL                              | 6 | 66 | 15 | 81 | 51 | 32 | 83 | 164 |
| (B) RURAL YOUTH                    |   |    |    |    |    |    |    |     |
|                                    |   |    |    |    |    |    |    |     |
| Mushroom Production                | 2 | 30 | 12 | 42 | 16 | 2  | 18 | 60  |
| Bee-keeping                        |   |    |    |    |    |    |    |     |
| Integrated farming                 |   |    |    |    |    |    |    |     |
| Seed production                    |   |    |    |    |    |    |    |     |
| Production of organic inputs       |   |    |    |    |    |    |    |     |
| Integrated Farming                 |   |    |    |    |    |    |    |     |
| Planting material production       | 4 | 20 | 0  | 20 | 21 | 0  | 21 | 41  |
| Vermi-culture                      |   |    |    |    |    |    |    |     |
| Sericulture                        |   |    |    |    |    |    |    |     |
| Protected cultivation of vegetable |   |    |    |    |    |    |    |     |
| crops                              |   |    |    |    |    |    |    |     |
| Commercial fruit production        |   |    |    |    |    |    |    |     |

| Repair and maintenance of farm  | 5   | 85  | 0  | 85   | 25                                    | 0                          | 25                                    | 110  |
|---|---|---|----|--|---------------------------------------|----------------------------|---------------------------------------|--|
| machinery and implements  | Ŭ   | 00  | Ũ  | 00   |                                       | Ů                          |                                       | 110  |
| Nursery Management of   |   |   |    |  |                                       |                            |                                       |  |
| Horticulture crops  |   |   |    |  |                                       |                            |                                       |  |
| Training and pruning of orchards  |   |   |    |  |                                       |                            |                                       |  |
| Value addition  |   |   |    |  |                                       |                            |                                       |  |
| Production of quality animal  |   |   |    |  |                                       |                            |                                       |  |
| products  |   |   |    |  |                                       |                            |                                       |  |
| Dairying  |   |   |    |  |                                       |                            |                                       |  |
| Sheep and goat rearing  |   |   |    |  |                                       |                            |                                       |  |
| Quail farming   |   |   |    |  |                                       |                            |                                       |  |
| Piggery   |   | _   |    |  |                                       |                            |                                       |  |
| Rabbit farming  |   |   |    |  |                                       |                            |                                       |  |
| Poultry production  | 2   | 18  | 0  | 18   | 12                                    | 0                          | 12                                    | 30   |
| Ornamental fisheries  |   |   |    |  |                                       |                            |                                       |  |
| Para vets   |   |   |    |  |                                       |                            |                                       |  |
| Para extension workers  |   |   |    |  |                                       |                            |                                       |  |
| Composite fish culture  |   |   |    |  |                                       |                            |                                       |  |
| Freshwater prawn culture  |   |   |    |  |                                       |                            |                                       |  |
| Shrimp farming  |   |   |    |  |                                       |                            |                                       |  |
| Pearl culture   |   |   |    |  |                                       |                            |                                       |  |
| Cold water fisheries  |   |   |    |  |                                       |                            |                                       |  |
| Fish harvest and processing   |   |   |    |  |                                       |                            |                                       |  |
| technology  |   |   |    |  |                                       |                            |                                       |  |
| Fry and fingerling rearing  |   |   |    |  |                                       |                            |                                       |  |
| Small scale processing  |   |   |    |  |                                       |                            |                                       |  |
| Post Harvest Technology   |   |   |    |  |                                       |                            |                                       |  |
| Tailoring and Stitching   |   |   |    |  |                                       |                            |                                       |  |
| Rural Crafts  |   |   |    |  |                                       |                            |                                       |  |
| TOTAL   | 13  | 153   | 12 | 165  | 74                                    | 2                          | 76                                    | 241  |
|   |   |   |    |  |                                       |                            |                                       |  |
| (C) Extension Personnel   |   |   |    |  |                                       |                            |                                       |  |
|   |   |   |    |  |                                       |                            |                                       |  |
| Productivity enhancement in field   | C   | 41  | 0  | 41   | 8                                     | 0                          | Q                                     | 40   |
| Productivity enhancement in field<br>crops  | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management  | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management  | 2   | 41  | 0  | 41<br>22   | 8                                     | 0                          | 8                                     | 49<br>28   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards  | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49<br>28   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology  | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49<br>28   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs  | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49<br>28   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers  | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49<br>28   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization  | 2   | 41  | 0  | 41   | 6                                     | 0                          | 8                                     | 49   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among  | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers   | 2   | 41  | 0  | 41   | 8                                     | 0                          | 8                                     | 49   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application  | 2   | 41<br>22<br>22<br>25  | 0  | 41<br>22<br>25   | 8 6 5                                 | 0                          | 8 6 5                                 | 49<br>28<br>30                                     |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm  | 2   | 41<br>22<br>22<br>25  | 0  | 41<br>22<br>25   | 8                                     | 0                          | 8 6 5                                 | 49<br>28<br>30                                     |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements  | 2   | 41<br>22<br>25  | 0  | 41<br>22<br>25   | 8                                     | 0                          | 8 6 5                                 | 49<br>28<br>30                                     |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues  | 2<br>1<br>                                | 41<br>22<br>25<br>18  | 0  | 41<br>22<br>25<br>25   | 8 6 5 4                               | 0                          | 8 6 5 4                               | 49<br>28<br>30<br>22                               |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals  | 2<br>1<br>1<br>1<br>1<br>1<br>1           | 41<br>22<br>25<br>18<br>8   | 0  | 41<br>22<br>25<br>25<br>18<br>10                               | 8<br>6<br>5<br>5<br>4<br>17           | 0<br>0<br>0<br>0<br>0<br>3 | 8<br>6<br>5<br>5<br>4<br>20           | 49<br>28<br>30<br>22<br>30                         |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder   | 2<br>1<br>1<br>1<br>1<br>1<br>1           | 41<br>22<br>25<br>18<br>8   | 0  | 41<br>22<br>25<br>18<br>10                                     | 8<br>6<br>5<br>4<br>17                | 0                          | 8<br>6<br>5<br>5<br>4<br>20           | 49<br>28<br>30<br>22<br>30                         |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production   | 2<br>1<br>1<br>1<br>1<br>1<br>1           | 41<br>22<br>25<br>18<br>8   | 0  | 41<br>22<br>25<br>18<br>10                                     | 8<br>6<br>5<br>4<br>17                | 0                          | 8<br>6<br>5<br>4<br>20                | 49<br>28<br>30<br>22<br>30                         |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security  | 2<br>1<br>1<br>1<br>1<br>1<br>1           | 41<br>22<br>25<br>18<br>8   | 0  | 41<br>22<br>25<br>18<br>10                                     | 8<br>6<br>5<br>4<br>17                | 0                          | 8<br>6<br>5<br>4<br>20                | 49<br>28<br>30<br>22<br>30                         |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care  | 2<br>1<br>1<br>1<br>1<br>1<br>1           | 41<br>22<br>25<br>18<br>8   | 0  | 41<br>22<br>25<br>25<br>18<br>10                               | 8<br>6<br>5<br>4<br>17                | 0                          | 8<br>6<br>5<br>4<br>20                | 49<br>28<br>30<br>22<br>30                         |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care<br>Low cost and nutrient efficient diet  | 2<br>1<br>1<br>1<br>1<br>1<br>1           | 41<br>22<br>25<br>18<br>8   | 0  | 41<br>22<br>25<br>18<br>10                                     | 8<br>6<br>5<br>4<br>17                | 0                          | 8<br>6<br>5<br>4<br>20                | 49<br>28<br>30<br>22<br>30                         |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care<br>Low cost and nutrient efficient diet<br>designing   | 2<br>1<br>1<br>1<br>1<br>1<br>1           | 41<br>22<br>25<br>18<br>8   | 0  | 41<br>22<br>25<br>18<br>10                                     | 8<br>6<br>5<br>4<br>17                | 0                          | 8<br>6<br>5<br>4<br>20                | 49<br>28<br>30<br>22<br>30                         |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care<br>Low cost and nutrient efficient diet<br>designing<br>Production and use of organic inputs   | 2<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 41<br>22<br>25<br>18<br>8<br>25<br>25<br>25<br>25<br>25<br>22<br>24   | 0  | 41<br>22<br>25<br>25<br>18<br>10<br>24                         | 8<br>6<br>5<br>4<br>17<br>5           | 0                          | 8<br>6<br>5<br>4<br>20                | 49<br>28<br>30<br>22<br>30<br>29                   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care<br>Low cost and nutrient efficient diet<br>designing<br>Production and use of organic inputs<br>Gender mainstreaming through   | 2<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 41<br>22<br>25<br>18<br>8<br>25<br>25<br>25<br>25<br>22<br>24   | 0  | 41<br>22<br>25<br>25<br>18<br>10<br>24                         | 8<br>6<br>5<br>4<br>17<br>5           | 0                          | 8<br>6<br>5<br>4<br>20<br>5           | 49<br>28<br>30<br>22<br>30<br>29                   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care<br>Low cost and nutrient efficient diet<br>designing<br>Production and use of organic inputs<br>Gender mainstreaming through<br>SHGs   | 2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 41<br>22<br>25<br>18<br>8<br>25<br>25<br>25<br>25<br>22<br>24   | 0  | 41<br>22<br>25<br>25<br>18<br>10<br>24                         | 8<br>6<br>5<br>4<br>17<br>5<br>5      | 0                          | 8<br>6<br>5<br>4<br>20<br>5           | 49<br>28<br>30<br>22<br>30<br>29                   |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care<br>Low cost and nutrient efficient diet<br>designing<br>Production and use of organic inputs<br>Gender mainstreaming through<br>SHGs<br>Any other (PI. Specify) (sustainable                 | 2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 41<br>22<br>25<br>18<br>8<br>25<br>25<br>25<br>25<br>24   | 0  | 41<br>22<br>25<br>25<br>18<br>10<br>24                         | 8<br>6<br>5<br>4<br>17<br>5<br>5      |                            | 8<br>6<br>5<br>4<br>20<br>5           | 49<br>28<br>30<br>22<br>30<br>29<br>29             |
| Productivity enhancement in field<br>crops<br>Integrated Pest Management<br>Integrated Nutrient management<br>Rejuvenation of old orchards<br>Protected cultivation technology<br>Formation and Management of SHGs<br>Group Dynamics and farmers<br>organization<br>Information networking among<br>farmers<br>Capacity building for ICT application<br>Care and maintenance of farm<br>machinery and implements<br>WTO and IPR issues<br>Management in farm animals<br>Livestock feed and fodder<br>production<br>Household food security<br>Women and Child care<br>Low cost and nutrient efficient diet<br>designing<br>Production and use of organic inputs<br>Gender mainstreaming through<br>SHGs<br>Any other (PI. Specify) (sustainable<br>aquaculture) |   | 41<br>22<br>25<br>25<br>18<br>8<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25 | 0  | 41<br>22<br>25<br>18<br>10<br>25<br>25<br>25<br>25<br>24<br>34 | 8<br>6<br>5<br>4<br>17<br>5<br>5<br>5 |                            | 8<br>6<br>5<br>4<br>20<br>5<br>5<br>5 | 49<br>28<br>30<br>22<br>30<br>22<br>30<br>29<br>39 |

#### B. OFF Campus

|                                      |         |      |        | No.   | . of Parti |        |       |       |
|--------------------------------------|---------|------|--------|-------|------------|--------|-------|-------|
| Thematic Area                        | No. of  |      | Others |       |            | SC/ST  |       | Grand |
|                                      | Courses | Male | Female | Total | Male       | Female | Total | Total |
| (A) Farmers & Farm Women             |         |      |        |       |            |        |       |       |
| I Crop Production                    |         |      |        |       |            |        |       |       |
| Weed Management                      | 2       | 38   | 0      | 38    | 21         | 0      | 21    | 59    |
| Resource Conservation Technologies   | 2       | 50   | 0      | 50    | 21         | 0      | 21    | 55    |
| Cronging Systems                     |         |      |        |       |            |        |       |       |
| Cropping Systems                     |         |      |        |       |            |        |       |       |
| Crop Diversification                 | 1       | 0    | 0      | 0     | 21         | 0      | 21    | 21    |
| Integrated Farming                   |         |      |        |       |            |        |       |       |
| Water management                     | 1       | 21   | 0      | 21    | 9          | 0      | 9     | 30    |
| Seed production                      | 2       | 40   | 0      | 40    | 20         | 0      | 20    | 60    |
| Nursery management                   | 2       | 33   | 0      | 33    | 28         | 0      | 28    | 61    |
| Integrated Crop Management           | 5       | 126  | 0      | 126   | 28         | 0      | 28    | 154   |
| Fodder production                    | 1       | 29   | 0      | 29    | 1          | 0      | 1     | 30    |
| Production of organic inputs         |         |      |        |       |            |        |       |       |
| II Horticulture                      |         |      |        |       |            |        |       |       |
| a) Vegetable Crops                   |         |      |        |       |            |        |       |       |
| Production of low volume and high    | r       | 14   | 0      | 14    | 10         | 0      | 19    | 62    |
| value crops                          | 2       | 14   | 0      | 14    | 40         | 0      | 40    | 62    |
| Off-season vegetables                |         |      |        |       |            |        |       |       |
| Nursery raising                      | 1       | 15   | 0      | 15    | 10         | 0      | 10    | 25    |
| Exotic vegetables like Broccoli      |         |      |        |       |            |        |       |       |
| Export potential vegetables          |         |      |        |       |            |        |       |       |
| Grading and standardization          |         |      |        |       |            |        |       |       |
| Brotestive sultivation (Croop Houses |         |      |        |       |            |        |       |       |
| Shade Net etc.)                      |         |      |        |       |            |        |       |       |
| Others (cultivation of summer yeg)   |         |      |        |       |            |        |       |       |
| b) Emilie                            |         |      |        |       |            |        |       |       |
| Training and Pruning                 |         |      |        |       |            |        |       |       |
|                                      |         |      |        |       |            |        |       |       |
| Layout and Management of             | 1       | 28   | 0      | 28    | 2          | 0      | 2     | 30    |
| Cultivation of Emit                  |         |      |        |       |            |        |       |       |
|                                      |         |      |        |       |            |        |       |       |
| Management of young                  |         |      |        |       |            |        |       |       |
| Rejuvenation of old orchards         |         |      |        |       |            |        |       |       |
| Export potential fruits              |         |      |        |       |            |        |       |       |
|                                      |         |      |        |       |            |        |       |       |
| Micro irrigation systems of orchards |         |      |        |       |            |        |       |       |
| Plant propagation techniques         |         |      |        |       |            |        |       |       |
| c) Ornamental Plants                 |         |      |        |       |            |        |       |       |
| Nursery Management                   |         |      |        |       |            |        |       |       |
| Management of potted plants          |         |      |        |       |            |        |       |       |
| Export potential of ornamental       |         |      |        |       |            |        |       |       |
| plants                               |         |      |        |       |            |        |       |       |
| Propagation techniques of            |         |      |        |       |            |        |       |       |
| Ornamental Plants                    |         |      |        |       |            |        |       |       |
| d) Plantation crops                  |         |      |        |       |            |        |       |       |
| Production and Management            |         |      |        |       |            |        |       |       |
| technology                           |         |      |        |       |            |        |       |       |
| Processing and value addition        |         |      |        |       |            |        |       |       |
| e) Tuber crops                       |         |      |        |       |            |        |       |       |
| Production and Management            | 3       | 50   | 5      | 55    | 23         | 8      | 31    | 86    |
| technology                           |         | 1    | 1      | 1     | 1          | 1      | 1     | 1     |

| Processing and value addition        |      |    |    |    |    |    |    |    |
|--------------------------------------|------|----|----|----|----|----|----|----|
| f) Spices                            |      |    |    |    |    |    |    |    |
| Production and Management            |      |    |    |    |    |    |    |    |
| technology                           |      |    |    |    |    |    |    |    |
| Processing and value addition        |      |    |    |    |    |    |    |    |
| g) Medicinal and Aromatic Plants     |      |    |    |    |    |    |    |    |
| Nursery management                   |      |    |    |    |    |    |    |    |
| Production and management            |      |    |    |    |    |    |    |    |
| technology                           |      |    |    |    |    |    |    |    |
| Post harvest technology and value    |      |    |    |    |    |    |    |    |
| addition                             |      |    |    |    |    |    |    |    |
| III Soil Health and Fertility        |      |    |    |    |    |    |    |    |
| Management                           |      |    |    |    |    |    |    |    |
| Soil fertility management            | 1    | 23 | 0  | 23 | 3  | 0  | 3  | 26 |
| Soil and Water Conservation          |      |    |    |    |    |    |    |    |
| Integrated Nutrient Management       | 1    | 30 | 0  | 30 | 0  | 0  | 0  | 30 |
| Production and use of organic inputs | 1    | 30 | 0  | 30 | 1  | 0  | 1  | 31 |
| Management of Problematic soils      |      |    |    |    |    |    |    |    |
| Micro nutrient deficiency in crops   |      |    |    |    |    |    |    |    |
| Nutrient Use Efficiency              |      |    |    |    |    |    |    |    |
| Soil and Water Testing               |      |    |    |    |    |    |    |    |
| IV Livesteel Production and Manage   | mont |    |    |    |    |    |    |    |
| TV LIVESTOCK FIOUUCTION and Manage   |      |    |    |    |    |    |    |    |
| Dairy Management                     | 2    | 59 | 0  | 59 | 1  | 0  | 1  | 60 |
| Poultry Management                   | 1    | 27 | 0  | 27 | 3  | 0  | 3  | 30 |
| Piggery Management                   |      |    |    |    |    |    |    |    |
| Rabbit Management                    |      |    |    |    |    |    |    |    |
| Disease Management                   | 3    | 56 | 10 | 66 | 8  | 18 | 26 | 92 |
| Feed management                      | 3    | 63 | 0  | 63 | 29 | 0  | 29 | 92 |
| Production of quality animal         | 2    | 10 | 20 | 40 | 2  | 10 | 10 | (0 |
| products                             | 2    | 10 | 38 | 48 | 2  | 10 | 12 | 60 |
| V Home Science/Women empowerme       | ent  |    |    |    |    |    |    |    |
| Household food security by kitchen   |      |    |    |    |    |    |    |    |
| gardening and nutrition gardening    | 2    | 0  | 30 | 30 | 0  | 25 | 25 | 55 |
| Design and development of            |      |    |    |    |    |    |    |    |
| low/minimum cost diet                |      |    |    |    |    |    |    |    |
| Designing and development for high   |      |    |    |    |    |    |    |    |
| nutrient efficiency diet             |      |    |    |    |    |    |    |    |
| Minimization of nutrient loss in     | 1    | 0  | 20 | 20 | 0  | 8  | 8  | 28 |
| processing                           | 1    | 0  | 20 | 20 | 0  | 0  | 0  | 20 |
| Gender mainstreaming through         |      |    |    |    |    |    |    |    |
| SHGs                                 | 1    | 0  | 01 | 01 | 0  | 2  | 2  | 24 |
| Storage loss minimization techniques | 1    | 0  | 21 | 21 | 0  | 3  | 3  | 24 |
| Value addition                       | 3    | 0  | 57 | 57 | 0  | 26 | 26 | 83 |
| ampowerment of rural Women           |      |    |    |    |    |    |    |    |
| Location specific drudgery reduction |      |    |    |    |    |    |    |    |
| technologies                         |      |    |    |    |    |    |    |    |
| Rural Crafts                         |      |    |    |    |    |    |    |    |
| Women and child care                 | 1    | 0  | 9  | 9  | 0  | 15 | 15 | 24 |
| VI Agril Engineering                 | 1    | 0  | ,  | ,  | 0  | 10 | 15 | 21 |
|                                      |      |    |    |    |    |    |    |    |
| Installation and maintenance of      |      |    |    |    |    |    |    |    |
| micro irrigation systems             |      |    |    |    |    |    |    |    |
| Use of Plastics in farming practices |      |    |    |    |    |    |    |    |
| Production of small tools and        |      |    |    |    |    |    |    |    |
| implements                           |      |    | 1  |    |    |    |    |    |

| Repair and maintenance of farm                      |   |    |   |    |    |   |    |     |
|---|---|----|---|----|----|---|----|-----|
| machinery and implements                            |   |    |   |    |    |   |    |     |
| Small scale processing and value                    |   |    |   |    |    |   |    |     |
| addition  |   |    |   |    |    |   |    |     |
| Post Harvest Technology                             | 1 | 5  | 0 | 5  | 25 | 0 | 25 | 30  |
| VII Plant Protection                                |   |    |   |    |    |   |    |     |
| Integrated Pest Management                          | 4 | 62 | 0 | 62 | 59 | 0 | 59 | 121 |
| Integrated Disease Management                       | 3 | 40 | 0 | 40 | 49 | 0 | 49 | 89  |
| Bio-control of pests and diseases                   | 2 | 30 | 0 | 30 | 22 | 8 | 30 | 60  |
| Production of bio control agents and bio pesticides |   |    |   |    |    |   |    |     |
| VIII Fisheries                                      |   |    |   |    |    |   |    |     |
| Integrated fish farming                             | 1 | 25 | 0 | 25 | 1  | 0 | 1  | 26  |
| Carp breeding and hatchery                          |   |    |   |    |    |   |    |     |
| management  | 1 | 28 | 0 | 28 | 2  | 0 | 2  | 30  |
| Carp fry and fingerling rearing                     | 2 | 20 | 0 | 20 | 41 | 0 | 41 | 61  |
| Composite fish culture                              | 3 | 74 | 0 | 74 | 16 | 0 | 16 | 90  |
| Hatchery management and culture of                  |   |    |   |    |    |   |    |     |
| freshwater prawn                                    |   |    |   |    |    |   |    |     |
| Breeding and culture of ornamental fishes           | 1 | 3  | 0 | 3  | 27 | 0 | 27 | 30  |
| Portable plastic carp hatchery                      |   |    |   |    |    |   |    |     |
| Pen culture of fish and prawn                       |   |    |   |    |    |   |    |     |
| Shrimp farming                                      |   |    |   |    |    |   |    |     |
| Edible oyster farming                               |   |    |   |    |    |   |    |     |
| Pearl culture                                       |   |    |   |    |    |   |    |     |
| Fish processing and value addition                  |   |    |   |    |    |   |    |     |
| Other, if any (Airbreathing fish                    | - |    | 2 |    |    | - |    |     |
| culture, fish nutrition)                            | 2 | 46 | 0 | 46 | 14 | 0 | 14 | 60  |
| IX Production of Inputs at site                     |   |    |   |    |    |   |    |     |
| Seed Production                                     |   |    |   |    |    |   |    |     |
| Planting material production                        |   |    |   |    |    |   |    |     |
| Bio-agents production                               |   |    |   |    |    |   |    |     |
| Bio-pesticides production                           | 1 | 27 | 0 | 27 | 2  | 0 | 2  | 29  |
| Bio-fertilizer production                           | 1 | 10 | 0 | 10 | 23 | 0 | 23 | 33  |
| Vermi-compost production                            |   |    |   |    |    |   |    |     |
| Organic manures production                          | 1 | 8  | 0 | 8  | 22 | 0 | 22 | 30  |
| Production of fry and fingerlings                   |   | -  |   | _  |    | - |    |     |
| Production of Bee-colonies and wax                  |   |    |   |    |    |   |    |     |
| sheets  |   |    |   |    |    |   |    |     |
| Small tools and implements                          |   |    |   |    |    |   |    |     |
| Production of livestock feed and                    | 1 | 27 | 0 | 27 | 3  | 0 | 3  | 30  |
| Production of Fish food                             |   |    |   |    |    |   |    |     |
| X Canacity Building and Group                       |   |    |   |    |    |   |    |     |
| Dynamics  |   |    |   |    |    |   |    |     |
| Leadership development                              | 1 | 20 | 0 | 20 | 2  | 0 | 2  | 22  |
| Group dynamics                                      | 1 | 24 | 0 | 24 | 1  | 0 | 1  | 25  |
| Formation and Management of SHGs                    | 2 | 39 | 0 | 39 | 17 | 0 | 17 | 56  |
| Mobilization of social capital                      |   | _  |   |    |    |   |    |     |
| Entrepreneurial development of                      |   |    |   |    |    |   |    |     |
| tarmers/youths                                      | 2 | 40 | 0 | 40 | 17 | 0 | 17 | E/  |
| <b>XI Agro-forestry</b>                             | 2 | 40 | 0 | 40 | 10 | U | 10 | 30  |
|   |   | _  |   |    |    |   |    |     |
| Production technologies                             |   |    |   |    |    |   |    |     |

| Nursery management                         |    |      |     |      |     |          |     |      |
|--|----|------|-----|------|-----|----------|-----|------|
| Integrated Farming Systems                 |    |      |     |      |     |          |     |      |
| XII Others (Pl. Specify)                   |    |      |     |      |     |          |     |      |
|  |    | 1000 | 100 | 1110 | 600 |          |     |      |
| TOTAL                                      | 73 | 1220 | 190 | 1410 | 600 | 121      | 721 | 2131 |
| (B) RURAL YOUTH                            |    |      |     |      |     |          |     |      |
| Mushroom Production                        | 2  | 19   | 0   | 19   | 42  | 2        | 44  | 63   |
| Bee-keeping                                |    |      |     |      |     |          |     |      |
| Integrated farming                         |    |      |     |      |     |          |     |      |
| Seed production                            |    |      |     |      |     |          |     |      |
| Production of organic inputs               |    |      |     |      |     |          |     |      |
| Integrated Farming                         |    |      |     |      |     |          |     |      |
| Planting material production               |    |      |     |      |     |          |     |      |
| Vermi-culture                              |    |      |     |      |     |          |     |      |
| Sericulture                                |    |      |     |      |     |          |     |      |
| Protected cultivation of vegetable         |    |      |     |      |     |          |     |      |
| crops                                      |    |      |     |      |     |          |     |      |
| Commercial fruit production                |    |      |     |      |     |          |     |      |
| Repair and maintenance of farm             |    |      |     |      |     |          |     |      |
| machinery and implements                   |    |      |     |      |     |          |     |      |
| Nursery Management of                      |    |      |     |      |     |          |     |      |
| Horticulture crops                         |    |      |     |      |     |          |     |      |
| Training and pruning of orchards           |    |      |     |      |     |          |     |      |
| Value addition                             |    |      |     |      |     |          |     |      |
| Production of quality animal               |    |      |     |      |     |          |     |      |
| products                                   |    |      |     |      |     |          |     |      |
| Deirring                                   |    |      |     |      |     |          |     |      |
| Choop and contracting                      |    |      |     |      |     |          |     |      |
| Sheep and goat rearing                     |    |      |     |      |     |          |     |      |
| Diagony                                    |    |      |     |      |     |          |     |      |
| Pablit formin a                            |    |      |     |      |     |          |     |      |
| Rabbit farming                             |    |      |     |      |     |          |     |      |
| Poultry production                         |    |      |     |      |     |          |     |      |
| Ornamental fisheries                       |    | -    |     |      |     |          |     |      |
| Para vets                                  |    | -    |     |      |     |          |     |      |
| Para extension workers                     |    |      |     |      |     |          |     |      |
| Composite fish culture                     |    |      |     |      |     |          |     |      |
| Freshwater prawn culture                   |    |      |     |      |     |          |     |      |
| Shrimp farming                             |    |      |     |      |     |          |     |      |
| Pearl culture                              |    |      |     |      |     |          |     |      |
| Cold water fisheries                       |    |      |     |      |     |          |     |      |
| Fish harvest and processing                |    |      |     |      |     |          |     |      |
| technology                                 |    |      |     |      |     |          |     |      |
| Fry and fingerling rearing                 |    |      |     |      |     |          |     |      |
| Small scale processing                     |    |      |     |      |     |          |     |      |
| Post Harvest Technology                    |    |      |     |      |     |          |     |      |
| Tailoring and Stitching                    | 7  | 0    | 35  | 35   | 0   | 175      | 175 | 210  |
| Rural Crafts                               | 7  | 0    | 189 | 189  | 0   | 21       | 21  | 210  |
| TOTAL                                      | 16 | 19   | 224 | 243  | 42  | 198      | 240 | 483  |
|  |    |      |     |      |     |          |     |      |
| (C) Extension Personnel                    |    |      |     |      |     |          |     |      |
| Productivity enhancement in field<br>crops |    |      |     |      |     |          |     |      |
| Integrated Pest Management                 |    |      |     |      |     |          |     |      |
| Integrated Nutrient management             |    |      |     |      |     | <u> </u> |     |      |
| Rejuvenation of old orchards               |    |      |     |      |     |          |     |      |
| Protected cultivation technology           |    |      | -   | +    |     |          |     |      |
| Formation and Management of SHCs           |    |      | -   | +    |     |          |     |      |
| Group Dynamics and farmers                 |    |      |     |      |     | -        |     |      |
| organization                               |    |      |     |      |     |          |     |      |
| U  |    | 1    |     | 1    |     |          |     |      |

| Information networking among          |  |  |  |  |
|---------------------------------------|--|--|--|--|
| farmers                               |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |
| Care and maintenance of farm          |  |  |  |  |
| machinery and implements              |  |  |  |  |
| WTO and IPR issues                    |  |  |  |  |
| Management in farm animals            |  |  |  |  |
| Livestock feed and fodder             |  |  |  |  |
| production                            |  |  |  |  |
| Household food security               |  |  |  |  |
| Women and Child care                  |  |  |  |  |
| Low cost and nutrient efficient diet  |  |  |  |  |
| designing                             |  |  |  |  |
| Production and use of organic inputs  |  |  |  |  |
| Gender mainstreaming through          |  |  |  |  |
| SHGs                                  |  |  |  |  |
| Any other (Pl. Specify)               |  |  |  |  |
| TOTAL                                 |  |  |  |  |

#### C) Consolidated table (ON and OFF Campus)

|                                       |         | No. of Participants |        |       |      |        |       |       |
|---------------------------------------|---------|---------------------|--------|-------|------|--------|-------|-------|
| Thematic Area                         | No. of  |                     | Others |       |      | SC/ST  |       | Grand |
|                                       | Courses | Male                | Female | Total | Male | Female | Total | Total |
| (A) Farmers & Farm Women              |         |                     | •      |       |      | •      |       |       |
| I Crop Production                     |         |                     |        |       |      |        |       |       |
| Weed Management                       | 2       | 38                  | 0      | 38    | 21   | 0      | 21    | 59    |
| Resource Conservation Technologies    |         |                     |        |       |      |        |       |       |
| Cropping Systems                      |         |                     |        |       |      |        |       |       |
| Crop Diversification                  | 1       | 0                   | 0      | 0     | 21   | 0      | 21    | 21    |
| Integrated Farming                    |         |                     |        |       |      |        |       |       |
| Water management                      | 1       | 21                  | 0      | 21    | 9    | 0      | 9     | 30    |
| Seed production                       | 2       | 40                  | 0      | 40    | 20   | 0      | 20    | 60    |
| Nursery management                    | 2       | 33                  | 0      | 33    | 28   | 0      | 28    | 61    |
| Integrated Crop Management            | 5       | 126                 | 0      | 126   | 28   | 0      | 28    | 154   |
| Fodder production                     | 1       | 29                  | 0      | 29    | 1    | 0      | 1     | 30    |
| Production of organic inputs          |         |                     |        |       |      |        |       |       |
| II Horticulture                       |         |                     |        |       |      |        |       |       |
| a) Vegetable Crops                    |         |                     |        |       |      |        |       |       |
| Production of low volume and high     | 2       | 14                  | 0      | 14    | 10   | 0      | 10    | ()    |
| value crops                           | 2       | 14                  | 0      | 14    | 40   | 0      | 40    | 62    |
| Off-season vegetables                 | 1       | 12                  | 4      | 16    | 14   | 1      | 15    | 31    |
| Nursery raising                       | 2       | 25                  | 4      | 29    | 21   | 1      | 22    | 51    |
| Exotic vegetables like Broccoli       |         |                     |        |       |      |        |       |       |
| Export potential vegetables           |         |                     |        |       |      |        |       |       |
| Grading and standardization           |         |                     |        |       |      |        |       |       |
| Protective cultivation (Green Houses, |         |                     |        |       |      |        |       |       |
| Shade Net etc.)                       |         |                     |        |       |      |        |       |       |
| Other (Cucurbits .)                   |         |                     |        |       |      |        |       |       |
| b) Fruits                             |         |                     |        |       |      |        |       |       |
| Training and Pruning                  |         |                     |        |       |      |        |       |       |
| Layout and Management of              | 1       | 20                  | 0      | 20    | 2    | 0      | 2     | 20    |
| Orchards                              | 1       | 20                  | 0      | 20    | 2    | 0      | 2     | 30    |
| Cultivation of Fruit                  |         |                     |        |       |      |        |       |       |
| Management of young                   |         |                     |        |       |      |        |       |       |
| plants/orchards                       |         |                     |        |       |      |        |       |       |
| Rejuvenation of old orchards          |         |                     |        |       |      |        |       |       |
| Export potential fruits               |         |                     |        |       |      |        |       |       |
| Micro irrigation systems of orchards  |         |                     |        |       |      |        |       |       |
| Plant propagation techniques          |         |                     |        |       |      |        |       |       |
| c) Ornamental Plants                  |         |                     |        |       |      |        |       |       |

| Nursery Management                   |          |      |    |    |    |    |    |          |
|--------------------------------------|----------|------|----|----|----|----|----|----------|
| Management of potted plants          |          |      |    |    |    |    |    |          |
| Export potential of ornamental       |          |      |    |    |    |    |    |          |
| plants                               |          |      |    |    |    |    |    |          |
| Propagation techniques of            |          |      |    |    |    |    |    |          |
| Ornamental Plants                    |          |      |    |    |    |    |    |          |
| d) Plantation crops                  |          |      |    |    |    |    |    |          |
| Production and Management            |          |      |    |    |    |    |    |          |
| technology                           |          |      |    |    |    |    |    |          |
| Processing and value addition        |          |      |    |    |    |    |    |          |
| e) Tuber crops                       |          |      |    |    |    |    |    |          |
| Production and Management            | -        |      | _  |    |    |    |    |          |
| technology                           | 3        | 50   | 5  | 55 | 23 | 8  | 31 | 86       |
| Processing and value addition        |          |      |    |    |    |    |    |          |
| f) Spices                            |          |      |    |    |    |    |    |          |
| Production and Management            |          |      |    |    |    |    |    |          |
| technology                           |          |      |    |    |    |    |    |          |
| Processing and value addition        |          |      |    |    |    |    |    |          |
| g) Medicinal and Aromatic Plants     |          |      |    |    |    |    |    |          |
| Nursery management                   |          |      |    |    |    |    |    |          |
| Production and management            |          |      |    |    |    |    |    |          |
| technology                           |          |      |    |    |    |    |    |          |
| Post harvost tochnology and value    |          |      |    |    |    |    |    |          |
| addition                             |          |      |    |    |    |    |    |          |
| III Soil Health and Fertility        |          |      |    |    |    |    |    |          |
| Management                           |          |      |    |    |    |    |    |          |
| Soil fertility management            | 1        | 23   | 0  | 23 | 3  | 0  | 3  | 26       |
| Soil and Water Conservation          | 1        | 25   | 0  | 25 | 5  | 0  | 5  | 20       |
| Integrated Nutrient Management       | 1        | 30   | 0  | 30 | 0  | 0  | 0  | 30       |
| Production and use of organic inputs | 1        | 30   | 0  | 30 | 1  | 0  | 1  | 30       |
| Management of Problematic soils      | 1        | - 50 | 0  | 30 | 1  | 0  | 1  | 51       |
| Miana genteint deficience in groups  |          |      |    |    |    |    |    |          |
| Nucro nutrient denciency in crops    |          |      |    |    |    |    |    |          |
| Soil and Water Testing               |          |      |    |    |    |    |    |          |
| Son and water resting                |          |      |    |    |    |    |    |          |
| TV Livestock Production and Manage   |          | EO   | 0  | FO | 1  | 0  | 1  | (0       |
| Dairy Management                     | <u>∠</u> | 39   | 0  | 39 | 1  | 0  | 1  | 20       |
| Poultry Management                   | 1        | 27   | 0  | 27 | 3  | 0  | 3  | 30       |
| Piggery Management                   |          |      |    |    |    |    |    |          |
| Rabbit Management                    |          | (0   | 15 |    | 16 | 25 | 41 | 104      |
| Disease Management                   | 4        | 68   | 15 | 83 | 16 | 25 | 41 | 124      |
| Feed management                      | 3        | 63   | 0  | 63 | 29 | 0  | 29 | 92       |
| Production of quality animal         | 2        | 10   | 38 | 48 | 2  | 10 | 12 | 60       |
| products                             |          | -    |    |    |    | -  |    |          |
| V Home Science/Women empowerme       | ent      | r    | 1  |    | 1  | 1  |    |          |
| Household food security by kitchen   | 2        | 0    | 30 | 30 | 0  | 25 | 25 | 55       |
| gardening and nutrition gardening    |          |      |    |    |    |    |    |          |
| Design and development of            |          |      |    |    |    |    |    |          |
| low/minimum cost diet                |          |      |    |    |    |    |    |          |
| Designing and development for high   |          |      |    |    |    |    |    |          |
| nutrient efficiency diet             |          |      |    |    |    |    |    |          |
| Minimization of nutrient loss in     | 1        | 0    | 20 | 20 | 0  | 8  | 8  | 28       |
| processing                           | _        | -    | -  |    | -  | -  | -  | -        |
| Gender mainstreaming through         |          |      |    |    |    |    |    |          |
| SHGs                                 |          | ~    |    |    | ~  |    |    |          |
| Storage loss minimization techniques | 1        | 0    | 21 | 21 | 0  | 3  | 3  | 24       |
| Value addition                       | 4        | 0    | 59 | 59 | 0  | 49 | 49 | 108      |
| Income generation activities for     |          |      |    |    |    |    |    |          |
| empowerment of rural Women           |          |      |    |    |    |    |    |          |
| Location specific drudgery reduction |          |      |    |    |    |    |    |          |
| technologies                         |          |      |    |    |    |    |    | <u> </u> |

| Rural Crafts                         |     |      |   |      |    |    |      |           |
|--------------------------------------|-----|------|---|------|----|----|------|-----------|
| Women and child care                 | 1   | 0    | 9 | 9    | 0  | 15 | 15   | 24        |
| VI Agril. Engineering                |     |      |   |      |    |    |      |           |
| Installation and maintenance of      |     |      |   |      |    |    |      |           |
| micro irrigation systems             |     |      |   |      |    |    |      |           |
| Use of Plastics in farming practices |     |      |   |      |    |    |      |           |
| Production of small tools and        |     |      |   |      |    |    |      |           |
| implements                           |     |      |   |      |    |    |      |           |
| Repair and maintenance of farm       |     |      |   |      |    |    |      |           |
| machinery and implements             |     |      |   |      |    |    |      |           |
| Small scale processing and value     |     |      |   |      |    |    |      |           |
| addition                             |     |      |   |      |    |    |      |           |
| Post Harvest Technology              | 1   | 5    | 0 | 5    | 25 | 0  | 25   | 30        |
| VII Plant Protection                 |     |      |   |      |    |    |      |           |
| Integrated Past Management           | 4   | 62   | 0 | 62   | 50 | 0  | 50   | 101       |
| Integrated Disease Management        | - 4 | 40   | 0 | 40   | 40 | 0  | 40   | 121<br>80 |
| Rie control of nosts on d discosses  | 3   | 40   | 0 | 40   | 49 | 0  | 49   | 69        |
| Bio-control of pests and diseases    | 2   | - 50 | 0 | - 30 | 22 | 0  | - 30 | 60        |
| Production of bio control agents and |     |      |   |      |    |    |      |           |
| bio pesticides                       |     |      |   |      |    |    |      |           |
| VIII Fisheries                       |     |      |   |      |    |    |      |           |
| Integrated fish farming              | 1   | 25   | 0 | 25   | 1  | 0  | 1    | 26        |
| Carp breeding and hatchery           | 1   | 20   | 0 | 20   | 2  | 0  | 2    | 20        |
| management                           | 1   | 20   | 0 | 20   | 2  | 0  | 2    | 30        |
| Carp fry and fingerling rearing      | 2   | 20   | 0 | 20   | 41 | 0  | 41   | 61        |
| Composite fish culture               | 3   | 74   | 0 | 74   | 16 | 0  | 16   | 90        |
| Hatchery management and culture of   |     |      |   |      |    |    |      |           |
| freshwater prawn                     |     |      |   |      |    |    |      |           |
| Breeding and culture of ornamental   | 1   | 2    | 0 | 2    | 27 | 0  | 27   | 20        |
| fishes                               | 1   | 3    | 0 | 3    | 27 | 0  | 27   | 30        |
| Portable plastic carp hatchery       |     |      |   |      |    |    |      |           |
| Pen culture of fish and prawn        |     |      |   |      |    |    |      |           |
| Shrimp farming                       |     |      |   |      |    |    |      |           |
|                                      |     |      |   |      |    |    |      |           |
| Edible öyster farming                |     |      |   |      |    |    |      |           |
| Pearl culture                        |     |      |   |      |    |    |      |           |
| Fish processing and value addition   |     |      |   |      |    |    |      |           |
| Other (Airbreathing fish)            | 2   | 46   | 0 | 46   | 14 | 0  | 14   | 60        |
| IX Production of Inputs at site      | _   | 10   | Ű | 10   |    | Ů  |      | 00        |
|                                      |     |      |   |      |    |    |      |           |
| Seed Production                      |     |      |   |      |    |    |      |           |
| Planting material production         |     |      |   |      |    |    |      |           |
| Bio-agents production                |     |      |   |      |    |    |      |           |
| Bio-pesticides production            | 1   | 27   | 0 | 27   | 2  | 0  | 2    | 29        |
| Bio-fertilizer production            | 1   | 10   | 0 | 10   | 23 | 0  | 23   | 33        |
| Vermi-compost production             |     |      |   |      |    |    |      |           |
| Organic manures production           | 1   | 8    | 0 | 8    | 22 | 0  | 22   | 30        |
| Production of fry and fingerlings    |     |      |   |      |    |    |      |           |
| Production of Bee-colonies and wax   |     |      |   |      |    |    |      |           |
| sheets                               |     |      |   |      |    |    |      |           |
| Small tools and implements           |     |      |   |      |    |    |      |           |
| Production of livestock feed and     | 1   | 27   | 0 | 27   | 2  | 0  | 2    | 20        |
| fodder                               | 1   | 27   | 0 | 27   | 3  | U  | 3    | 50        |
| Production of Fish feed              |     |      |   |      |    |    |      |           |
| X Capacity Building and Group        |     |      |   |      |    |    |      |           |
| Dynamics                             |     |      |   |      |    |    |      |           |
| Leadership development               | 1   | 20   | 0 | 20   | 2  | 0  | 2    | 22        |
| Group dynamics                       | 1   | 24   | 0 | 24   | 1  | 0  | 1    | 25        |
| Formation and Management of SHGs     | 2   | 39   | 0 | 39   | 17 | 0  | 17   | 56        |
| Mobilization of social capital       |     |      |   |      |    |    |      |           |

| Entrepreneurial development of     |    |      |     |      |     |     |     |      |
|------------------------------------|----|------|-----|------|-----|-----|-----|------|
| farmers/youths                     |    |      |     |      |     |     |     |      |
| WTO and IPR issues                 | 4  | 72   | 0   | 72   | 34  | 0   | 34  | 106  |
| XI Agro-forestry                   |    |      |     |      |     |     |     |      |
| Production technologies            |    |      |     |      |     |     |     |      |
| Nursery management                 |    |      |     |      |     |     |     |      |
| Integrated Farming Systems         |    |      |     |      |     |     |     |      |
| XII Others (Pl. Specify)           |    |      |     |      |     |     |     |      |
| TOTAL                              | 79 | 1286 | 205 | 1491 | 651 | 153 | 804 | 2295 |
| (B) RURAL YOUTH                    |    |      |     |      |     |     |     |      |
| Mushroom Production                | 4  | 49   | 12  | 61   | 58  | 4   | 62  | 123  |
| Bee-keeping                        |    |      |     |      |     |     |     |      |
| Integrated farming                 |    |      |     |      |     |     |     |      |
| Seed production                    |    |      |     |      |     |     |     |      |
| Production of organic inputs       |    |      |     |      |     |     |     |      |
| Integrated Farming                 |    |      |     |      |     |     |     |      |
| Planting material production       | 4  | 20   | 0   | 20   | 21  | 0   | 21  | 41   |
| Vermi-culture                      |    |      |     |      |     |     |     |      |
| Sericulture                        |    |      |     |      |     |     |     |      |
| Protected cultivation of vegetable |    |      |     |      |     |     |     |      |
| crops                              |    |      |     |      |     |     |     |      |
| Commercial fruit production        |    |      |     |      |     |     |     |      |
| Repair and maintenance of farm     | F  | OF   | 0   | 0E   | 25  | 0   | 25  | 110  |
| machinery and implements           | 5  | 85   | 0   | 65   | 25  | 0   | 25  | 110  |
| Nursery Management of              |    |      |     |      |     |     |     |      |
| Horticulture crops                 |    |      |     |      |     |     |     |      |
| Training and pruning of orchards   |    |      |     |      |     |     |     |      |
| Value addition                     |    |      |     |      |     |     |     |      |
| Production of quality animal       |    |      |     |      |     |     |     |      |
| products                           |    |      |     |      |     |     |     |      |
| Dairying                           |    |      |     |      |     |     |     |      |
| Sheep and goat rearing             |    |      |     |      |     |     |     |      |
| Quail farming                      |    |      |     |      |     |     |     |      |
| Piggery                            |    |      |     |      |     |     |     |      |
| Rabbit farming                     |    |      |     |      |     |     |     |      |
| Poultry production                 | 2  | 18   | 0   | 18   | 12  | 0   | 12  | 30   |
| Ornamental fisheries               |    |      |     |      |     |     |     |      |
| Para vets                          |    |      |     |      |     |     |     |      |
| Para extension workers             |    |      |     |      |     |     |     |      |
| Composite fish culture             |    |      |     |      |     |     |     |      |
| Freshwater prawn culture           |    |      |     |      |     |     |     |      |
| Shrimp farming                     |    |      |     |      |     |     |     |      |
| Pearl culture                      |    |      |     |      |     |     |     |      |
| Cold water fisheries               |    |      |     |      |     |     |     |      |
| Fish harvest and processing        |    |      |     |      |     |     |     |      |
| technology                         |    |      |     |      |     |     |     |      |
| Fry and fingerling rearing         |    |      |     |      |     |     |     |      |
| Small scale processing             |    |      |     |      |     |     |     |      |
| Post Harvest Technology            |    |      |     |      |     |     |     |      |
| Tailoring and Stitching            | 7  | 0    | 35  | 35   | 0   | 175 | 175 | 210  |
| Rural Crafts                       | 7  | 0    | 189 | 189  | 0   | 21  | 21  | 210  |
| TOTAL                              | 29 | 172  | 236 | 408  | 116 | 200 | 316 | 724  |
| (C) Extension Personnel            |    | 1    |     |      |     |     |     |      |
| Productivity enhancement in field  | _  | 41   | 0   | 44   |     | 0   | 0   | 40   |
| crops                              | 2  | 41   | U   | 41   | 8   | U   | 8   | 49   |
| Integrated Pest Management         |    |      |     |      |     |     |     |      |
| Integrated Nutrient management     | 1  | 22   | 0   | 22   | 6   | 0   | 6   | 28   |
| Rejuvenation of old orchards       |    |      |     |      |     |     |     |      |
| Protected cultivation technology   |    |      |     |      |     |     |     |      |

| Formation and Management of SHGs      |   |     |   |     |    |   |    |     |
|---------------------------------------|---|-----|---|-----|----|---|----|-----|
| Group Dynamics and farmers            |   |     |   |     |    |   |    |     |
| organization                          |   |     |   |     |    |   |    |     |
| Information networking among          |   |     |   |     |    |   |    |     |
| farmers                               |   |     |   |     |    |   |    |     |
| Capacity building for ICT application | 1 | 25  | 0 | 25  | 5  | 0 | 5  | 30  |
| Care and maintenance of farm          |   |     |   |     |    |   |    |     |
| machinery and implements              |   |     |   |     |    |   |    |     |
| WTO and IPR issues                    | 1 | 18  | 0 | 18  | 4  | 0 | 4  | 22  |
| Management in farm animals            | 1 | 8   | 2 | 10  | 17 | 3 | 20 | 30  |
| Livestock feed and fodder             |   |     |   |     |    |   |    |     |
| production                            |   |     |   |     |    |   |    |     |
| Household food security               |   |     |   |     |    |   |    |     |
| Women and Child care                  |   |     |   |     |    |   |    |     |
| Low cost and nutrient efficient diet  |   |     |   |     |    |   |    |     |
| designing                             |   |     |   |     |    |   |    |     |
| Production and use of organic inputs  | 1 | 24  | 0 | 24  | 5  | 0 | 5  | 29  |
| Gender mainstreaming through          |   |     |   |     |    |   |    |     |
| SHGs                                  |   |     |   |     |    |   |    |     |
| Any other (Pl. Specify)               | 1 | 34  | 0 | 34  | 5  | 0 | 5  | 39  |
| TOTAL                                 | 8 | 172 | 2 | 174 | 49 | 3 | 52 | 227 |

| Date     | Clientele | Title of the training programme                      | Durati | Venue (Off | Number of participants |        |       | Number of SC/ST |        |       |
|----------|-----------|--|--------|------------|------------------------|--------|-------|-----------------|--------|-------|
|          |           |  | on in  | /On        | Male                   | Female | Total | Male            | Female | Total |
|          |           |  | days   | Campus)    |                        |        |       |                 |        |       |
| 26.05.08 | PF        | Improved production technology of Jute               | 1      | Off        | 21                     | 0      | 21    | 21              | 0      | 21    |
| 27.05.08 | PF        | Weed management of jute                              | 1      | Off        | 29                     | 0      | 29    | 21              | 0      | 21    |
| 28.05.08 | PF        | Seed treatment and nursery management of kharif      | 2      | Off        | 61                     | 0      | 61    | 28              | 0      | 28    |
| 29.05.08 |           | paddy  |        |            |                        |        |       |                 |        |       |
| 30.05.08 | PF        | Need for soil testing and soil test based fertilizer | 1      | Off        | 26                     | 0      | 26    | 3               | 0      | 3     |
|          |           | application  |        |            |                        |        |       |                 |        |       |
| 31.05.08 | PF        | Use of fibre extractor in extraction of fibre        | 1      | Off        | 30                     | 0      | 30    | 25              | 0      | 25    |
| 18.07.08 | PF        | Utilization of biofertiliser in kharif rice          | 1      | Off        | 31                     | 0      | 31    | 1               | 0      | 1     |
| 23.07.08 | PF        | Weed control of kharif paddy                         | 1      | Off        | 30                     | 0      | 30    | 0               | 0      | 0     |
| 01.09.08 | PF        | Integrated nutrient management for enhancement       | 1      | Off        | 30                     | 0      | 30    | 0               | 0      | 0     |
|          |           | of paddy productivity and better soil health         |        |            |                        |        |       |                 |        |       |
| 04.09.08 | PF        | Paddy seed production technology                     | 2      | Off        | 60                     | 0      | 60    | 20              | 0      | 20    |
| 16.10.08 |           |  |        |            |                        |        |       |                 |        |       |
| 17.10.08 | PF        | NADEP compost production                             | 1      | Off        | 30                     | 0      | 30    | 22              | 0      | 22    |
| 15.11.08 | PF        | Improved production technology of mustard            | 2      | Off        | 60                     | 0      | 60    | 16              | 0      | 16    |
| 29.12.08 |           |  |        |            |                        |        |       |                 |        |       |
| 15.01.09 | PF        | Improved production technology of sesame             | 2      | Off        | 63                     | 0      | 63    | 0               | 0      | 0     |
| 16.01.09 |           |  |        |            |                        |        |       |                 |        |       |
| 20.01.09 | PF        | Improved production technology of lentil             | 1      | Off        | 31                     | 0      | 31    | 12              | 0      | 12    |
| 21.03.09 | PF        | Training on SRI                                      | 1      | off        | 30                     | 0      | 30    | 9               | 0      | 9     |
| 02.06.08 | PF        | Preparation of organic pesticides and its            | 1      | Off        | 29                     | 0      | 29    | 2               | 0      | 2     |
|          |           | application  |        |            |                        |        |       |                 |        |       |
| 03.06.08 | PF        | Use of mulch in horticultural crops                  | 1      | Off        | 31                     | 0      | 31    | 22              | 0      | 22    |
| 04.06.08 | PF        | Impact and utilization of biofertilizers             | 1      | Off        | 33                     | 0      | 33    | 23              | 0      | 23    |
| 05.08.08 | PF        | Improved production technology of chilli             | 1      | Off        | 31                     | 0      | 31    | 26              | 0      | 26    |

Note: Please furnish the details of training programmes **as Annexure in the proforma** given below

| Date       | Clientele | Title of the training programme                            | Durati Venue (Off Number of participants |         | Number of SC/ST |        |       |      |        |       |
|------------|-----------|--|--|---------|-----------------|--------|-------|------|--------|-------|
|            |           |  | on in                                    | / On    | Male            | Female | Total | Male | Female | Total |
|            |           |  | days                                     | Campus) |                 |        |       |      |        |       |
| 08.08.08   | PF        | Establishment of fruit orchard                             | 1  | Off     | 30              | 0      | 30    | 2    | 0      | 2     |
| 22.08.08   | PF        | Nursery management in vegetable crops                      | 1  | Off     | 25              | 0      | 25    | 10   | 0      | 10    |
| 18.11.08   | PF        | Improved production technology of potato                   | 1  | Off     | 30              | 0      | 30    | 12   | 0      | 12    |
| 20.01.09   | PF        | Identification of major diseases of potato & their control | 1  | off     | 30              | 0      | 30    | 14   | 0      | 14    |
| 24.02.09   | PF        | Improved production technology of okra                     | 1  | On      | 21              | 5      | 26    | 11   | 1      | 12    |
| 07.03.09   | PF        | Improved production technology of cucurbits                | 1  | on      | 26              | 5      | 31    | 14   | 1      | 15    |
| 05.06.08   | PF        | Techniques of paneer preparation                           | 1  | off     | 12              | 18     | 30    | 2    | 2      | 4     |
| 06.06.08   | PF        | Feeding practices of doe                                   | 1  | off     | 30              | 0      | 30    | 2    | 0      | 2     |
| 07.06.08   | PF        | Care of new born kids                                      | 1  | off     | 30              | 0      | 30    | 4    | 0      | 4     |
| 26.06.08   | PF        | Feeding techniques of mineral mixture for dairy            | 2  | off     | 62              | 0      | 62    | 27   | 0      | 27    |
| & 25.08.08 |           | cow  |  |         |                 |        |       |      |        |       |
| 7.08.08    | PF        | Animal shed disinfection at rainy season                   | 2  | off     | 34              | 28     | 62    | 4    | 18     | 22    |
| &22.08.08  |           |  |  |         |                 |        |       |      |        |       |
| 23.08.08   | PF        | Home made cattle feed preparation                          | 1  | off     | 30              | 0      | 30    | 3    | 0      | 3     |
| 03.09.08   | PF        | Cultivation techniques of rice bean                        | 1  | off     | 30              | 0      | 30    | 1    | 0      | 1     |
| 15.11.08   | PF        | Care of newborn calf                                       | 1  | off     | 30              | 0      | 30    | 1    | 0      | 1     |
| 06.01.09   | PF        | Care of doe during pregnancy                               | 1  | Off     | 30              | 0      | 30    | 0    | 0      | 0     |
| 16.01.09   | PF        | Vaccination schedule for duck                              | 1  | Off     | 30              | 0      | 30    | 3    | 0      | 3     |
| 24.02.09   | PF        | Preventive measure against PPR                             | 1  | On      | 20              | 12     | 32    | 8    | 7      | 15    |
| 10.06.08   | PF        | Preparation and management of nursery pond                 | 1  | Off     | 31              | 0      | 31    | 22   | 0      | 22    |
| 11.06.08   | PF        | Aquatic weeds and algal blooms in fish ponds,              | 1  | Off     | 30              | 0      | 30    | 2    | 0      | 2     |
|            |           | their control and utilization                              |  |         |                 |        |       |      |        |       |
| 12.06.08   | PF        | Rearing pond preparation and management.                   | 1  | Off     | 30              | 0      | 30    | 19   | 0      | 19    |
| 22.07.08   | PF        | Nutrition requirement of IMC                               | 1  | Off     | 30              | 0      | 30    | 1    | 0      | 1     |
| 26.07.08   | PF        | Application of lime in fish culture                        | 1  | Off     | 30              | 0      | 30    | 13   | 0      | 13    |
| 07.08.08   | PF        | Feed formulation & feed management of IMC                  | 1  | Off     | 30              | 0      | 30    | 2    | 0      | 2     |
| 22.09.08   | PF        | Integrated duck-cum-fish farming in back yard              | 1  | Off     | 26              | 0      | 26    | 1    | 0      | 1     |
|            |           | pond   |  |         |                 |        |       |      |        |       |
| 16.10.08   | PF        | Induced breeding of Indian major carp                      | 1  | Off     | 30              | 0      | 30    | 2    | 0      | 2     |
| 18.11.08   | PF        | Airbreathing fish culture                                  | 1  | Off     | 30              | 0      | 30    | 12   | 0      | 12    |

| Date     | Clientele | Title of the training programme                   | Durati<br>on in                    | Venue (Off<br>/ On | Numbe | er of partio | cipants | Number of SC/ST |          |    |
|----------|-----------|---|------------------------------------|--------------------|-------|--------------|---------|-----------------|----------|----|
|          |           |   | days                               | Campus)            |       |              |         |                 |          |    |
| 20.01.09 | PF        | Culture of some freshwater ornamental fishes      | 1                                  | Off                | 30    | 0            | 30      | 27              | 0        | 27 |
| 13.06.08 | PF        | Leadership development                            | 1                                  | Off                | 22    | 0            | 22      | 2               | 0        | 2  |
| 18.06.08 | PF        | Group dynamics and farmers' organization          | 1                                  | Off                | 25    | 0            | 25      | 1               | 0        | 1  |
| 17.10.08 | PF        | Formation and management of self help groups      | 1                                  | Off                | 26    | 0            | 26      | 16              | 0        | 16 |
| 18.10.08 | PF        | WTO and IPR issue                                 | 2                                  | Off                | 56    | 0            | 56      | 16              | 0        | 16 |
| 21.10.08 |           |   |                                    |                    |       |              |         |                 |          |    |
| 19.03.09 | PF        | WTO and Indian agriculture                        | nd Indian agriculture 1 On 30 0 30 |                    |       |              |         |                 | 0        | 10 |
| 20.03.09 | PF        | WTA & its impact on Indian agriculture            | 1                                  | On                 | 20    | 0            | 20      | 8               | 0        | 8  |
| 21.10.08 | PF        | Formation and management of self help groups      | 1                                  | Off                | 30    | 0            | 30      | 1               | 0        | 1  |
| 23.06.08 | PF        | Pest management of Jute                           | 2                                  | Off                | 61    | 0            | 61      | 41              | 0        | 41 |
| 26.07.08 |           |   |                                    |                    |       |              |         |                 |          |    |
| 07.07.08 | PF        | Pest management of Kharif rice                    | 2                                  | Off                | 60    | 0            | 60      | 18              | 0        | 18 |
| 28.07.08 |           |   |                                    |                    |       |              |         |                 |          |    |
| 29.07.08 | PF        | Integrated Pest Management (IPM) in rice          | 1                                  | Off                | 30    | 0            | 30      | 17              | 0        | 17 |
| 05.08.08 | PF        | Management of Phomopsis blight in brinjal         | 1                                  | Off                | 29    | 0            | 29      | 18              | 0        | 18 |
| 05.09.08 | PF        | Details of pesticides and safety use              | 2                                  | Off                | 52    | 8            | 60      | 22              | 8        | 30 |
| 06.09.08 |           |   |                                    |                    |       |              |         |                 |          |    |
| 18.11.08 | PF        | Seed treatment of Potato                          | 2                                  | Off                | 43    | 13           | 56      | 11              | 8        | 19 |
| 20.11.08 |           |   |                                    |                    |       |              |         |                 | <u> </u> |    |
| 11.06.08 | PF        | Minimization of nutrients loss during cooking     | 1                                  | Off                | 0     | 28           | 28      | 0               | 8        | 8  |
|          |           | food.   |                                    |                    |       |              |         |                 | <u> </u> |    |
| 12.06.08 | PF        | Clean milk production from cattle                 | 1                                  | Off                | 0     | 30           | 30      | 0               | 8        | 8  |
| 28.06.08 | PF        | Preparation of mango squash.                      | 1                                  | Off                | 0     | 30           | 30      | 0               | 10       | 10 |
| 25.08.08 | PF        | Management of nutrition garden.                   | 2                                  | Off                | 0     | 55           | 55      | 0               | 25       | 25 |
| 15.09.08 |           |   |                                    |                    |       |              |         |                 | <u> </u> |    |
| 22.09.08 | PF        | Effective storage of grain, fruits and vegetables | 1                                  | Off                | 0     | 24           | 24      | 0               | 3        | 3  |
| 15.10.08 | PF        | Balance diet and RDA of foods for expectant and   | 1                                  | Off                | 0     | 24           | 24      | 0               | 15       | 15 |
|          |           | nursing mothers                                   |                                    |                    |       |              |         |                 | L        |    |
| 15.11.08 | PF        | Preparation of tomato sauce                       | 1                                  | Off                | 0     | 25           | 25      | 0               | 3        | 3  |
| 18.11.08 | PF        | Preparation of guava jam and jelly                | 1                                  | Off                | 0     | 28           | 28      | 0               | 13       | 13 |
| 26.12.08 | PF        | Preparation of mixed vegetable pickle             | 1                                  | On                 | 0     | 25           | 25      | 0               | 23       | 23 |

| Date         | Clientele | Title of the training programme                       | Duratio | Venue (Off / | Number of participants |        |       | s Number of SC/ST |        |       |  |
|--------------|-----------|---|---------|--------------|------------------------|--------|-------|-------------------|--------|-------|--|
|              |           |   | n in    | On Campus)   | Male                   | Female | Total | Male              | Female | Total |  |
|              |           |   | days    |              |                        |        |       |                   |        |       |  |
| 18.10.08,    | RY        | Improved production technology of gladiolus           | 4       | On           | 41                     | 0      | 41    | 21                | 0      | 21    |  |
| 20.11.08,    |           |   |         |              |                        |        |       |                   |        |       |  |
| 21.11.08 &   |           |   |         |              |                        |        |       |                   |        |       |  |
| 20.03.09     |           |   |         |              |                        |        |       |                   |        |       |  |
| 17.10.08 &   | RY        | Rearing of Khaki Campbell duck in village             | 2       | On           | 30                     | 0      | 30    | 12                | 0      | 12    |  |
| 18.10.08     |           |   |         |              |                        |        |       |                   |        |       |  |
| 23.02.09-    | RY        | Operation, maintenance and repairing of power         | 5       | On           | 110                    | 0      | 110   | 25                | 0      | 25    |  |
| 27.02.09     |           | tiller, pumpset and other agricultural implements     |         |              |                        |        |       |                   |        |       |  |
| 19.01.09,    | RY        | Improved method of oyster mushroom cultivation        | 2       | Off          | 61                     | 2      | 63    | 42                | 2      | 44    |  |
| 20.01.09     |           |   |         |              |                        |        |       |                   |        |       |  |
| 17.02.09,    | RY        | Scientific cultivation of different types of mushroom | 2       | on           | 46                     | 14     | 60    | 16                | 2      | 18    |  |
| 18.02.09     |           |   |         |              |                        |        |       |                   |        |       |  |
| 26.07.08,    | RY        | Preparation of kantha stitch                          | 7       | Off          | 0                      | 210    | 210   | 0                 | 175    | 175   |  |
| 01.08.08,    |           |   |         |              |                        |        |       |                   |        |       |  |
| 05.08.08,13. |           |   |         |              |                        |        |       |                   |        |       |  |
| 08.08,24.08. |           |   |         |              |                        |        |       |                   |        |       |  |
| 08-26.08.08  |           |   |         |              |                        |        |       |                   |        |       |  |
| 25.02.09-    | RY        | Preparation of jute handicrafts                       | 7       | Off          | 0                      | 210    | 210   | 0                 | 21     | 21    |  |
| 03.03.09     |           |   |         |              |                        |        |       |                   |        |       |  |
| 21.01.09     | EF        | Techniques of biological specimen collection and      | 1       | On           | 21                     | 5      | 26    | 13                | 3      | 16    |  |
|              |           | precaution  |         |              |                        |        |       |                   |        |       |  |
| 12.02.09     | EF        | Sustainable aquaculture                               | 1       | On           | 29                     | 0      | 29    | 5                 | 0      | 5     |  |
| 28.01.09     | EF        | Improved fertilizer management in oil seed & pulses   | 1       | on           | 20                     | 0      | 20    | 6                 | 0      | 6     |  |
|              |           | to augment productivity                               |         |              |                        |        |       |                   |        |       |  |
| 28.01.09     | EF        | Seed production technologies of major vegetable       | 1       | on           | 20                     | 0      | 20    | 6                 | 0      | 6     |  |
|              |           | crop  |         |              |                        |        |       |                   |        |       |  |
| 28.01.09     | EF        | Capacity building up for ICT application              | 1       | On           | 18                     | 0      | 18    | 5                 | 0      | 5     |  |
| 12.0209      | EF        | Vermicompost production & its utilization for better  | 1       | On           | 24                     | 0      | 24    | 5                 | 0      | 5     |  |
|              |           | soil health   |         |              |                        |        |       |                   |        |       |  |
| 12.02.09     | EF        | Third generation pesticides: towards better crop      | 1       | On           | 23                     | 0      | 23    | 2                 | 0      | 2     |  |
|              |           | production  |         |              |                        |        |       |                   |        |       |  |
| 12.02.09     | EF        | WTO & IPR issue                                       | 1       | On           | 22                     | 0      | 22    | 4                 | 0      | 4     |  |

| (D) Vocational training programmes for Kurar rout | ( | D | ) Vocational | training | programmes | for Rural | Youth |
|---|---|---|--------------|----------|------------|-----------|-------|
|---|---|---|--------------|----------|------------|-----------|-------|

| C<br>Ent | rop /<br>erprise       | Identified '                             | Thrust Area                                | Training                | ning title* Duration (days) No. of Participants Self employed after training |           |     |         |        | Nu<br>person<br>else | mber of<br>s employed<br>e where |               |             |         |       |            |
|----------|------------------------|--|--|-------------------------|--|-----------|-----|---------|--------|----------------------|----------------------------------|---------------|-------------|---------|-------|------------|
|          |                        |  |  |                         |  |           | Μ   | F       | Total  | Type of              | No.                              | of            | Numbe       | er of   |       |            |
|          |                        |  |  |                         |  |           |     |         |        | units                | uni                              | ts pe         | ersons en   | nployed |       |            |
| Kant     | ha stitch              | Design, stitching<br>of diversified      | and preparation dress material             | Preparatio<br>Kantha st | on of<br>titch   | 7         | -   | 210     | 210    | SHG                  | 2                                |               | 20          |         |       |            |
| han      | Jute<br>dicrafts       | Entrepreneursh                           | ip development                             | Preparation<br>handicra | on of jute 7 - 210 210 SHG 2 15<br>crafts                                    |           |     |         |        |                      |                                  |               |             |         |       |            |
| Mus      | shroom                 | House hold                               | consumption                                | Mushro<br>cultivati     | om<br>ion  | 6         | 172 | 8       | 180    | Newly in             | troduced                         | farming       | yet to be a | adopted |       |            |
| :        | *training ti<br>(E) Sp | itle should specify<br>consored Training | the major technolog<br><b>g Programmes</b> | gy /skill trar          | nsferred   |           |     |         | T      |                      |                                  |               |             |         |       |            |
| 6 N      |                        | <b>T</b>                                 |  |                         | Durati   | on Clier  | nt  | No. of  |        | <u> </u>             | No.                              | of Particip   | pants       | TT 4 1  |       | Sponsoring |
| 5.N      |                        | litle                                    | Thematic area                              | Month                   | (days  | 5) PF/RY/ | /EF | courses | Others | SC/ST                | Others                           | nale<br>SC/ST | Others      | I Otal  | Total | Agency     |
| 1.       | Restorati              | on of soil health                        | Soil health<br>management                  | July 08                 | 1  | PF        |     | 4       | 16     | 4                    | -                                | -             | 16          | 4       | 20    | ATMA       |
| 2.       | Organic j<br>impact ir | pesticide & its<br>1 hort. crop          | organic farming                            | July,08                 | 1  | PF        |     | 4       | 15     | 5                    | -                                | -             | 15          | 5       | 20    | ATMA       |
| 3.       | Fish cultu<br>breeding | ure & induced                            | Composite fish culture                     | July,08                 | 1  | PF        |     | 4       | 16     | 4                    | -                                | -             | 16          | 4       | 20    | ATMA       |
| 4.       | K C duck               | k rearing                                | Poultry production                         | n Aug.08                | 1  | PF        |     | 4       | 14     | 6                    | -                                | -             | 14          | 6       | 20    | ATMA       |
| 5        | Composi                | te fish culture                          | Composite fish<br>production               | Aug 08                  | 10   | PF        |     | 10      | 270    | 30                   | 0                                | 0             | 270         | 30      | 300   | NFDB       |
| 6.       | Biopestic<br>& its use | ide preparation                          | Organics farming                           | March<br>09             | 1  | PF        |     | 1       | 12     | 10                   | 0                                | 2             | 12          | 12      | 24    | ATMA       |
| 7.       | Seed pro               | duction<br>gy of paddy                   | Crop production                            | March<br>09             | 1  | PF        |     | 1       | 12     | 10                   | 0                                | 2             | 12          | 12      | 24    | ATMA       |
| 8.       | Control r<br>flu       | neasures of Bird                         | Disease<br>management                      | March<br>09             | 1  | PF        |     | 1       | 12     | 10                   | 0                                | 2             | 12          | 12      | 24    | ATMA       |
|          |                        | Total                                    |  | Ì                       |  |           |     | 29      | 367    | 79                   | 0                                | 6             | 367         | 85      | 452   |            |

| 3.4. Extension Activities ( | (including activities of | of FLD programmes) |
|-----------------------------|--------------------------|--------------------|
|-----------------------------|--------------------------|--------------------|

| Nature of Extension  | No. of                 |      | Farmers | 5        | Exte | nsion Offi | icials |       | Total  |             |
|----------------------|------------------------|------|---------|----------|------|------------|--------|-------|--------|-------------|
| Activity             | activities             | Male | Female  | Total    | Male | Female     | Total  | Male  | Female | Total       |
| Field Day            | 2                      | 105  | -       | 105      | 18   | 1          | 19     | 123   | 1      | 124         |
| Kisan Mela           |                        |      |         |          |      |            |        |       |        |             |
| Kisan Ghosthi        |                        |      |         |          |      |            |        |       |        |             |
| Exhibition           | 2                      | 150  | 50      | 200      | 10   | 2          | 12     | 160   | 52     | 212         |
| Film Show            | 5                      | 80   | 15      | 95       | 5    | 3          | 8      | 85    | 18     | 103         |
| Method               | 3                      | 75   | 15      | 90       | 4    | 1          | 5      | 79    | 16     | 95          |
| Demonstrations       | -                      | _    | -       |          |      |            | -      |       | -      |             |
| (seed drill/ jute    |                        |      |         |          |      |            |        |       |        |             |
| fibre extractor)     |                        |      |         |          |      |            |        |       |        |             |
| Farmers Seminar      |                        |      |         |          |      |            |        |       |        |             |
| Workshop             |                        |      |         |          |      |            |        |       |        |             |
| Group meetings       |                        |      |         |          |      |            |        |       |        |             |
| Lectures delivered   | 5                      | 120  | 20      | 140      | 5    | -          | 5      | 125   | 20     | 145         |
| as resource persons  |                        |      |         |          |      |            |        |       |        |             |
| Newspaper            | 7                      |      |         |          |      |            |        |       |        |             |
| coverage             |                        |      |         |          |      |            |        |       |        |             |
| Radio talks          |                        |      |         |          |      |            |        |       |        |             |
| TV talks             | 1                      |      |         |          |      |            |        |       |        |             |
| Popular articles     | 3                      |      |         |          |      |            |        |       |        |             |
| Extension Literature | 10                     | 586  | 154     | 740      |      |            |        | 586   | 154    | 740         |
| Advisory Services    | 229                    | 119  | 30      | 229      |      |            |        | 119   | 30     | 229         |
| Scientific visit to  | 50                     | 324  | 42      | 366      |      |            |        | 324   | 42     | 366         |
| farmers field        |                        |      |         |          |      |            |        |       |        |             |
| Farmers visit to KVK | 50                     | 620  | 70      | 690      |      |            |        | 620   | 70     | 690         |
| Diagnostic visits    | 30                     | 80   | 0       | 80       |      |            |        | 80    | 0      | 80          |
| Exposure visits      | 2                      | 60   | 0       | 60       |      |            |        | 60    | 0      | 60          |
| Ex-trainees          |                        |      |         |          |      |            |        |       |        |             |
| Sammelan             |                        |      |         |          |      |            |        |       |        |             |
| Soil health Camp     |                        |      |         |          |      |            |        |       |        |             |
| Animal Health        | 13                     | 641  | 47      | 688      |      |            |        | 641   | 47     | 688         |
| Camp                 |                        |      |         | families |      |            |        |       |        | families    |
| Agri mobile clinic   |                        |      |         |          |      |            |        |       |        |             |
| Soil test campaigns  |                        |      |         |          |      |            |        |       |        |             |
| Farm Science Club    | 15                     | 150  | 20      | 170      |      |            |        | 150   | 20     | 170         |
| Conveners meet       |                        |      |         |          |      |            |        |       |        |             |
| Self Help Group      | 5                      | 0    | 120     | 120      |      |            |        | 0     | 120    | 120         |
| Conveners meetings   |                        |      |         |          |      |            |        |       |        |             |
| Mahila Mandals       | 2                      | 0    | 20      | 20       |      |            |        | 0     | 20     | 20          |
| Conveners meetings   |                        |      |         |          |      |            |        |       |        |             |
| Celebration of       | (2) 15 <sup>th</sup>   | 21   | 48      | 69       |      |            |        | 21    | 48     | 69          |
| important days       | August and             |      |         |          |      |            |        |       |        |             |
| (specify)            | 26 <sup>th</sup> April |      |         |          |      |            |        |       |        |             |
|                      | (World Vet.            |      |         |          |      |            |        |       |        |             |
|                      | Day)                   | 450  | = -     | 200      |      |            |        | 150   |        |             |
| Any Other (Farmer    | 1                      | 150  | 50      | 200      | 20   | 5          | 25     | 170   | 55     | 225         |
| participation in     |                        |      |         |          |      |            |        |       |        |             |
| mauguration          |                        |      |         |          |      |            |        |       |        |             |
| Trainage heatel)     |                        |      |         |          |      |            |        |       |        |             |
| Total                | 127                    | 3791 | 701     | 4062     | 62   | 10         | 74     | 33/12 | 712    | /126        |
| iotai                | 437                    | 5401 | /01     | 1004     | 04   | 14         | /*     | 0010  | /15    | <b>T130</b> |

# 3.5 Production and supply of Technological products

| Sl. No.                  | Сгор             | Variety             | Quantity (q)                 | Value (Rs.) | Provided<br>to No. of<br>Farmers |
|--------------------------|------------------|---------------------|------------------------------|-------------|----------------------------------|
| CEREALS                  | Paddy            | MTU 7029<br>CR 1010 | 150                          | 225000      | 100                              |
|                          | Paddy straw      | MTU 7029<br>CR 1010 | 101                          | 6060        | -                                |
| PULSES                   |                  |                     |                              |             |                                  |
| VEGETABLES               | Brinjal seedling | Muktokeshi          | 6500 nos.                    | 1950        | 15                               |
| FLOWER CROPS             | Gladiolus        | Different varieties | 300 corms and 5 kg corm lets | Not sold    | -                                |
| Spices & plantation crop | Turmeric         | BH- 4               | 2.0                          | -           | -                                |
| OTHERS (Specify)         | -                | -                   | -                            | -           | -                                |

# A. SEED MATERIALS PRODUCED AT KVK FARM

#### SUMMARY

| Sl. No. | Сгор            | Quantity (q)                    | Value (Rs.) | Provided to No.<br>of Farmers |
|---------|-----------------|---------------------------------|-------------|-------------------------------|
| 1       | CEREALS (Rice)  | 150                             | 225000      | 100                           |
| 2.      | Paddy straw     | 101                             | 6060        | -                             |
| 4       | PULSES          |                                 |             |                               |
| 5       | Brinja seedling | 6500 nos.                       | 1950        | 15                            |
| 6       | Gladiolus       | 300 corms and 5 kg<br>corm lets | Not sold    | -                             |
| 7.      | Turmeric        | 2.0                             | -           | -                             |
|         | TOTAL           |                                 | 233010      | 115                           |

#### B. SEED MATERIALS PRODUCED THROUGH VILLAGE SEED PRODUCTION PROGRAMME

| Sl. No.          | Crop | Variety | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|------------------|------|---------|-----------------|-------------|----------------------------|
| CEREALS          |      |         |                 |             |                            |
| OILSEEDS         |      |         |                 |             |                            |
| PULSES           |      |         |                 |             |                            |
| VEGETABLES       |      |         |                 |             |                            |
| FLOWER CROPS     |      |         |                 |             |                            |
| OTHERS (Specify) |      |         |                 |             |                            |

#### PLANTING MATERIALS

| Sl. No.            | Crop | Variety | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|--------------------|------|---------|-----------------|-------------|----------------------------|
| FRUITS             |      |         |                 |             |                            |
| SPICES             |      |         |                 |             |                            |
| VEGETABLES         |      |         |                 |             |                            |
| FOREST SPECIES     |      |         |                 |             |                            |
| ORNAMENTAL CROPS   |      |         |                 |             |                            |
| PLANTATION CROPS   |      |         |                 |             |                            |
| Others (specify) 1 |      |         |                 |             |                            |

## SUMMARY

| Sl. No. | Сгор             | Quantity<br>(Nos.) | Value (Rs.) | Provided to<br>No. of Farmers |
|---------|------------------|--------------------|-------------|-------------------------------|
| 1       | FRUITS           |                    |             |                               |
| 2       | VEGETABLES       |                    |             |                               |
| 3       | SPICES           |                    |             |                               |
| 4       | FOREST SPECIES   |                    |             |                               |
| 5       | ORNAMENTAL CROPS |                    |             |                               |
| 6       | PLANTATION CROPS |                    |             |                               |
| 7       | OTHERS           |                    |             |                               |
|         | TOTAL            |                    |             |                               |

# **BIO PRODUCTS**

| Sl. No.        | Product | Species | ies Quantity |      | Value | Provided             |
|----------------|---------|---------|--------------|------|-------|----------------------|
|                | Name    |         | No           | (kg) | (Rs.) | to No. of<br>Farmers |
|                |         |         |              |      |       |                      |
| BIOAGENTS      |         |         |              |      |       |                      |
| BIOFERTILIZERS |         |         |              |      |       |                      |
| BIO PESTICIDES |         |         |              |      |       |                      |

# SUMMARY

|         |                      |         | Qua | ntity |             | Provided             |
|---------|----------------------|---------|-----|-------|-------------|----------------------|
| Sl. No. | Product Name         | Species | No  | (kg)  | Value (Rs.) | to No. of<br>Farmers |
| 1       | BIOAGENTS            |         |     |       |             |                      |
| 2       | BIO<br>FERTILIZERS   |         |     |       |             |                      |
| 3       | <b>BIO PESTICIDE</b> |         |     |       |             |                      |
|         | TOTAL                |         |     |       |             |                      |

#### LIVESTOCK

| Sl. No.           | Туре                          | Breed                    | Qua  | ntity | Value Provided to No. of Farm |    |
|-------------------|-------------------------------|--------------------------|------|-------|-------------------------------|----|
|                   |                               |                          | (Nos | Kgs   | (Rs.)                         |    |
| Cattle            |                               |                          |      |       |                               |    |
| SHEEP AND<br>GOAT |                               |                          |      |       |                               |    |
| POULTRY           | Duck feed                     | KC                       |      | 185   | 2220                          | 18 |
| FISHERIES         | IMC<br>advanced<br>Fingerling | Rohu,<br>catla<br>mrigal | -    | 463   | 16980                         | 45 |
| Others (Specify)  |                               |                          |      |       |                               |    |

#### SUMMARY

| S1. | Туре      | Breed      | Qua | ntity | Value (Rs.) | Provided to No. of Farmers |
|-----|-----------|------------|-----|-------|-------------|----------------------------|
| No. |           | -          | Nos | Kgs   |             |                            |
| 1   | CATTLE    |            |     |       |             |                            |
| 2   | SHEEP &   |            |     |       |             |                            |
|     | GOAT      |            |     |       |             |                            |
| 3   | POULTRY   | Duck feed  |     | 185   | 2220        | 18                         |
| 4   | FISHERIES | IMC        |     | 463   | 16980       | 45                         |
|     |           | advanced   |     |       |             |                            |
|     |           | Fingerling |     |       |             |                            |
|     | TOTAL     |            |     | 648   | 19200       | 63                         |

# 3.6. Literature Developed/Published (with full title, author & reference)

(A) KVK News Letter (Date of start, Periodicity, number of copies distributed etc.)

| Item                 | Title   | Authors name                | Number |
|----------------------|---|-----------------------------|--------|
| Research papers      | -   | -                           | 4      |
| Technical reports    | -   | -                           | -      |
| News letters         | -   | -                           | -      |
| Technical bulletins  | 1. Towards food and economic security                     | S.K. Jha, D. Ghorai, F. H.  | 1      |
|                      | through enterprise diversification                        | Rahman, M.K. Sinha and      |        |
|                      |   | B.S. Mahapatra              |        |
|                      | 2. Towards profitable agriculture- A guide                | F. H. Rahman, D. Ghorai     | 1      |
|                      | line for farmers  | S. Sarkar, C. Jana          |        |
|                      |   | S. Sarkar, G. Ziauddin,     |        |
|                      |   | S.Sethy, M. Kumar           |        |
|                      |   | S. Garai, SS Kundu          |        |
| Popular articles     | Cultivation of Hybrid Napier as green                     | C. Jana, S. Garai and F. H. | 1      |
|                      | fodder, Barddhaman Jyoti                                  | Rahman                      |        |
|                      | Scientific cultivation of Mushrooms,                      | S. Garai, D. Ghorai and     | 1      |
|                      | Barddhaman Jyoti  | F.H. Rahman                 |        |
|                      | Oyster Mushroom - An income generating                    | S. Garai and F.H. Rahman    | 1      |
|                      | enterprise, Barddhaman Jyoti                              |                             |        |
| Extension literature | 1. Preparation of Vegetable seedling                      | S. Sarkar                   |        |
|                      | 2. Organic pesticide preparation and its application      | S. Sarkar                   |        |
|                      | 3. System of rice intensification – an alternative system | D. Ghorai                   |        |
|                      | 4. Pest and disease of paddy                              | S. Garai & SS Kundu         |        |
|                      | 5. Vaccination schedule for animal                        | C. Jana                     |        |
|                      | 6. Rearing of Khaki Campbell duck                         | C.Jana                      |        |
|                      | 7. Preventive measures against PPR                        | C.Jana                      |        |
|                      | 8. Cultivation of Ricebean as fodder                      | C.Jana                      |        |
|                      | 8 Induced breeding of Indian Major Carps                  | G. Ziauddin                 |        |
|                      | 9. Clean milk production                                  | S.Sethy                     |        |
|                      | 10. Oyster mushroom – a profitable enterprise             | S. Garai                    |        |
| Others (Pl. specify) |   |                             |        |
| IOIAL                | Nineteen (19)   |                             |        |

(B) Literature developed/published : Annexure II

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

# C) Details of Electronic Media Produced : Two (2)

| S. No. | Type of media (CD / VCD / | Title of the programme                              | Number |
|--------|---------------------------|---|--------|
| 1      | CD                        | Fish culture and development<br>(in local language) | 1      |
| 2.     | CD                        | Khaki Campbell duck rearing ( in<br>local language) | 1      |

# D) Details of personnel development

| Title of training/ winter school    | Venue and date                         | Scientists attended |
|-------------------------------------|--|---------------------|
| Protected Cultivation Technologies  | Precision Farming Development Centre,  | Dr. S. Sarkar and   |
|                                     | Agricultural and Food Engineering      | D. Ghorai           |
|                                     | Dept., IIT, Karagpur from October 21-  |                     |
|                                     | 22, 2008                               |                     |
| Precision farming on Agriculture    | BAU, Ranchi, from 16.06.08 to 20.06.08 | Mr. D. Ghorai       |
| National workshop on orienting Home | S. V. B. P. U. A. & T., Meerut         | S. Sethy            |
| Science activities in KVKs          |  |                     |

# 3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

KVK gave due stress on areas of seed treatment of all crops, fertilizer management for oilseed and pulse crop for enhanced productivity. The areas of seed treatment and fertilizer management in oilseed crops have often been neglected by the farmers. KVK repeatedly interacted with farmers on these aspects through group discussion, awareness camps etc. Farmers obtained significantly higher production through adopting these technologies. The technologies have also been horizontally transferred to number of adjoining villages.

Jute was an alien crop for the farmers of the village KETEN, the adopted village by KVK. Villagers were first motivated towards it's cultivation through mass awareness camps, group meetings, farmers' tour to Central Research Institute for Jute and Allied Fibres and training. Farmers were then selected for frontline demonstration. Barring few cases most of the farmers generated good earnings in the range of Rs. 1500 to Rs. 2000 per bigha by selling of jute fibre

Besides farmers were shown the way of utilizing the jute fibre in another possible way – this time through entrepreneurship development for rural women. Selected farm women and school dropout girls were thoroughly trained in a 7 day workshop by KVK for preparation of jute handicrafts from fibre. After completion of the training 2 Mahila Mandals were formed and two members of the groups namely Namita Lohar and Tanushree Majhi mastered the skills so well that they started preparing crafts like jute bags, pen stands and other ornamental items themselves. The crafts were marketed in the gramin melas, women fairs and they earned incomes of Rs. 1400 and Rs. 1800 respectively till date, thereby ensuring grater livelihood security for their families.

A total of 30 women were trained on 'kantha stitch' in one of the adopted village of Jagulipara through a long duration training spaning over 7 days during June 2008 by the KVK with an eye to develop entrepreneurship among womenfolk of the village. After getting trained two the farm women namely, Mrs. Jyotsna Chowdhury and Sakila Begum have generated nearly Rs.3300 to add to his family income so far.

Success has been achieved in the fisheries sector as well. Mr. Mazhar-ul-Ali was identified as one of the progressive fish farmer of the region. He, along with some other fish farmers of the adopted villages, were extensively trained on various improved techniques of fish farming like composite fish culture, induced breeding, maintenance of fish pond etc. Mr. Ali have now developed so much expertise that he is now being engaged by KVK and different self help groups as resource person on payment basis.

# 3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

| 3.9 | Give details of indigenous technology practiced by the farmers in the KVR           | C |
|-----|---|---|
|     | operational area which can be considered for technology development (in detail with | h |
|     | suitable photographs)   |   |

| S. No. | Crop / Enterprise | ITK Practiced   | Purpose of ITK                |
|--------|-------------------|---|-------------------------------|
| 1      | Goat and Cattle   | Paste of leaves of <b>kalmeg</b> is made in water which is drenched orally. | Deworming for cattle and goat |
|        |                   |   |                               |
| 2      | Cattle            | Leaves and twigs (20g) of neem are  | To control Foot and mouth     |
|        |                   | boiled in water (1 liter) till the colour of                                | disease in cattle             |
|        |                   | leaves turn greyish. The decoction,   |                               |
|        |                   | after cooling, is applied externally on                                     |                               |
|        |                   | the affected area   |                               |
| 3      | Goat and Cattle   | Paste of branch of lonka suti (2 for  | For treatment of diarrhoea of |
|        |                   | adult cow and 1 for goat) in semi-solid                                     | cattle and goat               |
|        |                   | form is fed to the affected animals for 2                                   |                               |
|        |                   | days  |                               |

| 4 | Goat and Cattle | Black pepper is mixed with ghee and      | For treatment of fever (HS) for |
|---|-----------------|--|---------------------------------|
|   |                 | fed to the affected animals.             | cattle and goat                 |
|   |                 |  | )                               |
| 5 | Goat and Cattle | Paste of harjora is applied on the       | Setting of fractured bone of    |
|   |                 | affected area which is fixed by using    | small and large animals         |
|   |                 | bamboo stick                             | -                               |
| 6 | Buffalo         | Paste of raw turmeric and mustard        | Swelling and pain in hump of    |
|   |                 | cake is applied on the affected area     | buffalo                         |
|   |                 | with rice glue on back                   |                                 |
| 7 | Paddy/ wheat    | Dried neem leaves are placed in          | To check pest attack in         |
|   | -               | different layers of grain during storage | paddy/ wheat during storage     |

## 3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women : Through multidisciplinary PRA method and Group discussion
- Rural Youth Through multidisciplinary PRA method and Group discussion
- In-service personnel: Training and discussion using A/V aids

# 3.11 *Field activities*

- i. Number of villages adopted 3 so far (*Two during the year*)
- ii. No. of farm families selected- 1227 (1023 during the year)
- iii. No. of survey/PRA conducted- 3 (Two PRAs during the year)

## 3.12. Activities of Soil and Water Testing Laboratory Status of establishment of Lab

- 1. Year of establishment : 2007-2008
- 2. List of equipments purchased with amount :

| Name of the equipment         | Qty | Cost (Rs.) |
|-------------------------------|-----|------------|
| Flame photometer              | One | 29813.00   |
| Spectrophotometer             | One | 46283.00   |
| Shaker                        | One | 20756.00   |
| Hot air oven                  | One | 5344.00    |
| Hot plate                     | One | 14000.00   |
| Glass distillation unit       | One | 28000.00   |
| Conductivity bridge           | One | 10000.00   |
| pH meter                      | One | 9360.00    |
| Refrigerator                  | One | 12350.00   |
| Electronic balance            | One | 12375.00   |
| Grinder                       | One | 19500.00   |
| Kjeldahl N semi auto analyzer | One | 250474.00  |

:

3. Details of samples analyzed so far

| Details       | No. of Samples | No. of Farmers | No. of Villages | Amount realized |
|---------------|----------------|----------------|-----------------|-----------------|
| Soil Samples  | 234            | 200            | 4               | -               |
| Water Samples | 20             | 20             | 4               | -               |
| Total         | 254            | 220            | 4               | -               |

:

# 4.0 IMPACT

| Name of specific                    | No. of       | % of adoption | Change in in      | come (Rs.) |
|-------------------------------------|--------------|---------------|-------------------|------------|
| technology/skill transferred        | participants | _             | Before (Rs./Unit) | After      |
|                                     |              |               |                   | (Rs./Unit) |
| Preparation of jute handicrafts     | 30           | 85            | -                 | 1600       |
| Introduction of cultivation of jute | 40           | 75            | -                 | 15000/ha   |
| in new areas                        |              |               |                   |            |
| Cultivation of Oyster mushroom      | 40           | 50            | -                 | -          |
| in new areas                        |              |               |                   |            |
| Preparation of kantha stitch        | 30           | 80            | -                 | 3000/month |
| Introduction of Khaki Campbell      | 25           | 80            | -                 | 300/month  |
| duck                                |              |               |                   |            |
| Fish fry and fingerling             | 25           | 60            | 8000/ha           | 18000/ha   |
| production                          |              |               |                   |            |

## 4.1. Impact of KVK activities (Not to be restricted for reporting period).

# 4.2. Cases of large scale adoption (Please furnish detailed information for each case)

# 4.3 Details of impact analysis of KVK activities carried out during the reporting period

# 5.0 LINKAGES

## 5.1 Functional linkage with different organizations

| Name of organization                     | Nature of linkage  |
|--|--|
| Animal Resource Development              | Ducklings supply   |
| Department, Govt. of W.B.,               | <ul> <li>Vaccination camp against FMD, PPR, Rani khet disease</li> </ul> |
|  | <ul> <li>Health camp against infertility</li> </ul>                      |
| ATMA                                     | <ul> <li>Governing body and management committee member</li> </ul>       |
|  | SREP preparation   |
|  | <ul> <li>Collaborative programmes:-</li> </ul>                           |
|  | Farm School - 2 nos.   |
|  | Trainings – 05 nos.  |
|  | Demonstration – 10 nos.  |
| RKVY                                     | <ul> <li>Governing body and management committee member</li> </ul>       |
|  | Adhoc projects etc.  |
| National Seed Corporation, State Seed    | Foundation and certified paddy and potato seed etc.                      |
| Corporation,                             |  |
| Department of Fisheries, Govt. of W.B    | <ul> <li>Fish fingerlings supply</li> </ul>                              |
|  | <ul> <li>Training on fish culture, management</li> </ul>                 |
|  | • Awareness camp on subsidized loan scheme, fisherman                    |
|  | identity card  |
| Bidhan Chandra Krishi Viswavidyalaya,    | Time to time planning execution  |
| Mohanpur                                 | Planting material collection   |
|  | Bio fertilizers collection   |
|  | Resource persons   |
| West Bengal University of Animal and     | Feed and milk sample analysis  |
| Fishery Science                          |  |
| State Department of Agriculture, Burdwan | Time to time planning execution  |
| Regional Station for Forage Production   | Training and fodder seed collection                                      |
| Demonstration, Kalyani                   |  |
| CIFA, Kalyani                            | Exposure visit   |
| State Agricultural Management Extension  | Training on SREP preparation for ATMA programme                          |
| Training Institute, Narendrapur          |  |
| NABARD, CBI, SBI & RRBs ,Burdwan         | Farmers; club, Credit facility for farmers                               |
| Kegion                                   |  |
| NGOs like Men at Work, Ujjiban, SSSNS,   | Farmers' tour , Training etc   |
| Meghdhoot                                |  |

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

5.2 List of special programmes undertaken by the KVK, which have been financed by State Govt/Other Agencies

| Name of the scheme                      | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---------------------------|----------------|--------------|
| Farm School (2 nos.)                    | June – July, 2008         | ATMA           | 1,00,000.00  |
| Training and demonstration              | Mar, 2008                 | ATMA           | 60,000.00    |
| Training-cum-demonstration on Fisheries | Aug-Sept, 2008            | NFDB           | 82,500.00    |

# 5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes (2007)

| S. No. | Programme                           | Nature of linkage   | Remarks |
|--------|-------------------------------------|---|---------|
| 1      | Governing body Meeting              | Decision making on SREP and annual work plan as GB member | -       |
| 2      | Management committee meeting        | Approval for SREP, PRA and Accounts etc. as MC member     | -       |
| 3      | Master training on SREP preparation | Training attended at SAMETI                               | -       |
| 4      | PRA                                 | Collaborative programmes in SREP preparation              | -       |
| 5.     | Farm School (2 nos),.               | Sponsorship   | -       |
| 6.     | Training, demonstration etc         | Sponsorship   | -       |

# 5.4 *Give details of programmes implemented under National Horticultural Mission*

| S. No. | Programme  | Nature of linkage                     | Constraints if any |
|--------|--|---------------------------------------|--------------------|
| 1.     | Introduction of new<br>planting materials in the<br>villages | Tissue culture banana<br>distribution | -                  |
|        |  |                                       |                    |

#### 5.5 Nature of linkage with National Fisheries Development Board

|        | <u> </u>  |           |                   |   |
|--------|---|-----------|-------------------|---|
| S. No. | Programme   |           | Nature of linkage | Remarks   |
| 1.     | Training a<br>Demonstration<br>Composite Fish culture | and<br>on | Sponsorship       | Rs. 82,250/- received from<br>NFDB, Hyderabad for<br>conducting programme |

### 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

## 6.1 *Performance of demonstration units (other than instructional farm)*

| Sl. | Demo | Year of | Area | Details of production |         |      | Amour   | nt (Rs.) | Remarks |
|-----|------|---------|------|-----------------------|---------|------|---------|----------|---------|
| No. | Unit | estt.   |      | Variety               | Produce | Qty. | Cost of | Gross    |         |
|     |      |         |      |                       |         |      | inputs  | income   |         |
|     |      |         |      |                       |         |      |         |          |         |
|     |      |         |      |                       |         |      |         |          |         |

# 6.2 Performance of instructional farm (Crops) including seed production

| Name<br>Of the crop         | Date of<br>sowing/<br>transplanting | Date of<br>harvest | ı (ha)      | Details of production   |                          |   | Amour                | nt (Rs.)        | Remarks |
|-----------------------------|-------------------------------------|--------------------|-------------|---|--------------------------|---|----------------------|-----------------|---------|
|                             |                                     |                    | Are         | Variety   | Type of<br>Produce       | Qty.                                    | Cost<br>of<br>inputs | Gross<br>income |         |
| Cereals<br>(paddy)          | 23.07.2008                          | 15.12.2008         | 3.5         | MTU 7029  | Certified<br>and TL seed | 150 q                                   | 100,000              | 2,25,000        |         |
| Turmeric                    | 13.02.08                            | 10.03.09           | 350<br>sq.m | BH-4  | TL seed                  | 2 q                                     | -                    | -               |         |
| Floriculture<br>(gladiolus) | 10.10.08                            | 14.02.08           | 70<br>sq.m  | Diff. vars.(Pusa<br>suhagan,candiman,<br>rippling water,<br>summer sunshine,<br>sunset etc) | Corms<br>&<br>cormlets   | 300<br>corms<br>and 5<br>kg<br>cormlets | -                    | -               |         |
| Vegetables<br>(Brinjal)     | 28.09.09                            | 28.0.08            | -           | Muktokeshi  | seedling                 | 6500<br>nos.                            |                      | 1950            |         |

| 6.3 | Performance  | of production | u Units (bio-agen | ıts/bio pestic  | ides/ bio fertilize | rs etc.) |
|-----|--------------|---------------|-------------------|-----------------|---------------------|----------|
| 0.0 | 1 cijoimanee | of production | annis (010 azen   | 1137 010 pesite | 111CS 010 jerinize  | 13 (10.) |

| Sl. | Name of the | Qty | Amount (Rs.)   |              | Remarks |
|-----|-------------|-----|----------------|--------------|---------|
| No. | Product     |     | Cost of inputs | Gross income |         |
|     |             |     |                |              |         |

#### 6.4 Performance of instructional farm (livestock and fisheries production)

| <b>S1</b> . | Sl. Name Details                 |          | s of production    | s of production |                   | nt (Rs.)     | Remarks    |
|-------------|----------------------------------|----------|--------------------|-----------------|-------------------|--------------|------------|
| No          | of the animal /<br>bird/aquatics | Breed    | Type of<br>Produce | Qty.            | Cost of<br>inputs | Gross income |            |
|             | Fish fingerling                  | IMC      | Fry and            | 463             | 6000              | 10980        | -          |
|             |                                  |          | Fingerling         | kg              |                   |              |            |
|             | Duck                             | Khaki    | Duck feed          | 185             | 8950              | 2220         | Selling in |
|             |                                  | Campbell |                    | kg              |                   |              | progress   |

# 6.5 Utilization of hostel facilities

## Accommodation available (No. of beds) - 20

| Months        | No. of trainees stayed | Trainee days (days<br>stayed) | Reason for short fall (if any) |
|---------------|------------------------|-------------------------------|--------------------------------|
| November 2008 |                        |                               |                                |
| December 2008 |                        |                               |                                |
| January 2009  | 22                     | 5                             |                                |
| February 2009 |                        |                               |                                |
| March 2009    |                        |                               |                                |

# 7. FINANCIAL PERFORMANCE

## 7.1 Details of KVK Bank accounts

| Bank account        | Name of the bank                    | Location    | Account Number |
|---------------------|-------------------------------------|-------------|----------------|
| With Host Institute | State Bank of India                 | Barrackpore | 10391779335    |
|                     | Railway Station Branch, Barrackpore | _           |                |
| With KVK            | State Bank of India Mankar          | Mankar      | 30466431682    |

# 7.2 Utilization of funds under FLD on Oilseed (Rs. In Lakhs) \*

| Item                 | Release        | d by ICAR       | Expenditure    |                 | Unspent balance as on 1 <sup>st</sup> April 2008 |
|----------------------|----------------|-----------------|----------------|-----------------|--|
|                      | Kharif<br>2007 | Rabi<br>2007-08 | Kharif<br>2007 | Rabi<br>2007-08 |  |
| Inputs               |                |                 |                |                 | Rs. 15910.00                                     |
| Extension activities |                |                 |                |                 |  |
| TA/DA/POL etc.       |                |                 |                |                 |  |
| TOTAL                |                |                 |                |                 |  |

 $^{\ast}$  FLD on must ard conducted from contingency and results given in the page no 34

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs)

| Item                 | Released by ICAR |          | Expen  | Unspent |                            |
|----------------------|------------------|----------|--------|---------|----------------------------|
|                      | Kharif           | Rabi     | Kharif | Rabi    | balance as on              |
|                      | 2006             | 2006 -07 | 2006   | 2006-07 | 1 <sup>st</sup> April 2008 |
| Inputs               |                  |          |        |         | Rs. 1286.00                |
| Extension activities |                  |          |        |         |                            |
| TA/DA/POL etc.       |                  |          |        |         |                            |
| TOTAL                | -                |          |        |         |                            |

# 7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs)

| Item                 | Released by ICAR |                  | Expen          | Unspent         |   |
|----------------------|------------------|------------------|----------------|-----------------|---|
|                      | Kharif<br>2007   | Rabi<br>2007 -08 | Kharif<br>2007 | Rabi<br>2007-08 | balance as on<br>1 <sup>st</sup> April 2009 |
| Inputs               |                  |                  |                |                 |   |
| Extension activities |                  |                  |                |                 |   |
| TA/DA/POL etc.       |                  |                  |                |                 |   |
| TOTAL                |                  |                  |                |                 |   |

| S.<br>No.                  | Particulars  | Sanctioned<br>(Rs. In Lakh) | Released<br>(Released in<br>Lakh) | Expenditure<br>(Rs. In Lakh) |  |  |  |  |
|----------------------------|--|-----------------------------|-----------------------------------|------------------------------|--|--|--|--|
| A. Recurring Contingencies |  |                             |                                   |                              |  |  |  |  |
| 1                          | Pay & Allowances   | 50.50                       | 50.50                             | 42.16                        |  |  |  |  |
| 2                          | Traveling allowances   | 1.00                        | 1.00                              | 0.50                         |  |  |  |  |
| 3                          | Contingencies (A+B+C+D+E+F+G+H+I+J)  | 6.45                        | 6.45                              | 5.90                         |  |  |  |  |
| А                          | Stationery, telephone, postage and other expenditure on<br>office running, publication of Newsletter and library<br>maintenance (Purchase of News Paper & Magazines) | 2.65                        | 2.65                              | 2.37                         |  |  |  |  |
| В                          | POL, repair of vehicles, tractor and equipments  |                             |                                   |                              |  |  |  |  |
| С                          | Meals/refreshment for trainees (ceiling upto<br>Rs.40/day/trainee be maintained)   | 2.40                        | 2.40                              | 2.37                         |  |  |  |  |
| D                          | including chemicals etc. required for conducting the training)   |                             |                                   |                              |  |  |  |  |
| E                          | Training of extension functionaries  |                             |                                   |                              |  |  |  |  |
| F                          | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)   | 0.68                        | 0.68                              | 0.48                         |  |  |  |  |
| G                          | On farm testing (on need based, location specific and<br>newly generated information in the major production<br>systems of the area)                                 | 0.72                        | 0.72                              | 0.68                         |  |  |  |  |
| Н                          | Maintenance of buildings   |                             |                                   |                              |  |  |  |  |
| Ι                          | Establishment of Soil, Plant & Water Testing Laboratory  |                             |                                   |                              |  |  |  |  |
| J                          | Library  |                             |                                   |                              |  |  |  |  |
|                            | TOTAL (A)  | 57.95                       | 57.95                             | 48.56                        |  |  |  |  |
|                            | B. Non-Recurring Conti   | ingencies                   |                                   |                              |  |  |  |  |
| 1                          | Works  | 92.12                       | 92.12                             | 51.75                        |  |  |  |  |
| 2                          | Equipments including SWTL & Furniture  | 8.00                        | 8.00                              | 5.49                         |  |  |  |  |
| 3                          | Vehicle (Four wheeler/Two wheeler, please specify)   |                             |                                   |                              |  |  |  |  |
| 4                          | Library (Purchase of assets like books & journals)   |                             |                                   |                              |  |  |  |  |
|                            | TOTAL (B)  | 100.12                      | 100.12                            | 57.24                        |  |  |  |  |
|                            | GRAND TOTAL (A+B)  | 158.07                      | 158.07                            | 105.80                       |  |  |  |  |

# 7.5 Utilization of KVK funds during the year 2008-09 till date 7.5 A. Utilization of KVK funds during the year 2007-08

7.5 Status of revolving fund (Rs. in lakhs) for the three years

| Year                         | Opening balance<br>as on 1 <sup>st</sup> April<br>(Rs) | Income during<br>the year<br>(Rs) | Expenditure<br>during the year<br>(Rs) | Net balance in hand as on<br>1 <sup>st</sup> April of each year<br>(Rs) |
|------------------------------|--|-----------------------------------|--|---|
| April 2004 to<br>March 2005  | -  | -                                 | -                                      | -   |
| April 2005 to<br>March 2006  | 100,000  | -                                 | -                                      | -   |
| April 2006 to<br>March 2007  | 100,000  | 18974/-                           | 19309/-                                | 99665/-   |
| April 2007 to<br>March 2008  | 99,665   | 83106/-                           | 63681/-                                | 1,19,090/-  |
| April 2008 to<br>March, 2009 | 1,19,090   | 29400/-                           | 1,39,468/-                             | 9022/-  |

# 8.0 Please include information which has not been reflected above (write in detail).

# 8.1 Constraints - Nil

- (a) Administrative- Nil
- (b) Financial- Nil
- (c) Technical- Nil

# SUMMARY TABLES

# 1 Details of Technology assessment and refinement

| Table 1A: | Abstract on the numbe | r of technologies | assessed in respec | t of crops |
|-----------|-----------------------|-------------------|--------------------|------------|
|           |                       | , 0               | •                  |            |

| Thematic     | Cereals | Oilseeds | Pulses | Commercial | Vegetables | Fruits | Flower | Plantation | Tuber | TOTAL |
|--------------|---------|----------|--------|------------|------------|--------|--------|------------|-------|-------|
| areas        |         |          |        | Crops      |            |        |        | crops      | Crops |       |
| Varietal     |         |          |        |            |            |        |        |            |       |       |
| Evaluation   |         | -        |        |            |            |        |        |            |       |       |
| Seed / Plant |         | 1        |        |            | 1          |        |        |            | 1     | 3     |
| production   |         |          |        |            |            |        |        |            |       |       |
| Weed         |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |
| Integrated   |         |          |        |            |            |        |        |            |       |       |
| Crop         |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |
| Integrated   | 1       |          |        |            |            |        |        |            |       | 1     |
| Nutrient     |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |
| Integrated   |         |          |        |            |            |        |        |            |       |       |
| Farming      |         |          |        |            |            |        |        |            |       |       |
| System       |         |          |        |            |            |        |        |            |       |       |
| Mushroom     |         |          |        |            |            |        |        |            |       |       |
| cultivation  |         |          |        |            |            |        |        |            |       |       |
| Drudgery     |         |          |        |            | 1          |        |        |            |       | 1     |
| reduction    |         |          |        |            |            |        |        |            |       |       |
| Farm         |         |          |        |            |            |        |        |            |       |       |
| machineries  |         |          |        |            |            |        |        |            |       |       |
| Value        |         |          |        |            |            |        |        |            |       |       |
| addition     |         |          |        |            |            |        |        |            |       |       |
| Integrated   | 1       |          |        |            | 1          |        |        |            |       | 2     |
| Pest         |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |
| Integrated   |         |          |        |            |            |        |        |            |       |       |
| Disease      |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |
| Resource     |         |          |        |            |            |        |        |            |       |       |
| conservation |         |          |        |            |            |        |        |            |       |       |
| technology   |         |          |        |            |            |        |        |            |       |       |
| Small Scale  |         |          |        |            |            |        |        |            |       |       |
| income       |         |          |        |            |            |        |        |            |       |       |
| generating   |         |          |        |            |            |        |        |            |       |       |
| enterprises  |         |          |        |            |            |        |        |            |       |       |
| TOTAL        | 2       | 1        |        |            | 3          |        |        |            | 1     | 7     |

Table 1 B;Abstract on the number of technologies refined in respect of crops

| Thematic     | Cereals | Oilseeds | Pulses | Commercial | Vegetables | Fruits | Flower | Plantation | Tuber | TOTAL |
|--------------|---------|----------|--------|------------|------------|--------|--------|------------|-------|-------|
| areas        |         |          |        | Crops      | _          |        |        | crops      | Crops |       |
| Varietal     |         |          |        |            |            |        |        |            |       |       |
| Evaluation   |         |          |        |            |            |        |        |            |       |       |
| Seed / Plant |         |          |        |            |            |        |        |            |       |       |
| production   |         |          |        |            |            |        |        |            |       |       |
| Weed         |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |
| Integrated   |         |          |        |            |            |        |        |            |       |       |
| Crop         |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |
| Integrated   |         |          |        |            |            |        |        |            |       |       |
| Nutrient     |         |          |        |            |            |        |        |            |       |       |
| Management   |         |          |        |            |            |        |        |            |       |       |

| Integrated   |      |      |  |  |      |
|--------------|------|------|--|--|------|
| Farming      |      |      |  |  |      |
| System       |      |      |  |  |      |
| Mushroom     |      |      |  |  |      |
| cultivation  |      |      |  |  |      |
| Drudgery     |      |      |  |  |      |
| reduction    |      |      |  |  |      |
| Farm         |      |      |  |  |      |
| machineries  |      |      |  |  |      |
| Post Harvest |      |      |  |  |      |
| Technology   |      |      |  |  |      |
| Integrated   |      |      |  |  |      |
| Pest         |      |      |  |  |      |
| Management   |      |      |  |  |      |
| Integrated   |      |      |  |  |      |
| Disease      |      |      |  |  |      |
| Management   |      |      |  |  |      |
| Resource     |      |      |  |  |      |
| conservation |      |      |  |  |      |
| technology   |      |      |  |  |      |
| Small Scale  |      |      |  |  |      |
| income       |      |      |  |  |      |
| generating   |      |      |  |  |      |
| enterprises  |      |      |  |  |      |
| TOTAL        | <br> | <br> |  |  | <br> |

# Table 1 C:Abstract on the number of technologies assessed in respect of livestockenterprises

| Thematic areas         | Cattle | Poultry | Piggery | Rabbitary | Fisheries | TOTAL |
|------------------------|--------|---------|---------|-----------|-----------|-------|
| Evaluation of Breeds   |        |         |         |           |           |       |
| Nutrition Management   | 1      |         |         |           | 1         | 2     |
| Disease of Management  |        |         |         |           |           |       |
| Value Addition         |        |         |         |           |           |       |
| Production and         |        |         |         |           |           |       |
| Management             |        |         |         |           |           |       |
| Feed and Fodder        |        | 1       |         |           |           | 1     |
| Small Scale income     |        |         |         |           |           |       |
| generating enterprises |        |         |         |           |           |       |
| TOTAL                  | 1      | 1       |         |           | 1         | 3     |

Table 1 D: Abstract on the number of technologies refined in respect of livestock enterprises

| Thematic areas         | Cattle | Poultry | Piggery | Rabbitary | Fisheries | TOTAL |
|------------------------|--------|---------|---------|-----------|-----------|-------|
| Evaluation of Breeds   |        |         |         |           |           |       |
| Nutrition Management   |        |         |         |           |           |       |
| Disease of Management  |        |         |         |           |           |       |
| Value Addition         |        |         |         |           |           |       |
| Production and         |        |         |         |           |           |       |
| Management             |        |         |         |           |           |       |
| Feed and Fodder        |        |         |         |           |           |       |
| Small Scale income     |        |         |         |           |           |       |
| generating enterprises |        |         |         |           |           |       |
| TOTAL                  |        |         |         |           |           |       |

| Crop /<br>Enterprise | Technology<br>Assessed | No. replications | Technology refined | Result justifying the<br>refinement |
|----------------------|------------------------|------------------|--------------------|-------------------------------------|
|                      |                        |                  |                    |                                     |
|                      |                        |                  |                    |                                     |
|                      |                        |                  |                    |                                     |
|                      |                        |                  |                    |                                     |
|                      |                        |                  |                    |                                     |

Table - 1 EDetails of technology refined

# 2. Details of Frontline Demonstrations

| Сгор    | Technology<br>Demonstrated | No. of<br>Farmers | Area<br>(ha.) | Demo.<br>Yield | Local<br>Check | Increase<br>in yield<br>(%) | Data on<br>parameter in<br>relation to<br>technology<br>demonstrated |       | Data on<br>parameter in<br>relation to<br>technology<br>demonstrated |                               | Average<br>Net<br>Return<br>(Profit)<br>(Rs./ha) | Benefit-<br>Cost Ratio<br>(Gross<br>Return/<br>Gross |
|---------|----------------------------|-------------------|---------------|----------------|----------------|-----------------------------|--|-------|--|-------------------------------|--|--|
|         |                            |                   |               |                |                |                             | Demo   | Local |  | Cost)                         |  |  |
| Mustard | Package<br>demonstration   | 30                | 4             | 11.3<br>q/ha   | 10.2<br>q/ha   | 11%                         | Given in<br>Page No. 33  |       | Demo:<br>16750<br>L. Chk.:<br>13979                                  | Demo : 1.98,<br>L. Chk.: 1.84 |  |  |

Table - 2 B Front Line Demonstrations on Pulse Crops

| Сгор | Technology<br>Demonstrated | No. of<br>Farmers | Area<br>(ha.) | Demo.<br>Yield | Local<br>Check | Increase<br>in yield<br>(%) | Data<br>paramo<br>relatio<br>techno<br>demons<br>Demo | on<br>eter in<br>on to<br>ology<br>strated<br>Local | Average<br>Net<br>Return<br>(Profit)<br>(Rs,/ha) | Benefit-<br>Cost Ratio<br>(Gross<br>Return/<br>Gross<br>Cost) |
|------|----------------------------|-------------------|---------------|----------------|----------------|-----------------------------|---|---|--|---|
|      |                            |                   |               |                |                |                             |   |   |  |   |
|      |                            |                   |               |                |                |                             |   |   |  |   |
|      |                            |                   |               |                |                |                             |   |   |  |   |
|      |                            |                   |               |                |                |                             |   |   |  |   |

Table - 2 C Front Line Demonstrations on Other Crops

| Сгор                        | Technology<br>Demonstrated   | No. of<br>Farmers | Area<br>(ha.) | Demo.<br>Yield<br>(q/ha) | Local<br>Check | Increase<br>in yield<br>(%)   | Data<br>param<br>relati<br>techn<br>demon<br>Demo | a on<br>eter in<br>on to<br>ology<br>strated<br>Local | Average<br>Net<br>Return<br>(Profit)<br>(Rs./ha) | Benefit-<br>Cost<br>Ratio<br>(Gross<br>Return/<br>Gross<br>Cost) |
|-----------------------------|--|-------------------|---------------|--------------------------|----------------|-------------------------------|---|---|--|--|
| Paddy                       | Package<br>demonstration   | 7                 | 1             | 44.26                    | 40.85          | 8% over<br>local<br>check     | Given in<br>Page No. 34                           |   | 21683  | Demo : 2.30,<br>L. Chk.: 2.21                                    |
| Jute                        | Improved<br>package<br>demonstration                                 | 15                | 2             | 27.66                    | 25.08          | 10% over<br>local<br>check    | Give<br>Page I                                    | en in<br>No. 34                                       | 13416  | Demo : 1.73,<br>L. Chk.: 1.25                                    |
| Potato                      | Component<br>demonstration<br>(late blight<br>disease<br>management) | 15                | 1             | 280                      | 250            | 12%<br>over local<br>check    | Give<br>Page I                                    | en in<br>No. 34                                       | 78800  | Demo: 2.67,<br>L. Check:<br>2.45                                 |
| Rice<br>bean (as<br>fodder) | Component<br>demonstation<br>(Biofertiliser)                         | 5                 | 0.2           | 197.6                    | 161.2          | 22.5 %<br>over local<br>check | Given in<br>Page No. 32                           |   | 4770   | Demo : 1.93,<br>L. Chk.: 1.61                                    |

| Brinjal | Component<br>demonstration<br>(Fungicide) | 16 | 0.75 | 226.5 | 213.7 | 6 % over<br>local<br>check  | Given in<br>Page No. 34 | 63593 | Demo : 2.56,<br>L. Chk.: 2.15 |
|---------|---|----|------|-------|-------|-----------------------------|-------------------------|-------|-------------------------------|
| Brinjal | Imp. Agro.<br>package                     | 2  | 0.8  | 250   | 210   | 9 % over<br>local<br>check  | Given in<br>Page No. 34 | 56800 | Demo : 2.36<br>L. Chk.: 2.10  |
| Tomato  | Imp. Agro.<br>package                     | 1  | 0.4  | 240   | 200   | 12 % over<br>local<br>check | Given in<br>Page No. 33 | 52650 | Demo :2.30<br>L. Chk.: 2.12   |

Table - 2 D Front Line Demonstrations on Other enterprises

| Enterprise | Variety/<br>breed | No. of<br>farmers | No.<br>of | Size<br>of | Parameter<br>indicators | Data on relation | parameter in<br>to technology | % change in<br>the | Remarks          |  |
|------------|-------------------|-------------------|-----------|------------|-------------------------|------------------|-------------------------------|--------------------|------------------|--|
|            | /Species          |                   | Units     | Unit       |                         | demonstrated     |                               | parameter          |                  |  |
|            | /others           |                   |           |            |                         | Demon.           | Local check                   |                    |                  |  |
| Cattle     | Deshi cow         | 10                | 10        | 1          | Milk                    | 331              | 251.8                         | 31.5               | Lactation pd in  |  |
|            |                   |                   |           |            | yield                   |                  |                               |                    | was increased    |  |
|            |                   |                   |           |            | -                       |                  |                               |                    | over local check |  |
| Duck       | KC                | 10                | 100       | 10         | Egg                     | 210              | 180                           | 16.6               | -                |  |
|            |                   |                   |           | nos.       |                         |                  |                               |                    |                  |  |
| Mushroom   | Oyster            | 30                | 240       | 8          | Yield                   | 900              | 600gm                         | 50% over           | -                |  |
|            |                   |                   | beds      |            |                         | gm/bed           | /bed                          | local chk          |                  |  |
| Fish       | Minor carp        | 10                | 10        | 1          | Yield                   | 7 q/ha           | 5 q/ha                        | 40% over           | -                |  |
|            | (Labeo bata)      |                   |           |            |                         |                  |                               | conv.              |                  |  |
|            |                   |                   |           |            |                         |                  |                               | Practice           |                  |  |
| Fish       | IMC               | 2                 | 2         | 0.4 ha     | Yield                   | 12.5             | 7 q/ha                        | 78.5% over         | -                |  |
|            |                   |                   |           |            |                         | q/ha             |                               | conv.              |                  |  |
|            |                   |                   |           |            |                         |                  |                               | practice           |                  |  |

# 3. Details of training programmes conducted:

| Thematic Area           | No. of Participants |        |   |          |    |    |          |    |          |   |          |
|-------------------------|---------------------|--------|---|----------|----|----|----------|----|----------|---|----------|
|                         | No. of              | Others |   |          |    | SC |          | ST |          |   | Grand    |
|                         | Courses             | Μ      | F | Т        | Μ  | F  | Т        | Μ  | F        | Т | Total    |
|                         |                     |        |   |          |    |    |          |    |          |   |          |
| Crop Production         |                     |        |   |          |    |    |          |    |          |   |          |
| Weed Management         | 2                   | 38     | 0 | 38       | 21 | 0  | 21       | 0  | 0        | 0 | 59       |
| Resource Conservation   |                     |        |   |          |    |    |          |    |          |   |          |
| Technologies            |                     |        |   |          |    |    |          |    |          |   |          |
| Cropping Systems        |                     |        |   |          |    |    |          |    |          |   |          |
| Crop Diversification    | 1                   | 0      | 0 | 0        | 21 | 0  | 21       | 0  | 0        | 0 | 21       |
| Integrated Farming      |                     |        |   |          |    |    |          |    |          |   |          |
| Micro                   | 1                   | 21     | 0 | 21       | 8  | 0  | 8        | 1  | 0        | 1 | 30       |
| Irrigation/Irrigation   |                     |        |   |          |    |    |          |    |          |   |          |
| Seed production         | 2                   | 40     | 0 | 40       | 20 | 0  | 20       | 0  | 0        | 0 | 60       |
| Nursery management      | 2                   | 33     | 0 | 33       | 28 | 0  | 28       | 0  | 0        | 0 | 61       |
| Integrated Crop         | 5                   | 126    | 0 | 126      | 28 | 0  | 28       | 0  | 0        | 0 | 154      |
| Management              | Ű                   | 120    | 0 | 120      | 20 | Ŭ  | 20       | Ŭ  |          |   | 101      |
| Fodder production       | 1                   | 29     | 0 | 29       | 1  | 0  | 1        | 0  | 0        | 0 | 30       |
| Soil and Water          |                     |        |   |          |    |    |          |    |          |   |          |
| Conservation            | ļ                   |        |   | <u> </u> |    |    |          |    |          |   | <u> </u> |
| Integrated Nutrient     |                     |        |   |          |    |    |          |    |          |   |          |
| Management              |                     |        |   |          |    |    |          |    |          |   |          |
| Production of organic   |                     |        |   |          |    |    |          |    |          |   |          |
| inputs                  |                     |        |   |          |    |    |          |    |          |   |          |
| Other                   |                     |        |   |          |    |    |          |    |          |   |          |
| Horticulture            |                     |        |   |          |    |    |          |    |          |   |          |
| a) Vegetable Crops      |                     |        |   |          |    |    |          |    |          |   |          |
| Production of low value | 2                   | 14     | 0 | 14       | 48 | 0  | 48       | 0  | 0        | 0 | 62       |
| and high volume crop    |                     |        |   |          |    |    |          |    |          |   |          |
| Off-season vegetables   | 1                   | 12     | 4 | 16       | 12 | 1  | 13       | 2  | 0        | 2 | 31       |
| Nursery raising         | 2                   | 25     | 4 | 29       | 19 | 1  | 20       | 2  | 0        | 2 | 51       |
| Exotic vegetables       |                     |        |   |          |    |    |          |    |          |   |          |
| Export potential        |                     |        |   |          |    |    |          |    |          |   |          |
| vegetables              |                     |        |   |          |    |    |          |    |          |   |          |
| Grading and             |                     |        |   |          |    |    |          |    |          |   |          |
| standardization         |                     |        |   |          |    |    |          |    |          |   |          |
| Protective cultivation  |                     |        |   |          |    |    |          |    |          |   |          |
| Other (summer veg)      |                     |        |   |          |    |    |          |    |          |   |          |
| b) Fruits               |                     |        |   |          |    |    |          |    |          |   |          |
| Training and Pruning    |                     |        |   |          |    |    |          |    |          |   |          |
| Layout and Management   | 1                   | 28     | 0 | 28       | 2  | 0  | 2        | 0  | 0        | 0 | 30       |
| of Orchards             |                     |        |   |          |    |    |          |    |          |   |          |
| Cultivation of Fruit    |                     |        |   |          |    |    |          |    |          |   |          |
| Management of young     |                     |        |   |          |    |    |          |    |          |   |          |
| plants/ orchards        |                     |        |   |          |    |    |          |    |          |   |          |
| Rejuvenation of old     |                     |        |   |          |    |    |          |    |          |   |          |
| orchards                |                     |        |   |          |    |    |          |    |          |   |          |
| Export potential fruits |                     |        |   |          |    |    |          |    |          |   |          |
| of orchards             |                     |        |   |          |    |    |          |    |          |   |          |
| Di orchards             |                     |        |   |          |    |    | <u> </u> |    | <u> </u> |   |          |
| tochniques              |                     |        |   |          |    |    |          |    |          |   |          |
| a) Ornamontal Planta    |                     |        |   |          |    |    | <u> </u> |    | <u> </u> |   |          |
| Numera Management       |                     |        |   |          |    |    | <u> </u> |    | <u> </u> |   |          |
| Nursery Management      |                     |        |   |          | -  | -  |          |    |          |   |          |
| Nanagement of potted    |                     |        |   |          |    |    |          |    |          |   |          |
| plants                  |                     |        |   |          |    |    |          |    |          |   |          |
|                         | 1                   |        |   | 1        | 1  | 1  | 1        | 1  | 1        | 1 | 1        |

Table - 3 AArea-wise distribution of On + Off Campus Training Courses for Farmers andFarm Women (regular + sponsored)

| Thematic Area                       | No. of Participants |    |        |    |          |    |    |   |    |   |       |
|-------------------------------------|---------------------|----|--------|----|----------|----|----|---|----|---|-------|
|                                     | No. of              |    | Others |    |          | SC |    |   | ST |   | Grand |
|                                     | Courses             | Μ  | F      | Т  | Μ        | F  | Т  | Μ | F  | Т | Total |
| Export potential of                 |                     |    |        |    |          |    |    |   |    |   |       |
| Propagation techniques              |                     |    |        |    |          |    |    |   |    |   |       |
| of Ornamental Plants                |                     |    |        |    |          |    |    |   |    |   |       |
| Broduction and                      |                     |    |        |    |          |    |    |   |    |   |       |
| Management technology               |                     |    |        |    |          |    |    |   |    |   |       |
| Broccosing and value                |                     |    |        |    |          |    |    |   |    |   |       |
| addition                            |                     |    |        |    |          |    |    |   |    |   |       |
| a) Tuber groups                     |                     |    |        |    |          |    |    |   |    |   |       |
| Production and                      |                     |    |        |    |          |    |    |   | 0  | 0 |       |
| Management technology               | 3                   | 50 | 5      | 55 | 23       | 8  | 31 | 0 | 0  | 0 | 86    |
| Processing and value                |                     |    |        |    |          |    |    |   |    |   |       |
| addition                            |                     |    |        |    |          |    |    |   |    |   |       |
| f) Spices                           |                     |    |        |    |          |    |    |   |    |   |       |
| Production and                      |                     |    |        |    |          |    |    |   |    |   |       |
| Management technology               |                     |    |        |    |          |    |    |   |    |   |       |
| Processing and value                |                     |    |        |    |          |    |    |   |    |   |       |
| addition                            |                     |    |        |    |          |    |    |   |    |   |       |
| g) Medicinal and<br>Aromatic Plants |                     |    |        |    |          |    |    |   |    |   |       |
| Nursery management                  |                     |    |        |    |          |    |    |   |    |   |       |
| Production and                      |                     |    |        |    |          |    |    |   |    |   |       |
| management technology               |                     |    |        |    |          |    |    |   |    |   |       |
| Post harvest technology             |                     |    |        |    |          |    |    |   |    |   |       |
| and value addition                  |                     |    |        |    |          |    |    |   |    |   |       |
| Soil Health and Fertility           |                     |    |        |    |          |    |    |   |    |   |       |
| Management                          |                     |    |        |    |          |    |    |   |    |   |       |
| Soil fertility management           | 1                   | 23 | 0      | 23 | 3        | 0  | 3  | 0 | 0  | 0 | 26    |
| Integrated water                    |                     |    |        |    |          |    |    |   |    |   |       |
| management                          |                     |    |        |    |          |    |    |   |    |   |       |
| Integrated nutrient                 | 4                   | 20 | 0      | 20 | 0        | 0  | 0  | 0 | 0  | 0 | 20    |
| management                          | 1                   | 30 | 0      | 30 | 0        | 0  | 0  | 0 |    |   | 30    |
| Production and use of               | 1                   | 20 | 0      | 20 | 1        | 0  | 1  | 0 | 0  | 0 | 21    |
| organic inputs                      | 1                   | 30 | 0      | 30 | 1        | 0  | 1  | 0 |    |   | 31    |
| Management of                       |                     |    |        |    |          |    |    |   |    |   |       |
| Problematic soils                   |                     |    |        |    |          |    |    |   |    |   |       |
| Micro nutrient deficiency           |                     |    |        |    |          |    |    |   |    |   |       |
| in crops                            |                     |    |        |    |          |    |    |   |    |   |       |
| Nutrient use efficiency             |                     |    |        |    |          |    |    |   |    |   |       |
| Balanced use of                     |                     |    |        |    |          |    |    |   |    |   |       |
| fertilizers                         |                     |    |        |    |          |    |    |   |    |   |       |
| Soil and water testing              |                     |    |        |    |          |    |    |   |    |   |       |
| Livestock Production                |                     |    |        |    |          |    |    |   |    |   |       |
| and Management                      |                     |    |        |    |          |    |    |   |    |   |       |
| Dairy Management                    | 2                   | 59 | 0      | 59 | 1        | 0  | 1  | 0 | 0  | 0 | 60    |
| Poultry Management                  | 1                   | 27 | 0      | 27 | 3        | 0  | 3  | 0 | 0  | 0 | 30    |
| Piggery Management                  |                     |    |        |    | <u> </u> |    |    |   |    |   |       |
| Rabbit Management                   |                     |    |        |    |          |    |    |   |    |   |       |
| Animal Disease                      | 4                   | 68 | 15     | 83 | 16       | 23 | 39 | 0 | 2  | 2 | 124   |
| Management                          | -                   |    |        |    |          |    |    |   |    | - |       |
| Feed and Fodder                     | 3                   | 63 | 0      | 63 | 29       | 0  | 29 | 0 | 0  | 0 | 92    |
| technology                          |                     | 10 | 00     | 40 |          | 10 | 10 | 0 |    | 0 | (0    |
| Production of quality               | 2                   | 10 | 38     | 48 | 2        | 10 | 12 | U | 0  | 0 | 60    |
| line Colore Mar                     |                     |    |        |    |          |    |    |   |    |   |       |
| nome Science/Women                  |                     |    |        |    |          |    |    |   |    |   |       |
| Household food coordinate           |                     |    |        |    |          |    |    |   | 0  | 0 |       |
| by kitchon gardoning                | r                   | Ο  | 30     | 20 | 0        | 25 | 25 | 0 | 0  | U | 55    |
| and nutrition cordoning             | 2                   | 0  | 50     | 50 | 0        | 20 | 20 | U |    |   | 55    |
| and nutrition gardening             |                     |    |        |    |          |    |    |   |    |   |       |

| Thematic Area              | No. of Participants |        |    |    |    |    |    |    |   |   |       |
|----------------------------|---------------------|--------|----|----|----|----|----|----|---|---|-------|
|                            | No. of              | Others |    |    |    | SC |    | ST |   |   |       |
|                            | Courses             | Μ      | F  | Т  | Μ  | F  | Т  | Μ  | F | Т | Total |
| Design and development     |                     |        |    |    |    |    |    |    |   |   |       |
| of low/minimum cost        |                     |        |    |    |    |    |    |    |   |   |       |
| diet                       |                     |        |    |    |    |    |    |    |   |   |       |
| Designing and              |                     |        |    |    |    |    |    |    |   |   |       |
| development for high       |                     |        |    |    |    |    |    |    |   |   |       |
| nutrient efficiency diet   |                     |        |    |    |    |    |    |    |   |   |       |
| Minimization of nutrient   | 1                   | 0      | 20 | 20 | 0  | 8  | 8  | 0  | 0 | 0 | 28    |
| loss in processing         | -                   | 0      | 20 | 20 | Ŭ  | 0  | Ŭ  | 0  |   |   | 20    |
| Processing and cooking     |                     |        |    |    |    |    |    |    |   |   |       |
| Gender mainstreaming       |                     |        |    |    |    |    |    |    |   |   |       |
| through SHGs               |                     |        |    |    |    |    |    |    |   |   |       |
| Storage loss               | 1                   | 0      | 21 | 21 | 0  | 3  | 3  | 0  | 0 | 0 | 24    |
| minimization techniques    | 1                   | 0      | 21 | 21 | 0  | 5  | 5  | 0  |   |   | 21    |
| Value addition             | 4                   | 0      | 59 | 59 | 0  | 49 | 49 | 0  | 0 | 0 | 108   |
| Women empowerment          |                     |        |    |    |    |    |    |    |   |   |       |
| Location specific          |                     |        |    |    |    |    |    |    |   |   |       |
| drudgery reduction         |                     |        |    |    |    |    |    |    |   |   |       |
| Rural Crafts               |                     |        |    |    |    |    |    |    |   |   |       |
| Women and child care       | 1                   | 0      | 9  | 9  | 0  | 15 | 15 | 0  | 0 | 0 | 24    |
| Agril. Engineering         |                     |        |    |    |    |    |    |    |   |   |       |
| Farm machinery and its     |                     |        |    |    |    |    |    |    |   |   |       |
| maintenance                |                     |        |    |    |    |    |    |    |   |   |       |
| Installation and           |                     |        |    |    |    |    |    |    |   |   |       |
| maintenance of micro       |                     |        |    |    |    |    |    |    |   |   |       |
| irrigation systems         |                     |        |    |    |    |    |    |    |   |   |       |
| Use of Plastics in farming |                     |        |    |    |    |    |    |    |   |   |       |
| practices                  |                     |        |    |    |    |    |    |    |   |   |       |
| Production of small tools  |                     |        |    |    |    |    |    |    |   |   |       |
| and implements             |                     |        |    |    |    |    |    |    |   |   |       |
| Repair and maintenance     |                     |        |    |    |    |    |    |    |   |   |       |
| of farm machinery and      |                     |        |    |    |    |    |    |    |   |   |       |
| implements                 |                     |        |    |    |    |    |    |    |   |   |       |
| Small scale processing     |                     |        |    |    |    |    |    |    |   |   |       |
| and value addition         |                     |        |    |    |    |    |    |    |   |   |       |
| Post Harvest Technology    | 1                   | 5      | 0  | 5  | 25 | 0  | 25 | 0  | 0 | 0 | 30    |
| Plant Protection           |                     |        |    |    |    |    |    |    |   |   |       |
| Integrated Pest            | 4                   | 62     | 0  | 62 | 59 | 0  | 59 | 0  | 0 | 0 | 121   |
| Management                 | 1                   | 02     | 0  | 02 | 07 | 0  | 0, | 0  |   |   | 121   |
| Integrated Disease         | 3                   | 40     | 0  | 40 | 49 | 0  | 49 | 0  | 0 | 0 | 89    |
| Management                 |                     |        |    |    |    |    |    |    |   |   |       |
| Bio-control of pests and   | 2                   | 30     | 0  | 30 | 22 | 8  | 30 | 0  | 0 | 0 | 60    |
| diseases                   | 4                   | 50     | 0  | 50 | ~~ | 0  | 50 | 0  |   |   | 00    |
| Production of bio          |                     |        |    |    |    |    |    |    |   |   |       |
| control agents and bio     |                     |        |    |    |    |    |    |    |   |   |       |
| pesticides                 |                     |        |    |    |    |    |    |    |   |   |       |
| Fisheries                  |                     |        |    |    |    |    |    |    |   |   |       |
| Integrated fish farming    | 1                   | 25     | 0  | 25 | 1  | 0  | 1  | 0  | 0 | 0 | 26    |
| Carp breeding and          | 1                   | 28     | 0  | 28 | 2  | 0  | 2  | 0  | 0 | 0 | 30    |
| hatchery management        |                     | -0     |    | -0 |    | 5  |    | 5  |   |   |       |
| Carp fry and fingerling    | 2                   | 20     | 0  | 20 | 41 | 0  | 41 | 0  | 0 | 0 | 61    |
| rearing                    |                     | 20     | Ŭ  | 20 |    |    |    | U  |   |   | 01    |
| Composite fish culture     | 3                   | 74     | 0  | 74 | 16 | 0  | 16 | 0  | 0 | 0 | 90    |
| Hatchery management        |                     |        |    |    |    |    |    |    |   |   |       |
| and culture of freshwater  |                     |        |    |    |    |    |    |    |   |   |       |
| prawn                      |                     |        |    |    |    |    |    |    |   |   |       |
| Breeding and culture of    | 1                   | З      | 0  | 3  | 27 | 0  | 27 | 0  | 0 | 0 | 30    |
| ornamental fishes          | 1                   | 5      |    | 5  |    | 0  |    | 0  |   |   | 50    |
| Portable plastic carp      |                     |        |    |    |    |    |    |    |   |   |       |
| hatchery                   |                     |        |    |    |    |    |    |    |   |   |       |
| Thematic Area             | No. of Participants |      |        |      |       |     |     |    |     |       |       |
|---------------------------|---------------------|------|--------|------|-------|-----|-----|----|-----|-------|-------|
|                           | No. of              |      | Others |      | SC ST |     |     |    |     | Grand |       |
|                           | Courses             | Μ    | F      | Т    | Μ     | F   | Т   | Μ  | F   | Т     | Total |
| Pen culture of fish and   |                     |      |        |      |       |     |     |    |     |       |       |
| prawn                     |                     |      |        |      |       |     |     |    |     |       |       |
| Shrimp farming            |                     |      |        |      |       |     |     |    |     |       |       |
| Edible oyster farming     |                     |      |        |      |       |     |     |    |     |       |       |
| Pearl culture             |                     |      |        |      |       |     |     |    |     |       |       |
| Fish processing and       |                     |      |        |      |       |     |     |    |     |       |       |
| value addition            |                     |      |        |      |       |     |     |    |     |       |       |
| Other (Airbreathing fish) | 2                   | 46   | 0      | 46   | 14    | 0   | 14  | 0  | 0   | 0     | 60    |
| Production of Inputs at   |                     |      |        |      |       |     |     |    |     |       |       |
| site                      |                     |      |        |      |       |     |     |    |     |       |       |
| Seed Production           |                     |      |        |      |       |     |     |    |     |       |       |
| Planting material         |                     |      |        |      |       |     |     |    |     |       |       |
| production                |                     |      |        |      |       |     |     |    |     |       |       |
| Bio-agents production     | 1                   | 27   | 0      | 27   | 2     | 0   | 2   | 0  | 0   | 0     | 29    |
| Bio-pesticides            | 1                   | 10   | 0      | 10   | 23    | 0   | 23  | 0  | 0   | 0     | 33    |
| production                | 1                   | 10   | 0      | 10   | 25    | 0   | 25  | 0  |     |       | 55    |
| Bio-fertilizer production |                     |      |        |      |       |     |     |    |     |       |       |
| Vermi-compost             |                     |      |        |      |       |     |     |    |     |       |       |
| production                |                     |      |        |      |       |     |     |    |     |       |       |
| Organic manures           | 1                   | 0    | 0      | 0    | 22    | 0   | 22  | 0  | 0   | 0     | 20    |
| production                | 1                   | 0    | 0      | 0    | 22    | 0   | 22  | 0  |     |       | 30    |
| Production of fry and     |                     |      |        |      |       |     |     |    |     |       |       |
| fingerlings               |                     |      |        |      |       |     |     |    |     |       |       |
| Production of Bee-        |                     |      |        |      |       |     |     |    |     |       |       |
| colonies and wax sheets   |                     |      |        |      |       |     |     |    |     |       |       |
| Small tools and           |                     |      |        |      |       |     |     |    |     |       |       |
| implements                |                     |      |        |      |       |     |     |    |     |       |       |
| Production of livestock   | 1                   | 27   | 0      | 27   | 3     | 0   | 3   | 0  | 0   | 0     | 30    |
| feed and fodder           | -                   |      | Ū      | ,    | 0     | 0   | 0   | Ŭ  |     |       | 00    |
| Production of Fish feed   |                     |      |        |      |       |     |     |    |     |       |       |
| Capacity Building and     |                     |      |        |      |       |     |     |    |     |       |       |
| Group Dynamics            |                     |      |        |      |       |     |     | -  | -   |       |       |
| Leadership development    | 1                   | 20   | 0      | 20   | 2     | 0   | 2   | 0  | 0   | 0     | 22    |
| Group dynamics            | 1                   | 24   | 0      | 24   | 1     | 0   | 1   | 0  | 0   | 0     | 25    |
| Formation and             | 2                   | 39   | 0      | 39   | 17    | 0   | 17  | 0  | 0   | 0     | 56    |
| Management of SHGs        |                     |      |        |      |       |     |     |    |     |       |       |
| Mobilization of social    |                     |      |        |      |       |     |     |    |     |       |       |
| capital                   |                     |      |        |      |       |     |     |    |     |       |       |
| Entrepreneurial           |                     |      |        |      |       |     |     |    |     |       |       |
| development of            |                     |      |        |      |       |     |     |    |     |       |       |
| farmers/ youths           | 4                   | 70   | 0      | 70   | 25    | 0   | 25  | 0  | 0   | 0     | 107   |
| VV I U and IPK issues     | 4                   | 72   | U      | 72   | 25    | U   | 25  | 9  | U   | 9     | 106   |
| Agro-forestry             |                     |      |        |      |       |     |     |    |     |       |       |
| Production technologies   |                     |      |        |      |       |     |     |    |     |       |       |
| Inursery management       |                     |      |        |      |       |     |     |    |     |       |       |
| Functional Farming        |                     |      |        |      |       |     |     |    |     |       |       |
| Othora (D1 areasifer)     |                     |      |        |      |       |     |     |    |     |       |       |
| TOTAL                     | 70                  | 1206 | 205    | 1401 | 627   | 151 | 700 | 14 | 2   | 16    | 220E  |
| IUIAL                     | 17                  | 1200 | 205    | 1471 | 037   | 101 | 100 | 14 | L 2 | 10    | 2290  |

| Thematic Area                | No. of  | No. of Participants |        |       |     |     |     |       |    |   |       |
|------------------------------|---------|---------------------|--------|-------|-----|-----|-----|-------|----|---|-------|
|                              | Courses | Others              |        |       |     |     |     | Grand |    |   |       |
|                              |         | Male                | Female | Total |     | SC  |     |       | ST |   | Total |
|                              |         |                     |        |       | М   | F   | Т   | М     | F  | Т |       |
| Mushroom Production          | 4       | 49                  | 12     | 61    | 58  | 4   | 62  | 0     | 0  | 0 | 123   |
| Bee-keeping                  |         |                     |        |       |     |     |     |       |    |   |       |
| Integrated farming           |         |                     |        |       |     |     |     |       |    |   |       |
| Seed production              |         |                     |        |       |     |     |     |       |    |   |       |
| Production of organic inputs |         |                     |        |       |     |     |     |       |    |   |       |
| Integrated Farming           |         |                     |        |       |     |     |     |       |    |   |       |
| Planting material production | 4       | 20                  | 0      | 20    | 19  | 0   | 19  | 2     | 0  | 2 | 41    |
| Vermi-culture                |         |                     |        |       |     |     |     |       |    |   |       |
| Sericulture                  |         |                     |        |       |     |     |     |       |    |   |       |
| Protected cultivation of     |         |                     |        |       |     |     |     |       |    |   |       |
| vegetable crops              |         |                     |        |       |     |     |     |       |    |   |       |
| Commercial fruit production  |         |                     |        |       |     |     |     |       |    |   |       |
| Repair and maintenance of    | 5       | 85                  | 0      | 85    | 25  | 0   | 25  | 0     | 0  | 0 | 110   |
| farm machinery and           |         |                     |        |       |     |     |     |       |    |   |       |
| implements                   |         |                     |        |       |     |     |     |       |    |   |       |
| Nursery Management of        |         |                     |        |       |     |     |     |       |    |   |       |
| Horticulture crops           |         |                     |        |       |     |     |     |       |    |   |       |
| Training and pruning of      |         |                     |        |       |     |     |     |       |    |   |       |
| orchards                     |         |                     |        |       |     |     |     |       |    |   |       |
| Value addition               |         |                     |        |       |     |     |     |       |    |   |       |
| Production of quality animal |         |                     |        |       |     |     |     |       |    |   |       |
| products                     |         |                     |        |       |     |     |     |       |    |   |       |
| Dairying                     |         |                     |        |       |     |     |     |       |    |   |       |
| Sheep and goat rearing       |         |                     |        |       |     |     |     |       |    |   |       |
| Quail farming                |         |                     |        |       |     |     |     |       |    |   |       |
| Piggery                      |         |                     |        |       |     |     |     |       |    |   |       |
| Rabbit farming               |         |                     |        |       |     |     |     |       |    |   |       |
| Poultry production           | 2       | 18                  | 0      | 18    | 12  | 0   | 12  | 0     | 0  | 0 | 30    |
| Ornamental fisheries         |         |                     |        |       |     |     |     |       |    |   |       |
| Composite fish culture       |         |                     |        |       |     |     |     |       |    |   |       |
| Freshwater prawn culture     |         |                     |        |       |     |     |     |       |    |   |       |
| Shrimp farming               |         |                     |        |       |     |     |     |       |    |   |       |
| Pearl culture                |         |                     |        |       |     |     |     |       |    |   |       |
| Cold water fisheries         |         |                     |        |       |     |     |     |       |    |   |       |
| Fish harvest and processing  |         |                     |        |       |     |     |     |       |    |   |       |
| technology                   |         |                     |        |       |     |     |     |       |    |   |       |
| Fry and fingerling rearing   |         |                     |        |       |     |     |     |       |    |   |       |
| Small scale processing       |         |                     |        |       |     |     |     |       |    |   |       |
| Post Harvest Technology      | -       |                     | •      |       |     |     |     | ~     |    |   |       |
| Tailoring and Stitching      | 7       | 0                   | 35     | 35    | 0   | 175 | 175 | 0     | 0  | 0 | 210   |
| Rural Crafts                 | 7       | 0                   | 189    | 189   | 0   | 21  | 21  | 0     | 0  | 0 | 210   |
| Others, if any               |         |                     |        |       |     |     |     |       |    |   |       |
| TOTAL                        | 29      | 172                 | 236    | 408   | 114 | 200 | 314 | 2     | 0  | 2 | 724   |

Table - 3 BArea-wise distribution of On + Off Campus Training Courses for Rural<br/>Youth (regular + sponsored + vocational)

| Thematic Area   | No. of  | No. of Participants |        |       |    |    |    |   |    |   |       |
|---|---------|---------------------|--------|-------|----|----|----|---|----|---|-------|
|   | Courses |                     | Others |       |    |    |    |   |    |   | Grand |
|   |         | Male                | Female | Total |    | SC |    |   | ST |   | Total |
|   |         |                     |        |       | Μ  | F  | Т  | Μ | F  | Т |       |
| Productivity enhancement in field crops               | 2       | 41                  | 0      | 41    | 8  | 0  | 8  | 0 | 0  | 0 | 49    |
| Integrated Pest Management                            |         |                     |        |       |    |    |    |   |    |   |       |
| Integrated Nutrient management                        | 1       | 22                  | 0      | 22    | 6  | 0  | 6  | 1 | 0  | 1 | 28    |
| Rejuvenation of old orchards                          |         |                     |        |       |    |    |    |   |    |   |       |
| Protected cultivation technology                      |         |                     |        |       |    |    |    |   |    |   |       |
| Formation and Management of SHGs                      |         |                     |        |       |    |    |    |   |    |   |       |
| Group Dynamics and farmers organization               |         |                     |        |       |    |    |    |   |    |   |       |
| Information networking among farmers                  |         |                     |        |       |    |    |    |   |    |   |       |
| Capacity building for ICT application                 | 1       | 25                  | 0      | 25    | 5  | 0  | 5  | 0 | 0  | 0 | 30    |
| Care and maintenance of farm machinery and implements |         |                     |        |       |    |    |    |   |    |   |       |
| WTO and IPR issues                                    | 1       | 18                  | 0      | 18    | 4  | 0  | 4  | 0 | 0  | 0 | 22    |
| Management in farm animals                            | 1       | 8                   | 2      | 10    | 17 | 3  | 20 | 0 | 0  | 0 | 30    |
| Livestock feed and fodder production                  |         |                     |        |       |    |    |    |   |    |   |       |
| Household food security                               |         |                     |        |       |    |    |    |   |    |   |       |
| Women and Child care                                  |         |                     |        |       |    |    |    |   |    |   |       |
| Low cost and nutrient efficient diet designing        |         |                     |        |       |    |    |    |   |    |   |       |
| Production and use of organic inputs                  | 1       | 24                  | 0      | 24    | 5  | 0  | 5  | 0 | 0  | 0 | 29    |
| Gender mainstreaming through<br>SHGs                  |         |                     |        |       |    |    |    |   |    |   |       |
| Any other (Sustainable aquaculture)                   | 1       | 34                  | 0      | 34    | 5  | 0  | 5  | 0 | 0  | 0 | 39    |
| Total   | 8       | 172                 | 2      | 174   | 49 | 3  | 52 | 1 | 0  | 1 | 227   |

Table - 3 CArea-wise distribution of On + Off Campus Training Courses for In-serviceExtension Personnel (regular + sponsored )

 Table - 4 Numbers of Extension Activities and Beneficiaries

| Nature of Extension     | No. of     |      | Farmers | 6     | Exte | nsion Off | icials |      | Total  |       |
|-------------------------|------------|------|---------|-------|------|-----------|--------|------|--------|-------|
| Activity                | activities | Male | Female  | Total | Male | Female    | Total  | Male | Female | Total |
| Field Day               | 2          | 105  | -       | 105   | 18   | 1         | 19     | 123  | 1      | 124   |
| Kisan Mela              |            |      |         |       |      |           |        |      |        |       |
| Kisan Ghosthi           |            |      |         |       |      |           |        |      |        |       |
| Exhibition              | 2          | 150  | 50      | 200   | 10   | 2         | 12     | 160  | 52     | 212   |
| Film Show               | 5          | 80   | 15      | 95    | 5    | 3         | 8      | 85   | 18     | 103   |
| Method                  | 3          | 75   | 15      | 90    | 4    | 1         | 5      | 79   | 16     | 95    |
| Demonstrations          |            |      |         |       |      |           |        |      |        |       |
| (seed drill/ jute fibre |            |      |         |       |      |           |        |      |        |       |
| extractor)              |            |      |         |       |      |           |        |      |        |       |
| Farmers Seminar         |            |      |         |       |      |           |        |      |        |       |
| Workshop                |            |      |         |       |      |           |        |      |        |       |
| Group meetings          |            |      |         |       |      |           |        |      |        |       |
| Lectures delivered      | 5          | 120  | 20      | 140   | 5    | -         | 5      | 125  | 20     | 145   |
| as resource persons     |            |      |         |       |      |           |        |      |        |       |
| Newspaper               | 7          |      |         |       |      |           |        |      |        |       |
| coverage                |            |      |         |       |      |           |        |      |        |       |
| Radio talks             |            |      |         |       |      |           |        |      |        |       |
| TV talks                | 1          |      |         |       |      |           |        |      |        |       |
| Popular articles        | 3          |      |         |       |      |           |        |      |        |       |

| Extension Literature | 10                     | 586  | 154 | 740      |    |    |    | 586  | 154 | 740      |
|----------------------|------------------------|------|-----|----------|----|----|----|------|-----|----------|
| Advisory Services    | 229                    | 119  | 30  | 229      |    |    |    | 119  | 30  | 229      |
| Scientific visit to  | 50                     | 324  | 42  | 366      |    |    |    | 324  | 42  | 366      |
| farmers field        |                        |      |     |          |    |    |    |      |     |          |
| Farmers visit to KVK | 50                     | 620  | 70  | 690      |    |    |    | 620  | 70  | 690      |
| Diagnostic visits    | 30                     | 80   | 0   | 80       |    |    |    | 80   | 0   | 80       |
| Exposure visits      | 2                      | 60   | 0   | 60       |    |    |    | 60   | 0   | 60       |
| Ex-trainees          |                        |      |     |          |    |    |    |      |     |          |
| Sammelan             |                        |      |     |          |    |    |    |      |     |          |
| Soil health Camp     |                        |      |     |          |    |    |    |      |     |          |
| Animal Health        | 13                     | 641  | 47  | 688      |    |    |    | 641  | 47  | 688      |
| Camp                 |                        |      |     | families |    |    |    |      |     | families |
| Agri mobile clinic   |                        |      |     |          |    |    |    |      |     |          |
| Soil test campaigns  |                        |      |     |          |    |    |    |      |     |          |
| Farm Science Club    | 15                     | 150  | 20  | 170      |    |    |    | 150  | 20  | 170      |
| Conveners meet       |                        |      |     |          |    |    |    |      |     |          |
| Self Help Group      | 5                      | 0    | 120 | 120      |    |    |    | 0    | 120 | 120      |
| Conveners meetings   |                        |      |     |          |    |    |    |      |     |          |
| Mahila Mandals       | 2                      | 0    | 20  | 20       |    |    |    | 0    | 20  | 20       |
| Conveners meetings   |                        |      |     |          |    |    |    |      |     |          |
| Celebration of       | (2) 15 <sup>th</sup>   | 21   | 48  | 69       |    |    |    | 21   | 48  | 69       |
| important days       | August and             |      |     |          |    |    |    |      |     |          |
| (specify)            | 26 <sup>th</sup> April |      |     |          |    |    |    |      |     |          |
|                      | (World Vet.            |      |     |          |    |    |    |      |     |          |
|                      | Day)                   |      |     |          |    |    |    |      |     |          |
| Any Other (Farmer    | 1                      | 150  | 50  | 200      | 20 | 5  | 25 | 170  | 55  | 225      |
| participation in     |                        |      |     |          |    |    |    |      |     |          |
| inauguration         |                        |      |     |          |    |    |    |      |     |          |
| programme of         |                        |      |     |          |    |    |    |      |     |          |
| Trainees hostel)     |                        |      |     |          |    |    |    |      |     |          |
| Total                | 437                    | 3281 | 701 | 4062     | 62 | 12 | 74 | 3343 | 713 | 4136     |

# Table - 5 A Productions of Seeds

| Sl. No.                  | Сгор             | Variety             | Quantity (q)                 | Value (Rs.) | Provided<br>to No. of<br>Farmers |
|--------------------------|------------------|---------------------|------------------------------|-------------|----------------------------------|
| CEREALS                  | Paddy            | MTU 7029<br>CR 1010 | 150                          | 225000      | 100                              |
|                          | Paddy straw      | MTU 7029<br>CR 1010 | 101                          | 6060        | -                                |
| PULSES                   |                  |                     |                              |             |                                  |
| VEGETABLES               | Brinjal seedling | Muktokeshi          | 6500 nos.                    | 1950        | 15                               |
| FLOWER CROPS             | Gladiolus        | Different varieties | 300 corms and 5 kg corm lets | Not sold    | -                                |
| Spices & plantation crop | Turmeric         | BH- 4               | 2.0                          | -           | -                                |
| OTHERS (Specify)         | -                | -                   | -                            | -           | -                                |

### **SUMMARY**

| Sl. No.            | Сгор             | Quantity (q)                 | Value (Rs.) | Provided to<br>No. of<br>Farmers |
|--------------------|------------------|------------------------------|-------------|----------------------------------|
| CEREALS            | Rice             | 150                          | 225000      | 100                              |
| VEGETABLES         | Brinjal seedling | 6500 nos.                    | 1950        | 15                               |
| FLOWER CROPS       | Gladiolus        | 300 corms and 5 kg corm lets | -           | -                                |
| Spice & plantation | Turmeric         | 2.0                          | -           | -                                |
| OTHERS (Specify    | -                | -                            | -           | -                                |

## Table - 5 B Production of planting/seedling materials of Fruits/Vegetables/Forest Species

| Sl. No.     | Crop               | Variety    | Quantity   | Value     | Provided to No. of Farmers |  |  |  |  |  |
|-------------|--------------------|------------|------------|-----------|----------------------------|--|--|--|--|--|
|             |                    |            | (NOS.)     | ( 1n Ks.) |                            |  |  |  |  |  |
| I. FRUITS   |                    |            |            |           |                            |  |  |  |  |  |
| Total       |                    |            |            |           |                            |  |  |  |  |  |
|             | II. VEGETABLES     |            |            |           |                            |  |  |  |  |  |
| 1           | Brinjal            | Muktokeshi | 6500 nos.  | 1950      | 15                         |  |  |  |  |  |
|             | seedling           |            |            |           |                            |  |  |  |  |  |
| Total       |                    |            |            | 1950      | 15                         |  |  |  |  |  |
|             |                    |            | III. SPICE | S         |                            |  |  |  |  |  |
| Total       | Turmeric           | BH 4       | 2.0 q      | -         | -                          |  |  |  |  |  |
|             |                    |            | rhizome    |           |                            |  |  |  |  |  |
|             | IV. FOREST SPECIES |            |            |           |                            |  |  |  |  |  |
| Total       |                    |            |            |           |                            |  |  |  |  |  |
|             |                    |            |            |           |                            |  |  |  |  |  |
|             |                    | V. O       | RNAMENTA   | L CROPS   |                            |  |  |  |  |  |
| 1           | Gladiolus          | Different  | 300 corms  | -         | -                          |  |  |  |  |  |
|             |                    |            | and 5kg    |           |                            |  |  |  |  |  |
|             |                    |            | corm lets  |           |                            |  |  |  |  |  |
| Total       | 1                  |            |            | -         | -                          |  |  |  |  |  |
|             | •                  | VI.        | PLANTATIO  | N CROPS   |                            |  |  |  |  |  |
| Total       |                    |            |            |           |                            |  |  |  |  |  |
| VII. OTHERS |                    |            |            |           |                            |  |  |  |  |  |

#### **SUMMARY**

| Sl. No. | Сгор             | Quantity (Nos.) | Value<br>( in Rs.) | Provided to<br>No. of Farmers |
|---------|------------------|-----------------|--------------------|-------------------------------|
| I       | FRUITS           |                 |                    |                               |
| II      | Brinjal seedling | 6500 nos.       |                    | 15                            |
|         |                  |                 | 1950               |                               |
| IV      | Turmeric         | 2.0             | -                  | -                             |
| v       | ORNAMENTAL CROPS | 300 corms and   | -                  | -                             |
|         | (Gladiolus)      | 5kg corm lets   |                    |                               |
|         | TOTAL            |                 | 1950               | 15                            |

Table -5 CProduction of bio products

| Sl. No.      | Product | Species | Species Quantity |      | Value | Provided  |
|--------------|---------|---------|------------------|------|-------|-----------|
|              | Name    |         | No               | (kg) | (Rs.) | to No. of |
|              |         |         |                  | Υ Đ, |       | Farmers   |
|              |         |         |                  |      |       |           |
| I. BIOAGENTS |         |         |                  |      |       |           |

### SUMMARY

| Sl. No. | Product Name           | Species | Qua | ntity | Value (Rs.) | Provided<br>to No. of |
|---------|------------------------|---------|-----|-------|-------------|-----------------------|
|         |                        |         | NO  | (Kg)  |             | Farmers               |
| Ι       | BIOAGENTS              |         |     |       |             |                       |
| II      | <b>BIO FERTILIZERS</b> |         |     |       |             |                       |

| Table 5 Livestock mat | terials |
|-----------------------|---------|
|-----------------------|---------|

| Sl. No.       | Туре       | Breed  | Quantity |     | Value | Provided to No. of |
|---------------|------------|--------|----------|-----|-------|--------------------|
|               |            |        | (Nos     | Kgs | (Rs.) | Farmers            |
| III. POULTRY  | Duck feed  | KC     | -        | 185 | 2220  | 18                 |
| IV. FISHERIES | IMC fry    | Rohu,  | -        | 463 | 16980 | 45                 |
|               | fingerling | catla  |          |     |       |                    |
|               |            | mrigal |          |     |       |                    |

# SUMMARY

| Sl. No. | Туре         | Breed                    | Quantity |     | Value (Rs.) | Provided to No. of Farmers |
|---------|--------------|--------------------------|----------|-----|-------------|----------------------------|
|         |              |                          | Nos      | Kgs |             |                            |
| Ι       | CATTLE       |                          |          |     |             |                            |
| II      | SHEEP & GOAT |                          |          |     |             |                            |
| III     | POULTRY      | KC feed                  |          | 185 | 2220        | 18                         |
| IV      | FISHERIES    | Rohu,<br>catla<br>mrigal |          | 463 | 16980       | 45                         |
| V       | OTHERS       |                          |          |     |             |                            |
|         | TOTAL        |                          |          | 648 | 19200       | 63                         |

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