# ANNUAL REPORT 2015 – 16

## 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>

## PROFORMA FOR ANNUAL REPORT 2015 (April 2015 to March 2016)

#### **1. GENERAL INFORMATION ABOUT THE KVK**

#### 1.1. Name and address of KVK with phone, fax and e-mail

Name: KrishiVigyan Kendra, Burdwan

| Address              | Telep        | phone        | E mail               |
|----------------------|--------------|--------------|----------------------|
| Bud Bud, Burdwan-713 | Office -     | Fax -        | kvkburdwan@gmail.com |
| 403.                 | 0343 2513651 | 0343 2513651 | Web:                 |
| West Bengal          |              |              | www.kvkcrijaf.org.in |

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

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

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

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

| Name                | Telephone / Contact |             |                             |  |  |
|---------------------|---------------------|-------------|-----------------------------|--|--|
|                     | Residence           | Mobile      | Email                       |  |  |
| Dr. D. Ghorai (I/C) | 033-25772766        | 09433122515 | dipankarghoraikvk@gmail.com |  |  |

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

#### 1.5. Staff Position (as on 1st April, 2016)

| Sl.<br>No. | Sanctioned post                | Name of the incumbent       | Designation                       | Discipline   | Pay<br>Scale with present basic                 | Date of joining | Permanent<br>/Temporary | Category<br>(SC/ST/<br>OBC/<br>Others) |
|------------|--------------------------------|-----------------------------|-----------------------------------|--------------|---|-----------------|-------------------------|--|
| 1          | Programme<br>Coordinator       | VACANT                      |                                   |              |   |                 |                         |  |
| 2          | Subject Matter<br>Specialist   | Dr. Dipankar Ghorai         | I/C PC and SMS                    | Agriculture  | Rs. 15600-39100<br>GP – 6600, Basic – Rs. 29600 | 26.04.2006      | Permanent               | GEN                                    |
| 3          | Subject Matter<br>Specialist   | Dr. Golam Ziauddin          | SMS                               | Fisheries    | Rs. 15600-39100<br>GP – 6600, Basic – Rs. 29600 | 28.04.2006      | Permanent               | GEN                                    |
| 4          | Subject Matter<br>Specialist   | VACANT                      |                                   |              |   |                 |                         |  |
| 5          | Subject Matter<br>Specialist   | Dr. Subrata Sarkar          | SMS                               | Horticulture | Rs. 15600-39100<br>GP – 6600, Basic – Rs. 29600 | 04.05.2006      | Permanent               | GEN                                    |
| 6          | Subject Matter<br>Specialist   | VACANT                      |                                   |              |   |                 |                         |  |
| 7          | Subject Matter<br>Specialist   | Dr. Monica S. Singh         | SMS                               | Agril. Extn. | Rs. 15600-39100<br>GP – 5400, Basic – Rs. 22950 | 09.07.2012      | Permanent               | GEN                                    |
| 8          | Programme Assistant            | Mr. Sandipan Garai          | Prog. Assistant                   | Agriculture  | Rs. 9300-34800<br>GP – 4600, Basic – Rs. 18640  | 18.04.2006      | Permanent               | OBC                                    |
| 9          | Computer<br>Programmer         | Sk Golam Rasul              | Prog. Assistant<br>(Computer)     | Computer     | Rs. 9300-34800<br>GP – 4600, Basic – Rs. 18640  | 10.04.2006      | Permanent               | GEN                                    |
| 10         | Farm Manager                   | Mr. Soumya Sarathi<br>Kundu | Prog. Assistant (Farm<br>Manager) | Agriculture  | Rs. 9300-34800<br>GP – 4600, Basic – Rs. 17560  | 06.01.2007      | Permanent               | GEN                                    |
| 11         | Accountant /<br>Superintendent | VACANT                      |                                   |              |   |                 |                         |  |
| 12         | Stenographer                   | Mr. Sushanta Dey            | Stenographer Gr - III             |              | Rs.5200-20200<br>GP – 2400, Basic – Rs. 12970   | 20.03.2006      | Permanent               | GEN                                    |
| 13.        | Driver                         | Mr. Joydeep Pal             | Driver – cum -<br>mechanic        |              | Rs.5200-20200<br>GP – 2400, Basic – Rs. 11030   | 06.07.2006      | Permanent               | GEN                                    |
| 14.        | Driver                         | Mr. Santi Nath Pal          | Driver- cum -<br>mechanic         |              | Rs.5200-20200<br>GP – 2400, Basic – Rs. 11030   | 10.07.2006      | Permanent               | OBC                                    |
| 15.        | Supporting staff               | Mr. Shyamal Bhanja          | Supporting staff                  | Peon         | Rs. 5200-20200<br>GP – 1800, Basic - Rs. 9170   | 25.02.2006      | Permanent               | GEN                                    |
| 16.        | Supporting staff               | VACANT (from 19.04.2016)    |                                   |              |   |                 |                         |  |

#### 1.6. Total land with KVK (in 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       |

: 18 ha

Total area should be matched with breakup

#### 1.7. Infrastructure Development:

#### A) Buildings and others

| S.  | Name of        | Not     | Complete | Complet  | Complet  | Totally | Plinth  | Under  | Source of |
|-----|----------------|---------|----------|----------|----------|---------|---------|--------|-----------|
| No. | building       | yet     | d up to  | ed up to | ed up to | compl   | area    | use or | funding   |
|     | _              | started | plinth   | lintel   | roof     | eted    | (sq.m)  | not*   | _         |
|     |                |         | level    | level    | level    |         |         |        |           |
| 1.  | Administrativ  |         |          |          |          |         | 552     | Under  | ICAR      |
|     | e              |         |          |          |          |         |         | use    |           |
|     | Building       |         |          |          |          |         |         |        |           |
| 2.  | Farmers        |         |          |          |          |         | 306     | Under  | ICAR      |
|     | Hostel         |         |          |          |          |         |         | use    |           |
| 3.  | Staff Quarters |         |          |          |          |         | 400     | Under  | ICAR      |
|     | (6)            |         |          |          |          |         |         | use    |           |
| 4.  | Piggery unit   |         |          |          |          |         |         |        |           |
| 5   | Fencing        |         |          |          |          |         | 925 m   | Under  | ICAR      |
|     |                |         |          |          |          |         |         | use    |           |
| 6   | Rain Water     |         |          |          |          |         | 7000    | Under  | MGNREGA   |
|     | harvesting     |         |          |          |          |         |         | use    |           |
|     | structure      |         |          |          |          |         |         |        |           |
| 7   | Threshing      |         |          |          |          |         |         |        |           |
|     | floor          |         |          |          |          |         |         |        |           |
| 8   | Farm godown    |         |          |          |          |         |         |        |           |
| 9.  | Dairy unit     |         |          |          |          |         |         |        |           |
| 10. | Poultry unit   |         |          |          |          |         |         |        |           |
| 11. | Goatary unit   |         |          |          |          |         | 50      | Under  | ICAR      |
|     |                |         |          |          |          |         |         | use    |           |
| 12. | Mushroom       |         |          |          |          |         |         |        |           |
|     | Lab            |         |          |          |          |         |         |        |           |
| 13. | Mushroom       |         |          |          |          |         |         |        |           |
|     | production     |         |          |          |          |         |         |        |           |
|     | unit           |         |          |          |          |         |         |        |           |
| 14. | Greenhouse     |         |          |          |          |         | 1008    | Under  | RKVY      |
|     |                |         |          |          |          |         | sqm     | use    |           |
| 15. | Soil test Lab  |         |          |          |          |         | Instrum | Under  | ICAR      |
|     |                |         |          |          |          |         | ental   | use    |           |
|     |                |         |          |          |          |         | support |        |           |
| 16  | Others         |         |          |          |          |         |         |        |           |
|     | Feed           |         |          |          |          |         | Instrum | Under  | ATMA      |
|     | preparation    |         |          |          |          |         | ental   | use    |           |
|     | Unit           |         |          |          |          |         | support |        |           |
|     | Integrated     |         |          |          |          |         | 6000    | Under  | ICAR      |
|     | farming        |         |          |          |          |         |         | use    |           |

| system         |   |        |           |      |
|----------------|---|--------|-----------|------|
| Vermicompost   |   | 60     | Under     | ATMA |
| unit           |   |        | use       |      |
| Portable carp  |   | 30     | Operati   | ICAR |
| hatchery       |   |        | on yet to |      |
|                |   |        | start     |      |
| Deep tube well | ν | Depth  | Under     | ICAR |
|                |   | 80 ft. | use       |      |

\* If not in use then since when and reason for non-use B) Vehicles

| Type of vehicle        | Year of purchase | Cost (Rs.) | Total km. Run<br>(2014-2015) | Present status       |
|------------------------|------------------|------------|------------------------------|----------------------|
| TATA SUMO WB 40 C 9883 | 01.04.1999       |            | 24371 km                     | In working condition |
| Tractor WB 39 3472     | 01.04.1999       |            | 154 hrs                      | In working condition |

C) Equipment & AV aids

| Name of equipment       | Year of<br>purchase | Cost (Rs.) | Present status       | Source of fund |
|-------------------------|---------------------|------------|----------------------|----------------|
| a. Lab equipment        | •                   |            |                      |                |
| Flame photometer        | 2006-07             | 29813.00   | In working condition | ICAR           |
| Spectrophotometer       | 2006-07             | 46283.00   | Out of order         | ICAR           |
| Shaker                  | 2006-07             | 20756.00   | In working condition | ICAR           |
| Hot air oven            | 2006-07             | 5344.00    | In working condition | ICAR           |
| Hot plate               | 2007-08             | 14000.00   | Out of order         | ICAR           |
| Glass distillation unit | 2007-08             | 28000.00   | Out of order         | ICAR           |
| Conductivity bridge     | 2007-08             | 10000.00   | In working condition | ICAR           |
| pH meter                | 2007-08             | 9563.00    | In working condition | ICAR           |
| Electronic balance      | 2007-08             | 12375.00   | In working condition | ICAR           |
| Grinder                 | 2007-08             | 19500.00   | In working condition | ICAR           |
| Kjeldahl N analyser     | 2008-09             | 250474.00  | In working condition | ICAR           |
| Atomic absorption       | 2012-13             | 944832.00  | In working condition | ICAR           |
| spectrophotometer       |                     |            | _                    |                |
| b. Farm machinery       |                     |            |                      |                |
| Tractor                 | 01.04.1999          |            | In working condition | ICAR           |
| Power reaper            | 2011-12             | 85476.00   | In working condition | ICAR           |
| c. AV Aids              |                     |            |                      |                |
| LCD projector           | 2008-09             | 109000.00  | In working condition | ICAR           |
| Computer with           | 2009 -10            | 49920.00   | In working condition | ICAR           |
| accessories (2 Nos.)    |                     |            |                      |                |
| LCD TV                  | 2010-11             | 13110.00   | In working condition | ICAR           |
| Digital Camera          | 2010-11             | 14790.00   | In working condition | ICAR           |

D) Farm implements

| Name of equipment  | Year of purchase | Cost (Rs.) | Present status       | Source of fund |
|--------------------|------------------|------------|----------------------|----------------|
| CRIJAF Nail weeder | 2012-13          | 3400.00    | In working condition | ICAR           |
| Brush cutter       | 2011-12          | 22360.00   | In working condition | ICAR           |
| Seed drill         | 2011-12          | 66500.00   | In working condition | ICAR           |
| Rotovator          | 2011-12          | 107120.00  | In working condition | ICAR           |
| Sprayer            | 2011-12          | 7300.00    | In working condition | ICAR           |
| Paddy thresher     | 2011-12          | 12000.00   | In working condition | ICAR           |
| Castrator for goat | 2013-14          | 4000.00    | In working condition | ATMA           |

| Sl.No. | Date     | Number of    | Salient Recommendations                       | Action taken            | If not conducted, |
|--------|----------|--------------|---|-------------------------|-------------------|
|        |          | Participants |   |                         | state reason      |
| 1.     | 23.09.15 | 37           | • Action taken report should be quantitative. | It was followed.        |                   |
|        |          |              | • Inclusion of soil                           | Action will be taken in |                   |
|        |          |              | parameters in impact                          | due course.             |                   |
|        |          |              | assessment.                                   |                         |                   |
|        |          |              | • Change in social                            | Have been analysed      |                   |
|        |          |              | parameters of jute                            |                         |                   |
|        |          |              | farmers using improved                        |                         |                   |
|        |          |              | technologies to be                            |                         |                   |
|        |          |              | assessed.                                     | Analla haa haar         |                   |
|        |          |              | Azolla to be included in                      | Azolla nas been         |                   |
|        |          |              | production                                    | vermicompost            |                   |
|        |          |              | production.                                   | production unit on      |                   |
|        |          |              |   | experimental basis The  |                   |
|        |          |              |   | result is encouraging.  |                   |
|        |          |              | • Social fish farming                         | Composite Fish culture  |                   |
|        |          |              | should be stressed upon.                      | has been initiated in   |                   |
|        |          |              | L   | different places by     |                   |
|        |          |              |   | providing fish seed     |                   |
|        |          |              |   | under demonstration     |                   |
|        |          |              |   | programmes.             |                   |
|        |          |              | • Evaluation of potentiality                  | Action will be taken in |                   |
|        |          |              | of annual moringa                             | due course.             |                   |
|        |          |              | cultivation in KVK farm.                      |                         | Leal of meater    |
|        |          |              | • High value vegetables                       |                         | facilities or     |
|        |          |              | should be done                                |                         | demand for        |
|        |          |              | should be done.                               |                         | broccoli in those |
|        |          |              |   |                         | areas.            |
|        |          |              | Collaborative animal                          | Animal health camps     |                   |
|        |          |              | health camps with IVRI,                       | were organized with     |                   |
|        |          |              | NDRI to be done.                              | IVRI, NDRI etc.         |                   |
|        |          |              | • Farmers database with                       | It has been initiated.  |                   |
|        |          |              | requisite data on socio-                      | Needs more data base    |                   |
|        |          |              | economic changes to be                        | on socioeconomic        |                   |
|        |          |              | made.   | changes.                |                   |
|        |          |              | • Integrated technology                       | Has been done in        |                   |
|        |          |              | demonstration on jute                         | Purbasthali - 1         |                   |
|        |          |              | snould be done.                               |                         |                   |
|        |          |              | • Success story should be                     |                         |                   |
|        |          |              | Detentiality of cultivation                   | Opion cultivation war   |                   |
|        |          |              | • rotentiality of cultivation                 | explored through FLD    |                   |
|        |          |              | explored                                      | and OFT during Kharif   |                   |
|        |          |              | explored.                                     | as well as rabi season  |                   |
|        | 1        |              |   |                         |                   |

### 1.8. Details SAC meeting\* conducted in the year

\* Salient recommendation of SAC in bullet form Attach a copy of SAC proceedings along with list of participants

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| Sl.<br>no. | Item                               | Information   |
|------------|------------------------------------|---|
| 1          | Major Farming<br>system/enterprise | Rice production system<br>Dairy -poultry production system<br>Poultry<br>Goatery<br>Duckery<br>Fishery<br>Rice - potato-fodder- livestock production system<br>Rice -vegetable-Rice production system<br>Jute-rice production system<br>Fish-duck-banana production system  |
| 2          | Agro-climatic Zone                 | <ul> <li>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. </li> <li>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</li></ul>   |
|            |                                    | Average annual rainfall 1100-1400 mm,<br>Soil type- sandy loam, coarse in texture<br>Undulating land with low soil depth, sometimes hard layer present in<br>sub surface<br>Medium to highly acidic soil  |
| 3          | Agro ecological situation          | <ul> <li>Agro ecological sub region 12.3 under the AES 12.0 (Eastern Plateau)</li> <li>I Chhotonagpur Plateau and Garhjat hills, hot dry sub humid ecosystem with red &amp; laterite soils and LGP 150-180 days covering the blocks of Durgapur &amp; Asansol. Main crops are, paddy, mustard, vegetables, pulse etc. The area covers 186154 ha</li> <li>II. Moist and sub humid ecosystem with alluvial soil with LGP of 180-200 days covering the blocks of Burdwan (N), Burdwan (S), Kalna &amp; Katwa, Main crops paddy, mustard, sesame, potato, jute, vegetables etc. The area covers 517532 ha</li> </ul>  |
| 4          | Soil type                          | <ul> <li>1.Gangetic alluvial - 206423 ha</li> <li>Soil order is entisols. Sandy loam to clay loam, fine in texture, slightly acidic to neutral in reaction. Rich in potash and medium to rich in available plant nutrients.</li> <li>2. Vindhya alluvial - 311000 ha</li> <li>Soil order is entisol Sandy loam to clay loam, fine to moderate coarse in texture, acidic to neutral in reaction.</li> <li>3. Red and Lateritic - 186054 ha</li> <li>Soil orders are mainly alfisol and ultisol. Coarse gritty soil 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.</li> </ul> |

2.a. District level data on agriculture, livestock and farming situation (2015-16)

| 5 | Productivity of major 2-3        | Aman paddy – 32.73                          |
|---|----------------------------------|---|
|   | crops under cereals, pulses,     | Boro paddy – 26.95                          |
|   | oilseeds, vegetables, fruits and | Wheat - 21.99                               |
|   | others                           | Pulses – 8.80                               |
|   |                                  | Oilseeds – 10.01                            |
|   |                                  | Jute & other fibres ** - 18.7 lakh bales    |
|   |                                  | Potato - 212.49                             |
| 6 | Mean yearly temperature,         | Mean yearly temperature: Max – 31, Min – 18 |
|   | rainfall, humidity of the        | Relative humidity : 76                      |
|   | district                         | Total rainfall: 1136 mm                     |
| 7 | Production of major livestock    | Milk : 464080 tonnes, 280 kg/year           |
|   | products like milk, egg, meat    | Egg: 2672.40 lakh egg, 85 no. eggs/year     |
|   | etc.                             | Meat : 4000 MT                              |

2.b. Details of operational area / villages (2015-16)

| S.N | Taluk        | Block   | Village                                      | Major crops<br>&  | Major problem identified  | Identified<br>Thrust Areas   |
|-----|--------------|---------|--|---|---|--|
|     |              |         |  | enterprises   |   |  |
| 1   | Durg<br>apur | Kanksa, | Keten ,<br>Palashb<br>oni,<br>sundra<br>riya | Paddy,<br>potato,<br>mustard,<br>sesame,<br>lentil,<br>vegetable,<br>cattle,<br>poultry,<br>duck, goat, | <ul> <li><u>Bio-physical</u></li> <li>Low productivity of all major crops</li> <li>Non-availability of quality seed / planting materials</li> <li>Marginal soil</li> <li>Limited water resources for irrigation</li> <li>Indiscriminate and inappropriate use of chemical fertilizer</li> </ul> | <ul> <li>Integration         <ul> <li>good                 agronomic                 practices</li> <li>Providing                 quality                 seeds/planting                 materials</li> <li>Diversificati</li> </ul> </li> </ul>                                       |
|     |              | Andal   | Moira  | pig fish<br>Kharif<br>paddy,<br>wheat,<br>mustard,<br>brinjal, cattle,<br>buffalo, goat<br>and poultry  | Inadequate descriptive/prolific<br>breed of livestock<br>Poor feed resources<br><u>Socio- economic</u><br>Lack of credit facilities<br>Lack of awareness regarding good<br>agronomic /husbandry<br>practices<br>Very restricted livelihood option   | <ul> <li>on of land use</li> <li>Soil health<br/>management<br/>like organic<br/>farming etc.</li> <li>Livestock<br/>productivity<br/>improvement<br/>and health care</li> <li>Efficient<br/>utilization of<br/>water bodies</li> <li>Entrepreneu<br/>rship<br/>development</li> </ul> |

|    |                          | I              | I  |  |  |  |
|----|--------------------------|----------------|--|--|--|--|
| 2  | Durg<br>apur             | Galsi-I        | Jaguli<br>para ,<br>Silla,<br>Ramgo<br>palpur,<br>Atpara,<br>Raipur,<br>Goligra<br>mKond<br>aipur<br>Manikb<br>azar-<br>Jharul,<br>Nurko<br>na<br>Nabak<br>handa | Kharif<br>Paddy, boro<br>paddy,<br>mustard,<br>fodder, cattle,<br>poultry,<br>duck, goat,<br>fish                              | <ul> <li><u>Bio-physical</u></li> <li>Low productivity of all major crops <ul> <li>Non-availability of quality seed materials</li> <li>High cost involvement for major crops</li> <li>Indiscriminate and inappropriate use of chemical fertilizers</li> <li>Low input of organics &amp; biofertiliser</li> <li>Lesser extent of crop diversification Low productivity of livestock &amp; poultry</li> <li>Poor feed resources</li> <li><u>Socio-economic</u></li> <li>Lack of credit facilities</li> <li>Inadaguata house hold income</li> </ul> </li> </ul>                 | <ul> <li>Providing<br/>quality<br/>seeds/planting<br/>material</li> <li>Diversificati<br/>on of land use</li> <li>Entrepreneu<br/>rship<br/>development</li> <li>Organic<br/>farming</li> <li>Health care</li> <li>Improvemen<br/>t of women led<br/>vocations</li> <li>Popularizati</li> </ul>  |
| 3. | Burd<br>wan<br>Nort<br>h | Galsi-II       | Garam<br>ba,<br>Pursora  | Aus paddy,<br>kharif paddy,<br>jute, potato,<br>mustard,<br>vegetable<br>cattle,<br>poultry,<br>Goat, broiler<br>farming, fish | • madequate nouse hold income generation   | on of balanced<br>feeding<br>practices   |
| 4. |                          | Aushgra<br>m-I | Dignag<br>ar,<br>Woyari<br>shpur   | Kharif<br>paddy,<br>Potato, lentil,<br>mustard, til,<br>fodder, cattle,<br>goat, poultry,<br>duck, fish                        | Bio-physical         Low productivity of all major crops         Non-availability of quality seed / planting materials         Poor soil health         Limited water resources for irrigation         Indiscriminate and inappropriate use of chemical fertilizer         Inadequate descriptive/prolific         breed of livestock         Poor feed resources         Inadequate health care         Socio- economic         Lack of credit facilities         Lack of awareness regarding good agronomic /husbandry practices         Very restricted livelihood option | i. Integration of<br>good agronomic<br>practices<br>ii.Providing<br>quality<br>seeds/planting<br>materials<br>iii.Diversificatio<br>n of land use<br>iv.Restoration of<br>soil health<br>through organic<br>manuring.<br>v.Livestock<br>productivity<br>improvement<br>and health care<br>vi.Efficient<br>utilization of<br>water bodies<br>vii.Entrepreneur<br>ship<br>development<br>viii. Promotion<br>of efficient water<br>use technology<br>ix. technology |

|    |      |       |        | 1              | · · ·                                       |                    |
|----|------|-------|--------|----------------|---|--------------------|
| 5. | Kaln | Kalna | Bhagna | Paddy, jute,   | <u>Bio-physical</u>                         | Integration of     |
|    | а    |       | para,  | onion,         | Low productivity of all major crops         | good agronomic     |
|    |      |       | Kalna, | fodder,        | • Non-availability of quality seed /        | practices          |
|    |      |       | Durgap | mustard,       | planting materials                          | ii.Production of   |
|    |      |       | ur,    | banana,        | <ul> <li>Nutrient Deficient soil</li> </ul> | quality            |
|    |      |       | Nandai | potato,        | • Indiscriminate and inappropriate          | seeds/planting     |
|    |      |       |        | mango,         | use of chemical fertilizer/                 | materials in PPP   |
|    |      |       |        | cattle, sheep, | pesticides                                  | mode               |
|    |      |       |        | goat, pig,     | Inadequate descriptive/prolific             | iii.Diversificatio |
|    |      |       |        | poultry        | breed of livestock                          | n of land use      |
|    |      |       |        |                | Poor feed resources                         | iv.Restoration of  |
|    |      |       |        |                | Inadequate health care                      | soil health        |
|    |      |       |        |                | <u>Socio- economic</u>                      | through organic    |
|    |      |       |        |                | Lack of credit facilities                   | manuring.          |
|    |      |       |        |                |   | v.Livestock        |
|    |      |       |        |                | Lack of awareness regarding good            | productivity       |
|    |      |       |        |                | agronomic /husbandry                        | improvement        |
|    |      |       |        |                | practices                                   | and health care    |
|    |      |       |        |                | Very restricted livelihood option           | vi.Efficient       |
|    |      |       |        |                | Less of post harvest operation              | utilization of     |
|    |      |       |        |                |   | water bodies       |
|    |      |       |        |                |   | vii.Entrepreneur   |
|    |      |       |        |                |   | ship               |
|    |      |       |        |                |   | development        |
|    |      |       |        |                |   | viii. Promotion    |
|    |      |       |        |                |   | of efficient water |
|    |      |       |        |                |   | use technology     |
|    |      |       |        |                |   | ix. Promotion of   |
|    |      |       |        |                |   | Improved post      |
|    |      |       |        |                |   | harvest            |
|    |      |       |        |                |   | technology         |

| 6. | Purbast | Kurich | Paddy, jute,   | Bio-physical   | Integration of     |  |
|----|---------|--------|----------------|--|--------------------|--|
|    | hali- I | a      | onion,         | Low productivity of all major crops                    | good agronomic     |  |
|    |         |        | fodder,        | <ul> <li>Non-availability of quality seed /</li> </ul> | practices          |  |
|    |         |        | mustard,       | planting materials                                     | ii. Production o   |  |
|    |         |        | banana,        | • Indiscriminate and inappropriate                     | quality            |  |
|    |         |        | potato,        | use of chemical fertilizer/                            | seeds/planting     |  |
|    |         |        | mango,         | pesticides   | materials in PPP   |  |
|    |         |        | cattle, sheep, | <ul> <li>Very low ground water table</li> </ul>        | mode               |  |
|    |         |        | goat, pig,     | Inadequate descriptive/prolific                        | iii.               |  |
|    |         |        | poultry        | breed of livestock                                     | Diversification    |  |
|    |         |        |                | Poor feed resources                                    | of land use        |  |
|    |         |        |                | Inadequate health care                                 | iv. Restoration of |  |
|    |         |        |                | <u>Socio- economic</u>                                 | soil health        |  |
|    |         |        |                | <ul> <li>Lack of awareness regarding good</li> </ul>   | through organic    |  |
|    |         |        |                | agronomic /husbandry practices                         | manuring.          |  |
|    |         |        |                | <ul> <li>Very restricted livelihood option</li> </ul>  | v. Livestock       |  |
|    |         |        |                | <ul> <li>Less of post harvest operation</li> </ul>     | productivity       |  |
|    |         |        |                |  | improvement        |  |
|    |         |        |                |  | and health care    |  |
|    |         |        |                |  | vi. Efficient      |  |
|    |         |        |                |  | utilization of     |  |
|    |         |        |                |  | water bodies       |  |
|    |         |        |                |  | vii.               |  |
|    |         |        |                |  | Entrepreneurshi    |  |
|    |         |        |                |  | p development      |  |
|    |         |        |                |  | viii. Promotion    |  |
|    |         |        |                |  | of efficient water |  |
|    |         |        |                |  | use technology     |  |
|    |         |        |                |  | ix. Promotion of   |  |
|    |         |        |                |  | Improved post      |  |
|    |         |        |                |  | harvest            |  |
|    |         |        |                |  | technology of      |  |
|    |         |        |                |  | jute and other     |  |
|    |         |        |                |  | crops              |  |

| - | 1 |         |         |                |  |                    |
|---|---|---------|---------|----------------|--|--------------------|
| 7 |   | Memari- | Satchac | Paddy,         | <u>Bio-physical</u>                                    | Integration of     |
|   |   | I & II  | hia,    | onion,         | Low productivity of all major crops                    | good agronomic     |
|   |   |         | Debup   | fodder,        | <ul> <li>Non-availability of quality seed /</li> </ul> | practices          |
|   |   |         | ur,     | mustard,       | planting materials                                     | ii. Production of  |
|   |   |         | Khanro  | banana,        | <ul> <li>Nutrient Deficient soil</li> </ul>            | quality            |
|   |   |         | ,       | potato,        | • Indiscriminate and inappropriate                     | seeds/planting     |
|   |   |         |         | mango,         | use of chemical fertilizer/                            | materials in PPP   |
|   |   |         |         | cattle, sheep, | pesticides   | mode               |
|   |   |         |         | goat, pig,     | Inadequate descriptive/prolific                        | iii.               |
|   |   |         |         | poultry        | breed of livestock                                     | Diversification    |
|   |   |         |         |                | Poor feed resources                                    | of land use        |
|   |   |         |         |                | Inadequate health care                                 | iv. Restoration of |
|   |   |         |         |                | <u>Socio- economic</u>                                 | soil health        |
|   |   |         |         |                | <ul> <li>Lack of credit facilities</li> </ul>          | through organic    |
|   |   |         |         |                |  | manuring.          |
|   |   |         |         |                | • Lack of awareness regarding good                     | v. Livestock       |
|   |   |         |         |                | agronomic /husbandry practices                         | productivity       |
|   |   |         |         |                | <ul> <li>Very restricted livelihood option</li> </ul>  | improvement        |
|   |   |         |         |                | <ul> <li>Less of post harvest operation</li> </ul>     | and health care    |
|   |   |         |         |                |  | vi. Efficient      |
|   |   |         |         |                |  | utilization of     |
|   |   |         |         |                |  | water bodies       |
|   |   |         |         |                |  | vii.               |
|   |   |         |         |                |  | Entrepreneurshi    |
|   |   |         |         |                |  | p development      |
|   |   |         |         |                |  | viii. Promotion    |
|   |   |         |         |                |  | of efficient water |
|   |   |         |         |                |  | use technology     |
|   |   |         |         |                |  | ix. Promotion of   |
|   |   |         |         |                |  | Improved post      |
|   |   |         |         |                |  | harvest            |
|   |   |         |         |                |  | technology         |

| 8 | Mo | onthe | Bhelia, | Paddy,         | <u>Bio-physical</u>                         | Integration of     |
|---|----|-------|---------|----------------|---|--------------------|
|   | sw | ar    | Bheti   | onion,         | Low productivity of all major crops         | good agronomic     |
|   |    |       |         | fodder,        | • Non-availability of quality seed /        | practices          |
|   |    |       |         | mustard,       | planting materials                          | ii.Production of   |
|   |    |       |         | banana,        | <ul> <li>Nutrient Deficient soil</li> </ul> | quality            |
|   |    |       |         | potato,        | • Indiscriminate and inappropriate          | seeds/planting     |
|   |    |       |         | mango,         | use of chemical fertilizer/                 | materials in PPP   |
|   |    |       |         | cattle, sheep, | pesticides                                  | mode               |
|   |    |       |         | goat, pig,     | Inadequate descriptive/prolific             | iii.Diversificatio |
|   |    |       |         | poultry        | breed of livestock                          | n of land use      |
|   |    |       |         |                | Poor feed resources                         | iv.Restoration of  |
|   |    |       |         |                | Inadequate health care                      | soil health        |
|   |    |       |         |                | <u>Socio- economic</u>                      | through organic    |
|   |    |       |         |                | Lack of credit facilities                   | manuring.          |
|   |    |       |         |                |   | v.Livestock        |
|   |    |       |         |                | Lack of awareness regarding good            | productivity       |
|   |    |       |         |                | agronomic /husbandry                        | improvement        |
|   |    |       |         |                | practices                                   | and health care    |
|   |    |       |         |                | Very restricted livelihood option           | vi.Efficient       |
|   |    |       |         |                | Less of post narvest operation              | utilization of     |
|   |    |       |         |                |   | water bodies       |
|   |    |       |         |                |   | vii.Entrepreneur   |
|   |    |       |         |                |   | ship               |
|   |    |       |         |                |   | development        |
|   |    |       |         |                |   | viii. Promotion    |
|   |    |       |         |                |   | of efficient water |
|   |    |       |         |                |   | use technology     |
|   |    |       |         |                |   | ix. Promotion of   |
|   |    |       |         |                |   | Improved post      |
|   |    |       |         |                |   | harvest            |
|   |    |       |         |                |   | technology         |

#### 2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS in 2015-16 for its development and action plan

| Name of village | Block             | Action taken for development  |
|-----------------|-------------------|---|
| Kasba           | Galsi-I           | <ul> <li>Training programmes on different aspects of Horticulture</li> <li>OFT on varietal trial on cauliflower FLD on improved variety of tomato</li> <li>OFT and FLD of kharif and rabi onion</li> <li>Awareness camp on horticulture and agriculture</li> <li>field day and exposure visit of farmers</li> </ul>   |
| Bamunia         | Memari -II        | <ul><li>PRA data collection</li><li>Awareness camp, informal discussion</li></ul>   |
| Barmuria        | Galsi- II         | <ul><li>PRA data collection</li><li>Training, informal discussion</li></ul>   |
| Kuricha         | Purbasthali-<br>I | <ul> <li>On farm trial and demonstration on improved production technology on jute</li> <li>Integrated farming system involving jute has been done</li> <li>On farm trial and demonstration on improved production technology of paddy</li> <li>Culmination of improved jute production technology through OFT, FLD, field day and exposure visit of farmers</li> </ul> |

|           |            | • Formation of farmers club   |
|-----------|------------|---|
|           |            | Awareness camp on family nutrition  |
| Debipur   | Memari-I   | Skill development programme of tribal farmers and farm women  |
|           |            | • Technology demonstration in the theme of region specific mineral mixture supplementation to deshi cow |
|           |            | Technology assessment through OFT in nutrient management of duck  |
|           |            | Animal health camp and awareness camp.  |
|           |            | <ul> <li>Diagnostic field visit of SMSs</li> </ul>  |
|           |            | <ul> <li>Technology guidance through Farmers, portal</li> </ul>   |
| Warishpur | Ausgram II | Formation of farmers club   |
|           |            | Awarness Camp   |
|           |            | Diagnostic field visit of SMSs  |
|           |            | Technology guidance through Farmers, portal   |
|           |            | Training to farmers and Farm women  |

#### 2. d. SansadAdarsh Gram Yojona

i) Name of the village under SansadAdarsha Gram Yojona: Siddhabari, Salanpur block

ii) Contribution of KVK in the programme:

- Skill development programme of tribal farmers and farm women
- Technology demonstration in the theme of region specific mineral mixture supplementation to deshi cow
- Animal health camp and awareness camp.
- Cage fishery culture in collaboration with CIFRI
- Diagnostic field visit of SMSs
- Technology guidance through Farmers, portal
- Jai Kisan Jai Vigyan Diwas celebration

#### 2.1 Priority thrust areas

| S No | Thrust area  |
|------|--|
| 1    | Integration of good agronomic practices for cultivation of field and vagatable group for     |
| 1.   | integration of good aground plactices 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 through organic farming, balanced and integrated fertilization etc.   |
| 5.   | Livestock productivity improvement and health care   |
| 6.   | Efficient utilization of water bodies through composite fish culture and improved            |
|      | management practices   |
| 7.   | Efficient resource utilization and output maximization through integrated farming system     |
|      | approach   |
| 8.   | Entrepreneurship development for family income generation                                    |
| 9.   | Empowerment of women through post harvest operation  |
| 10   | Strengthening of animal feed resources through fodder production/ quality fodder seed        |
|      | production   |
| 11   | Use of ICT in agriculture in area of climate based agro advice, disease diagnosis, SMS       |
|      | service  |

#### **3. TECHNICAL ACHIEVEMENTS**

#### 3. A. Details of target and achievement of mandatory activities by KVK during 2015-16

|                | O           | FT                |             | FLD                |    |                   |             |
|----------------|-------------|-------------------|-------------|--------------------|----|-------------------|-------------|
|                |             |                   |             |                    |    |                   |             |
| Number of OFTs |             | Number of farmers |             | Number of FLDs     |    | Number of farmers |             |
| Target         | Achievement | Target            | Achievement | Target Achievement |    | Target            | Achievement |
| 6              | 6           | 62                | 62          | 15                 | 15 | 180               | 738         |

|        | Trai          | ning   | Extension activities |        |                  |              |      |
|--------|---------------|--------|----------------------|--------|------------------|--------------|------|
|        |               |        |                      |        |                  |              |      |
| Numbe  | er of Courses | Number | of Participants      | Numbe  | er of activities | Number of    |      |
|        |               | _      |                      |        |                  | participants |      |
| Target | Achievement   | Target | Achievement          | Target | Achievement      | Target       | Achi |
|        |               |        |                      |        |                  |              | evem |
|        |               |        |                      |        |                  |              | ent  |
| 125    | 106           | 3000   | 2529                 | 75     | 80               | 4780         | 5000 |

| Seed proc | luction (q) | Planting material (Nos.) |             |  |  |
|-----------|-------------|--------------------------|-------------|--|--|
|           |             |                          |             |  |  |
| Target    | Achievement | Target                   | Achievement |  |  |
| 250       | 250 250     |                          | 50000       |  |  |

#### 3.1 Achievements on technologies assessed and refined

## OFT-1

| 1. | Title of On farm Trial                  | Assessment of effectiveness of different bio-fertilisers on<br>productivity of lentil |  |  |  |  |  |
|----|---|---|--|--|--|--|--|
| 2. | Problem diagnosed                       | Low productivity of lentil  |  |  |  |  |  |
| 3. | Details of technologies selected for    | Farmers' practice: Only inorganics (20:50:20 N:P:K)                                   |  |  |  |  |  |
|    | assessment/refinement                   | Technology - 1: FP + PSB  |  |  |  |  |  |
|    |   | <b>Technology - 2</b> : FP + rhizobium  |  |  |  |  |  |
|    |   | <b>Technology - 3</b> : FP + PSB + rhizobium  |  |  |  |  |  |
| 4. | Source of Technology                    | IIPR, Kanpur  |  |  |  |  |  |
| 5. | Production system and thematic area     | Rice based production system; Technology  |  |  |  |  |  |
| 6. | Performance of the Technology with      | Results indicated that application of combination of PSB and                          |  |  |  |  |  |
|    | performance indicators                  | Rhizobium (seed treatment) was significantly more effective                           |  |  |  |  |  |
|    |   | than single application. Application of biofertilizer can increase                    |  |  |  |  |  |
|    |   | productivity significantly over farmers' practice.                                    |  |  |  |  |  |
| 7. | Final recommendation for micro level    | Farmers should apply PSB and rhizobium for lentil cultivation                         |  |  |  |  |  |
|    | situation                               |   |  |  |  |  |  |
| 8. | Constraints identified and feedback for | Nil   |  |  |  |  |  |
|    | research                                |   |  |  |  |  |  |
| 9. | Process of farmers participation and    | Training and awareness; Farmers were highly satisfied with                            |  |  |  |  |  |
|    | their reaction                          | performance of improved cultivars   |  |  |  |  |  |

Thematic area: Integratd nutrient management

Problem definition: Low productivity of lentil

Technology assessed: Application of biofertilizer

Table:

| Technology option  | No. of | Yield(q/h | Cost of     | Gross   | Net      | BC    |
|--|--------|-----------|-------------|---------|----------|-------|
|  | trials | a)        | cultivation | return  | return   | ratio |
|  |        |           | (Rs./ha)    | (Rs/ha) | (Rs./ha) |       |
| <b>Farmers' practice:</b> Only inorganics (20:50:20 N:P:K) | 5      | 7.4       | 12250       | 31080   | 18830    | 2.54  |
| Technology - 1: FP + PSB                                   |        | 8.2       | 13100       | 34440   | 21340    | 2.63  |
| Technology - 2: FP + Rhizobium                             |        | 8.6       | 13100       | 36120   | 23020    | 2.76  |
| <b>Technology - 3</b> : FP + PSB + Rhizobium               |        | 10.1      | 13950       | 42420   | 28470    | 3.04  |
| LSD at 5%  |        | 0.73      |             |         |          |       |

**Results: Results indicated that application of combination of PSB and Rhizobium (seed treatment) was significantly more effective than single application. Application of biofertilizer can increase productivity significantly over farmers' practice.** 

## OFT-2

| 1. | Title of On farm Trial                  | Evaluation of effectiveness different retting methodologies on yield and economics of jute |
|----|---|--|
| 2. | Problem diagnosed                       | Inappropriate retting of jute leading to low grade fibre and hence low return              |
| 3. | Details of technologies selected for    | Farmers' practice: Conventional retting  |
|    | assessment/refinement                   | Technology - 1 to be assessed: Steeping of jute jak with sand bag                          |
|    |   | Technology - 2 to be assessed: TO2 + CRIJAF Sona   |
| 4. | Source of Technology                    | CRIJAF, Barrackpore  |
| 5. | Production system and thematic area     | Rice based production system; Technology   |
| 6. | Performance of the Technology with      | Evaluation of effectiveness of different retting methodologies on yield and                |
|    | performance indicators                  | economics of jute revealed that retting of jute using sand bag only and sand               |
|    |   | bag combined with CRIJAF SONA resulted in higher return for fibres being                   |
|    |   | of better quality in comparison to FP (av. of Rs 4450/- per atl in case of using           |
|    |   | sand bag with CRIIAF sona. Rs 4164/- in case of sand bag only in                           |
|    |   | comparison to EP which fetched Rs 3750/- per gtl). There was no                            |
|    |   | companison to 11 which received Rs. 57507 - per qui.j. There was no                        |
|    |   |  |
| 7. | Final recommendation for micro level    | Farmers are recommended to use sand bag for steeping of jute <i>jak</i> and                |
|    | situation                               | application of CRIJAF SONA and in case of non availability of CRIJAF                       |
|    |   | SONA they should use sand bag for must in case of jute retting                             |
| 8. | Constraints identified and feedback for | Farmers use to rett jute in community pond where everyone giving jute for                  |
|    | research                                | retting should use the above technology. This is often a constraint since all              |
|    |   | the tarmers can not be made aware of the problem at one go.                                |
| 9. | Process of farmers participation and    | Training and awareness; Farmers were highly satisfied with performance of improved         |
|    | their reaction                          | cunivars   |

#### Thematic area: Post harvest management

Problem definition: Inappropriate retting of jute leading to low grade fibre and hence low return

Technology assessed: Improved retting technology for jute

Table:

| Technology option   | No.    | of | Yield  | Cost of     | Gross   | Net return | BC ratio |
|---|--------|----|--------|-------------|---------|------------|----------|
|   | trials |    | (q/ha) | cultivation | return  |            |          |
|   |        |    |        | (Rs./ha)    | (Rs/ha) | (Rs./ha)   |          |
| Farmers' practice: Conventional retting                         | 7      |    | 29.4   | 44500       | 110250  | 65750      | 2.48     |
| <b>Technology - 1 to be assessed:</b> Steeping of jute jak with |        |    | 30.2   | 46250       | 125753  | 79503      | 2.72     |
| sand bag  |        |    |        |             |         |            |          |
| Technology - 2 to be assessed: TO2 + CRIJAF Sona                |        |    | 31.5   | 47000       | 140175  | 93175      | 2.98     |
|   |        |    | ns     |             |         |            |          |

#### **Results:**

Evaluation of effectiveness of different retting methodologies on yield and economics of jute revealed that retting of jute using sand bag only and sand bag combined with CRIJAF SONA resulted in higher return for fibres being of better quality in comparison to FP (av. of Rs 4450/- per qtl in case of using sand bag with CRIJAF sona, Rs. 4164/- in case of sand bag only in comparison to FP which fetched Rs. 3750/- per qtl.). There was no significant difference in yield.

## OFT-3

| 1. | Title of On farm Trial                  | Evaluation of performance of different varieties of early           |  |  |  |  |  |
|----|---|---|--|--|--|--|--|
|    |   | cauliflower   |  |  |  |  |  |
| 2. | Problem diagnosed                       | Poor curd formation leading to reduction in yield during early      |  |  |  |  |  |
|    | Ŭ                                       | cauliflower cultivation in the farmer's field due to selection of   |  |  |  |  |  |
|    |   | inappropriate varieties.  |  |  |  |  |  |
| 3. | Details of technologies selected for    | FP: Local variety   |  |  |  |  |  |
|    | assessment/refinement                   | TO 1: Trisha  |  |  |  |  |  |
|    | ,                                       | TO 2 : Barsati  |  |  |  |  |  |
|    |   | <b>TO 3 :</b> Dawn 175  |  |  |  |  |  |
| 4. | Source of Technology                    | BCKV  |  |  |  |  |  |
| 5. | Production system and thematic area     | Irrigated vegetable based production system                         |  |  |  |  |  |
|    |   |   |  |  |  |  |  |
| 6. | Performance of the Technology with      | Result indicated that Trisha as well as Dawn 175 showed better      |  |  |  |  |  |
|    | performance indicators                  | responds in terms of early curd initiation. Trisha was best in curd |  |  |  |  |  |
|    | -                                       | compactness and yield.  |  |  |  |  |  |
| 7. | Final recommendation for micro level    | Trisha should be cultivated as early cauliflower.                   |  |  |  |  |  |
|    | situation                               |   |  |  |  |  |  |
| 8. | Constraints identified and feedback for | Availability of any variety in a particular area depends on local   |  |  |  |  |  |
|    | research                                | dealers. More varieties should be tried for selection of better     |  |  |  |  |  |
|    |   | quality of curd.  |  |  |  |  |  |
| 9. | Process of farmers participation and    | Through training and field level demonstration. Farmers were        |  |  |  |  |  |
|    | their reaction                          | satisfied with the performance of the technology.                   |  |  |  |  |  |

Thematic area: Varietal trial

Problem definition: Poor curd formation leading to reduction in yield during early cauliflower cultivation

Technology assessed: Different varieties like Trisha, Barsati, Dawn 175

#### Table 3A: Results

| Technology    | No. of | Y            | ield component |            | Disease/    | Yield | Cost of     | Gross return | Net return | BC    |
|---------------|--------|--------------|----------------|------------|-------------|-------|-------------|--------------|------------|-------|
| option        | trials | No. of       | No. of         | Test wt.   | insect pest |       | cultivation | (Rs/ha)      |            | ratio |
|               |        | effective    | spikelet per   | (100       | incidence   | (q/ha |             |              | (Rs./ha)   |       |
|               |        | tillers/hill | panicle        | grain wt.) | (%)         | )     | (Rs./ha)    |              |            |       |
| FP: Local     | 8      |              |                |            |             | 197   | 57900       | 108500       | 50600      | 1.87  |
| variety       |        |              |                |            |             |       |             |              |            |       |
| TO 1: Trisha  |        |              |                |            |             | 247   | 59600       | 137000       | 77400      | 2.29  |
| TO 2: Barsati |        |              |                |            |             | 209   | 59600       | 118000       | 58400      | 1.98  |
| TO 3: Dawn    |        |              |                |            |             | 235   | 59600       | 127600       | 68000      | 2.14  |
| 175           |        |              |                |            |             |       |             |              |            |       |
| CD(0.05)      |        |              |                |            |             | 22.6  |             |              |            |       |

Results: Result indicated that Trisha as well as Dawn 175 showed better responds in terms of early curd initiation. Trisha was best in curd compactness and yield.

## OFT-4

| 1. | Title of On farm Trial                                    | Evaluation of performance of different varieties of Rabi onion  |  |  |  |  |
|----|---|---|--|--|--|--|
| 2. | Problem diagnosed   | Cultivation of days old varieties of onion with poor bulb   |  |  |  |  |
|    |   | the farmer's field of Burdwan district  |  |  |  |  |
| 3. | Details of technologies selected for                      | FP: Sukhsagar   |  |  |  |  |
|    | assessment/refinement                                     | TO 1: Agrifound Light Red   |  |  |  |  |
|    |   | <b>TO 2 :</b> NSC 301B  |  |  |  |  |
| 4. | Source of Technology                                      | BCKV  |  |  |  |  |
| 5. | Production system and thematic area                       | Irrigated vegetable based production system   |  |  |  |  |
| 6. | Performance of the Technology with performance indicators | Result indicated that Agrifound Light Red showed better<br>performance in terms of yield and economy followed by NSC<br>301B in comparison to commonly practiced Sukhsagar. |  |  |  |  |
| 7. | Final recommendation for micro level situation            | Agrifound Light Red should be cultivated for rabi season.   |  |  |  |  |
| 8. | Constraints identified and feedback for                   | Availability of any variety in a particular area depends on local   |  |  |  |  |
|    | research  | dealers. Their keeping qualities need to be studied   |  |  |  |  |
| 9. | Process of farmers participation and                      | Through training and field level demonstration. Farmers were  |  |  |  |  |
|    | their reaction  | satisfied with the performance of the technology.   |  |  |  |  |

#### Thematic area: Varietal trial

Problem definition: Cultivation of days old varieties of onion with poor bulb formation capacity leading to reduction in yield of rabi onion

Technology assessed: Different varieties like Sukhsagar, Agrifound Light Red and NSC 301B

#### Table 4A: Results

| Technology option         | No. of<br>trials | Yield(q/<br>ha) | Cost of<br>cultivation(Rs.<br>/ha) | Gross return<br>(Rs/ha) | Net return<br>(Rs./ha) | BC ratio |
|---------------------------|------------------|-----------------|------------------------------------|-------------------------|------------------------|----------|
| FP: Sukhsagar             | 15               | 195             | 81500                              | 165500                  | 84000                  | 2.03     |
| TO 1: Agrifound Light Red |                  | 210             | 82800                              | 185500                  | 102700                 | 2.24     |
| TO 2: NSC 301B            |                  | 203             | 83500                              | 172500                  | 89000                  | 2.06     |
| CD(0.05)                  |                  | 21.6            |                                    |                         |                        |          |

Results: Result indicated that Agrifound Light Red showed better performance in terms of yield and economy followed by NSC 301B in comparison to commonly practiced Sukhsagar. Though their keeping qualities need to be studied.

## OFT-5

| 1. | Title of On farm Trial                  | Effect of different supplementary feed application methods in fish ponds in Burdwan |
|----|---|---|
| 2. | Problem diagnosed                       | Lack of awareness of fish farmers regarding usefulness of feed                      |
|    |   | application methods in fish ponds leading to poor environments                      |
|    |   | for fish ponds.   |
| 3. | Details of technologies selected for    | FP: Occasional use of feed by broadcasting fish feed                                |
|    | assessment/refinement                   | <b>TO 1:</b> application of feed by rope and bag                                    |
|    |   | TO 2: application of feed by pole and bag   |
| 4. | Source of Technology                    | ICAR-CIFA,BBSR  |
| 5. | Production system and thematic area     | semi intensive fish based production system and composite fish                      |
|    |   | culture management practice   |
| 6. | Performance of the Technology with      | Feeding by pole and bag performed better in terms of growth rate                    |
|    | performance indicators                  | and total yield at this farming situation   |
| 7. | Final recommendation for micro level    | Regular checking of water pH is recommended along with                              |
|    | situation                               | application of lime.  |
| 8. | Constraints identified and feedback for | Lack of Awareness of application of fish feed in fish ponds.                        |
|    | research                                |   |
| 9. | Process of farmers participation and    | Through training and field level demonstration. Farmers were                        |
|    | their reaction                          | satisfied with the performance of the technology.                                   |

Problem definition: *low fish* production of IMC is due to lack of awareness regarding application of fishfeed in fish ponds.

Technology assessed or refined (as the case may be): evaluation of fish production by application of fishfeed by different system.

Fish production by application of fishfeed were evaluated under semiintensive management practices by fishers of Burdwan district. The trial was conducted with fingerlings of IMC. The trial is very successful in farming condition of Burdwan 8 months fish production data have been presented but results of this trial is very much encouraging to the farmers.

| Technology Assessed                  | <b>Production per</b><br><b>unit</b> (Avg. fish<br>production in<br>t/ha/yr) | Cost of<br>production<br>(Rs./ha) | Gross return<br>(Rs./ha) | Net Return<br>(Profit) in<br>Rs./ha/yr) | B:C Ratio<br>(Gross return<br>: cost) |
|--------------------------------------|--|-----------------------------------|--------------------------|---|---------------------------------------|
| <b>FP:</b> Occasional use of feed by | 1.9  | 50575                             | 58161                    | 7586                                    | 1.15                                  |
| broadcasting fish feed               |  |                                   |                          |   |                                       |
| TO 1: application of feed by         | 2.5  | 62843                             | 84838                    | 21995                                   | 1.35                                  |
| rope and bag.                        |  |                                   |                          |   |                                       |
| TO 2: application of feed by         | 3.4  | 75315                             | 106947                   | 31632                                   | 1.42                                  |
| pole and bag                         |  |                                   |                          |   |                                       |

#### Table 5A.: Effect of different technology options on productivity of fish and economic parameters

#### Table 5B. : Effect of different technology options on fish production.

| Technology options                              | Production per unit (Avg. fish | Length (cm)      | Wt of fish (kg)   |
|---|--------------------------------|------------------|-------------------|
|   | production in t/ha/yr)         |                  |                   |
| FP: Occasional use of feed by broadcasting fish | 1.9 <sup>c</sup>               | 7.2 <sup>b</sup> | 0.45 <sup>c</sup> |
| feed  |                                |                  |                   |
| TO 1: application of feed by rope and bag.      | 2.5 <sup>b</sup>               | 9.0 <sup>b</sup> | 0.58 <sup>b</sup> |
| TO 2: application of feed by pole and bag       | 3.4ª                           | 12.5ª            | 0.89a             |

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

Fish is the predominantly major crop of Burdwan. Feed application methods among farmers are grossly unbalanced because of lack of knowledge. Fish farmers do not get adequate yield owing to unscientific management practices. Traditionally the farmers cast the feed mixture into the ponds for easy operation (production- 1.9 t/ha). The pole and bag methods (demand bag feeding) comes out as the best option of feeding fishes as far as IMC is concerned ( 3.4 t/ha). The rope and bag methods are seen as second best feeding methods which gives max. production of fish (2.5 t/ha).

## OFT-6

| 1. | Title of On farm Trial                  | Constraint analysis of Burdwan farmers regarding low adoption of SRI |
|----|---|--|
|    |   |  |
| 2. | Problem diagnose                        | Very low adoption of SRI technology                                  |
| 3. | Details of technologies selected for    | FP: Farmers knowing regarding SRI                                    |
|    | assessment/refinement                   | TO1: Farmers practicing SRI Technology                               |
|    |   | TO2: Farmers discontinued practicing SRI Technology                  |
| 4. | Source of Technology                    | -  |
| 5. | Production system and thematic area     | Constraint analysis  |
| 6. | Performance of the Technology with      | Physical Constraints, Psychological Constraints and Technological    |
|    | performance indicators                  | Constraints  |
| 7  | Final recommendation                    | FarmI had more physical constraints. Farmers who had                 |
|    |   | discontinued practicing SRI htechnological constraints. Farmers      |
|    |   | who didn't practice SRI had mostly psychological constraints.        |
| 8. | Constraints identified and feedback for | -  |
|    | research                                |  |
| 9  | Process of farmers participation and    | Through structured interview   |
|    | their reaction                          |  |

Thematic area: Constraint Analysis

Problem definition: Very low adoption of SRI technology Technology assessed: FP: Farmers knowing regarding SRI TO1: Farmers practicing SRI Technology TO2: Farmers discontinued practicing SRI Technology

| Sr. | Itom |      | Response |    |
|-----|------|------|----------|----|
| No  | nem  | To I | TO 2     | FP |

|    |                          | Yes<br>No | No       | Yes          | No        | Yes       | No        |
|----|--------------------------|-----------|----------|--------------|-----------|-----------|-----------|
|    |                          | %         |          |              |           |           |           |
| Ι  | Physical Reasons         | •         |          |              |           |           |           |
| 1  | Unavailability of        | 4         | 11       | 12           | 3         | 15        | 0         |
| T  | Labour                   | (26.67 %) | (73.33%) | (80.00%)     | (20.00%)  | (100%)    | 0         |
|    | Irregularity in canal    | 9         | 6        | 13           | 2         | 15        | 0         |
|    | water supply             | (60.00%)  | (40.00%) | (86.67%)     | (13.33%)  | (100%)    | 0         |
|    | Washing out of           | 2         | 13       | 12           | 2         | 15        |           |
| 3  | transplanted seedlings   | (13.33 %) | (86.67%) | 13 (96 679/) | (12.220/) | (100%)    | 0         |
|    | due to heavy rain        |           |          | (00.07 /0)   | (15.55%)  | (100%)    |           |
|    | Unavailability of hybrid | 2         | 13       | 4            | 11        |           |           |
| 4  | soods in time            | (13.33 %) | (86.67%) | (26.67       | (73.33%)  | 4         | 11        |
|    | seeds in time            |           |          | %)           |           |           |           |
|    | Requirement of large     | 11        | 4        | 1/           | 1         | 14        | 1         |
| 5  | quantity of              | (73.33%)  | (26.67%) | (02.23%)     | (6.67%)   | (03 33%)  | (6.67%)   |
|    | FYM/Compost              |           |          | ()3.3370)    | (0.07 /0) | ()3.3370) | (0.07 70) |
|    | Non availability of      | 2         | 13       | 8            | 7         |           |           |
| 6  | Cono Weeder              | (13.33 %) | (86.67%) | (53.33%)     | (46.67    |           |           |
|    |                          |           |          |              | %)        |           |           |
|    | Uncontrolled water       | 15        | 0        | 11           | 4         | 15        |           |
| 7  | situation in low lands   | (100.00%) |          | (73.33%)     | (26.67%)  | (100%)    | 0         |
|    | during kharif            |           |          |              |           | (10070)   |           |
| II | Psychological reasons    | r         | <b>.</b> | 1            | 1         | r         |           |
| 1  | Fear for loss of crop    | 7         | 8        | 9            | 6         | 15        | 0         |
| 1  |                          | (46.67 %) | (53.33%) | (60.00%)     | (40.00%)  | (100%)    | 0         |
| 2  | No faith in one          | 9         | 6        | 5            | 10        | 14        | 1         |
| 2  | seedling/hill concept    | (60.00%)  | (40.00%) | (33.33%)     | (66.67%)  | (93.33%)  | (6.67%)   |
| 3  | Fear for transplanting   | 6         | 9        | 11           | 4         | 15        | 0         |
| 5  | young seedlings          | (40.00%)  | (60.00%) | (73.33%)     | (26.67%)  | (100%)    | U         |

| 4   | Fear for transplanted                           | 9              | 6              | 11             | 4                 | 15             | 0             |
|-----|---|----------------|----------------|----------------|-------------------|----------------|---------------|
| 4   | seedling mortality                              | (60.00 %)      | (40.00%)       | (73.33%)       | (26.67%)          | (100%)         | 0             |
| 5   | Fear for handling new technology                | 4<br>(26.67 %) | 11<br>(73.33%) | 8<br>(53.33%)  | 7<br>(46.67<br>%) | 11<br>(73.33%) | 4<br>(26.67%) |
| III | Technological reason                            |                |                |                |                   |                |               |
| 1   | Complex Nursery management                      | 8<br>(53.33%)  | 7<br>(46.67 %) | 13<br>(86.67%) | 2<br>(13.33%)     | 13<br>(86.67%) | 2<br>(13.33%) |
| 2   | Unable to transplant<br>young seedlings         | 7<br>(46.67%)  | 8<br>(53.33%)  | 13<br>(86.67%) | 2<br>(13.33%)     | 14<br>(93.33%) | 1<br>(6.67%)  |
| 3   | Complication in using markers                   | 14<br>(93.33%) | 1<br>(6.67%)   | 14<br>(93.33%) | 1<br>(6.67%)      |                |               |
| 4   | Handling of cono<br>weeder is tiresome          | 9<br>(60.00%)  | 6<br>(40.00%)  | 11<br>(73.33%) | 4<br>(26.67%)     |                |               |
| 5   | Unable to maintain<br>alternate dry n wet spell | 11<br>(73.33%) | 4<br>(26.67)   | 13<br>(86.67%) | 2<br>(13.33%)     |                |               |
| 6   | Difficult to manage weeds                       | 13<br>(86.67%) | 2<br>(13.33%)  | 14<br>(93.33%) | 1<br>(6.67%)      |                |               |
| 7   | Manage of disease and pest is hard              | 4<br>(26.67%)  | 11<br>(73.33%) | 9<br>(60.00%)  | 6<br>(40.00%)     |                |               |

The study revealed that farmers who were practicing SRI faced constraints such as uncontrolled water situation during monsoon in low land (100%) followed by complication in using markers (93.33%), difficulties in management of weeds (86.67%) and requirement of large amount of FYM/Compost (73.33%). If farmers who have discontinued practicing SRI were seen it was brought to notice that they faced physical constraints such as requirement of large quantity of FYM/Compost (93.33%) and Irregularity in canal water supply and Washing out of transplanted seedlings due to heavy rain both (86.67%). They also faced psychological constraints such as

fear for transplanting youg seedling and seedling mortality (73.33%). Regarding technological constraints 93.33% farmers faced constraints such as complication using markers and difficulty in managing weeds. In respect to farmers knowing regarding SRI but not adopting it every one faced physical and psychological constraints. In technological constraints are seen they were not having any as they had not practically done SRI.

#### 3.2 Achievements of Frontline Demonstrations

#### A. Details of FLDs conducted during 2015-16

Cereals

| Sl.<br>No. | Crop       | Thematic area              | Technology<br>Demonstrated with<br>detailed treatments    | Area (ha) |        | No. of fa<br>demonst | rmers/<br>ration |       | Reasons<br>for<br>shortfall in<br>achieveme |
|------------|------------|----------------------------|---|-----------|--------|----------------------|------------------|-------|---|
|            |            |                            |   | Proposed  | Actual | SC/ST                | Othors           | Total | nt  |
| 1.         | Jute       | Varietal                   | Improved cultivar<br>(cv. CO 58)<br>Local Chk. JRO<br>524 | 10        | 10     | 23                   | 33               | 56    |   |
| 2.         | Jute       | Post harvest<br>management | Improved retting<br>with 'CRIJAF<br>SONA'                 | 6         | 6      | 16                   | 44               | 60    |   |
| 3.         | Mustard    | Nutrient<br>managemen<br>t | Sulfur and boron<br>nutrition                             | 30        | 30     | 45                   | 67               | 112   |   |
| 4.         | Lentil     | Nutrient<br>managemen<br>t | Integrated<br>nutrient<br>management                      | 20        | 20     | 56                   | 69               | 125   |   |
| 5          | Green gram | Varietal                   | Improved variety  | 15        | 15     | 34                   | 75               | 109   |   |
| 6          | Chick pea  | Nutrient<br>managemen<br>t | Integrated<br>nutrient<br>management                      | 5         | 5      | 21                   | 3                | 24    |   |

| 7  | Sesame   | Nutrient<br>managemen<br>t   | Sulfur and boron nutrition   | 30  | 42  | 34 | 126 | 160 |  |
|----|--|--|--|-----|-----|----|-----|-----|--|
| 8  | Onion  | Introduction in<br>Kharif season   | Agrifound Dark Red   | 1   | 1   | 12 | 3   | 15  |  |
| 9  | Tomato   | Improve<br>variety   | Abhilash   | 2   | 2   | 11 | 4   | 15  |  |
| 10 | Banana   | Tissue<br>cultured   | Tissue cultured<br>plantlets of variety<br>Grand Naine   | 1   | 1   | 1  | 6   | 7   |  |
| 11 | Brinjal  | Improve<br>variety   | Bhangar  | -   | 1   | 9  | 6   | 15  |  |
| 12 | Oat as fodder  | Improved<br>agronomic<br>practices   | Improved variety<br>and method of<br>sowing<br>Var. Kent   | 0.3 | 0.3 | -  | 5   | 5   |  |
| 13 | Berseem  | Package of<br>demonstration  | Improved variety,<br>time of sowing,<br>nutrient<br>management,<br>feeding practice                                      | 0.3 | 0.3 |    | 5   | 5   |  |
| 14 | Kitchen<br>Garden<br>(cucurbits,<br>brinjal,<br>chilli,<br>tomato,<br>okra, bean<br>and GLV) | Supplementati<br>on of<br>diversified<br>vegetables to<br>farm families<br>through<br>kitchen garden | Diversified vegetable<br>(cucurbits, brinjal,<br>pumpkin radish,<br>chilli, tomato, okra,<br>bean and GLV) +<br>manuring | 0.2 | 0.4 | 20 | 0   | 20  |  |

Details of farming situation

| Crop       | eason          | arming<br>tuation<br>Irrigated) | il type                  |     | Status of s<br>(Kg/ha)        | oil<br>)         | ious crop       | ring date  | vest date                             | nal rainfall<br>(mm) | of rainy<br>days |
|------------|----------------|---------------------------------|--------------------------|-----|-------------------------------|------------------|-----------------|--|---------------------------------------|----------------------|------------------|
|            | υ              | Fe<br>sit<br>(RF/               | х<br>Х                   | Ν   | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | Prev            | Sow  | Har                                   | Season               | No.              |
| Jute       | Pre<br>kharif  | Irrigated                       | Loamy                    | 240 | 32                            | 220              | Rice/pot<br>ato | April 4 <sup>th</sup> –<br>13 <sup>th</sup> , 2015 | July 17 –<br>30, 2015                 |                      |                  |
| Jute       | Pre<br>kharif  | Irrigated                       | Loamy                    |     |                               |                  | Rice/pot<br>ato | April 4 , 2015                                     | July 19 –<br>2015                     |                      |                  |
| Mustard    | Rabi 15-<br>16 | Irrigated                       | Clay<br>loam to<br>loamy | 263 | 42                            | 208              | Rice            | Nov. 3 - 13,<br>2015                               | Feb 2 –<br>20, 2016                   |                      |                  |
| Lentil     | Rabi 15-<br>16 | Irrigated                       | Clay<br>loam to<br>loamy | 215 | 39                            | 189              | Rice            | Nov. 15 – 20,<br>2015                              | Feb. 15 –<br>Mar 1<br>2016            |                      |                  |
| Green gram | Summer<br>16   | Irrigated                       | Loamy                    | 262 | 56                            | 234              | Potato          | Feb 24 –<br>Mar 5, 2016                            |                                       |                      |                  |
| Chick pea  | Rabi 15-<br>16 | Irrigated                       | Sandy<br>loam            | 237 | 45                            | 214              | Rice            | Nov. 25 – 26,<br>2015                              | Feb. 21 –<br>Feb 25<br>2016           |                      |                  |
| Sesame     | Summer<br>16   | Irrigated                       | Clay<br>loam to<br>loamy | 220 | 42                            | 250              | Potato          | Feb 24 –<br>Mar 5, 2016                            |                                       |                      |                  |
| Onion      | Kharif         | Irrigated                       | Loam                     | 240 | 56                            | 190              | Vegetable<br>s  | Jul. 8-15,<br>2015                                 | Oct. 18,<br>2015 -<br>Nov.10,2<br>015 |                      |                  |
| Tomato     | Rabi           | Irrigated                       | Loam                     | 230 | 52                            | 210              | Vegetable<br>s  | Sept. 1-10,<br>2015                                | Dec. 15,<br>2015 –<br>Feb.20,20<br>16 |                      |                  |
| Banana     | Year<br>round  | Irrigated                       | Loam                     | 210 | 50                            | 190              | Vegetable<br>s  | July 7-14,<br>2014                                 | Aug 1-<br>30, 2015                    |                      |                  |
| Brinjal    | Rabi           | Irrigated                       | Loam                     | 230 | 50                            | 200              | Vegetable<br>s  | Aug 15-19,<br>2015                                 | Dec. 6,<br>2015 –                     |                      |                  |

|                   |               |           |                               |     |    |     |                 |                       | Feb.11,20<br>16                          |  |
|-------------------|---------------|-----------|-------------------------------|-----|----|-----|-----------------|-----------------------|--|--|
| Oat as fodder     | Rabi 2015     | Irrigated | Sandy<br>loam to<br>clay loam | 210 | 50 | 190 | Kharif<br>paddy | 19.12.15-<br>25.12.15 | 1.1.15-<br>10.1.15:<br>1.3.16,<br>8.3.16 |  |
| Berseem           | Rabi, 2015    | Irrigated | Sandy<br>loam to<br>clay loam | 210 | 50 | 180 | Kharif<br>paddy | 18.12.15-<br>22.12.15 | 28.1.16<br>4.2.16:<br>1.3.16,<br>8.3.16  |  |
| Kitchen<br>Garden | Year<br>round | Irrigated | Sandy<br>loam to<br>clay loam | 210 | 50 | 180 |                 | Dec, 15               |  |  |

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

#### Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

| Crop    | Thematic Area | Name of the technology | No. of  | Area | rea Yield (q/ha) % |       |          | *Econo   | mics of de | monstration |      | *Econo  | mics of c | heck   |      |
|---------|---------------|------------------------|---------|------|--------------------|-------|----------|----------|------------|-------------|------|---------|-----------|--------|------|
|         |               | demonstrated           | Farmers | (ha) |                    |       | Increase | (Rs./ha) |            |             |      | (Rs./ha | a)        |        |      |
|         |               |                        |         |      | Demo               | Check |          | Gross    | Gross      | Net         | **   | Gross   | Gross     | Net    | **   |
|         |               |                        |         |      |                    |       |          | Cost     | Return     | Return      | BCR  | Cost    | Return    | Return | BCR  |
| Mustard | Nutrient      | Sulphur and boron      | 112     | 30   | 12.7               | 11.1  | 14.4     | 21250    | 42573      | 21323       | 2.00 | 23400   | 53167     | 29767  | 2.27 |
|         | managment     | nutrition              |         |      |                    |       |          |          |            |             |      |         |           |        |      |
| Sesame  | Nutrient      | Sulphur and boron      | 160     | 42   |                    |       | •        |          |            |             |      |         |           |        |      |
|         | managment     | nutrition              |         |      |                    |       |          |          |            |             |      |         |           |        |      |
| Total   |               |                        | 272     |      |                    |       |          |          |            |             |      |         |           |        |      |

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

#### Pulses Frontline demonstration on pulse crops

| Crop   | Thematic Area | Name of the technology | No. of  | Area | Yield ( | q/ha) | %        | *Econo  | mics of c | heck   |      | *Economics of demonstration |        |        |      |  |  |
|--------|---------------|------------------------|---------|------|---------|-------|----------|---------|-----------|--------|------|-----------------------------|--------|--------|------|--|--|
|        |               | demonstrated           | Farmers | (ha) |         |       | Increase | (Rs./ha | a)        |        |      | (Rs./ha                     | ı)     |        |      |  |  |
|        |               |                        |         |      | Demo    | Check |          | Gross   | Gross     | Net    | **   | Gross                       | Gross  | Net    | **   |  |  |
|        |               |                        |         |      |         |       |          | Cost    | Return    | Return | BCR  | Cost                        | Return | Return | BCR  |  |  |
| Lentil | Disease       | IDM                    | 126     | 20   | 7.8     | 7.1   | 9.85     | 12250   | 30580     | 18330  | 2.50 | 12950                       | 34320  | 21370  | 2.65 |  |  |
|        | management    |                        |         |      |         |       |          |         |           |        |      |                             |        |        |      |  |  |
| Chick  | Disease       | IDM                    | 25      | 5    | 11.0    | 8.2   | 34.1     | 15500   | 37160     | 21660  | 2.40 | 18600                       | 46290  | 27690  | 2.49 |  |  |
| pea    | management    |                        |         |      |         |       |          |         |           |        |      |                             |        |        |      |  |  |
|        | Total         |                        | 251     | 25   |         |       |          |         |           |        |      |                             |        |        |      |  |  |

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

Other crops

| Crop   | Thematic area                    | Name of the                             | No. of<br>Earmor | Area<br>(ba) | Yield (q/ | ha)                       | %<br>change | Other  | tore                                | *Economic | cs of demons | stration (R | s./ha) | *Econor | nics of ch | eck    |      |
|--------|----------------------------------|---|------------------|--------------|-----------|---------------------------|-------------|--|-------------------------------------|-----------|--------------|-------------|--------|---------|------------|--------|------|
|        |                                  | demonstrated                            | raimer           | (112)        | Demons    | Check                     | in          | Demo   | Check                               | Gross     | Gross        | Net         | **     | Gross   | Gross      | Net    | **   |
|        |                                  |   |                  |              | ration    |                           | yield       |  |                                     | Cost      | Return       | Return      | BCK    | Cost    | Return     | Return | BCK  |
| Jute   | Improved<br>variety              | CO 58<br>Local Chk.<br>JRO 524          | 56               | 10           | 31.4      | 28.4                      | 10.6        | 1. PL.<br>ht. 354<br>cm<br>2. BD.<br>1 32 cm | PL. ht.<br>331 cm<br>BD.<br>1.44 cm | 44650     | 119320       | 74670       | 2.67   | 44650   | 107920     | 63270  | 2.42 |
| Jute   | Improved<br>retting              | CRIJAF<br>SONA<br>retting<br>consortium | 62               | 8            | 28.8      | 28.6                      | 0.70        | Grade:<br>4-5                                | Grade:<br>-3                        | 47800     | 126720       | 78920       | 2.65   | 43500   | 107250     | 63750  | 2.47 |
| Rice   | Nutrient<br>management           | Split<br>application of<br>fertilizer   | 15               | 2            | 68.2      | 54.7                      | 24.7        | 1. EBT<br>19.4                               | 1. EBT<br>11.8                      | 44600     | 92070        | 47470       | 2.06   | 43500   | 73845      | 30345  | 1.70 |
| Onion  | Introduction in<br>Kharif season | Agrifound<br>Dark Red                   | 15               | 1            | 190       | No<br>existing<br>variety | -           | -  | -                                   | 115000    | 298000       | 183000      | 2.59   | -       | -          | -      | -    |
| Tomato | Improved<br>variety (F1)         | Abhilash                                | 15               | 2            | 316       | 265                       | 19.2        | -  | -                                   | 69500     | 148000       | 78500       | 2.12   | 65500   | 112000     | 46500  | 1.70 |
| Banana | Tissue cultured<br>plant         | Grand Naine                             | 7                | 1            | 720       | 530                       | 26.4        | -  | -                                   | 92000     | 234000       | 142000      | 2.54   | 105000  | 195500     | 90500  | 1.86 |
|        |                                  |   |                  |              |           |                           |             |  |                                     |           |              |             |        |         |            |        |      |

|                   |  |  |    |     |        |       |       |                             |                             |       |        |       |      |       |        | 34    |      |
|-------------------|--|--|----|-----|--------|-------|-------|-----------------------------|-----------------------------|-------|--------|-------|------|-------|--------|-------|------|
| Brinjal           | Improve<br>variety   | Bhangar  | 15 | 1   | 248    | 220   | 12.7  | -                           | -                           | 76000 | 169000 | 93000 | 2.22 | 75000 | 149000 | 74000 | 1.98 |
| Oat as<br>fodder  | Improved<br>agronomic<br>practices   | Improved<br>variety and<br>method of<br>sowing<br>Var. JHO-822 | 5  | 0.3 | 422    | 396   | 6.56  | Dry<br>matter<br>14.47<br>% | Dry<br>matter<br>13.98<br>% | 10820 | 20850  | 10030 | 1.93 | 11220 | 18150  | 6930  | 1.62 |
| Berseem           | Package of<br>demonstration  | Improved var.<br>Mascavi                                       | 5  | 0.3 | 516    | 464   | 11.20 | DM-<br>12.3 %               | DM-<br>12.1 %               | 11300 | 23350  | 12050 | 2.07 | 11000 | 19480  | 8480  | 1.77 |
| Kitchen<br>Garden | Supplementation<br>of diversified<br>vegetables to<br>farm families<br>through kitchen<br>garden |  | 20 | 0.4 | 182.70 | 158.6 | 15.19 | -                           | -                           | 72000 | 150800 | 78800 | 2.09 | 64500 | 109800 | 45300 | 1.70 |
|                   | Total  |  |    |     |        |       |       |                             |                             | ·     |        |       |      |       |        |       |      |

#### Livestock

| Category               | Thematic<br>area | Name of the<br>technology<br>demonstrated | No. of | No.of | Maj<br>param     | or<br>eters | % change<br>in major<br>parameter | Other parameter  |       | *Ecor         | omics of a<br>(Rs | lemonstra<br>5.) | ation     | *Economics of check<br>(Rs.) |                 |               |           |
|------------------------|------------------|---|--------|-------|------------------|-------------|-----------------------------------|------------------|-------|---------------|-------------------|------------------|-----------|------------------------------|-----------------|---------------|-----------|
|                        |                  |   | Farmer | units | Demons<br>ration | Check       |                                   | Demons<br>ration | Check | Gross<br>Cost | Gross<br>Return   | Net<br>Return    | **<br>BCR | Gross<br>Cost                | Gross<br>Return | Net<br>Return | **<br>BCR |
| Dairy                  |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Cow                    |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Buffalo                |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Poultry                |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Rabbitry               |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Pigerry                |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Sheep and goat         |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Duckery                |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Others<br>(pl.specify) |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |
| Total                  |                  |   |        |       |                  |             |                                   |                  |       |               |                   |                  |           |                              |                 |               |           |

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone. \*\* BCR= GROSS RETURN/GROSS COST

Fisheries

| Category | Thematic<br>area | Name of the<br>technology<br>demonstrated | No. of | No.of<br>units | Major<br>parameters |        | % change  | Other parameter |       | *Econo | omics of d<br>(Rs | lemonstra<br>.) | *Economics of check<br>(Rs.) |       |        |        |      |
|----------|------------------|---|--------|----------------|---------------------|--------|-----------|-----------------|-------|--------|-------------------|-----------------|------------------------------|-------|--------|--------|------|
|          |                  |   | Farmer |                | Demons              | Check  | parameter | Demons          | Check | Gross  | Gross             | Net             | **                           | Gross | Gross  | Net    | **   |
|          |                  |   |        |                | ration              |        | 1         | ration          |       | Cost   | Return            | Return          | BCK                          | Cost  | Return | Return | BCR  |
| Others   | Package          | Monosex                                   | 10     | 10             | 2.66                | 2 / ha | 26.6      | -               | -     | 88516  | 163755            | 75239           | 1.85                         | 68589 | 106313 | 37724  | 1.55 |
|          | practice         | culture of                                |        |                | t/ha                |        |           |                 |       |        |                   |                 |                              |       |        |        |      |
|          |                  | tilapia                                   |        |                |                     |        |           |                 |       |        |                   |                 |                              |       |        |        |      |

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

Other enterprises

| Category     | Name of the<br>technology<br>demonstrated | No. of<br>Farmer | No.of | Major par        | Aajor parameters |           | Other parameter  |       | *Ecor         | nomics of<br>(Rs.) or I | demonstra<br>Rs./unit | ation     | *Economics of check<br>(Rs.) or Rs./unit |                 |               |           |
|--------------|---|------------------|-------|------------------|------------------|-----------|------------------|-------|---------------|-------------------------|-----------------------|-----------|--|-----------------|---------------|-----------|
|              |   |                  | units | Demons<br>ration | Check            | parameter | Demons<br>ration | Check | Gross<br>Cost | Gross<br>Return         | Net<br>Return         | **<br>BCR | Gross<br>Cost                            | Gross<br>Return | Net<br>Return | **<br>BCR |
| Oyster       | Enterprise                                |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| mushroom     | development                               |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| Button       |   |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| mushroom     |   |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| Vermicompost |   |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| Sericulture  |   |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| Apiculture   |   |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| Others       |   |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
| (pl.specify) |   |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |
|              | Total                                     |                  |       |                  |                  |           |                  |       |               |                         |                       |           |  |                 |               |           |

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

#### Women empowerment

| Catagoriu       | Norma of tashrala ar | No. of domenstrations | Observati           | Domorius |          |
|-----------------|----------------------|-----------------------|---------------------|----------|----------|
| Category        | Name of technology   | No. of demonstrations | Demonstration Check |          | Keinarks |
| Farm Women      |                      |                       |                     |          |          |
| Pregnant women  |                      |                       |                     |          |          |
| Adolescent Girl |                      |                       |                     |          |          |
| Other women     |                      |                       |                     |          |          |
| Children        |                      |                       |                     |          |          |
| Neonatal        |                      |                       |                     |          |          |
| Infants         |                      |                       |                     |          |          |

#### Farm implements and machinery

| Name of the implement | Crop | Name of the<br>technology<br>demonstrated | No. of | Area<br>(ha) | Filed obs<br>(output/n | ervation<br>nan hour) | % change in major | Lab | or reductio | on (man da | ays) | Cost reduction (Rs./ha or<br>Rs./Unit) |  |  |  |
|-----------------------|------|---|--------|--------------|------------------------|-----------------------|-------------------|-----|-------------|------------|------|--|--|--|--|
|                       |      |   | Farmer |              | Demons<br>ration       | Check                 | parameter         |     |             |            |      |  |  |  |  |
|                       |      |   |        |              |                        |                       |                   |     |             |            |      |  |  |  |  |

\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone. \*\* BCR= GROSS RETURN/GROSS COST

#### Demonstration details on crop hybrids

| Crop    | Name<br>of the<br>Hybrid | No. of<br>farmers | Area<br>(ha) | Yield (kg/ha) / : | major pa       | rameter     | Economics (Rs./ha) |                 |               |     |  |  |  |
|---------|--------------------------|-------------------|--------------|-------------------|----------------|-------------|--------------------|-----------------|---------------|-----|--|--|--|
| Cereals |                          |                   |              | Demo              | Local<br>check | %<br>change | Gross<br>Cost      | Gross<br>Return | Net<br>Return | BCR |  |  |  |
|         |                          |                   |              |                   |                |             |                    |                 |               |     |  |  |  |
| Bajra   |                          |                   |              |                   |                |             |                    |                 |               |     |  |  |  |
| Maize   |                          |                   |              |                   |                |             |                    |                 |               |     |  |  |  |
| Paddy   |                          |                   |              |                   |                |             |                    |                 |               |     |  |  |  |
| Sorghum |                          |                   |              |                   |                |             |                    |                 |               |     |  |  |  |
| Wheat   |                          |                   |              |                   |                |             |                    |                 |               |     |  |  |  |
|                     |          |    |   |       |       |      |       |        |       | 37   |
|---------------------|----------|----|---|-------|-------|------|-------|--------|-------|------|
| Others (pl.specify) |          |    |   |       |       |      |       |        |       |      |
| Total               |          |    |   |       |       |      |       |        |       |      |
| Oilseeds            |          |    |   |       |       |      |       |        |       |      |
| Castor              |          |    |   |       |       |      |       |        |       |      |
| Mustard             |          |    |   |       |       |      |       |        |       |      |
| Safflower           |          |    |   |       |       |      |       |        |       |      |
| Sesame              |          |    |   |       |       |      |       |        |       |      |
| Sunflower           |          |    |   |       |       |      |       |        |       |      |
| Groundnut           |          |    |   |       |       |      |       |        |       |      |
| Soybean             |          |    |   |       |       |      |       |        |       |      |
| Others (pl.specify) |          |    |   |       |       |      |       |        |       |      |
| Total               |          |    |   |       |       |      |       |        |       |      |
| Pulses              |          |    |   |       |       |      |       |        |       |      |
| Greengram           |          |    |   |       |       |      |       |        |       |      |
| Blackgram           |          |    |   |       |       |      |       |        |       |      |
| Bengalgram          |          |    |   |       |       |      |       |        |       |      |
| Redgram             |          |    |   |       |       |      |       |        |       |      |
| Others (pl.specify) |          |    |   |       |       |      |       |        |       |      |
| Total               |          |    |   |       |       |      |       |        |       |      |
| Vegetable crops     |          |    |   |       |       |      |       |        |       |      |
| Bottle gourd        |          |    |   |       |       |      |       |        |       |      |
| Capsicum            |          |    |   |       |       |      |       |        |       |      |
| Cucumber            |          |    |   |       |       |      |       |        |       |      |
| Tomato              | Abhilash | 15 | 2 | 31600 | 26500 | 19.2 | 69500 | 148000 | 78500 | 2.12 |
| Brinjal             |          |    |   |       |       |      |       |        |       |      |
| Okra                |          |    |   |       |       |      |       |        |       |      |
| Onion               |          |    |   |       |       |      |       |        |       |      |
| Potato              |          |    |   |       |       |      |       |        |       |      |
| Field bean          |          |    |   |       |       |      |       |        |       |      |
| Others (pl.specify) |          |    |   |       |       |      |       |        |       |      |
| Total               |          |    |   |       |       |      |       |        |       |      |
| Commercial crops    |          |    |   |       |       |      |       |        |       |      |

|                     |  |  |  |  | 38 |
|---------------------|--|--|--|--|----|
| Cotton              |  |  |  |  |    |
| Coconut             |  |  |  |  |    |
| Others (pl.specify) |  |  |  |  |    |
| Total               |  |  |  |  |    |
| Fodder crops        |  |  |  |  |    |
| Napier (Fodder)     |  |  |  |  |    |
| Maize (Fodder)      |  |  |  |  |    |
| Sorghum (Fodder)    |  |  |  |  |    |
| Others (pl.specify) |  |  |  |  |    |
| Total               |  |  |  |  |    |

| S. No | Crop              | Feed Back   |
|-------|-------------------|---|
| 1     | Jute (varietal)   | Seed of improved variety like CO-58 to made available in local market                                     |
| 2     | Jute<br>(Retting) | CRIJAF SONA should be made available in commercial basis  |
| 3     | Mustard           | Sulfur and boron containing fertilizer should be readily available in market                              |
| 4     | Lentil            | Trichiderma and pseudomonas should be made available and should have viable count                         |
| 5     | Green<br>gram     |   |
| 6     | Chick pea         | Trichiderma and pseudomonas should be made available and should have viable count                         |
| 7     | Sesame            |   |
| 8     | Onion             | Unpredictable rainfall and flood like situation is the major concern of kharif onion cultivation.         |
| 9     | Tomato            | Improved cultivar of tomato (Abhilash) should be available in local market                                |
| 10    | Banana            | It showed better growth in comparison to local one  |
| 11    | Brinjal           | Improved cultivar of Brinjal (Bhangar) should be available in local market for cultivation in rabi season |

Technical Feedback on the demonstrated technologies

## 3.3 Achievements on Training (Including the sponsored and FLD training programmes):

## A) Farmers and farm women (on campus)

| Thematic Area                  | No. of  |   |       | N | o. of | Partic | ipants |   |    |   | Gran | d Tota | al |
|--------------------------------|---------|---|-------|---|-------|--------|--------|---|----|---|------|--------|----|
|                                | Courses |   | Other |   |       | SC     |        |   | ST |   |      |        |    |
|                                |         | Μ | F     | Т | Μ     | F      | Т      | Μ | F  | Т | Μ    | F      | Т  |
| I. Crop Production             |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Weed Management                |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Resource Conservation          |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Technologies                   |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Cropping Systems               |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Crop Diversification           |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Integrated Farming             |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Water management               |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Seed production                |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Nursery management             |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Integrated Crop Management     |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Fodder production              |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Production of organic inputs   |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Others, (cultivation of crops) |         |   |       |   |       |        |        |   |    |   |      |        |    |
| II. Horticulture               |         |   |       |   |       |        |        |   |    |   |      |        |    |
| a) Vegetable Crops             |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Integrated nutrient management |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Water management               |         |   |       |   |       |        |        |   |    |   |      |        |    |
| Enterprise development         |         |   |       | - |       | -      |        |   |    |   |      |        |    |
| Skill development              |         |   |       |   |       |        |        |   |    |   |      |        |    |

| Thematic Area                    | No. of No. of Participants Grand |   |       |   |   |    |   |   |    | d Tota | al |   |   |
|----------------------------------|----------------------------------|---|-------|---|---|----|---|---|----|--------|----|---|---|
|                                  | Courses                          |   | Other |   |   | SC | 1 |   | ST |        |    |   |   |
|                                  |                                  | М | F     | Т | М | F  | Т | М | F  | Т      | М  | F | Т |
| Yield increment                  |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Production of low volume and     |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| high value crops                 |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Off-season vegetables            |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Nursery raising                  |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Export potential vegetables      |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Grading and standardization      |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Protective cultivation (Green    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Houses, Shade Net etc.)          |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any (Cultivation of   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Vegetable)                       |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Training and Pruning             |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| b) Fruits                        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| 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     |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any(INM)              |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| c) Ornamental Plants             |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Nursery Management               |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Management of potted plants      |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Export potential of ornamental   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| plants                           |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Propagation techniques of        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Ornamental Plants                |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any                   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| d) Plantation crops              |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Production and Management        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| technology                       |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Processing and value addition    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any                   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| e) Tuber crops                   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Production and Management        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| technology                       |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Processing and value addition    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any                   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| f) Spices                        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Production and Management        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| technology                       |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Processing and value addition    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any                   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| g) Medicinal and Aromatic Plants |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Nursery management               |                                  |   |       |   |   |    |   |   |    |        |    |   |   |

| Thematic Area                      | No. of  | of No. of Participants |       |   |          |    |   |     |    |    | Gran | d Tota | al  |
|------------------------------------|---------|------------------------|-------|---|----------|----|---|-----|----|----|------|--------|-----|
|                                    | Courses |                        | Other |   |          | SC |   |     | ST |    |      |        |     |
|                                    |         | М                      | F     | Т | М        | F  | Т | Μ   | F  | Т  | М    | F      | Т   |
| Production and management          |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| technology                         |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Post harvest technology and value  |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| addition                           |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Others, if any                     |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| III. Soil Health and Fertility     |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Management                         |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Soil fertility management          |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Soil and Water Conservation        |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Integrated Nutrient Management     |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Production and use of organic      |         |                        |       |   |          |    |   |     | _  | 60 |      | _      |     |
| inputs                             | 2       | 0                      | 0     | 0 | 0        | 0  | 0 | 55  | 5  | 60 | 55   | 5      | 60  |
| Management of Problematic soils    |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Micro nutrient deficiency in crops |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Nutrient Use Efficiency            |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Soil and Water Testing             |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Others if any                      |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| IV Livestock Production and        |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Management                         |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Dairy Management                   |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Poultry Management                 |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Piggory Management                 | 1       | 0                      | 0     | 0 | 0        | 0  | 0 | 20  | 0  | 20 | 20   | 0      | 20  |
| Pablit Management                  | 1       | 0                      | 0     | 0 | 0        | 0  | 0 | 30  | 0  | 30 | 30   | 0      | 30  |
| Rabbit Management                  |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Disease Management                 |         |                        |       |   | -        |    |   |     |    |    |      |        |     |
| Feed management                    |         |                        |       |   |          |    |   |     |    |    | 20   | 0      | 20  |
| Production of quality animal       | 1       | 0                      | 0     | 0 | 0        | 0  | 0 | 30  | 0  | 30 | 30   | 0      | 30  |
| products                           |         | -                      |       | - |          | -  | - | • • | -  | •  | •    | -      | • • |
| Others, if any Goat farming        | 1       | 0                      | 0     | 0 | 0        | 0  | 0 | 30  | 0  | 30 | 30   | 0      | 30  |
| V. Home Science/Women              |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| empowerment                        |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| 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                         |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Enterprise development             |         |                        |       |   | <u> </u> |    |   |     |    |    |      |        |     |
| Value addition                     |         |                        |       |   | <u> </u> |    |   |     |    |    |      |        |     |
| Income generation activities for   |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| empowerment of rural Women         |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Location specific drudgery         |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| reduction technologies             |         |                        |       |   |          |    |   |     |    |    |      |        |     |
| Rural Crafts                       |         |                        |       |   |          |    |   |     |    |    |      |        |     |

| Thematic Area                     | No. of No. of Participants Grand |   |       |   |   |    |   |   |    | d Tota | al |   |   |
|-----------------------------------|----------------------------------|---|-------|---|---|----|---|---|----|--------|----|---|---|
|                                   | Courses                          |   | Other |   |   | SC | 1 |   | ST |        |    |   |   |
|                                   |                                  | М | F     | Т | М | F  | Т | М | F  | Т      | М  | F | Т |
| Capacity building                 |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Women and child care              |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any                    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| 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           |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Othors if any                     |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| VII Plant Protoction              |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Integrated Post Management        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Integrated Pest Management        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Rie eestval of waste and diagonal |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Bio-control of pests and diseases |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Production of bio control agents  |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| and bio pesticides                |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any                    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| VIII. Fisheries                   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Integrated fish farming           |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Carp breeding and hatchery        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| management                        |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Carp fry and fingerling rearing   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Composite fish culture & fish     |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| disease                           |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Fish feed preparation & its       |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| application to fish pond, like    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| nursery, rearing & stocking pond  |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| 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 oyster farming             |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Pearl culture                     |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Fish processing and value         |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| addition                          |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Others, if any                    |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| IX. Production of Inputs at site  |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Seed Production                   |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Planting material production      |                                  |   |       |   |   |    |   |   |    |        |    |   |   |
| Bio-agents production             |                                  |   |       |   |   |    |   |   |    |        |    |   |   |

| Thematic Area                     | No. of  |   |       | Ν | o. of | Partic | ipants |     |    |     | Gran | d Tota | al  |
|-----------------------------------|---------|---|-------|---|-------|--------|--------|-----|----|-----|------|--------|-----|
|                                   | Courses |   | Other |   |       | SC     |        |     | ST |     |      |        |     |
|                                   |         | М | F     | Т | Μ     | F      | Т      | Μ   | F  | Т   | Μ    | F      | Т   |
| Bio-pesticides production         |         |   |       |   |       |        |        |     |    |     |      |        |     |
| Bio-fertilizer production         |         |   |       |   |       |        |        |     |    |     |      |        |     |
| Vermi-compost production          |         |   |       |   |       |        |        |     |    |     |      |        |     |
| 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           |         |   |       |   |       |        |        |     |    |     |      |        |     |
| Others, if any                    |         |   |       |   |       |        |        |     |    |     |      |        |     |
| 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                |         |   |       |   |       |        |        |     |    |     |      |        |     |
| Others, if any                    |         |   |       |   |       |        |        |     |    |     |      |        |     |
| XI Agro-forestry                  |         |   |       |   |       |        |        |     |    |     |      |        |     |
| Production technologies           |         |   |       |   |       |        |        |     |    |     |      |        |     |
| Nursery management                |         |   |       |   |       |        |        |     |    |     |      |        |     |
| Integrated Farming Systems        |         |   |       |   |       |        |        |     |    |     |      |        |     |
| XII. Others (Pl. Specify)         |         |   |       |   |       |        |        |     |    |     |      |        |     |
| TOTAL                             | 5       | 0 | 0     | 0 | 0     | 0      | 0      | 145 | 5  | 150 | 145  | 5      | 150 |

#### **Rural Youth (on campus)**

| Thematic Area   | No. of  |     |       | No  | o. of I | Particip | pants |    |    |    | Gran | d Tota | ıl  |
|---|---------|-----|-------|-----|---------|----------|-------|----|----|----|------|--------|-----|
|   | Courses |     | Other |     |         | SC       |       |    | ST |    |      |        |     |
|   |         | М   | F     | Т   | М       | F        | Т     | М  | F  | Т  | М    | F      | Т   |
| Mushroom Production                                     |         |     |       |     |         |          |       |    |    |    |      |        |     |
| 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 | 14      | 217 | 0     | 217 | 56      | 0        | 56    | 84 | 0  | 84 | 357  | 0      | 357 |

| Thematic Area                    | No. of  |     |       | No  |    |    | Gran | d Tota | 1  |    |     |   |     |
|----------------------------------|---------|-----|-------|-----|----|----|------|--------|----|----|-----|---|-----|
|                                  | Courses |     | Other |     |    | SC |      |        | ST |    |     |   |     |
|                                  |         | М   | F     | Т   | М  | F  | Т    | Μ      | F  | Т  | Μ   | F | Т   |
| 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               |         |     |       |     |    |    |      |        |    |    |     |   |     |
| Ornamental fisheries             |         |     |       |     |    |    |      |        |    |    |     |   |     |
| Enterprise development           |         |     |       |     |    |    |      |        |    |    |     |   |     |
| 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                            | 14      | 217 | 0     | 217 | 56 | 0  | 56   | 84     | 0  | 84 | 357 | 0 | 357 |

#### **Extension Personnel (on campus)**

| Thematic Area                     | No. of  |   |       | No | o. of I | Partici | pants |   |    |   | Gran | d Tota | 1 |
|-----------------------------------|---------|---|-------|----|---------|---------|-------|---|----|---|------|--------|---|
|                                   | Courses |   | Other |    |         | SC      |       |   | ST |   |      |        |   |
|                                   |         | М | F     | Т  | Μ       | F       | Т     | М | F  | Т | М    | F      | Т |
| Productivity enhancement in field |         |   |       |    |         |         |       |   |    |   |      |        |   |
| crops                             |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Value addition                    |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Integrated Pest Management        |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Integrated Nutrient management    |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Rejuvenation of old orchards      |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Protected cultivation technology  |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Formation and Management of       |         |   |       |    |         |         |       |   |    |   |      |        |   |
| SHGs                              |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Group Dynamics and farmers        |         |   |       |    |         |         |       |   |    |   |      |        |   |
| organization                      |         |   |       |    |         |         |       |   |    |   |      |        |   |
| Information networking among      |         |   |       |    |         |         |       |   |    |   |      |        |   |
| farmers                           |         |   |       |    |         |         |       |   |    |   |      |        |   |

| Thematic Area                   | No. of  |  |    | No | o. of I | Partici | pants |   |    |   | Gran | d Tota | 1  |
|---------------------------------|---------|--|----|----|---------|---------|-------|---|----|---|------|--------|----|
|                                 | Courses | No. of Participants           Other         SC           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         F         T         M         F         T         I           M         H         H         M         H <td></td> <td>ST</td> <td></td> <td></td> <td></td> <td></td> |    |    |         |         |       |   | ST |   |      |        |    |
|                                 |         | М  | F  | Т  | Μ       | F       | Т     | Μ | F  | Т | Μ    | F      | Т  |
| Capacity building for ICT       |         |  |    |    |         |         |       |   |    |   |      |        |    |
| application                     |         |  |    |    |         |         |       |   |    |   |      |        |    |
| Care and maintenance of farm    |         |  |    |    |         |         |       |   |    |   |      |        |    |
| machinery and implements        |         |  |    |    |         |         |       |   |    |   |      |        |    |
| WTO and IPR issues              |         |  |    |    |         |         |       |   |    |   |      |        |    |
| Management in farm animals      | 14      | 0  | 16 | 16 | 0       | 8       | 8     | 0 | 6  | 6 | 0    | 30     | 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                          |         |  |    |    |         |         |       |   |    |   |      |        |    |
| Gender mainstreaming through    |         |  |    |    |         |         |       |   |    |   |      |        |    |
| SHGs                            |         |  |    |    |         |         |       |   |    |   |      |        |    |
| TOTAL                           | 14      | 0  | 16 | 16 | 0       | 8       | 8     | 0 | 6  | 6 | 0    | 30     | 30 |

#### Farmers and farm women (off campus)

| Thematic Area                  | No. of  |    |       | Ν  | Jo. of | f Part | icipa | nts |    |     | Gran | d Tota | 1   |
|--------------------------------|---------|----|-------|----|--------|--------|-------|-----|----|-----|------|--------|-----|
|                                | Courses | (  | Other | •  |        | SC     | -     |     | ST |     |      |        |     |
|                                |         | М  | F     | Т  | Μ      | F      | Т     | Μ   | F  | Т   | Μ    | F      | Т   |
| I. Crop Production             |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Weed Management                |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Resource Conservation          | 1       | 20 | n     | 20 | 0      | 0      | 0     | 0   | 0  | 0   | 20   | n      | 20  |
| Technologies                   | 1       | 20 | 2     | 30 | 0      | 0      | 0     | 0   | 0  | 0   | 20   | 2      | 30  |
| Cropping Systems               | 1       | 0  | 0     | 0  | 0      | 0      | 0     | 8   | 17 | 25  | 8    | 17     | 25  |
| Crop Diversification           | 1       | 0  | 0     | 0  | 0      | 0      | 0     | 23  | 2  | 25  | 23   | 2      | 25  |
| Integrated Farming             |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Water management               | 1       | 0  | 0     | 0  | 0      | 0      | 0     | 25  | 0  | 25  | 25   | 0      | 25  |
| Seed production                | 7       | 0  | 0     | 0  | 0      | 0      | 0     | 157 | 39 | 196 | 157  | 39     | 196 |
| Nursery management             |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Integrated Crop Management     |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Fodder production              |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Production of organic inputs   |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Others, (cultivation of crops) | 1       | 30 | 0     | 30 | 0      | 0      | 0     | 0   | 0  | 0   | 30   | 0      | 30  |
| II. Horticulture               |         |    |       |    |        |        |       |     |    |     |      |        |     |
| a) Vegetable Crops             |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Integrated nutrient management |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Water management               |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Enterprise development         |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Skill development              |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Yield increment                |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Production of low volume and   |         |    |       |    |        |        |       |     |    |     |      |        |     |
| high value crops               |         |    |       |    |        |        |       |     |    |     |      |        |     |
| Off-season vegetables          |         |    |       |    |        |        |       |     |    |     |      |        |     |

| Thematic Area                  | No. of  |   |       | Ν | Jo. of | Part | icipai | nts |    |    | Grand | 1 Tota | 1  |
|--------------------------------|---------|---|-------|---|--------|------|--------|-----|----|----|-------|--------|----|
|                                | Courses | ( | Other |   |        | SC   | 1      |     | ST |    |       |        |    |
|                                |         | М | F     | Т | М      | F    | Т      | М   | F  | Т  | М     | F      | Т  |
| Nursery raising                |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Export potential vegetables    |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Grading and standardization    |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Protective cultivation (Green  |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Houses. Shade Net etc.)        | 1       | 0 | 0     | 0 | 0      | 0    | 0      | 14  | 16 | 30 | 14    | 16     | 30 |
| Others, if any (Cultivation of |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Vegetable)                     | 2       | 0 | 0     | 0 | 0      | 0    | 0      | 38  | 22 | 60 | 38    | 22     | 60 |
| Training and Pruning           |         |   |       |   |        |      |        |     |    |    |       |        |    |
| b) Fruits                      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Layout and Management of       |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Orchards                       | 3       | 0 | 0     | 0 | 0      | 0    | 0      | 49  | 26 | 75 | 49    | 26     | 75 |
| Cultivation of Fruit           |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Management of young            |         |   |       |   |        |      |        |     |    |    |       |        |    |
| plants/orchards                |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Rejuvenation of old orchards   |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Export potential fruits        |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Micro irrigation systems of    |         |   |       |   |        |      |        |     |    |    |       |        |    |
| orchards                       |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Plant propagation tochniques   | 2       | 0 | 0     | 0 | 0      | 0    | 0      | 60  | 0  | 60 | 60    | 0      | 60 |
| Others if any (INIM)           | ۷       | 0 | 0     | 0 | 0      | 0    | 0      | 00  | 0  | 00 | 00    | 0      | 00 |
| c) Ornemental Plants           |         |   |       |   |        |      |        |     |    |    |       |        |    |
| C) Ornamental Flams            |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Nursery Management             |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Management of potted plants    |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Export potential of ornamental |         |   |       |   |        |      |        |     |    |    |       |        |    |
|                                |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Propagation techniques of      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Ornamental Plants              |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Others, if any                 |         |   |       |   |        |      |        |     |    |    |       |        |    |
| d) Plantation crops            |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Production and Management      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| technology                     |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Processing and value addition  |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Others, if any                 |         |   |       |   |        |      |        |     |    |    |       |        |    |
| e) Tuber crops                 |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Production and Management      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| technology                     |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Processing and value addition  |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Others, if any                 |         |   |       |   |        |      |        |     |    |    |       |        |    |
| f) Spices                      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Production and Management      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| technology                     |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Processing and value addition  |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Others, if any                 |         |   |       |   |        |      |        |     |    |    |       |        |    |
| g) Medicinal and Aromatic      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Plants                         |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Nursery management             |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Production and management      |         |   |       |   |        |      |        |     |    |    |       |        |    |
| technology                     |         |   |       |   |        |      |        |     |    |    |       |        |    |
| Post harvest technology and    |         |   |       |   |        |      |        |     |    |    |       |        |    |

| Courses $\bigcirc F \ T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ F$ $T \ M$ $F \ T$ $M \ T$   | Thematic Area                    | No. of  |   |       | Ν  | Jo. of | F Part | icipaı | nts |    |    | Grand | 1 Tota | 1  |
|--|----------------------------------|---------|---|-------|----|--------|--------|--------|-----|----|----|-------|--------|----|
| M         F         T         M         F  |                                  | Courses | ( | Other |    |        | SC     |        |     | ST |    |       |        |    |
| value addition         image of the set of th   |                                  |         | М | F     | Т  | М      | F      | Т      | М   | F  | Т  | М     | F      | Т  |
| Others, if any         Image of the set of th   | value addition                   |         |   |       |    |        |        |        |     |    |    |       |        |    |
| III. Soil Health and Fertility<br>Management       Imagement       Imagemen  | Others, if any                   |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Management         Imagement         Imagement <thimagement< th=""> <thimagement< th=""> <th< td=""><td>III. Soil Health and Fertility</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thimagement<></thimagement<>   | III. Soil Health and Fertility   |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Soil ard Water Conservation       Image ment  | Management                       |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Soil and Water Conservation       Image of a servation   | Soil fertility management        |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Integrated Nutrient Management       Imagement   | Soil and Water Conservation      |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Production and use of organic<br>inputs       Imagement of Problematic soils       Imagement of Problematic soils<  | Integrated Nutrient Management   |         |   |       |    |        |        |        |     |    |    |       |        |    |
| inputs       Imputs  | Production and use of organic    |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Management of Problematic soilsImagement of Problematic soilsI   | inputs                           |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Micro nutrient deficiency in crops       Image: Section 1 and the section 2 and  | Management of Problematic soils  |         |   |       |    |        |        |        |     |    |    |       |        |    |
| crops       Image: set of the set of  | Micro nutrient deficiency in     |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Nutrient Use EfficiencyImage: Soil and Water TestingImage: Soil and Water   | crops                            |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Soil and Water Testing       Image of the second seco   | Nutrient Use Efficiency          |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Others, if anyImage of the second  | Soil and Water Testing           |         |   |       |    |        |        |        |     |    |    |       |        |    |
| W. Livestock Production and<br>ManagementImage and the second seco  | Others, if any                   |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Management         Imagement         Imagement <thimagement< th=""> <thimagement< th=""> <th< td=""><td>IV. Livestock Production and</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thimagement<></thimagement<>   | IV. Livestock Production and     |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Dairy Management         Imagement         Imagement <thimagement< th=""></thimagement<>   | Management                       |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Poultry ManagementImag  | Dairy Management                 |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Piggery ManagementImag  | Poultry Management               |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Abbit ManagementImageme   | Piggery Management               |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Disease ManagementImage of the second se  | Rabbit Management                |         |   |       |    |        |        |        |     |    |    |       |        |    |
| The construction of quality animal<br>production of quality animal<br>productsImage mentImage mentImage mentImage mentImage mentOthers, if any Goat farmingImage mentImage ment  | Disease Management               |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Production of quality animal products of quality and quality of quality and quality of quality   | Feed management                  |         |   |       |    |        |        |        |     |    |    |       |        |    |
| InterfactorproductsImage: sectorImage: sector   | Production of quality animal     |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Interest of<br>Others, if any Goat farmingImage: constraint of<br>Position of<br>gardening<br>and development of<br>low/minimum cost dietImage: constraint of<br>Position of<br>Position of<br>Position of<br>Position of nutrient loss in<br>processingImage: constraint of<br>Position  | products                         |         |   |       |    |        |        |        |     |    |    |       |        |    |
| W. Home Science/Women<br>empowermentImage: Science/Women<br>empowerment <thimage: science="" women<br=""></thimage:> empowermentImage  | Others, if any Goat farming      |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Induct of the first of the first of the model of the model for the mod   | V Home Science/Women             |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Household food security by<br>kitchen gardening and nutrition<br>gardening<br>Design and development of<br>low/minimum cost diet<br>Designing and development for<br>high nutrient efficiency diet<br>Minimization of nutrient loss in<br>processing<br>Gender mainstreaming through<br>SHGs<br>Storage loss minimization<br>techniques<br>Enterprise development<br>Mainimization<br>techniques<br>Income generation activities for<br>empowerment of rural Women<br>Location specific drudgery<br>reduction technologies<br>Rural Crafts<br>Rural Crafts<br>Momentant of the component of the compon | empowerment                      |         |   |       |    |        |        |        |     |    |    |       |        |    |
| InterstructureInter  | Household food security by       |         |   |       |    |        |        |        |     |    |    |       |        |    |
| and only and the part of an analysis of the part of and development of<br>low/minimum cost dietImage: matrix of an analysis of an  | kitchen gardening and nutrition  |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Design and development of<br>low/minimum cost dietIIIIIIIDesign and development of<br>low/minimum cost dietIII <tdi< td="">IIII</tdi<>   | gardening                        |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Integration of optimization<br>techniquesImage: second secon   | Design and development of        |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Designing and development for<br>high nutrient efficiency dietImage: constraint of the second s   | low/minimum cost diet            |         |   |       |    |        |        |        |     |    |    |       |        |    |
| bigh nutrient efficiency dietImage: selection of nutrient loss in processingImage: selection of nutrient los   | Designing and development for    |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Minimization of nutrient loss in<br>processingImage: constraint of the loss in<br>processingImage: constr  | high nutrient efficiency diet    |         |   |       |    |        |        |        |     |    |    |       |        |    |
| processingImage: second s   | Minimization of nutrient loss in |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Gender mainstreaming through<br>SHGsImage: Show of the second secon   | processing                       |         |   |       |    |        |        |        |     |    |    |       |        |    |
| SHGsIndex of the second s   | Gender mainstreaming through     |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Storage loss minimization<br>techniquesImage loss minimization<br>techniquesImage loss minimization<br>image loss minimization<br>techniquesImage loss minimization<br>image loss minimizationImage l  | SHGs                             |         |   |       |    |        |        |        |     |    |    |       |        |    |
| techniquesImage: constraint of the const   | Storage loss minimization        |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Enterprise development       Image: mark transformation of transformation activities for empowerment of rural Women       Image: mark transformation of transformation activities for empowerment of rural Women       Image: mark transformation of transformation activities for empowerment of rural Women       Image: mark transformation of transformation activities for empowerment of rural Women       Image: mark transformation of transformation of transformation of transformation activities for empowerment of rural Women       Image: mark transformation of transformation   | techniques                       |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Value addition       3       0       0       0       0       0       0       9       66       75       9       66       75         Income generation activities for<br>empowerment of rural Women       -  | Enterprise development           |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Income generation activities for<br>empowerment of rural Women30990000777708686Location specific drudgery<br>reduction technologies30990000777708686Rural CraftsCapacity building101010020200003030  | Value addition                   | 3       | 0 | 0     | 0  | 0      | 0      | 0      | 9   | 66 | 75 | 9     | 66     | 75 |
| empowerment of rural WomenImage: second conditional second condi  | Income generation activities for |         |   |       |    |        |        |        |     |    |    | -     |        |    |
| Location specific drudgery<br>reduction technologies30990000777708686Rural Crafts <td>empowerment of rural Women</td> <td></td>  | empowerment of rural Women       |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Bottline drudgery       3       0       9       9       0       0       0       77       77       0       86       86         reduction technologies       3       0       9       9       0       0       0       77       77       0       86       86         Rural Crafts       -  | Location specific drudgery       |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Rural CraftsImage: Constraint of the second sec  | reduction technologies           | 3       | 0 | 9     | 9  | 0      | 0      | 0      | 0   | 77 | 77 | 0     | 86     | 86 |
| Capacity building         1         0         10         10         0         20         20         0         0         0         30         30           Women and child care         Image: Capacity building         Image: Capacity b   | Rural Crafts                     |         |   |       |    |        |        |        |     |    |    |       |        |    |
| Women and child care   | Capacity building                | 1       | Ο | 10    | 10 | 0      | 20     | 20     | Ο   | Ο  | Ο  | 0     | 30     | 30 |
|  | Women and child care             | 1       | 0 | 10    | 10 |        | 20     | 20     | 0   | 0  | 0  |       | 50     | 50 |

| Thematic Area                     | No. of  |    |       | Ν  | Jo. of | Part | icipa | nts |    |     | Grand | 1 Tota | 1   |
|-----------------------------------|---------|----|-------|----|--------|------|-------|-----|----|-----|-------|--------|-----|
|                                   | Courses | (  | Other |    |        | SC   |       |     | ST |     |       |        |     |
|                                   |         | М  | F     | Т  | Μ      | F    | Т     | М   | F  | Т   | М     | F      | Т   |
| Others, if any                    |         |    |       |    |        |      |       |     |    |     |       |        |     |
| 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           |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Others, if any                    |         |    |       |    |        |      |       |     |    |     |       |        |     |
| VII. Plant Protection             |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Integrated Pest Management        | 1       | 29 | 0     | 29 | 1      | 0    | 1     | 0   | 0  | 0   | 30    | 0      | 30  |
| Integrated Disease Management     |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Bio-control of pests and diseases |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Production of bio control agents  | 1       | 24 | 0     | 24 | 6      | 0    | 6     | 0   | 0  | 0   | 30    | 0      | 30  |
| and bio pesticides                | 1       | 24 | 0     | 24 | 0      | 0    | 0     | 0   | 0  | 0   | 30    | 0      | 30  |
| Others, if any                    |         |    |       |    |        |      |       |     |    |     |       |        |     |
| VIII. Fisheries                   |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Integrated fish farming           |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Carp breeding and hatchery        |         |    |       |    |        |      |       |     |    |     |       |        |     |
| management                        |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Carp fry and fingerling rearing   | 3       | 0  | 0     | 0  | 0      | 0    | 0     | 70  | 20 | 90  | 70    | 20     | 90  |
| Composite fish culture & fish     | 5       | 0  | 0     | 0  | 0      | 0    | 0     | 106 | 24 | 130 | 106   | 24     | 130 |
| disease                           | 5       | 0  | 0     | 0  | 0      | 0    | 0     | 100 | 24 | 150 | 100   | 24     | 150 |
| Fish feed preparation & its       |         |    |       |    |        |      |       |     |    |     |       |        |     |
| application to fish pond, like    |         |    |       |    |        |      |       |     |    |     |       |        |     |
| nursery, rearing & stocking pond  |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Hatchery management and           | 2       | 0  | 0     | 0  | 0      | 0    | 0     | 42  | 18 | 60  | 42    | 18     | 60  |
| culture of freshwater prawn       | -       | 0  | Ū     | U  | U      | 0    | U     | 12  | 10 | 00  | 12    | 10     | 00  |
| Breeding and culture of           |         |    |       |    |        |      |       |     |    |     |       |        |     |
| ornamental fishes                 |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Portable plastic carp hatchery    |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Pen culture of fish and prawn     |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Shrimp farming                    |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Edible oyster farming             |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Pearl culture                     |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Fish processing and value         |         |    |       |    |        |      |       |     |    |     |       |        |     |
| addition                          |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Others, if any                    |         |    |       |    |        |      |       |     |    |     |       |        |     |
| IX. Production of Inputs at site  |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Seed Production                   | 3       | 0  | 0     | 0  | 0      | 0    | 0     | 56  | 29 | 85  | 56    | 29     | 85  |
| Planting material production      |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Bio-agents production             |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Bio-pesticides production         |         |    |       |    |        |      |       |     |    |     |       |        |     |
| Bio-fertilizer production         |         |    |       |    |        |      |       |     |    |     |       |        |     |

| Thematic Area                                 | No. of  |     |       | Ν   | Jo. of | Part | icipa | nts |     |      | Grane | d Tota | 1    |
|---|---------|-----|-------|-----|--------|------|-------|-----|-----|------|-------|--------|------|
|   | Courses | (   | Other |     |        | SC   |       |     | ST  |      |       |        |      |
|   |         | М   | F     | Т   | М      | F    | Т     | Μ   | F   | Т    | Μ     | F      | Т    |
| Vermi-compost production                      | 8       | 0   | 0     | 0   | 0      | 0    | 0     | 139 | 76  | 215  | 139   | 76     | 215  |
| 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                       |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Others, if any                                |         |     |       |     |        |      |       |     |     |      |       |        |      |
| X. Capacity Building and Group                |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Dynamics                                      |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Leadership development                        |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Group dynamics                                | 1       | 0   | 0     | 0   | 0      | 0    | 0     | 0   | 25  | 25   | 0     | 25     | 25   |
| Formation and Management of                   | 2       | 0   | 0     | 0   | 0      | 0    | 0     | 0   | 50  | 50   | 0     | 50     | 50   |
| SHGs  | 2       | 0   | 0     | 0   | 0      | 0    | 0     | 0   | 50  | 50   | 0     | 50     | 50   |
| Mobilization of social capital                |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Entrepreneurial development of farmers/vouths | 1       | 0   | 0     | 0   | 0      | 0    | 0     | 22  | 3   | 25   | 22    | 3      | 25   |
| WTO and IPR issues                            |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Others, if any (Crop Insurance)               | 4       | 0   | 0     | 0   | 0      | 0    | 0     | 65  | 35  | 100  | 65    | 35     | 100  |
| XI Agro-forestry                              |         | -   | -     |     |        | -    | -     |     |     |      |       |        |      |
| Production technologies                       |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Nursery management                            |         |     |       |     |        |      |       |     |     |      |       |        |      |
| Integrated Farming Systems                    |         |     |       |     |        |      |       |     |     |      |       |        |      |
| XII. Others (Pl. Specify)                     |         |     |       |     |        |      |       |     |     |      |       |        |      |
| TOTAL   | 58      | 111 | 21    | 132 | 7      | 20   | 27    | 883 | 545 | 1428 | 1001  | 586    | 1587 |

## RURAL YOUTH (Off Campus)

| Thematic Area                | No.   |    |       | Ν  | o. of l | Partic | cipan | ts |    |    | Grar | nd Tot | al |
|------------------------------|-------|----|-------|----|---------|--------|-------|----|----|----|------|--------|----|
|                              | of    | (  | Other |    |         | SC     |       |    | ST |    |      |        |    |
|                              | Cours | М  | F     | Т  | М       | F      | Т     | М  | F  | Т  | Μ    | F      | Т  |
|                              | es    |    |       |    |         |        |       |    |    |    |      |        |    |
| Mushroom Production          |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Bee-keeping                  |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Integrated farming           |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Seed production              |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Production of organic inputs | 1     | 34 | 1     | 35 | 0       | 0      | 0     | 0  | 0  | 0  | 34   | 1      | 35 |
| Integrated Farming           | 2     | 49 | 0     | 49 | 6       | 4      | 10    | 1  | 0  | 1  | 56   | 4      | 60 |
| Planting material production |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Vermi-culture                |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Sericulture                  |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Protected cultivation of     | 2     | 66 | 11    | 75 | 7       | 0      | 7     | Б  | Q  | 12 | 79   | 17     | 05 |
| vegetable crops              | 5     | 00 | 11    | 75 | /       | 0      | /     | 5  | 0  | 15 | 70   | 17     | 95 |
| Commercial fruit production  |       |    |       |    |         |        |       |    |    |    |      |        |    |
| Repair and maintenance of    |       |    |       |    |         |        |       |    |    |    |      |        |    |
| farm machinery and           |       |    |       |    |         |        |       |    |    |    |      |        |    |
| implements                   |       |    |       |    |         |        |       |    |    |    |      |        |    |

| Thematic Area                | No.   |     |       | N   | o. of I | Partic | cipan | ts  |         |     | Grar | nd Tot | al  |
|------------------------------|-------|-----|-------|-----|---------|--------|-------|-----|---------|-----|------|--------|-----|
|                              | of    | (   | Other |     |         | SC     |       |     | ST      |     |      |        |     |
|                              | Cours | м   | F     | т   | м       | F      | т     | м   | F       | т   | М    | F      | Т   |
|                              | es    | 111 | 1     | -   | 141     | 1      | 1     | 111 | -       | 1   |      |        |     |
| 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           |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Ornamental fisheries         |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Para vets                    |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Para extension workers       |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Composite fish culture       | 1     | 23  | 0     | 23  | 7       | 0      | 7     | 0   | 0       | 0   | 30   | 0      | 30  |
| Freshwater prawn culture     |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Shrimp farming               |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Pearl culture                |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Cold water fisheries         |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Fish harvest and processing  |       |     |       |     |         |        |       |     |         |     |      |        |     |
| technology                   |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Fry and fingerling rearing   | 1     | 32  | 0     | 32  | 3       | 0      | 3     | 0   | 0       | 0   | 35   | 0      | 35  |
| Small scale processing       |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Post Harvest Technology      |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Tailoring and Stitching      |       |     |       |     |         |        |       |     |         |     |      |        |     |
| Rural Crafts                 | 7     | 0   | 0     | 0   | 0       | 0      | 0     | 0   | 14      | 14  | 0    | 14     | 140 |
|                              |       | Ŭ   | Ŭ     | v   | Ŭ       | Ŭ      | Ŭ     | Ŭ   | 0       | 0   | Ŭ    | 0      | 110 |
| Others, if any               |       |     |       |     |         |        |       |     |         |     |      |        |     |
| TOTAL                        | 15    | 204 | 12    | 214 | 23      | 4      | 27    | 6   | 14<br>8 | 154 | 233  | 162    | 395 |

#### **Extension Personnel (Off Campus)**

| Thematic Area                    | No.         |   |       | No. | of Pa | rticip | oants |   |    |   | Grand | l Tota | 1 |
|----------------------------------|-------------|---|-------|-----|-------|--------|-------|---|----|---|-------|--------|---|
|                                  | of          |   | Other | •   |       | SC     |       |   | ST |   |       |        |   |
|                                  | Cours<br>es | М | F     | Т   | М     | F      | Т     | М | F  | Т | М     | F      | Т |
| Productivity enhancement in      |             |   |       |     |       |        |       |   |    |   |       |        |   |
| field crops                      |             |   |       |     |       |        |       |   |    |   |       |        |   |
| Integrated Pest Management       |             |   |       |     |       |        |       |   |    |   |       |        |   |
| Integrated Nutrient management   |             |   |       |     |       |        |       |   |    |   |       |        |   |
| Rejuvenation of old orchards     |             |   |       |     |       |        |       |   |    |   |       |        |   |
| Protected cultivation technology |             |   |       |     |       |        |       |   |    |   |       |        |   |
| Formation and Management of      |             |   |       |     |       |        |       |   |    |   |       |        |   |
| SHGs                             |             |   |       |     |       |        |       |   |    |   |       |        |   |
| Group Dynamics and farmers       |             |   |       |     |       |        |       |   |    |   |       |        |   |
| organization                     |             |   |       |     |       |        |       |   |    |   |       |        |   |

| Thematic Area   | No.         |   |       | No. | of Pa | rticip | oants |   |    |   | Grand | l Tota | 1 |
|---|-------------|---|-------|-----|-------|--------|-------|---|----|---|-------|--------|---|
|   | of          | Ū | Other | •   |       | SC     |       |   | ST |   |       |        |   |
|   | Cours<br>es | М | F     | Т   | М     | F      | Т     | М | F  | Т | М     | F      | Т |
| 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                     |             |   |       |     |       |        |       |   |    |   |       |        |   |
| Crop intensification                                  |             |   |       |     |       |        |       |   |    |   |       |        |   |
| TOTAL   | 0           | 0 | 0     | 0   | 0     | 0      | 0     | 0 | 0  | 0 | 0     | 0      | 0 |

## Consolidated table (ON and OFF Campus)

#### Farmers & Farm Women

| Thematic Area                  | No. of  |    |       |    | No. c | of Par | ticipa | ants |    |     | Grand | 1 Tota | 1   |
|--------------------------------|---------|----|-------|----|-------|--------|--------|------|----|-----|-------|--------|-----|
|                                | Courses | (  | Other | ſ  |       | SC     |        |      | ST |     |       |        |     |
|                                |         | М  | F     | Т  | Μ     | F      | Т      | Μ    | F  | Т   | Μ     | F      | Т   |
| I. Crop Production             |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Weed Management                |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Resource Conservation          | 1       | 28 | C     | 30 | 0     | 0      | 0      | 0    | 0  | 0   | 28    | ر<br>د | 30  |
| Technologies                   | 1       | 20 | 2     | 30 | 0     | 0      | 0      | 0    | 0  | 0   | 20    | 2      | 30  |
| Cropping Systems               | 1       | 0  | 0     | 0  | 0     | 0      | 0      | 8    | 17 | 25  | 8     | 17     | 25  |
| Crop Diversification           | 1       | 0  | 0     | 0  | 0     | 0      | 0      | 23   | 2  | 25  | 23    | 2      | 25  |
| Integrated Farming             |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Water management               | 1       | 0  | 0     | 0  | 0     | 0      | 0      | 25   | 0  | 25  | 25    | 0      | 25  |
| Seed production                | 7       | 0  | 0     | 0  | 0     | 0      | 0      | 157  | 39 | 196 | 157   | 39     | 196 |
| Nursery management             |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Integrated Crop Management     |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Fodder production              |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Production of organic inputs   |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Others, (cultivation of crops) | 1       | 30 | 0     | 30 | 0     | 0      | 0      | 0    | 0  | 0   | 30    | 0      | 30  |
| II. Horticulture               |         |    |       |    |       |        |        |      |    |     |       |        |     |
| a) Vegetable Crops             |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Integrated nutrient management |         |    |       |    |       |        |        |      |    |     |       |        |     |
| Water management               |         |    |       |    |       |        |        |      |    |     |       |        |     |

| Thematic Area                  | No. of  |   |       |   | No. d | of Par | rticipa | ants |    |     | Grane | 1 Tota | 1   |
|--------------------------------|---------|---|-------|---|-------|--------|---------|------|----|-----|-------|--------|-----|
|                                | Courses | ( | Other |   |       | SC     |         |      | ST |     |       |        |     |
|                                |         | Μ | F     | Т | Μ     | F      | Т       | Μ    | F  | Т   | Μ     | F      | Т   |
| Enterprise development         |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Skill development              |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Yield increment                |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Production of low volume and   |         |   |       |   |       |        |         |      |    |     |       |        |     |
| high value crops               |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Off-season vegetables          |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Nursery raising                |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Export potential vegetables    |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Grading and standardization    |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Protective cultivation (Green  | 1       | 0 | 0     | 0 | 0     | 0      | 0       | 14   | 17 | 20  | 14    | 17     | 20  |
| Houses, Shade Net etc.)        | 1       | 0 | 0     | 0 | 0     | 0      | 0       | 14   | 16 | 30  | 14    | 16     | 30  |
| Others, if any (Cultivation of | 0       | 0 | 0     | 0 | 0     | 0      | 0       | 20   |    | (0) | 20    | 22     | (0) |
| Vegetable)                     | 2       | 0 | 0     | 0 | 0     | 0      | 0       | 38   | 22 | 60  | 38    | 22     | 60  |
| Training and Pruning           |         |   |       |   |       |        |         |      |    |     |       |        |     |
| b) Fruits                      |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Layout and Management of       | 2       | 0 | 0     | 0 | 0     | 0      | 0       | 40   | 24 |     | 40    | 24     |     |
| Orchards                       | 3       | 0 | 0     | 0 | 0     | 0      | 0       | 49   | 26 | 75  | 49    | 26     | 75  |
| Cultivation of Fruit           |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Management of young            |         |   |       |   |       |        |         |      |    |     |       |        |     |
| plants/orchards                |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Rejuvenation of old orchards   |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Export potential fruits        |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Micro irrigation systems of    |         |   |       |   |       |        |         |      |    |     |       |        |     |
| orchards                       |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Plant propagation techniques   | 2       | 0 | 0     | 0 | 0     | 0      | 0       | 60   | 0  | 60  | 60    | 0      | 60  |
| Others, if any(INM)            |         |   |       |   |       |        |         |      |    |     |       |        |     |
| c) Ornamental Plants           |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Nursery Management             |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Management of potted plants    |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Export potential of ornamental |         |   |       |   |       |        |         |      |    |     |       |        |     |
| plants                         |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Propagation techniques of      |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Ornamental Plants              |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Others, if any                 |         |   |       |   |       |        |         |      |    |     |       |        |     |
| d) Plantation crops            |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Production and Management      |         |   |       |   |       |        |         |      |    |     |       |        |     |
| technology                     |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Processing and value addition  |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Others, if any                 |         |   |       |   |       |        |         |      |    |     |       |        |     |
| e) Tuber crops                 |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Production and Management      |         |   |       |   |       |        |         |      |    |     |       |        |     |
| technology                     |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Processing and value addition  |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Others, if any                 |         |   |       |   |       |        |         |      |    |     |       |        |     |
| f) Spices                      |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Production and Management      |         |   |       |   |       |        |         |      |    |     |       |        |     |
| technology                     |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Processing and value addition  |         |   |       |   |       |        |         |      |    |     |       |        |     |
| Others, if any                 |         |   |       |   |       |        |         |      |    |     |       |        |     |

| Thematic Area                      | No. of  |   |                  |   | No. d | of Par | ticipa | ants |    |     | Grand | d Tota | 1  |
|------------------------------------|---------|---|------------------|---|-------|--------|--------|------|----|-----|-------|--------|----|
|                                    | Courses | ( | Other            |   |       | SC     |        |      | ST |     |       |        |    |
|                                    |         | М | F                | Т | Μ     | F      | Т      | Μ    | F  | Т   | Μ     | F      | Т  |
| g) Medicinal and Aromatic          |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Plants                             |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Nursery management                 |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Production and management          |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| technology                         |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Post harvest technology and        |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| value addition                     |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Others, if any                     |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| III. Soil Health and Fertility     |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Management                         |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Soil fertility management          |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Soil and Water Conservation        |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Integrated Nutrient Management     |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Production and use of organic      | 2       | 0 | 0                | 0 | 0     | 0      | 0      |      | Ŀ  | (0) |       | Ŀ      | (0 |
| inputs                             | 2       | 0 | 0                | 0 | 0     | 0      | 0      | 55   | 5  | 60  | 55    | 5      | 60 |
| Management of Problematic soils    |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Micro nutrient deficiency in crops |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Nutrient Use Efficiency            |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Soil and Water Testing             |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Others, if any                     |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| IV. Livestock Production and       |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Management                         |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Dairy Management                   |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Poultry Management                 |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Piggery Management                 | 1       | 0 | 0                | 0 | 0     | 0      | 0      | 30   | 0  | 30  | 30    | 0      | 30 |
| Rabbit Management                  |         |   | -                |   | -     | -      | -      |      | -  |     |       |        |    |
| Disease Management                 |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Feed management                    |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Production of quality animal       |         |   |                  |   |       |        |        |      |    |     | 30    | 0      | 30 |
| products                           | 1       | 0 | 0                | 0 | 0     | 0      | 0      | 30   | 0  | 30  | 00    | Ŭ      | 00 |
| Others if any Goat farming         | 1       | 0 | 0                | 0 | 0     | 0      | 0      | 30   | 0  | 30  | 30    | 0      | 30 |
| V Home Science/Women               | 1       | 0 | Ū                | 0 | U     | 0      | 0      | 00   | U  | 00  | 00    | 0      | 00 |
| empowerment                        |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| 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       |         |   | $\left  \right $ |   |       |        |        |      |    |     |       |        |    |
| SHGs                               |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Storage loss minimization          |         |   | $\left  \right $ |   |       |        |        |      |    |     |       |        |    |
| techniques                         |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| Enterprise development             |         |   | $\left  \right $ |   |       |        |        |      |    |     |       |        |    |
| Value addition                     | 3       | Ο | 0                | Ο | 0     | Ο      | Ο      | 9    | 66 | 75  | Q     | 66     | 75 |
| Income generation activities for   | 5       | U | 0                | U | 0     | 0      | 0      | ,    | 00 | 15  | )     | 00     | 75 |
| empowerment of rural Women         |         |   |                  |   |       |        |        |      |    |     |       |        |    |
| empowerment of rural wonnen        |         |   |                  |   |       |        |        |      |    |     | l     |        |    |

| Thematic Area                     | No. of  |    |      |    | No. d | of Pai | ticipa | ants |     |     | Grand | d Tota | 1   |
|-----------------------------------|---------|----|------|----|-------|--------|--------|------|-----|-----|-------|--------|-----|
|                                   | Courses | (  | Othe |    |       | SC     |        |      | ST  |     |       |        |     |
|                                   |         | М  | F    | Т  | Μ     | F      | Т      | М    | F   | Т   | М     | F      | Т   |
| Location specific drudgery        | 2       | 0  | 0    | 0  | 0     | 0      | 0      | 0    |     |     | 0     | 0.6    | 0.6 |
| reduction technologies            | 3       | 0  | 9    | 9  | 0     | 0      | 0      | 0    | 77  | 77  | 0     | 86     | 86  |
| Rural Crafts                      |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Capacity building                 | 1       | 0  | 10   | 10 | 0     | 20     | 20     | 0    | 0   | 0   | 0     | 30     | 30  |
| Women and child care              |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Others, if any                    |         |    |      |    |       |        |        |      |     |     |       |        |     |
| 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           |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Others, if any                    |         |    |      |    |       |        |        |      |     |     |       |        |     |
| VII. Plant Protection             |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Integrated Pest Management        | 1       | 29 | 0    | 29 | 1     | 0      | 1      | 0    | 0   | 0   | 30    | 0      | 30  |
| Integrated Disease Management     |         |    | -    |    |       |        |        |      | -   |     |       | -      |     |
| Bio-control of pests and diseases |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Production of bio control agents  |         |    |      |    |       |        |        |      |     |     |       |        |     |
| and bio pesticides                | 1       | 24 | 0    | 24 | 6     | 0      | 6      | 0    | 0   | 0   | 30    | 0      | 30  |
| Others, if any                    |         |    |      |    |       |        |        |      |     |     |       |        |     |
| VIII. Fisheries                   |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Integrated fish farming           |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Carp breeding and hatchery        |         |    |      |    |       |        |        |      |     |     |       |        |     |
| management                        |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Carp fry and fingerling rearing   | 3       | 0  | 0    | 0  | 0     | 0      | 0      | 70   | 50  | 90  | 70    | 20     | 90  |
| Composite fish culture & fish     |         | -  | -    | -  | -     | -      | -      | -    |     |     |       | -      |     |
| disease                           | 5       | 0  | 0    | 0  | 0     | 0      | 0      | 106  | 24  | 130 | 106   | 24     | 130 |
| Fish feed preparation & its       |         |    |      |    |       |        |        |      |     |     |       |        |     |
| application to fish pond, like    |         |    |      |    |       |        |        |      |     |     |       |        |     |
| nursery, rearing & stocking pond  |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Hatchery management and           | _       |    |      |    |       |        |        |      | 1.0 |     |       | 1.0    | 10  |
| culture of freshwater prawn       | 2       | 0  | 0    | 0  | 0     | 0      | 0      | 42   | 18  | 60  | 42    | 18     | 60  |
| 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                          |         |    |      |    |       |        |        |      |     |     |       |        |     |
| Others, if any                    |         |    |      |    |       |        |        |      |     |     |       |        |     |
| IX. Production of Inputs at site  |         |    |      |    |       |        |        |      |     |     |       |        |     |

| Thematic Area                     | No. of  |     | Grand | 1 Tota | 1 |    |    |      |     |      |      |     |      |
|-----------------------------------|---------|-----|-------|--------|---|----|----|------|-----|------|------|-----|------|
|                                   | Courses | (   | Other | ſ      |   | SC |    |      | ST  |      |      |     |      |
|                                   |         | Μ   | F     | Т      | Μ | F  | Т  | Μ    | F   | Т    | Μ    | F   | Т    |
| Seed Production                   | 3       | 0   | 0     | 0      | 0 | 0  | 0  | 56   | 29  | 85   | 56   | 29  | 85   |
| Planting material production      |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Bio-agents production             |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Bio-pesticides production         |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Bio-fertilizer production         |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Vermi-compost production          | 8       | 0   | 0     | 0      | 0 | 0  | 0  | 139  | 76  | 215  | 139  | 76  | 215  |
| 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           |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Others, if any                    |         |     |       |        |   |    |    |      |     |      |      |     |      |
| X. Capacity Building and Group    |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Dynamics                          |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Leadership development            |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Group dynamics                    | 1       | 0   | 0     | 0      | 0 | 0  | 0  | 0    | 25  | 25   | 0    | 25  | 25   |
| Formation and Management of       | 2       | 0   | 0     | 0      | 0 | 0  | 0  | 0    | 50  | 50   | 0    | 50  | 50   |
| SHGs                              | 2       | 0   | 0     | 0      | 0 | 0  | 0  | 0    | 50  | 50   | 0    | 50  | 50   |
| Mobilization of social capital    |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Entrepreneurial development of    | 1       | 0   | 0     | Ο      | 0 | 0  | 0  | 22   | 3   | 25   | 22   | 3   | 25   |
| farmers/youths                    | 1       | 0   | 0     | 0      | 0 | 0  | 0  | 22   | 5   | 25   | 22   | 5   | 25   |
| WTO and IPR issues                |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Others, if any                    | 4       | 0   | 0     | 0      | 0 | 0  | 0  | 65   | 35  | 100  | 65   | 35  | 100  |
| XI Agro-forestry                  |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Production technologies           |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Nursery management                |         |     |       |        |   |    |    |      |     |      |      |     |      |
| Integrated Farming Systems        |         |     |       |        |   |    |    |      |     |      |      |     |      |
| XII. Others (Pl. Specify)         |         |     |       |        |   |    |    |      |     |      |      |     |      |
| TOTAL                             | 61      | 111 | 21    | 132    | 7 | 20 | 27 | 1028 | 580 | 1608 | 1146 | 591 | 1737 |

## RURAL YOUTH (On and Off Campus)

| Thematic Area                | No. of  |    |       |    | No. of | Partic | cipants |   |    |   | Grand | l Total |    |
|------------------------------|---------|----|-------|----|--------|--------|---------|---|----|---|-------|---------|----|
|                              | Courses |    | Other | r  |        | SC     |         |   | ST |   |       |         |    |
|                              |         | Μ  | F     | Т  | Μ      | F      | Т       | Μ | F  | Т | Μ     | F       | Т  |
| Mushroom                     |         |    |       |    |        |        |         |   |    |   |       |         |    |
| Production                   |         |    |       |    |        |        |         |   |    |   |       |         |    |
| Bee-keeping                  |         |    |       |    |        |        |         |   |    |   |       |         |    |
| Integrated farming           |         |    |       |    |        |        |         |   |    |   |       |         |    |
| Seed production              |         |    |       |    |        |        |         |   |    |   |       |         |    |
| Production of organic inputs | 1       | 34 | 1     | 35 | 0      | 0      | 0       | 0 | 0  | 0 | 34    | 1       | 35 |
| Integrated Farming           | 2       | 49 | 0     | 49 | 6      | 4      | 10      | 1 | 0  | 1 | 56    | 4       | 60 |
| Planting material            |         |    |       |    |        |        |         |   |    |   |       |         |    |
| production                   |         |    |       |    |        |        |         |   |    |   |       |         |    |
| Vermi-culture                |         |    |       |    |        |        |         |   |    |   |       |         |    |

| Thematic Area          | No. of  | No. of Participants |       |     |     |    |    |    |    |    |     | l Total |   |
|------------------------|---------|---------------------|-------|-----|-----|----|----|----|----|----|-----|---------|---|
|                        | Courses |                     | Other | r   |     | SC | 1  |    | ST |    |     |         |   |
|                        |         | М                   | F     | Т   | М   | F  | Т  | М  | F  | Т  | М   | F       | Т                                       |
| Sericulture            |         |                     | -     | -   |     | -  | -  |    | -  | -  |     | -       | -                                       |
| Protected              |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| cultivation of         | 3       | 66                  | 11    | 75  | 7   | 0  | 7  | 5  | 8  | 13 | 78  | 17      | 95                                      |
| vogotable crops        | 0       | 00                  | 11    | 70  | , í | U  | ,  | 0  | 0  | 10 | 70  | 17      | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Commorcial fruit       |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| reduction              |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Production             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Repair and             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| forme me e aleire arre | 14      | 217                 | 0     | 217 | 56  | 0  | 56 | 84 | 0  | 84 | 357 | 0       | 357                                     |
| and implemente         |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| 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     |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Ornamental             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| fisheries              |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Para vets              |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Para extension         |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| workers                |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Composite fish         |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| culture                | 1       | 23                  | 0     | 23  | 7   | 0  | 7  | 0  | 0  | 0  | 30  | 0       | 30                                      |
| Erochwator prawn       |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| culturo                |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Shrimp farming         |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Doord culture          |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Cold water             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| fisheries              |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Tish harmat and        |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Fish narvest and       |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| processing             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| technology             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Fry and fingerling     | 1       | 32                  | 0     | 32  | 3   | 0  | 3  | 0  | 0  | 0  | 35  | 0       | 35                                      |
| rearing                |         | _                   | _     | -   |     | _  | _  |    | -  | -  |     | _       |   |
| Small scale            |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| processing             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Post Harvest           |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Technology             |         |                     |       |     |     |    |    |    |    |    |     |         |   |
| Tailoring and          |         |                     |       |     |     |    |    |    |    |    |     |         |   |

| Thematic Area  | No. of  |     |       |     | No. of | Partic | cipants |    |     |     | Grand | l Total |     |
|----------------|---------|-----|-------|-----|--------|--------|---------|----|-----|-----|-------|---------|-----|
|                | Courses |     | Other | r   |        | SC     |         |    | ST  |     |       |         |     |
|                |         | Μ   | F     | Т   | Μ      | F      | Т       | Μ  | F   | Т   | Μ     | F       | Т   |
| Stitching      |         |     |       |     |        |        |         |    |     |     |       |         |     |
| Rural Crafts 7 |         | 0   | 0     | 0   | 0      | 0      | 0       | 0  | 140 | 140 | 0     | 140     | 140 |
| Enterprise     |         |     |       |     |        |        |         |    |     |     |       |         |     |
| development    |         |     |       |     |        |        |         |    |     |     |       |         |     |
| TOTAL          | 29      | 421 | 12    | 433 | 79     | 4      | 83      | 90 | 148 | 238 | 590   | 162     | 752 |

#### **Extension Personnel (On and Off Campus)**

| Thematic Area                     | No. of  |   |       | Gran | d Tota | 1  |   |   |    |   |   |    |    |
|-----------------------------------|---------|---|-------|------|--------|----|---|---|----|---|---|----|----|
|                                   | Courses |   | Other |      |        | SC |   |   | ST |   |   |    |    |
|                                   | -       | М | F     | Т    | М      | F  | Т | Μ | F  | Т | М | F  | Т  |
| Productivity enhancement in field |         |   |       |      |        |    |   |   |    |   |   |    |    |
| crops                             |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Integrated Pest Management        |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Integrated Nutrient management    |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Rejuvenation of old orchards      |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Value addition                    |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Protected cultivation technology  |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Formation and Management of       |         |   |       |      |        |    |   |   |    |   |   |    |    |
| SHGs                              |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Group Dynamics and farmers        |         |   |       |      |        |    |   |   |    |   |   |    |    |
| organization                      |         |   |       |      |        |    |   |   |    |   |   |    |    |
| 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        | 14      | 0 | 16    | 16   | 0      | 8  | 8 | 0 | 6  | 6 | 0 | 30 | 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                            |         |   |       |      |        |    |   |   |    |   |   |    |    |
| Gender mainstreaming through      |         |   |       |      |        |    |   |   |    |   |   |    |    |
| SHGs                              |         |   |       |      |        |    |   |   |    |   |   |    |    |
| TOTAL                             | 14      | 0 | 16    | 16   | 0      | 8  | 8 | 0 | 6  | 6 | 0 | 30 | 30 |

| Please furnish the details | of training progra | ammes as Annexure in | the proforma | given below |
|----------------------------|--------------------|----------------------|--------------|-------------|
| 2                          | , , , , ,          |                      |              | 0           |

| Discipling   | Clientele | Title of the training   | Duration | Venue<br>(Off / | F    | Number o<br>participant | f<br>:s | Nur  | nber of SC | C/ST  |
|--------------|-----------|---|----------|-----------------|------|-------------------------|---------|------|------------|-------|
| Discipline   | Chemene   | programme   | in days  | On<br>Campus)   | Male | Female                  | Total   | Male | Female     | Total |
|              | PF        | Rice cultivation<br>through SRI                                 | 1        | Off             | 28   | 2                       | 30      | 0    | 0          | 0     |
|              | PF        | INM in paddy  | 1        | Off             | 30   | 0                       | 30      | 0    | 0          | 0     |
|              | PF        | IPM in boro rice  | 1        | Off             | 30   | 0                       | 30      | 1    | 0          | 1     |
|              | PF        | Paddy Seed<br>Production  | 7        | Off             | 157  | 39                      | 196     | 157  | 39         | 196   |
| Agriculture  | PF        | Vermicompost<br>Production                                      | 8        | Off             | 139  | 76                      | 215     | 139  | 76         | 215   |
|              | RY        | Production of Pulse<br>Crop                                     | 1        | Off             | 23   | 2                       | 25      | 23   | 2          | 25    |
|              | RY        | Vermicompost<br>Production                                      | 1        | Off             | 34   | 1                       | 35      | 0    | 0          | 0     |
|              | RY        | Cropping intensity  | 1        | Off             | 8    | 17                      | 25      | 8    | 17         | 25    |
|              | PF        | Protective cultivation of vegetables                            | 1        | Off             | 14   | 16                      | 30      | 14   | 16         | 30    |
|              | PF        | Layout and<br>Management of<br>Orchards                         | 3        | Off             | 49   | 26                      | 75      | 49   | 26         | 75    |
|              | PF        | Plant propagation<br>techniques of sub-<br>tropical fruit crops | 2        | Off             | 60   | 0                       | 60      | 60   | 0          | 60    |
|              | PF        | Vegetable seed<br>production                                    | 3        | Off             | 56   | 29                      | 85      | 56   | 29         | 85    |
| Horticulture | PF        | Improved production technology of potato                        | 2        | Off             | 38   | 22                      | 60      | 38   | 22         | 60    |
|              | PF        | Organic pesticide<br>production and its<br>use                  | 2        | On              | 55   | 5                       | 60      | 55   | 5          | 60    |
|              | PF        | Organic pesticide<br>production and its<br>use                  | 1        | Off             | 30   | 0                       | 30      | 6    | 0          | 6     |
|              | PF        | Integrated farming system                                       | 2        | Off             | 56   | 4                       | 60      | 7    | 4          | 11    |
|              | RY        | Protective cultivation of vegetables                            | 3        | Off             | 78   | 17                      | 95      | 12   | 8          | 20    |
|              | PF        | Fodder Production   | 1        | On              | 30   | 0                       | 30      | 30   | 0          | 30    |
| Animal       | PF        | Goat rearing  | 1        | On              | 30   | 0                       | 30      | 30   | 0          | 30    |
| Husbandry    | PF        | Pig rearing   | 1        | On              | 30   | 0                       | 30      | 30   | 0          | 30    |
|              | EF        | Pranimitra training of<br>Burdwan district                      | 14       | On              | 0    | 30                      | 30      | 0    | 14         | 14    |
|              | PF        | Hatchery<br>Management  | 2        | Off             | 42   | 18                      | 60      | 42   | 18         | 60    |
| Fishery      | PF        | Carp fry and<br>fingerling rearing                              | 3        | Off             | 70   | 20                      | 90      | 70   | 20         | 90    |
|              | RY        | Preparation and<br>management of<br>nursery pond                | 1        | Off             | 35   | 0                       | 35      | 3    | 0          | 3     |

|                     | RY | Disease management<br>& prophylactic<br>measures in<br>composite fish<br>culture pond | 1  | Off | 30  | 0   | 30  | 7   | 0   | 7   |
|---------------------|----|---|----|-----|-----|-----|-----|-----|-----|-----|
|                     | PF | Composite fish culture  | 5  | Off | 106 | 24  | 130 | 106 | 24  | 130 |
|                     | PF | Kantha Stitch<br>Production   | 7  | Off | 0   | 140 | 140 | 0   | 140 | 140 |
|                     | PF | Strategy for reduction<br>of drudgery among<br>farm women                             | 2  | Off | 0   | 56  | 56  | 0   | 56  | 56  |
| Home Science        | PF | Location specific<br>drudgery reduction<br>technologies                               | 1  | Off | 0   | 30  | 30  | 0   | 21  | 21  |
|                     | PF | Capacity building of rural women  | 1  | Off | 0   | 30  | 30  | 0   | 20  | 20  |
|                     | PF | Value addition of<br>Rice   | 3  | Off | 9   | 66  | 75  | 9   | 66  | 75  |
|                     | PF | Formation and<br>management of self-<br>help groups                                   | 2  | Off | 0   | 50  | 50  | 0   | 50  | 50  |
|                     | PF | Group dynamics  | 1  | Off | 0   | 25  | 25  | 0   | 25  | 25  |
|                     | PF | Crop insurance  | 4  | Off | 65  | 35  | 100 | 65  | 35  | 100 |
| Agril.<br>Extension | PF | Entrepreneurial<br>development of<br>farmers/youths                                   | 1  | Off | 22  | 3   | 25  | 22  | 3   | 25  |
|                     | PF | Water management  | 1  | Off | 25  | 0   | 25  | 25  | 0   | 25  |
|                     | RY | Package of<br>agriculture<br>machinery for paddy<br>cultivation                       | 14 | On  | 357 | 0   | 357 | 140 | 0   | 140 |

(D) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

| Crop<br>/            | Identif<br>ied                                  | Trai<br>ning                                   | Duratio  | No.  | of Particip | ants  | Self ei             | mployed af         | ter training                     | Number of<br>persons<br>employed else<br>where |
|----------------------|---|--|----------|------|-------------|-------|---------------------|--------------------|----------------------------------|--|
| prise                | Area  | title<br>*                                     | n (days) | Male | Female      | Total | Type<br>of<br>units | Number<br>of units | Number of<br>persons<br>employed |  |
| Kanth<br>a<br>Stitch | Entre<br>prene<br>urship<br>devel<br>opme<br>nt | Kan<br>tha<br>Stitc<br>h<br>Pro<br>duct<br>ion | 7        | 0    | 140         | 140   | Indivi<br>duals     |                    |                                  |  |

\*training title should specify the major technology / skill transferred

#### (E) Sponsored Training Programmes

| S<br>1<br>N | Title  | The<br>matic<br>area                               | Mo<br>nth    | Du<br>rati<br>on<br>(da<br>ys) | Clie<br>nt<br>PF/ | No<br>. of<br>cou<br>rse<br>s | 1          | Male |        | No. o      | of Part<br>Semale | icipan | ts         | Tota | al |           | Sponso<br>ring<br>Agency   |
|-------------|--|--|--------------|--------------------------------|-------------------|-------------------------------|------------|------|--------|------------|-------------------|--------|------------|------|----|-----------|----------------------------|
|             |  |  |              |                                | RY/<br>EF         |                               | Othe<br>rs | SC   | S<br>T | Oth<br>ers | SC                | ST     | Oth<br>ers | SC   | ST | To<br>tal |                            |
| 1           | Diseas<br>e<br>mana<br>geme<br>nt<br>techno<br>logy<br>of<br>potato    | Disea<br>se<br>mana<br>geme<br>nt                  | Feb,<br>2016 | 1                              | RY                | 1                             | 7          | 1    | 5      | 9          | 0                 | 8      | 16         | 1    | 13 | 30        | NABA<br>RD,<br>Burdw<br>an |
| 2           | SRI  | Reso<br>urce<br>Man<br>agem<br>ent                 | Feb,<br>2016 | 1                              | PF                | 1                             | 28         | 0    | 0      | 2          | 0                 | 0      | 30         | 0    | 0  | 30        | NABA<br>RD,<br>Burdw<br>an |
| 3.          | Vermi<br>comp<br>ost<br>produ<br>ction                                 | Prod<br>uctio<br>n of<br>orga<br>nic<br>input<br>s | Feb,<br>2016 | 1                              | RY                | 1                             | 34         | 0    | 0      | 1          | 0                 | 0      | 35         | 0    | 0  | 35        | NABA<br>RD,<br>Burdw<br>an |
| 4           | Prepa<br>ration<br>and<br>mana<br>geme<br>nt of<br>nurser<br>y<br>pond | Com<br>posit<br>e fish<br>cultu<br>re              | Feb,<br>2016 | 1                              | PF                | 1                             | 32         | 3    | 0      | 0          | 0                 | 0      | 32         | 3    | 0  | 35        | NABA<br>RD,<br>Burdw<br>an |
| 5.          | Produ<br>ction<br>of<br>organi<br>c<br>Pestici<br>des                  | Prod<br>uctio<br>n of<br>orga<br>nic<br>input<br>s | Feb,<br>2016 | 1                              | PF                | 1                             | 24         | 6    | 0      | 0          | 0                 | 0      | 24         | 6    | 0  | 30        | NABA<br>RD,<br>Burdw<br>an |

| 6      | Diseas<br>e<br>mana<br>geme<br>nt of<br>fish<br>cultur<br>e                       | Com<br>posit<br>e fish<br>cultu<br>re   | Feb,<br>2016     | 1 | RY | 1 | 23 | 7 | 0 | 0  | 0  | 0 | 23 | 7  | 0 | 30 | NABA<br>RD,<br>Burdw<br>an |
|--------|---|---|------------------|---|----|---|----|---|---|----|----|---|----|----|---|----|----------------------------|
| 7      | Nutrie<br>nt<br>mana<br>geme<br>nt in<br>rice<br>and<br>other<br>crops            | Nutri<br>ent<br>mana<br>geme<br>nt  | Feb,<br>2016     | 1 | PF | 1 | 30 | 0 | 0 | 0  | 0  | 0 | 30 | 0  | 0 | 30 | NABA<br>RD,<br>Burdw<br>an |
| 8      | Integr<br>ated<br>farmi<br>ng   | Integ<br>rated<br>farmi<br>nf   | Feb,<br>2016     | 1 | RY | 2 | 49 | 6 | 1 | 0  | 4  | 0 | 49 | 10 | 1 | 60 | NABA<br>RD,<br>Burdw<br>an |
| 9      | Veget<br>able<br>produ<br>ction   | Vege<br>table<br>prod<br>uctio<br>n   | Mar<br>,<br>2016 | 1 | RY | 1 | 35 | 0 | 0 | 0  | 0  | 0 | 35 | 0  | 0 | 35 | NABA<br>RD,<br>Burdw<br>an |
| 1<br>0 | IPM<br>in<br>boro<br>rice   | IPM   | Mar<br>,<br>2016 | 1 | PF | 1 | 29 | 1 | 0 | 0  | 0  | 0 | 29 | 1  | 0 | 30 | NABA<br>RD,<br>Burdw<br>an |
| 1<br>1 | Capac<br>ity<br>buildi<br>ng of<br>rural<br>wome<br>n                             | Capa<br>city<br>Build<br>ing  | Mar<br>,<br>2016 | 1 | PF | 1 | 0  | 0 | 0 | 10 | 20 | 0 | 10 | 20 | 0 | 30 | NABA<br>RD,<br>Burdw<br>an |
| 1<br>2 | Locati<br>on<br>specifi<br>c<br>drudg<br>ery<br>reduct<br>ion<br>techno<br>logies | Locat<br>ion<br>speci<br>fic<br>drud<br>gery<br>redu<br>ction<br>techn<br>ologi<br>es | Mar<br>,<br>2016 | 1 | PF | 1 | 21 | 0 | 9 | 0  | 0  | 0 | 21 | 0  | 9 | 30 | NABA<br>RD,<br>Burdw<br>an |

| 1<br>3 | Packag<br>e of<br>agricul<br>ture<br>machin<br>ery for<br>paddy<br>cultiva<br>tion | Repa<br>ir<br>and<br>main<br>tenan<br>ce of<br>farm<br>mach<br>inery<br>and<br>impl<br>emen<br>ts | Feb,<br>2016     | 7 | RY | 7 | 91  | 0  | 77 | 0 | 0 | 0 | 91  | 0  | 77 | 16<br>8 | SMAM<br>, DAC,<br>Burdw<br>an<br>District |
|--------|--|---|------------------|---|----|---|-----|----|----|---|---|---|-----|----|----|---------|---|
| 1<br>4 | Packag<br>e of<br>agricul<br>ture<br>machin<br>ery for<br>paddy<br>cultiva<br>tion | Repa<br>ir<br>and<br>main<br>tenan<br>ce of<br>farm<br>mach<br>inery<br>and<br>impl<br>emen<br>ts | Mar<br>,<br>2016 | 7 | RY | 7 | 126 | 56 | 7  | 0 | 0 | 0 | 126 | 56 | 7  | 18<br>9 | SMAM<br>, DAC,<br>Burdw<br>an<br>District |

|                       | No. of    | Farmers |       | Extension Officials |      |        | Total |       |            |            |
|-----------------------|-----------|---------|-------|---------------------|------|--------|-------|-------|------------|------------|
| Nature of Extension   | activitie |         | Femal |                     |      | - 1    |       |       | Femal      | <b>T</b> 1 |
| Activity              | s         | Male    | e     | Total               | Male | Female | Total | Male  | e          | Total      |
| Field Dav             | 7         | 175     | 70    | 245                 | 33   | 2      | 35    | 208   | 72         | 280        |
| KisanMela             | 3         | 397     | 53    | 450                 | 15   | 3      | 18    | 412   | 56         | 468        |
| KisanGhosthi          |           |         |       | 0                   |      | -      | 0     | 0     | 0          | 0          |
| Exhibition            | 3         | 3200    | 900   | 4100                | 70   | 20     | 90    | 3270  | 920        | 4190       |
| Film Show             | 35        | 925     | 275   | 1200                | 45   | 0      | 45    | 970   | 275        | 1245       |
| Method                | 00        | 20      | 2,0   | 1200                | 10   | 0      | 10    | ,,,,, | 2.0        | 1210       |
| Demonstrations        | 4         | 87      | 20    | 107                 | 9    | 4      | 13    | 96    | 24         | 120        |
| Farmers Seminar       | 4         | 95      | 18    | 113                 | 18   | 4      | 22    | 113   | 21         | 135        |
| Workshop              | 1         | ,0      | 10    | 0                   | 10   | 1      | 0     | 0     | 0          | 0          |
| Group meetings        | 4         | 78      | 21    | 99                  | 13   | 2      | 15    | 91    | 23         | 114        |
| Lectures delivered as | тт        | 70      | 21    |                     | 15   | ۷.     | 15    | 71    | 25         | 114        |
| rosource persons      | 21        | 754     | 67    | 821                 | 0    | 0      | 0     | 754   | 67         | 821        |
| Advisory Sorvices     | 756       | 075     | 72    | 1048                | 0    | 0      | 0     | 075   | 73         | 1048       |
| Scientific visit to   | 750       | 975     | 75    | 1040                | 0    | 0      | 0     | 975   | 75         | 1040       |
| formore field         | 197       | 1079    | 224   | 1602                | 0    | 0      | 0     | 1079  | 224        | 1602       |
| Farmers wight to KWK  | 254       | 2521    | 654   | 4175                | 0    | 0      | 0     | 2521  | 324<br>654 | 1002       |
| Die generatie geieite |           | 24      | 12    | 4175                | 0    | 0      | 0     | 24    | 12         | 4175       |
| Diagnostic visits     | 4/        | 34      | 15    | 4/                  | 0    | 0      | 0     | 34    | 15         | 4/         |
| Exposure visits       | /         | 90      | 20    | 110                 | 0    | 0      | 0     | 90    | 20         | 110        |
| Ex-trainees           | •         | 50      | 10    | (0                  |      |        | 0     | 50    | 10         | (0)        |
| Sammelan              | 2         | 50      | 10    | 60                  | 10   | 0      | 0     | 50    | 10         | 60         |
| Soil health Camp      | 7         | 210     | 0     | 210                 | 18   | 0      | 18    | 228   | 0          | 228        |
| Animal Health Camp    | 4         | 215     | 65    | 280                 | 0    | 0      | 0     | 215   | 65         | 280        |
| Agri mobile clinic    | 24        | 625     | 45    | 670                 | 0    | 0      | 0     | 625   | 45         | 670        |
| Soil test campaigns   | 3         | 134     | 0     | 134                 | 0    | 0      | 0     | 134   | 0          | 134        |
| Farm Science Club     |           |         |       |                     |      |        |       |       |            |            |
| Conveners meet        | 10        | 105     | 10    | 115                 | 12   | 0      | 12    | 117   | 10         | 127        |
| Self Help Group       |           |         |       |                     |      |        |       |       |            |            |
| Conveners meetings    | 8         | 48      | 111   | 159                 | 0    | 0      | 0     | 48    | 111        | 159        |
| MahilaMandals         |           |         |       |                     |      |        |       |       |            |            |
| Conveners meetings    | 3         | 0       | 45    | 45                  | 0    | 0      | 0     | 0     | 45         | 45         |
| Celebration of        |           |         |       |                     |      |        |       |       |            |            |
| important days        |           |         |       |                     |      |        |       |       |            |            |
| (Republic Day,        |           |         |       |                     |      |        |       |       |            |            |
| Independence Day,     |           |         |       |                     |      |        |       |       |            |            |
| World Vet. Day)       | 7         | 275     | 105   | 380                 | 0    | 0      | 0     | 275   | 105        | 380        |
| Any Other             |           |         |       |                     |      |        |       |       |            |            |
| (Awareness Camp)      | 5         | 278     | 252   | 530                 | 10   | 4      | 14    | 288   | 256        | 544        |
| Any Other             |           |         |       |                     |      |        |       |       |            |            |
| (Technology Week)     | 1         | 148     | 52    | 200                 | 12   | 3      | 15    | 160   | 55         | 215        |
| Total                 | 1506      | 13697   | 3203  | 16900               | 255  | 42     | 297   | 13952 | 3245       | 17197      |

3.4. A. Extension Activities (including activities of FLD programmes)

#### B. Other Extension activities

| Nature of             | No. of<br>activities | Farmers |        |       | Exten | sion Offic | ials  | Total |        |       |
|-----------------------|----------------------|---------|--------|-------|-------|------------|-------|-------|--------|-------|
| Extension<br>Activity |                      | Male    | Female | Total | Male  | Female     | Total | Male  | Female | Total |
| Newspaper             | 3                    |         |        |       |       |            |       |       |        |       |
| coverage              | 5                    |         |        |       |       |            |       |       |        |       |
| Radio talks           | 4                    |         |        |       |       |            |       |       |        |       |
| TV talks              |                      |         |        |       |       |            |       |       |        |       |
| Popular articles      | 2                    |         |        |       |       |            |       |       |        |       |
| Extension             | 5                    | 525     | 55     | 580   | 00    | 00         | 00    | 525   | 55     | 580   |
| Literature            |                      |         |        |       |       |            |       |       |        |       |
|                       | 14                   | 525     | 50     | 580   | 00    | 00         | 00    | 525   | 55     | 580   |

## 3.5 **Production and supply of Technological products**

Village seed

| Crop  | Variety                          | Quantity of seed<br>(q) | Value<br>(Rs) | Provided to number of farmers |
|-------|----------------------------------|-------------------------|---------------|-------------------------------|
| Paddy | MTU 7029                         | 420                     |               | Not yet distributed           |
| Onion | Agrifound Dark Red,<br>Sukhsagar | 6                       |               | Not yet distributed           |
|       |                                  |                         |               |                               |
|       |                                  |                         |               |                               |
| Total |                                  | 426                     |               |                               |

KVK farm

| Crop                | variety  | Quantity of seed<br>(q) | Value<br>(Rs) | Provided to number of farmers        |
|---------------------|----------|-------------------------|---------------|--------------------------------------|
| Rice                | MTU 7029 | 215                     |               | Not yet sold                         |
| Sorghum (as fodder) | MP Chari | 0.7                     | -             | Supply for demonstration under NIFTD |
| Grand Total         |          |                         |               |                                      |

#### Production of planting materials by the KVKs

| Crop                | Variety         | No. of<br>planting<br>materials | Value<br>(Rs) | Provided to number of farmers |
|---------------------|-----------------|---------------------------------|---------------|-------------------------------|
| Vegetable seedlings |                 |                                 |               |                               |
| Cauliflower         | Trisha, Barsati | 10000                           | -             | 15                            |
| Cabbage             |                 |                                 |               |                               |
| Tomato              | Abhilash        | 30000                           | -             | 20                            |
| Brinjal             | Bhangar         | 10000                           | -             | 15                            |

| Chilli                 |       |    |
|------------------------|-------|----|
| Onion                  |       |    |
| Others                 |       |    |
| Fruits                 |       |    |
| Mango                  |       |    |
| Guava                  |       |    |
| Lime                   |       |    |
| Рарауа                 |       |    |
| Banana                 |       |    |
| Others                 |       |    |
| Ornamental plants      |       |    |
| Medicinal and Aromatic |       |    |
| Plantation             |       |    |
| Spices                 |       |    |
| Turmeric               |       |    |
| Tuber                  |       |    |
| Elephant yams          |       |    |
| Fodder crop saplings   |       |    |
| Forest Species         |       |    |
| Others, pl.specify     |       |    |
| Total                  | 50000 | 50 |

#### **Production of Bio-Products**

| Name of product           | Quantity | Value (Rs.) | No. of Farmers                      |
|---------------------------|----------|-------------|-------------------------------------|
|                           | Kg       |             |                                     |
| Bio Fertilisers           |          |             |                                     |
| Bio-pesticide             |          |             |                                     |
| Bio-fungicide             |          |             |                                     |
| Bio Agents (Vermicompost) | 3 tonnes |             | Used in seed production in KVK farm |
| Others                    |          |             |                                     |
| Total                     | 3 tonnes |             |                                     |

#### Production of livestock materials

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers |
|---------------------------|-------------------|--------|-------------|----------------|
|                           |                   |        |             |                |
| Goatery                   | Black Bengal      | 3      | 6400        | 3              |
| Fisheries                 |                   |        |             |                |
| Grand Total               |                   | 3      | 6400        | 3              |

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

| Item | Title | Authors name | Number | Circulation |
|------|-------|--------------|--------|-------------|
|      |       |              |        |             |

| Research paper                         | Sex<br>determination of<br><i>Anabas</i><br><i>testudineus</i> of<br>external<br>morphological<br>characters.  | Golam Ziauddin,<br>Samarendra Behera,<br>Sanjeev Kumar, Rinku<br>Gogoi, Olik Jomang<br>and Snigdha Baksi           | International Journal<br>of Current Research<br>Vol. 7, Issue, 07,<br>pp.18057-18059.  | Impact Factor<br>– 6.226 |
|--|--|--|--|--------------------------|
|  | Morphomertical<br>and Gonadal<br>Studies of A<br>Threatened Fish,<br><i>Anabas</i><br><i>testudineus</i> with<br>Respect to<br>Seasonal Cycle.                 | Golam Ziauddin1,<br>Samarendra Behera2,<br>Sanjeev Kumar2*,<br>Rinku Gogoi2,<br>Olik Jomang2 and<br>Snigdha Baksi2 | International Journal<br>of Fisheries and<br>Aquaculture<br>Sciences.<br>Volume 6, Number 1<br>(2016), pp. 7-14.   | Impact factor-<br>0.448  |
|  | StudiesonchangesofgonadalmaterialsofAnabastestudineuson thebasis of histologyduringnonbreeding season  | Samarendra Behera,<br>Golam Ziauddin,<br>Sanjeev Kumar, Rinku<br>Gogoi, Olik Jomang<br>and Snigdha Baksi           | National journal of<br>life sciences   | Naas rating<br>4.01      |
| Seminar/conference/<br>symposia papers | Air breathing<br>fish breeding<br>pave the way for<br>its culture in<br>village ponds of<br>DakshinDinajpur<br>district of West<br>Bengal                      | B. Goswami <sup>1</sup> , A.<br>Mondal <sup>2</sup> , G. Ziauddin <sup>3</sup><br>and A. Nayek <sup>4</sup>        | International<br>Conference on<br>Aqquatic resources<br>and sustainable<br>management<br>(ICARSM,2016)<br>By Central Calcutta<br>Science & Culture<br>Organisation for<br>Youth                              |                          |
|  | Prospects and<br>challenges of<br><i>hentak</i> - a semi<br>fermented fish<br>paste and <i>ngari</i> -<br>an ethno<br>fermented fish<br>product of<br>Manipur. | Y. Bedajit Singh,<br>Sujata Sapam & G.<br>Ziauddin.  | National Seminar on<br>Integrating Agri-<br>Horticultural and<br>Allied Research for<br>Food and<br>Nutritional Security<br>in the Era of Global<br>Climate Disruption<br>March 4-6, 2016<br>Imphal, Manipur |                          |
| Books                                  |  |  |  |                          |
| Bulletins                              |  |  |  |                          |
| Popular Articles                       |  |  |  |                          |

| Book Chapter           |  |  |
|------------------------|--|--|
| Extension Pamphlets/   |  |  |
| literature             |  |  |
| Technical reports      |  |  |
| Electronic Publication |  |  |
| (CD/DVD etc)           |  |  |
| TOTAL                  |  |  |

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

| (b) Details of file programmes anaergone by RVR personner |
|---|
|---|

| S.  | Name of       | Name of course   | Name of KVk         | Date and       | Organized by |
|-----|---------------|------------------|---------------------|----------------|--------------|
| No. | programme     |                  | personnel and       | Duration       |              |
|     |               |                  | designation         |                |              |
| 1.  | Summer School | Aquaculture      | Dr. Golam Ziauddin, | 21 Days (08    | Aquaculture  |
|     |               | diversification  | SMS, Fishery SC.    | july, 2015 to  | production   |
|     |               | towards          |                     | 28 july, 2015) | and          |
|     |               | boosting pond    |                     |                | environment  |
|     |               | productivity and |                     |                | division,    |
|     |               | farm income      |                     |                | ICAR-CIFA,   |
|     |               |                  |                     |                | Bhubaneswar  |

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs) - None

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year - None

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

| S.  | Crop /     | ITK       | Purpose |
|-----|------------|-----------|---------|
| No. | Enterprise | Practiced | of ITK  |
|     |            |           |         |

3.10 Indicate the specific training need analysis tools/methodology followed by KVKs

3.11. a. Details of equipment available in Soil and Water Testing Laboratory

| Sl. No | Name of the Equipment               | Qty.                |
|--------|-------------------------------------|---------------------|
| 1.     | Flame photometer                    | One (Out of order)  |
| 2.     | Spectrophotometer                   | One ( Out of order) |
| 3.     | Shaker                              | One                 |
| 4.     | Hot air oven                        | One                 |
| 5.     | Hot plate                           | One                 |
| 6.     | Glass distillation unit             | One ( Out of order) |
| 7.     | Conductivity bridge                 | One                 |
| 8.     | pH meter                            | One                 |
| 9.     | Electronic balance                  | Two                 |
| 10.    | Grinder                             | One                 |
| 11.    | Kjeldahl N analyser                 | One                 |
| 12.    | Atomic absorption spectrophotometer | One                 |

3.11.b. Details of samples analyzed so far

| Details               | No. of<br>Samples | No. of<br>Farmers | No. of<br>Villages | Amount<br>realized |
|-----------------------|-------------------|-------------------|--------------------|--------------------|
| FLD field samples     | 71                | 61                | 7                  |                    |
| OFT field samples     | 34                | 19                | 5                  |                    |
| Farmers field samples | 1020              | 915               | 26                 |                    |
| Total                 | 1125              | 995               | 38                 |                    |

# 3.12. Activities of rain water harvesting structure and micro irrigation system

| No of training | No of          | No of plant material | Visit by | Visit by  |
|----------------|----------------|----------------------|----------|-----------|
| programme      | demonstrations | produced             | the      | the       |
|                |                |                      | farmers  | officials |
| 6              | 4              | 120                  | 230      | 6         |
|                |                |                      |          |           |

# 3.13 Technology week celebration

| Type of activities | No. of activities | Number of participants | Related crop/livestock technology |
|--------------------|-------------------|------------------------|-----------------------------------|
| Farmers training   | 10                | 420                    | Different ones                    |
| Live demonstration | 7                 | 380                    | Different ones                    |
| TV show            | 1                 |                        |                                   |
| Self help group    | 3                 | 160                    |                                   |
| meeting            |                   |                        |                                   |
| Farmer-Scientist   | 6                 | 290                    |                                   |
| interaction        |                   |                        |                                   |

## 3.14. RAWE programme - is KVK involved?

| No of student/ARS trained | No of days stayed |
|---------------------------|-------------------|
|                           |                   |

# 3.15. List of VIP visitors (MP/MLA/DM/VC/ZilaSabhadipati/Other Head of Organization/Foreigners)

| Date       | Name of the person                        | Purpose of visit                      |
|------------|---|---------------------------------------|
| 23.09.2015 | 23.09.2015 Dr. H. S Sen, Former Director, |                                       |
|            | CRIJAf, BKP                               |                                       |
| 28.12.2015 | Mr.Gaur Ch. Mandol, MLA                   | To visit KVK stall at Krishi Mela at  |
|            |   | Mahakali Vidyalaya.                   |
| 19.01.2016 | Mr. Purnendu Basu, MIC                    | To visit stall at mati Utsav at       |
|            | Agriculture                               | burdwan                               |
| 10.02.2016 | Sunil Kr. Mondol, MP, Co-Chairman         | To inaugurate the technology week     |
|            | for Parliamentary committee on            | at kvk bud bud.                       |
|            | food consumer affair                      |                                       |
|            | DDG, IMD, New Delhi                       | To discuss about the proposition to   |
|            |   | establish mini weather station at kvk |

|            |                                    | Burdwan                              |
|------------|------------------------------------|--------------------------------------|
| 19.03.2016 | Dr. Ganendra Singh, PS, IARI, New  | To visit stall at Krishi Unnati Mela |
|            | Delhi                              |                                      |
| 19.03.2016 | Prof. S. K. Singh, Div. of Fruit & | To visit stall at Krishi Unnati Mela |
|            | Hort. Tech, IARI, New Delhi        |                                      |

## <u>4.0 IMPACT</u>

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

KVK took up impact assessment study in two villages where KVK has been working over 5 years, namely Keten in Kanksa block and Jagulipara in Galsi-I block. The detailed study of the two villages are annexed.

#### 4.2 Cases of large scale adoption

(Please furnish detailed information for each case)

| Horizontal spread of technologies |   |
|-----------------------------------|---|
| Technology                        | Horizontal spread   |
| Seed treatment for crops          | Farmers in this region were not used to treat seeds of different crops<br>while sowing before KVK intervention. After intervention of KVK,<br>not only the farmers in the adopted village but farmers in the<br>adjoining villages as well are now practicing seed treatment for<br>crops like paddy, jute, pulses, potato etc. The technology has spread<br>to as much as 18 blocks of the district.   |
| Azolla production for livestock   | i) A low cost azolla production unit was established in KVK farm  |
|                                   | <ul> <li>ii) A TV programme was conducted which was broadcasted in eTV Annadada programme for several times and after that many officers and progressive farmers made telephonic quarries about the availability of culture.</li> <li>iii) In our adopted villages, 25 production units were set up for multipurpose use specially as livestock and poultry feed.</li> <li>iv) In this year, Block Livestock Development Officer of Galsi-I indented the culture and technical know-how for 50 demonstrations in his block.</li> <li>v) A training programme was conducted on the theme area of azolla production and its use as green manure in rice field in collaboration with ICAR-IARI, New Delhi.</li> <li>vi) Recently, Durgapur State Poultry farm, ARD established one large scale production unit with the technical support from our SMS (A.H. &amp; V.S)</li> </ul> |

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

#### Impacts of the different efforts by the KVK during 2015-16 which are hereunder:

- 1. Replacement of older varieties of the crops like jute, Mustard etc by Improved varieties of CO 58, JRO 2407, and KASHINATH respectively
- 2. System of Rice Intensification better yield, less labour & cost effective Wide coverage of MODIFIED SRI technology
- 3. Integrated Farming System– More return from per unit land -Widespread dissemination of Integrated Farming System approach
- 4. Region specific mineral mixture Improved milk yield, fat % and reproductive performance and better performance of *Deshi cow* through supplementation of this Widespread dissemination of this technology
- 5. Seed replacement rate enhanced and Seed treatment of different crops has been come in practice
- 6. Use of biofertilizer and biopesticide has been increased
- 7. Crop diversification i.e. introduction of jute, vegetables in the cropping system
- 8. Cultivation of off season vegetable came into practice
- 9. Soil test based fertilizer application came into practice
- 10. Preparation of Jute handicraft Six of the trainees (Five female and one male) are generating income through handicraft preparation
- 11. Preparation of Kantha Stitch Five of the trainees (female) are supplementing family income
- 12. Vermicompost production Eight village level production units have been formed
- 13. Mushroom cultivation Twenty village level production units have been formed for domestic consumption
- 14. Self help group Fifty four (54) SHGs have been formed and actively working in collaboration with KVK and NABARD
- 15. Seed Village Programme initiated in different blocks of Burdwan which covers around 300 ha area under paddy seed cultivation.
- 4.4 Details of innovations recorded by the KVK

| Thematic | area |
|----------|------|
|----------|------|

Hatchery

| Name of the Innovation          | CHANDRA HATCHERY   |
|---------------------------------|--|
| Details of Innovator            | Chandra Narayan Bairagya   |
|                                 | Village: Khano   |
|                                 | Block Memari-I   |
| Back ground of innovation       | In view of the enhanced cost of operation and hatchling mortality,   |
|                                 | the present innovation was made.                                     |
| Technology details              | In stead of two pools as required in the conventional Chinese        |
|                                 | hatchery, which apart from enhancing cost is a bit difficult to      |
|                                 | operate, Mr. Bairagya has innovated a one chambered Bundh-cum-       |
|                                 | Hatching pool with modified water circulatory system.                |
| Practical utility of innovation | The modified hatchery is easy to operate, suitable for small farmers |
|                                 | and diminishes hatchling mortality as well.                          |

## 4.5 Details of entrepreneurship development

#### Entrepreneurship 1

| Entrepreneurship development                           |   |
|--|---|
| Name of the enterprise                                 | Vermiculture  |
| Name & complete address of the                         | Chowdhury Amirul Haque, Jagulipara  |
| entrepreneur   | Block: Galsi-I  |
| Intervention of KVK with quantitative data support:    | In view of the deteriorating soil quality, application of good quality<br>organic matter is the need of the hour. KVK intervened through<br>hand on training on vermicompost production in the adopted<br>villages. The above mentioned farmer has developed one<br>vermicompost unit in his backyard with a capacity of roundabout 3<br>tonne. The vermicompost he produces is being used in his farm of<br>about 3 ha. Apart from this he has developed expertise in<br>vermiculture as well. He regularly sell the earthworm to various<br>public ad private bodies, like NABARD; dept. of agriculture,<br>Burdwan; NGOs whereby he earns substantial additional income<br>to run the enterprise profitably.                       |
| Time line of the entrepreneurship<br>development       | <ul> <li>2008: Obtained training from KVK. Got exposure to some profitable vermicompost production agencies.</li> <li>2009: Constructed one vermicompost unit with subsidized funding from RKVY through KVK.</li> <li>2012: Apart from regularly using vermicompost produced in his fields, got expertise in vermiculture.</li> <li>2013: Generates an additional income in the range of 4200 - 8600/month from selling of earthworms.</li> <li>2014: He is being regularly hired by various private and public bodies as expert in the field.</li> <li>2015: Apart from regularly using vermicompost produced in his fields, generates an additional income in the range of 5200 - 7600/month from selling of earthworms.</li> </ul> |
| Technical Components of the Enterprise                 |   |
| Status of entrepreneur before and after the enterprise | Generates an additional income in the range of 4200 -8600/month<br>from selling of earthworms, apart from the remuneration received<br>as expert to different fora.   |
| Present working condition of enterprise in  | The enterprise is extremely viable economically.                   |
|---|--|
| terms of raw materials availability, labour |  |
| availability, consumer preference,          |  |
| marketing the product etc. ( Economic       |  |
| viability of the enterprise):               |  |
| Horizontal spread of enterprise             | Following his suite, 17 other rural youths in 5 villages under KVK |
|   | operational area have started vermiculture.                        |

#### Entrepreneurship 2

| Entrepreneurship development         |   |
|--------------------------------------|---|
| Name of the enterprise               | Kantha stitch   |
| Name & complete address of the       | Aminara Bagam   |
| entrepreneur                         | Atapara, Galsi – I  |
|                                      | Burdwan   |
| Intervention of KVK with             | KVK imparted 7 days training on preparing various kantha stitch.            |
| quantitative data support:           | Also KVK has tried to explosure various selling channels for                |
|                                      | marketing her products. KVK also helped her for procuring loan from         |
|                                      | bank.   |
| Time line of the entrepreneurship    | She got training in September, 2013. After that she motivated 5 more        |
| development                          | girls to work for her. In December she started to prepare various           |
|                                      | katha stich products like kurta, saree, purses etc.                         |
| Technical Components of the          | The enterprise is household enterprise where self labour is the critical    |
| Enterprise                           | input.  |
|                                      |   |
| Status of entrepreneur before and    | As the enterprise is in initial stage she gets a net profit of 2-3 thousand |
| after the enterprise                 | rupees every month. Before then her primary source of family income         |
|                                      | was from farming which her husband it. She herself didn't contribute        |
|                                      | to family income.   |
|                                      |   |
| Procent working condition of         | The hyperpart is another the matrice the sets has not materials from        |
| entermise in terms of row materials  | helpur which is possible Burdway and is york famous for Kantha              |
| enterprise in terms of faw materials | Stitch Cho has amplayed five local circle to work for her Carrier           |
| availability, labour availability,   | Suith. She has employed live local girls to work for her. Salijoy           |
| product etc. (Economic viability of  | products KVK also heread her to soll her product in Mati Utsay 15           |
| the enterprise):                     | and Technology Week 15 by keeping it in KVKs stall                          |
| Horizontal spread of enterprise      | No horizontal sproad till now   |
| 1 10112011al spread of enterprise    | ino nonzoniai spieau un now   |

### 4.6 Any other initiative taken by the KVK

#### MATI Utsav -2016

ICAR-CRIJAF-KVK Burdwan participated in Mati Utsav-2016 which was organized by Govt. of West Bengal at Burdwan Agricultural Farm from 19<sup>th</sup> to 25<sup>th</sup> January, 2016 with a moto to display agricultural technology and rural handicraft of West Bengal on large scale and for mass awareness of the same. The Utsav was inaugurated by Honarable Chief Minister of West Bengal Smt. Mamata Banerjee. KVK exhibited stall

showcasing latest and relevant technologies in agricultural & allied Fields. CRIJAF technologies such as nail weeder, microbial consortium for jute getting etc. were also displayed in the stall which caught the interest of the visitors. The center of attraction for the stall was various crop seed display; outstanding farm produces innovative farm models and jute and katha handicraft display. Various live specimens of plant and animal were also exhibited in the stall. Around 1500 farmers were benefitted from the stall. KVK also distributed many extension literatures to the farmers. Various dignitaries from state government, research institutes and state agricultural university visited the stall and appreciated the efforts of KVK.

### Awareness camps on NFSM & Tribal Sub plan (TSP)

As per instructions received from ICAR, two awareness camps were organized in two adopted villages of KVK on improved pulse production technology dated 10.03. 2016 and 15.03.2016 at Bhatar, Bhatar block and Kasba, Galsi I respectively.

Another awareness camp for tribal farmers was conducted at Bhalki, Ausgram II on 28.03.2016 on different aspects of agriculture & allied fields.

#### Awareness camps on 'Clean India Campaign'

As per directives of ICAR, KVKs all over the district have been directed to keep the agricultural environment clean as much as possible. In this direction KVK CRIJAF has conducted series of such awareness camps in adopted villages, apart from keeping office and farm area of the KVK clean, to realize Mahatma Gandhi's dream of a clean India. Farmers were made aware of different activities those can be undertaken, like conversion of agricultural wastes into organic manures, maintaining hygienic cattle and other livestock environment, regular pond management etc.

#### Observance of 'jai kisan jai vigyan divas' at Sansad adarsh gram sidhabari

JaI Kisan Jai Vigyan Diwas was celebrated in the Sansad Adarsh Gram to commemorate birthday of imminent figures like Shri Atal Bihari Bajpayee. About 90 farmers of the Adarsh Gram and adjoining villages participated in the programme. The importance of scientific agriculture towards livelihood security was discussed by

#### Kisan Sammelan

Two Kisan Sammelans, pre-kharif and pre-rabi were organized on 09.07.2015 & 10.02.2016 respectively at KVK campus to demonstrate various profitable technologies to practicing farmers, farm women and rural youths of the district. Mr. N. Chakraborty, Krishi Karmadakhya, Burdwan Zila Parishad and Hon'ble Member of Parliament, Burdwan East inaugurated pre-kharif and pre-rabi sammelan respectively.Total of 500 farmers attended the programmes alongwith several officials from line departments. One awareness programme on effect of global warming and climate change on agriculture and allied sectors was also organized on this occasion participated by nearly 200 farmers.

#### Exposure visit

Three numbers of exposure visit of farmers were conducted by KVK, Burdwan. Selected farmers of different blocks were participated in these exposure visits.

| Date       | Place                  | To visit                         |
|------------|------------------------|----------------------------------|
| 18.01.2016 | SFDC and CIFE, Kolkata | Live demonstration on fisheries, |
|            |                        | specially ornamental fish        |

| 29.01.2016 | State Horticultural Farm, Taldagra | Different horticultural crops, hi- |
|------------|------------------------------------|------------------------------------|
|            |                                    | tech production technologies etc   |
| 05.02.16   | NDRI, Kalyani                      | Live demonstration on livestock    |
|            |                                    | and their nutrition management     |

# 5.0 LINKAGES

# 5.1 Functional linkage with different organizations

| Sl. No. | Name of organization                     | Nature of linkage             |
|---------|--|-------------------------------|
| 1.      | Deptt. Of Agril., GOWB, Burdwan          | CDAP and SREP preparation,    |
|         |  | Training, RKVY                |
| 2.      | Deptt. Of Horti., GOWB, Burdwan          | RKVY, Training                |
| 3.      | Deptt. Of A.R.D., GOWB, Burdwan          | Training, Vaccination camp,   |
|         |  | Supply of chicks, ducklings   |
| 4.      | Deptt. Of Fishery., GOWB, Burdwan        | Training                      |
| 5.      | ATMA, Burdwan                            | SREP preparation, Training,   |
|         |  | exposure visit                |
| 6.      | MGNREGS, Burdwan                         | Convergence programme with    |
|         |  | KVK, Integrated Farming       |
|         |  | System (IFS) model            |
| 7.      | Regional Station for Forage Production & | Training.                     |
|         | Demonstration, MoAg., GOI, Kalyani       |                               |
| 8.      | ICAR-CRRI, Cuttak, Orissa                | Exposure visit                |
| 9.      | BCKV, Mohanpur, Nadia                    | Technological support,        |
|         |  | exposure visit & training     |
| 10.     | ICAR-CIFA, Bhubaneswar, Orissa           | Exposure visit                |
| 11.     | WBUAFS, Kolkata                          | Training, inputs              |
| 12.     | Directorate of Research on Women         | Training                      |
|         | in Agriculture, Odisha                   |                               |
| 13.     | ANGRAU, Hyderabad                        | Breeder seed collection       |
| 14.     | CIFE Reg. Centre (ICAR), Saltlake        | Training                      |
| 15.     | CIFA Reg. Centre (ICAR), Kalyani         | Technology support            |
| 16.     | OUAT, Bhubaneswar, Orissa                | Exposure visit                |
| 17.     | State Agricultural Management and        | Training                      |
|         | Extension Training Institute             |                               |
|         | (SAMETI), Narendrapur, Kolkata           |                               |
| 18.     | ERS-IVRI, Kolkata                        | Training, Animal health camp, |
|         |  | Disease reporting, sample     |
|         |  | diagnosis                     |
| 19.     | ERS NDRI, Kalyani                        | Exposure visit, Joint FLD,    |
|         |  | fodder seed collection,       |
|         |  | infertility camp.             |
| 20.     | Indian Society of Agribusiness           | Imparted training, technology |
|         | Protessionals (ISAP), Asansol            | support to the society        |
| 21.     | ATMA, Katihar, Bihar                     | Exposure visit & Training     |
| 22.     | Indian Agriculture Research              | Collaborative programme on    |
|         | Institute, New Delhi                     | scented rice production,      |

|     |  | Impact analysis, Institute- post  |
|-----|--|-----------------------------------|
|     |  | office linkage                    |
| 23. | ICAR-IGFRI, Jhansi                       | NIFTD programme, fodder           |
|     |  | seed collection                   |
| 24. | ICAR-CIFRI, Barrackpore                  | Technology support, expert        |
|     |  | sharing etc.                      |
| 25. | CIAE, Bhopal                             | Collection of maize Sheller for   |
|     |  | FLD on drudgery reduction         |
| 26. | ICAR-CARI, Bhubaneswar                   | Exposure visit, technology        |
|     |  | sharing                           |
| 27. | NGOs like Men at Work, Ujjiban, SSSNS,   | Training, collaborative programme |
|     | Meghdhoot Welfare Society, Sonar Bangla  |                                   |
|     | Farmers' Club, Birbhum Malrampur Krishak |                                   |
|     | Kalyan Sansthan                          |                                   |
| 28. | NABARD, Burdwan                          | Sponsored programme               |

5.2. List of special programmes undertaken during 2015-16 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (information of previous years should not be provided)

a) Programmes for infrastructure development

| Name of the programme/scheme | Purpose of programme | Date/ Month of initiation | Funding<br>agency | Amount (Rs.) |
|------------------------------|----------------------|---------------------------|-------------------|--------------|
|                              |                      |                           |                   |              |
|                              |                      |                           |                   |              |
|                              |                      |                           |                   |              |

(b) Programme for other activities (training, FLD,OFT, Mela, Exhibition etc.)

| Total            |                    |                |         |                             |
|------------------|--------------------|----------------|---------|-----------------------------|
| Name of the      | Purpose of         | Date/ Month of | Funding | $A_{mount}(\mathbf{P}_{c})$ |
| programme/scheme | programme          | initiation     | agency  | Allount (Ks.)               |
| NABARD           | Training, demo etc | Nov. 2015      | NABARD  | 1.45                        |
| SMAM             | Creating awareness | Mar., 2016     |         | 2.00                        |
|                  | on farm            |                | DAC     |                             |
|                  | mechanization      |                |         |                             |
| NFSM             | Demo on pulse crop | Nov., 2015     | DAC     | 3.00                        |
| NMOOP            | Demo on oilseed    | Oct., 2015     | DAC     | 3.30                        |

## 6. <u>PERFORMANCE OF INFRASTRUCTURE IN KVK</u>

6.1 Performance of demonstration units (other than instructional farm)

| C1   | Name of    | Year  | Area | Details of production |              |              | Amour   | nt (Rs.) |         |
|------|------------|-------|------|-----------------------|--------------|--------------|---------|----------|---------|
| No   | domo Unit  | of    | (Sq. | Variety/bree          | Produco      | Obv          | Cost of | Gross    | Remarks |
| 110. | denio Unit | estt. | mt)  | d                     | Tiouuce Qiy. | Produce Qty. | inputs  | income   |         |
| 1.   |            |       |      |                       |              |              |         |          |         |
| 2.   |            |       |      |                       |              |              |         |          |         |
| 3.   |            |       |      |                       |              |              |         |          |         |
| 4.   |            |       |      |                       |              |              |         |          |         |
| 5.   |            |       |      |                       |              |              |         |          |         |
| 6.   |            |       |      |                       |              |              |         |          |         |
| 7.   |            |       |      |                       |              |              |         |          |         |
|      | Total      |       |      |                       |              |              |         |          |         |

# 6.2 Performance of instructional farm (Crops)

| Name<br>Of the<br>crop | Date of sowing | Date of                   | ea (ha) | Deta                | Details of production |              |                | Amount (Rs.)                 |                    |
|------------------------|----------------|---------------------------|---------|---------------------|-----------------------|--------------|----------------|------------------------------|--------------------|
|                        |                | narvest                   | Are     | Variety             | Type of<br>Produce    | Qty.(q)      | Cost of inputs | Gross<br>income              |                    |
| Paddy                  | 18.07.15       | 16.11.15                  | 5       | MTU7029             | Foundation<br>seed    | 24.5         | 5.5<br>lakh    | 10.00<br>lakhs<br>(expected) | Not<br>yet<br>sold |
| Banana                 | Ratoon<br>crop | 10.05.15<br>to<br>15.7.15 | 0.3     | Grand<br>Naine      | Fruits                | 147<br>bunch | 4000           | 14000                        |                    |
| Mango                  | -              | -                         | 0.5     | Langra,<br>Himsagar | Fruits                | 1            | 500            | 2000                         |                    |

# 6.3 Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

| Sl. | Name of the  | Amount (Rs.) |                | nt (Rs.)     |                 |
|-----|--------------|--------------|----------------|--------------|-----------------|
| No. | Product      | Qty (Kg)     | Cost of inputs | Gross income | Remarks         |
| 1.  | Vermicompost | 3000         | 3000           | -            | Used for paddy  |
|     |              |              |                |              | seed production |

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

|           | Name                                     | Detail          | s of production    | l    | Amour          | nt (Rs.)     |         |
|-----------|--|-----------------|--------------------|------|----------------|--------------|---------|
| Sl.<br>No | of the<br>animal /<br>bird /<br>aquatics | Breed           | Type of<br>Produce | Qty. | Cost of inputs | Gross income | Remarks |
| 1         | Goat                                     | Black<br>Bengal | Kid                | 3    | 2000           | 6400         |         |

### 6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

| Months      | No. of trainees stayed | Trainee days<br>(days stayed) | Reason for short fall (if any) |
|-------------|------------------------|-------------------------------|--------------------------------|
| April, 2015 | 14                     | 15                            | -                              |
|             |                        |                               |                                |
|             |                        |                               |                                |
| Total :     |                        |                               |                                |

(For whole of the year)

### 6.6 Utilization of staff quarters

Whether staff quarters has been completed: yes

No. of staffquarters: 06 nos

Date of completion: Handover of quarter on 31.01.2013 and completion of road and electrical work on 31.03.13

Occupancy details:

| Months                  | QI  | QII | Q III  | QIV | QV | QVI |
|-------------------------|---|-----|--------|-----|----|-----|
| From April 2013 onwards | All staff quarters have been occupied by offici staff |     | ficial |     |    |     |

## 7. FINANCIAL PERFORMANCE

### 7.1 Details of KVK Bank accounts

| Bank account     | Name of the bank       | Location                | Account Number |
|------------------|------------------------|-------------------------|----------------|
| ICAR UNIT CRIJAF | SBI Barrackpre Rly Stn | 1 BT Road, Chiria More, | 10391779335    |
|                  | Branch                 | Barrackpore             |                |
|                  |                        |                         |                |

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

|         | Released by ICAR |        | Expe   | nditure |                         |
|---------|------------------|--------|--------|---------|-------------------------|
| Item    | Kharif           | Rabi   | Kharif | Rabi    | Unspent balance as on - |
|         |                  |        |        |         |                         |
| Mustard |                  | 180000 |        | 180000  | Nil                     |
| Sesame  |                  | 150000 |        | 150000  | Nil                     |
|         |                  |        |        |         |                         |
|         |                  |        |        |         |                         |

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

| Released by ICAR |        | Expenditure |                  | Unspent               |  |
|------------------|--------|-------------|------------------|-----------------------|--|
| arif l           | Rabi 1 | Kharif      | Rabi             | balance as on         |  |
| 1                | arif   | arif Rabi   | arif Rabi Kharif | arif Rabi Kharif Rabi |  |

| Lentil    | 150000 | 150000 | Nil |
|-----------|--------|--------|-----|
| Greengram | 112500 | 112500 | Nil |
| Chickpea  | 37500  | 37500  | Nil |

# 7.4 Utilization of funds under FLD on Maize (*Rs. In Lakh*)

|       | Released by ICAR |      | Expenditure |      | Unspent                    |
|-------|------------------|------|-------------|------|----------------------------|
| Item  | Kharif           | Rabi | Kharif      | Rabi | balance as on              |
|       |                  |      |             |      | 1 <sup>st</sup> April 2012 |
|       |                  |      |             |      |                            |
| TOTAL |                  |      |             |      |                            |

# 7.5 Utilization of KVK funds during the year 2015-16(Not audited)

| S.<br>No. | Particulars                                     | Sanctioned | Released | Expenditure |  |  |
|-----------|---|------------|----------|-------------|--|--|
| A. Re     | A. Recurring Contingencies                      |            |          |             |  |  |
| 1         | Pay & Allowances                                | 96.50      | 96.50    | 86.85       |  |  |
| 2         | Traveling allowances                            | 1.00       | 1.00     | 0.97        |  |  |
| 3         | Contingencies                                   |            |          |             |  |  |
| Α         | General   | 12.00      | 12.00    | 10.04       |  |  |
| В         | TSP   | 4.00       | 4.00     | 3.91        |  |  |
| С         |   |            |          |             |  |  |
| D         |   |            |          |             |  |  |
| Ε         |   |            |          |             |  |  |
| F         |   |            |          |             |  |  |
|           | TOTAL (A)                                       | 113.50     | 113.50   | 101.77      |  |  |
| B. No     | B. Non-Recurring Contingencies                  |            |          |             |  |  |
| 1         | Vehicle (Motorcycle – 2 nos.)                   | 1.20       | 1.20     | Nil         |  |  |
| 2         | Equipment, furniture and furnishing (Biometric) | 0.30       | 0.30     | Nil         |  |  |
| 3         |   |            |          |             |  |  |
| 4         |   |            |          |             |  |  |
|           | TOTAL (B)                                       | 1.50       | 1.50     | Nil         |  |  |
| C. RI     | EVOLVING FUND                                   |            |          |             |  |  |
|           | GRAND TOTAL (A+B+C)                             | 115.00     | 115.00   | 101.77      |  |  |

# 7.6. Status of revolving fund (Rs. in lakh) for last three years

| Year    | Opening<br>balance as on 1 <sup>st</sup><br>April | Income during the year | Expenditure<br>during the<br>year | Net balance in hand as on 1 <sup>st</sup><br>April of each year (Kind +<br>cash) |
|---------|---|------------------------|-----------------------------------|--|
| 2013-14 | 225860  | 673485                 | 627730                            | 271615   |
| 2014-15 | 271615  | 773310                 | 891760                            |  |

| 2015 16 | 153165 | 877375 | 890977 | 139560 + 250 q paddy seed |
|---------|--------|--------|--------|---------------------------|
| 2013-10 |        |        |        | worth approx. 10 lakh)    |

7.6.(i) Number of SHGs formed by KVKs (ii) association of KVKs with SHGs formed by other organizations indicating the area of SHG activities. 79 nos.

7.7 Details of marketing channels created for the SHGs

KVK mobilized the marketing channel for the SHG, especially women SHGs, associated with the production of rural and other handicrafts, by linking them with yearly Krishi melas, rural fairs and town based cooperatives dealing with selling of crafts etc. KVK has also connected SHG doing katha stich with traders from Bolpur.

KVK has created financial opportunity for many of the SHGs formed by linking them with NABARD, rural banks etc.

7.8. Special programme on Nutrition :

The Nutrition day was celebrated on 1<sup>st</sup> September, 2015.The awareness programme was held at Kasba village of Galsi-I block with an initiative to combat the problem of malnutrition or under nutrition among children and women especially in rural areas. Supervisors, Anganwadi workers of ICDS scheme, ASHA (Accredited Social Health Activists) workers, panchayat members, teachers, village women, pregnant and lactating women , adolescents girls and school students were participated. Different programme related to nutrition like video shows, demonstration of rice based weaning food preparation, cheap nutritional recipes using locally available resources etc. were also organized. Around 140 farm women and farmers were benefited from it.

| Name of       | Number of | Season           | With line             | With ATMA | Both |
|---------------|-----------|------------------|-----------------------|-----------|------|
| activity      | activity  |                  | department            |           |      |
| Technology    |           |                  |                       | ATMA,     | Both |
| week & Krishi | 01        | Rabi, 2015       | DDA, Burdwan          | Burdwan   |      |
| Mela          |           |                  |                       |           |      |
| CMAM          | 02        | Dah: 2015        | DDA Bundaron          | ATMA,     | Both |
| SMAN          | 02        | Kabi, 2015       | DDA, buruwan          | Burdwan   |      |
| Vaccination   |           |                  | Animal husbandry      | -         | -    |
| vaccination   | 01        | Year round       | dept., Burdwan,       |           |      |
| camp          |           |                  | West Bengal           |           |      |
| Seed          | 01        | Kharif 2015      | Dept. of Agriculture, | -         | -    |
| production    | 01        | Kharii 2015      | West Bengal           |           |      |
| Kisan         | 02        | Kharif and Rabi, | Dept. of Agriculture, | -         | -    |
| Sammelan      | 02        | 2015             | West Bengal           |           |      |
| SAC           | 01        | Kharif, 2015     | All line dept., west  | -         | -    |
| SAC           | 01        |                  | Bengal                |           |      |
| Farmers       | 01        | Year round       | All line dept., west  |           |      |
| training      | 01        |                  | Bengal                |           |      |

#### 7.9. Joint activity carried out with line departments and ATMA

# 8. Other information

# 8.1. Prevalent diseases in Livestock/Crops/Fishery

| Name of<br>the disease | Crop/animal | Date of<br>outbreak | Number of<br>death / %<br>commodity | Number of animals<br>vaccinated                |
|------------------------|-------------|---------------------|-------------------------------------|--|
|                        |             |                     | loss                                |  |
| Late blight            | Potato      | 10.1.16             | 10%                                 |  |
| PPR                    | Goat        | 17.7.15             | 200 nos                             | 600 goats are vaccinated in<br>nearby villages |

# 8.2. Nehru YuvaKendra(NYK) Training-- N/A

| Title of the training programme | Peri | od | No. of the participant |   | Amount of Fund<br>Received (Rs) |
|---------------------------------|------|----|------------------------|---|---------------------------------|
|                                 | From | То | М                      | F |                                 |
|                                 |      |    |                        |   |                                 |
|                                 |      |    |                        |   |                                 |

# 8.3. PPV & FR Sensitization training Programme

| Date of organizing | Resource Person | No. of participants | Registration | (crop wise)  |
|--------------------|-----------------|---------------------|--------------|--------------|
| the programme      |                 |                     |              |              |
|                    |                 |                     | Name of      | No. of       |
|                    |                 |                     | crop         | registration |
|                    |                 |                     |              |              |

# 8.4. SMS PORTAL

Date of startof functioning of SMS portal

| No. of   | No.   | No. of  |      | Types of messages (No.) |        |          |          |       |
|----------|-------|---------|------|-------------------------|--------|----------|----------|-------|
| messages | of    | farmers | Crop | Livestoc                | Weathe | Marketin | Awarenes | Other |
| _        | calls | covered | -    | k                       | r      | g        | S        |       |
| 77       | 3120  | 132859  | 30   | 15                      | 25     | 2        | -        | 5     |

# 8.5 Observation of Swacha Bharat Programme

| Date of Observation | Activities undertaken               |
|---------------------|-------------------------------------|
| 25.07.15            | Cleaning of the kvk adopted village |
| 07.08.15            | Cleaning of the Admin building      |

| 02.10.15 | Cleaning of the premises farmers hostel, animal shed, farm area, green house and fish ponds along with some visiting farmers. |
|----------|---|
| 08.12.15 | Cleaning of the Surrounding of Adm building & road  |
| 09.01.16 | Cleaning of the Stores in Adm building & at hostel  |
| 10.02.16 | Cleaning of the Residential quarters T-III & Surroundings   |

# 8.6 Observation of National Science day

| Date of Observation | Activities undertaken |
|---------------------|-----------------------|
|                     |                       |

# 8.7. Programme with SeemaSurakshaBal (BSF)

| Title of Programme | Date | No. of participants |
|--------------------|------|---------------------|
|                    |      |                     |

# 8.8 Agriculture Knowledge in rural school:

| Name and address of           | Date of visit | Areas covered                 | Teaching aids used   |
|-------------------------------|---------------|-------------------------------|----------------------|
| school                        | to school     |                               | _                    |
| Bud Bud Hindi School, BudBud, | 12.11.2015    | General sensitization of      | Presentation,        |
| Burdwan, W.B.                 |               | school children on prospect   | Live crop cafeteria, |
|                               |               | and contribution of           | Live demonstration   |
|                               |               | agriculture in our livelihood | unit                 |

8.9. Details of Kharif and Rabi Sammelan (Information should be provided in two separate tables – one for Kharif and another for Rabi Sammelan)

| Name   | Name of   | Date on   | Numb    | er of  | Name of  | Details of Technology    |
|--------|-----------|-----------|---------|--------|----------|--------------------------|
| of the | district/ | which     | partici | pants  | public   | Demonstrated and         |
| state  | KVK       | conducted | Farmers | Others | represen | other programmes         |
|        |           |           |         |        | tative   | organized                |
| West   | Burdwa    | 09.07.15  | 165     | 25     | N.       | Awareness camp, live     |
| Bengal | n         |           |         |        | Chakrob  | cafeteria,               |
|        |           |           |         |        | orty,    | demonstration units,     |
|        |           |           |         |        | Krishi   | rural crafts and farmers |
|        |           |           |         |        | Karmad   | exhibits.                |
|        |           |           |         |        | hakshya  |                          |
| West   | Burdwa    | 10.02.16  | 175     | 15     | S.       | Awareness camp, live     |
| Bengal | n         |           |         |        | Mondal,  | cafeteria,               |
|        |           |           |         |        | MP       | demonstration units,     |

|  |  |  | rural crafts and farmers |
|--|--|--|--------------------------|
|  |  |  | exhibits.                |

8.10. Details of Pradhan Mantri Fasal BimaYojana programme organized

| Name   | Name of   | Date on   | Number of      |   | Name of  | Details of awareness     |
|--------|-----------|-----------|----------------|---|----------|--------------------------|
| of the | district/ | which     | participants   |   | public   | created and other        |
| state  | KVK       | conducted | Farmers Others |   | represen | programmes organized     |
|        |           |           |                |   | tative   |                          |
| West   | Burdwa    | 05.04.16  | 75             | 6 | NA due   | Awareness camp, live     |
| Bengal | n         |           |                |   | to MCC   | cafeteria,               |
| _      |           |           |                |   |          | demonstration units,     |
|        |           |           |                |   |          | rural crafts and farmers |
|        |           |           |                |   |          | exhibits.                |

# 8.11. Contingent crop planning

| Name   | Name of   | Thematic | Number of  | Number   | A brief about       |
|--------|-----------|----------|------------|----------|---------------------|
| of the | district/ | area     | programmes | of       | contingent plan     |
| state  | KVK       |          | organized  | Farmers  | executed by the KVK |
|        |           |          |            | contacte |                     |
|        |           |          |            | d        |                     |
|        |           |          |            |          |                     |

8.12. Report on Citizens' Client Charter (attending the requests seeking guidance on agricultural

technology and technology products)

| Sl. | Services/      | Process             | Service  | No. of such  | No. of such services |
|-----|----------------|---------------------|----------|--------------|----------------------|
| No. | Transaction    |                     | Standard | services     | pending with         |
|     |                |                     |          | attended by  | KVK/ATIC beyond      |
|     |                |                     |          | KVKs and     | 30 days              |
|     |                |                     |          | ATICs during |                      |
|     |                |                     |          | the year     |                      |
| 1.  | Guidance on    | Personal contact by | 30 days  | 146665       | NIL                  |
|     | Agricultural   | the Service Sectors | -        |              |                      |
|     | technology and | with the            |          |              |                      |
|     | technology     | responsible person  |          |              |                      |
|     | products       | of KVK/ATIC         |          |              |                      |

# 8.13. Community Radio Station

Date of establishment:

# Amount of fund received yearwise :

Source of fund:

Achievements:

| Sr. no | Community Radio Stations (CRS)  | No of       | Total     | Please specify |
|--------|---|-------------|-----------|----------------|
|        |   | programmes  | broadcast | details of the |
|        |   | in the year | hrs in a  | broadcasts     |
|        |   |             | month     |                |
| А.     | Agricultural broadcasts   |             |           |                |
|        | • Talks/interviews/discussions<br>with experts, PG students/ and<br>farmers on Agricultural<br>technologies |             |           |                |
|        | • Agro-climatic conditions, weather and marketing advisory  |             |           |                |
|        | • Phone-in programme of interface with experts  |             |           |                |
|        | • Phone-in programme with interface of progressive/innovative farmers                                       |             |           |                |
|        | • Success stories of progressive farmers  |             |           |                |
|        | <ul> <li>Success stories in FLD/OFT/<br/>Trainings / Extension activities</li> </ul>                        |             |           |                |
|        | • Women in agriculture programme  |             |           |                |
|        | • Discussions on current issues in agriculture and allied sectors.  |             |           |                |
| B.     | <ul><li>KVK happenings</li><li>Agricultural University professors.</li></ul>                                |             |           |                |
|        | • Any other(please specify)   |             |           |                |
|        | Community development broadcasts  |             |           |                |
|        | Please specify the programmes like  |             |           |                |

| Sr. no | Community Radio Stations (CRS)      | No of       | Total     | Please specify |
|--------|-------------------------------------|-------------|-----------|----------------|
|        |                                     | programmes  | broadcast | details of the |
|        |                                     | in the year | hrs in a  | broadcasts     |
|        |                                     |             | month     |                |
|        | rural development, educational,     |             |           |                |
|        | health, environment, public service |             |           |                |
|        | broadcasts, sports etc.             |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |
|        |                                     |             |           |                |

8.14 No. of Progressive/Innovative/Lead farmer identified (category wise)

Agriculture: 5 Horticulture: 6 Animal Science: 7 Fisheries: 12

# 8.15 HRD programmes organized by the KVK

| Training programme/<br>Seminar/ Symposia/<br>Workshop etc attended | Duration | Name of the participants | Designation | Organizer of the training Programme |
|--|----------|--------------------------|-------------|-------------------------------------|
|  |          |                          |             |                                     |
|  |          |                          |             |                                     |

# 8.16. Revenue generation:

| SL.No. | Name of Head | Income(lakh Rs.)               | Sponsoring agency |
|--------|--------------|--------------------------------|-------------------|
| 1.     | Paddy seed   | 10.00 (approx; yet to be sold) |                   |
| 2.     | Banana       | 0.14                           |                   |
| 3.     | Goat         | 0.06                           |                   |
| 4.     |              |                                |                   |

8.17. Resource Generation:

| SL.No. | Name of the | Purpose of the | Sources of fund | Amount      | Infrastructure |
|--------|-------------|----------------|-----------------|-------------|----------------|
|        | programme   | programme      |                 | (Rs. lakhs) | created        |

| 1 | NABARD | Training, demo etc | NABARD | 1.45 |  |
|---|--------|--------------------|--------|------|--|
| 2 | SMAM   | Creating           | DAC    | 2.00 |  |
|   |        | awareness on farm  |        |      |  |
|   |        | mechanization      |        |      |  |
| 3 | NFSM   | Demo on pulse      | DAC    | 3.00 |  |
|   |        | crop               |        |      |  |
| 4 | NMOOP  | Demo on oilseed    | DAC    | 3.30 |  |

### 8.18. Performance of Automatic Weather Station in KVK

| Date of<br>establishment | Source of funding i.e.<br>IMD/ICAR/Others (pl. specify) | Present status of functioning |
|--------------------------|---|-------------------------------|
|                          |   |                               |
|                          |   |                               |

## 8.19. IPNI Trail (Applicable for KVKs identified under IPNI trial)

- I Name of Crop
- II No. of farmers involved
- III Area (ha.)
- IV Date of sowing
- V Crop Season
- VI Result of trial with photographs however detailed results/observation should be

sent as per performance after crop harvest

VII Amount Spent

## 9. Achievement under TSP Project

| Name of the     | Block  | Population of |     |     | ST Population  |     |     | Percentage of ST    |
|-----------------|--------|---------------|-----|-----|----------------|-----|-----|---------------------|
| village adopted |        | the village   |     |     | of the village |     |     | population to total |
| under TSP       |        | Ŭ             |     |     |                |     |     | population          |
|                 |        | М             | F   | Т   | Μ              | F   | Т   |                     |
| Payarigunge     | Kanksa | 250           | 235 | 485 | 220            | 215 | 435 | 85%                 |

Asset created under TSP: Vermicompost pit, nail weeder

Fund received under TSP in 2015-16: 4.00 lakh

# 10.PROGRESS REPORT OF NICRA KVK (Technology Demonstration component) 2015-16 (Applicable for KVKs identified under NICRA)

Natural Resource Management

| Name of      | Numbers | No    | Area | No of      | Remarks |
|--------------|---------|-------|------|------------|---------|
| intervention | under   | of    | (ha) | farmers    |         |
| undertaken   | taken   | units |      | covered /  |         |
|              |         |       |      | benefitted |         |
|              |         |       |      |            |         |
|              |         |       |      |            |         |
|              |         |       |      |            |         |
|              |         |       |      |            |         |
|              |         |       |      |            |         |

### **Crop Management**

| Name of intervention | Area | No of farmers | Remarks |
|----------------------|------|---------------|---------|
| undertaken           | (ha) | covered /     |         |
|                      |      | benefitted    |         |
|                      |      |               |         |
|                      |      |               |         |
|                      |      |               |         |
|                      |      |               |         |

# Livestock and fisheries

| Name of      | Number  | Number   | Area | No of      | Remarks |
|--------------|---------|----------|------|------------|---------|
| intervention | of      | of units | (ha) | farmers    |         |
| undertaken   | animal  |          |      | covered /  |         |
|              | covered |          |      | benefitted |         |
|              |         |          |      |            |         |
|              |         |          |      |            |         |

# Institutional interventions

| Name of      | No of | Area | No of      | Remarks |
|--------------|-------|------|------------|---------|
| intervention | units | (ha) | farmers    |         |
| undertaken   |       |      | covered /  |         |
|              |       |      | benefitted |         |
|              |       |      |            |         |

# Capacity building

| Thematic area | No. of  | No. of beneficiaries |         |       |
|---------------|---------|----------------------|---------|-------|
|               | Courses | Males                | Females | Total |
|               |         |                      |         |       |
|               |         |                      |         |       |
|               |         |                      |         |       |
|               |         |                      |         |       |

Extension activities

| Thematic area | No. of    | No. of beneficiaries |         |       |
|---------------|-----------|----------------------|---------|-------|
|               | activitie | Males                | Females | Total |
|               | S         |                      |         |       |
|               |           |                      |         |       |
|               |           |                      |         |       |

Detailed report should be provided in the circulated Performa

# 11. National Initiative on Fodder Technology Demonstration (NIFTD) (Applicable for KVKs identified under NIFTD)

| Name of<br>the fodder<br>crop | Date of sowing | Area<br>(ha) | No. of<br>farmers<br>involved | Dem<br>Yield | onstrati<br>l (q/ha | ion<br>) | Ch | eck Yi | eld | % increase |
|-------------------------------|----------------|--------------|-------------------------------|--------------|---------------------|----------|----|--------|-----|------------|
|                               |                |              |                               | Н            | L                   | А        | Η  | L      | Α   |            |
|                               |                |              |                               |              |                     |          |    |        |     |            |
|                               |                |              |                               |              |                     |          |    |        |     |            |

# Economic of Demonstration

| Name of the fodder crop | Demonstration Cost/Rs/ha |                 |          | Check Cost (Rs/ha) |                 |          |
|-------------------------|--------------------------|-----------------|----------|--------------------|-----------------|----------|
| <b>1</b>                | Gross cost               | Gross<br>return | BC ratio | Gross cost         | Gross<br>return | BC ratio |
|                         |                          |                 |          |                    |                 |          |

# 12. Awards/Recognition received by the KVK

| Sl. | Name of the | Year | Conferring Authority | Amount | Purpose |
|-----|-------------|------|----------------------|--------|---------|
| No. | Award       |      |                      |        |         |
|     |             |      |                      |        |         |
|     |             |      |                      |        |         |
|     |             |      |                      |        |         |

# Award received by Farmers from the KVK district

| Sl. | Name of the | Name of the | Year | Conferring | Amount | Purpose |
|-----|-------------|-------------|------|------------|--------|---------|
| No. | Award       | Farmer      |      | Authority  |        |         |
|     |             |             |      |            |        |         |
|     |             |             |      |            |        |         |
|     |             |             |      |            |        |         |

13. Any significant achievement of the KVK with facts and figures as well as quality photograph

14. Any other programme organized by KVK not covered above

# <u>Proceedings of the Twelfth Scientific Advisory Committee Meeting</u> <u>held on September 23, 2015</u>

The XII<sup>th</sup> meeting of Scientific Advisory Committee (SAC) for KVK, Burdwan was held at KVK on September 23<sup>rd</sup>, 2015. The meeting was conducted under the chairmanship of Dr. P.G. Karmarkar, Director, CRIJAF and was illuminated by the presence of Dr. H. S. Sen, Former Director, ICAR-CRIJAF and Guest of Honour for the occassion, Dr. R. K. Mandal, Ex-Head of Division, CRIJAF, Dr. B. Maji, Head, CSSRI, Canning, Dr. T. K. Dutta, Head, NDRI, ERS, Kalyani, Dr. S. Satpathy, Head, Crop Protection and Headquarter Incharge for KVK, CRIJAF, Dr. D. K. Kundu, Head, Crop Production, CRIJAF, Dr. S. Sarkar, Incharge Agril Extn, CRIJAF, Dr. S. K. Mondal, Pr. Scientist, ATARI, Kolkata, Dr. Subrata Biswas, Scientist-in-charge, CSRSJAF, Bud Bud, Dr. B. C. Das, Pr. Scientist, ERS-IVRI, Kolkata, Mr. Jagannath Chtterjee, DDA (admin), Burdwan and many other line department officials apart from representatives of farmers and farm women.

Dr. D. Ghorai, Programme Coordinator (I/C) of KVK formally welcomed all the delegates. With the permission of Chair, Dr. Ghorai presented the action taken report on the recommendations given during the previous SAC meeting. Dr. Supratik Maitra, DHO, Burdwan asked for the feasibility report of high density planting of fruit crops so that his department can also take up necessary measures in this regard across the district. Regarding impact assessment of activities, Dr. B. Maji suggested that some suitable soil parameters, and the changes in those parameters therein, be also included in the impact assessment. This was followed by presentation of KVKs Progress Report of 2014-15 and Action Plan for the year 2015-16.

It was then followed by general discussion and recommendation session. First of all, farmers were invited to speak their minds up regarding the activities of KVK and the changes it has brought in their socio-economic status. Sri Sudhir das, one small jute farmer informed the house that application of CRIJAF SONA has fetched much higher return (Rs. 470/- per qtl) for jute and the technology should be promoted throughout the area. Chairman urged upon the KVK to assess the changes in social parameters brought about by jute cultivation using improved methodologies. He also urged that since the KVK is about to complete 10 years of working, one publication containing

the achievements be prepared. Regarding vermicomposting, Dr. Sen argued that use of water hyacinth in vermicompost preparation be done with caution since water hyacinth contains heavy metals. Dr. T.K. Dutta opined that instead of water hyacinth, azolla can be used (20 - 30%) in vermicompost production.

Mr. J. Chatterjee, DDA observed that the improved technologies of rice production, like, drum seeder, SRI are not getting disseminated well enough and requested the KVK to explore the reasons behind. Mr. Pradip Mondal, ADA (Seed certification) suggested to explore the possibilities of jute seed production in the western belt of the district.

Regarding animal husbandry activities, Dr. Rana, DVO opined that business mindedness need to be inculcated among the animal growers and KVK may take necessary measures in this regard. Dr. S. K. Mandal, PS, ATARI emphasized that although SMS (AH&VS) has left, activities in this field must not be fully stopped and progressive farmers, other extension functionaries should be hired to fulfill the mandated activities. Regarding fishery activities, DFO, Burdwan suggested that social fish farming should be given adequate stress and all the water bodies in adopted villages should be brought under fish cultivation.

Dr. Das, PS, ERS-IVRI assured the KVK on collaboration in conducting vaccination camps and trainings on animal husbandry. He requested the KVK to take expert farmers in exposure visit to the goat farm they have developed at Kalyani. Dr. Dutta, Head, ERS-NDRI put forth many useful suggestions regarding activities of animal husbandry which included promotion of azolla production, short term training at NDRI, collaborative animal health camps etc.

Dr. S. K. Mamdal, ATARI urged upon KVK to prepare action taken report quantitatively, in lieu of only qualitative reporting. Feasibility study for high density planting of fruit crops should be studied in villages other than that under SAGY.

Dr. S. Satpathy put forward some very meaningful suggestions like, formation of farmers database, integrated approach for jute, animal husbandry activities in the western part through TSP, due stress on fodder production, potential cultivation of annual moringa, promotion of high value vegetables like red cabbage, brocolli etc., documentation of success stories, approaching NJB for fund support regarding long term training on jute.

Dr. H. S. Sen, Guest of honour, besides praising the KVK for the diverse activities, remarked that linking farmers to suitable markets should be stressed upon

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Dr. P.G. Karmarkar, Chairman, in his concluding remarks, urged upon the KVK to identify successful farmer's model for small and marginal farmers in the district and replicate them in areas wherever feasible. He stressed on documenting success stories properly. He also emphasized to use gender perspective in extension. He informed the house that in view of the increasing necessity of proper marketing of agricultural produces, KVKs are likely to get one specialist in the field of agriculture marketing during the XIIth plan.

The meeting was concluded with vote of thanks from Dr. M. S. Singh, SMS, KVK. Following are the recommendations given by the committee,

- Action taken report should be quantitative.
- Inclusion of soil parameters in impact assessment.
- Change in social parameters of jute farmers using improved technologies to be assessed.
- Azolla to be included in vermicompost production.
- Social fish farming should be stressed upon.
- Evaluation of potentiality of annual moringa cultivation in KVK farm.
- High value vegetables cultivation like broccoli should be done.
- Collaborative animal health camps with IVRI, NDRI to be done.
- Farmers database with requisite data on socio-economic changes to be made.
- Integrated technology demonstration on jute should be done.
- Success story should be documneted.
- Potentiality of cultivation of onion should be explored.

## List of participants:

| Sl. | Name             | Designation & Address                 |
|-----|------------------|---------------------------------------|
| No. |                  |                                       |
| 1.  | Dr. H. S. Sen    | Former Director, ICAR-CRIJAF          |
| 2.  | Dr. P.G.Karmakar | Director, ICAR-CRIJAF, Barrackpore    |
| 3.  | Dr. R. K. Mondal | Ex-Pr. Scientist, ICAR-CRIJAF         |
| 4.  | Dr. S. K. Mandal | Pr. Scientist, ICAR-ATARI, Kolkata    |
| 5.  | Dr. T. K. Dutta  | Head, ERS-ICAR-NDRI, Kalyani          |
| 6.  | Dr. B. Maji      | Head, ICAR-CSSRI-RRI, Canning         |
| 7.  | Dr. B. C. Das    | Pr. Scientist, ERS-ICAR-IVRI, Kolkata |

| 8.  | Dr. S. Satpathy        | Head, Crop. Protection, ICAR-CRIJAF   |
|-----|------------------------|---------------------------------------|
| 9.  | Dr. D.K. Kundu         | Head, Crop Production, ICAR-CRIJAF    |
| 11. | Dr. S. Biswas          | Scientist In-charge, CSRSJAF, Bud Bud |
| 12. | Dr. J. Mitra           | Head, Crop Improvement, ICAR-CRIJAF   |
| 13. | Dr. Sitangshu Sarkar   | Incharge, Agril.Ext. ICAR-CRIJAF      |
| 14. | Dr. Ritesh Saha        | Sr. Scientist, AO, ICAR-CRIJAF        |
| 15. | Dr. Debashis Langal    | DFO, Burdwan                          |
| 16. | Dr. Bikas Ch. Rana     | DVO, Burdwan                          |
| 17. | Dr. J. Chatterjee      | DDA (Admin.), Burdwan                 |
| 18. | Dr. S. Ghatak          | ADA (PP), Burdwan                     |
| 19. | Dr. S. Maitra          | DHO, Burdwan                          |
| 20. | Mr. Pradip Mondal      | ADA (Seed Certification), Burdwan     |
| 21. | Dr. Dipankar Ghorai    | I/C Prog. Coordinator, KVK Burdwan    |
| 22. | Sk Jonab Ali           | Farmer representative, Atpara         |
| 22. | Sk Amir Md             | Progressive Farmer, Atapara           |
| 23. | Mahendra Mandi         | Progressive Farmer, Deara             |
| 24. | Sarfaraj Ali Sk        | Progressive Farmer, Deulpara          |
| 25. | Amalesh Chowdhury      | Progressive Farmer, Rasulpur          |
| 26. | Sk Sohraboddin         | Progressive Farmer, Khetura           |
| 27. | Sk Soyeb Hossain       | Progressive Farmer, Jagulipara        |
| 28. | Chowdhury Amirul Haque | Progressive Farmer, Jagulipara        |
| 29. | Bipul Mallick          | Progressive Farmer, Harindanga        |
| 30. | Bablu Tudu             | Progressive Farmer, Harindanga        |
| 31. | Bhaskar Deasi          | Progressive Farmer, Nurkona           |
| 32. | Sudhir Das             | Progressive Farmer, Kuricha           |
| 33. | Nurjahan Khatun        | Farm women representative             |
| 34. | Dr. Subrata Sarkar     | SMS (Hort.), KVK Burdwan              |
| 35. | Dr. M. S.Singh         | SMS (Ag. Extn), KVK Burdwan           |
| 36. | Sk. Golam Rasul        | Prog. Asstt. (Comp.), KVK Burdwan     |
| 37. | Mr. Sandipan Garai     | Programme Assistant, KVK Burdwan      |

.

### **ANNEXURE-II**

### Impact assessment of KVK activities in Jagulipara village

### Table IA: Distribution of respondents on basis of sex

| Category | No | %      |
|----------|----|--------|
| Male     | 21 | 84.00  |
| Female   | 4  | 16.00  |
|          | 25 | 100.00 |

### Table IIA : Distribution of respondents on basis of Age

| Category     | No | %      |
|--------------|----|--------|
| 31 and below | 3  | 12.00  |
| 32-50        | 17 | 68.00  |
| 51 and above | 5  | 30.00  |
|              | 25 | 100.00 |

### Table IIIA : Distribution of respondents on basis of education

| Category         | No | %      |
|------------------|----|--------|
|                  |    |        |
| Illiterate       | 0  | 0.00   |
| Primary          | 16 | 64.00  |
| Secondary        | 7  | 28.00  |
| Higher secondary | 1  | 4.00   |
| Degree           | 1  | 4.00   |
|                  | 25 | 100.00 |

### Table IVA : Distribution of respondents on basis of family size

| Category    | No | %      |
|-------------|----|--------|
|             |    |        |
| 3 and below | 4  | 16.00  |
| 4-6         | 15 | 60.00  |
| 7 and above | 6  | 24.00  |
|             | 25 | 100.00 |

| Category              | No | %      |
|-----------------------|----|--------|
|                       |    |        |
| Landless              | 3  | 12.00  |
| Marginal (<1ha)       | 13 | 52.00  |
| Small (1-2 ha)        | 4  | 16.00  |
| Semi- medium (2-4 ha) | 5  | 20.00  |
| Medium (4-10 ha)      | 0  | 0.00   |
| Large (>10 ha)        | 0  | 0.00   |
|                       | 25 | 100.00 |

### Table VA : Distribution of respondents on basis of land holding

### Table VIA: Distribution of respondents on basis of following attributes

| Type of house owned                  | Kaccha | House  | Расса | House | То    | tal    |  |
|--------------------------------------|--------|--------|-------|-------|-------|--------|--|
|                                      | No     | %      | No    | %     | No    | %      |  |
|                                      | 9      |        | 16    |       |       | 100.00 |  |
|                                      |        |        |       |       |       |        |  |
| Particulars                          | Y      | es     | Ν     | lo    | Total |        |  |
|                                      | No     | %      | No    | %     | No    | %      |  |
| Availability of Pond                 | 12     | 48.00  | 13    | 52.00 | 25    | 100.00 |  |
| Availability of horticultural garden | 15     | 60.00  | 10    | 40.00 | 25    | 100.00 |  |
| Availability of Cattle               | 18     | 72.00  | 7     | 28.00 | 25    | 100.00 |  |
| Availability of Paddy Thresher       | 17     | 68.00  | 8     | 32.00 | 25    | 100.00 |  |
| Availability of Pump set             | 17     | 68.00  | 8     | 32.00 | 25    | 100.00 |  |
| Availability of Bicycle              | 21     | 84.00  | 4     | 16.00 | 25    | 100.00 |  |
| Availability of of Motor bike        | 14     | 56.00  | 11    | 44.00 | 25    | 100.00 |  |
| Availability of radio set            | 3      | 12.00  | 22    | 88.00 | 25    | 100.00 |  |
| Availability of TV                   | 23     | 92.00  | 2     | 8.00  | 25    | 100.00 |  |
| Availability of mobile               | 25     | 100.00 | 0     | 0.00  | 25    | 100.00 |  |
| Availability of Sprayers             | 20     | 80.00  | 5     | 20.00 | 25    | 100.00 |  |

# Table VIIA: Distribution of respondents on basis of Frequency of meeting with KVK

| Category       | No | %      |
|----------------|----|--------|
|                |    |        |
| Daily          | 0  | 0.00   |
| Weekly         | 7  | 28.00  |
| Monthly        | 18 | 72.00  |
| Quarterly      | 0  | 0.00   |
| Once in season | 0  | 0.00   |
|                | 25 | 100.00 |

# Table VIIIA: Sources of information

| Source            | Attribute (%) |            |         |           |            |  |  |  |  |  |
|-------------------|---------------|------------|---------|-----------|------------|--|--|--|--|--|
|                   | Reliability   | Regularity | Quality | Relevance | Timeliness |  |  |  |  |  |
| KVK               | 100           | 100        | 100     | 100       | 100        |  |  |  |  |  |
| Neighbour/Friends | 92            | 56         | 54      | 72        | 100        |  |  |  |  |  |
| Relative          | 92            | 48         | 56      | 60        | 56         |  |  |  |  |  |
| ADO/ ADA          | 96            | 92         | 92      | 84        | 92         |  |  |  |  |  |
| TV                | 72            | 44         | 68      | 52        | 28         |  |  |  |  |  |

# Table IXA: Cropping pattern

| Crop                         |           | Before KVK                          |           |           | After KVK                           |           |
|------------------------------|-----------|-------------------------------------|-----------|-----------|-------------------------------------|-----------|
|                              | Area (ha) | Area under<br>improved<br>varieties | Yield/ ha | Area (ha) | Area under<br>improved<br>varieties | Yield/ ha |
| Paddy                        | 360       | -                                   | 45-50q    | 360       | 50                                  | 60-70 q   |
| Mustard                      | 27        | -                                   | 8-9 q     | 30        | 15                                  | 11q       |
| Onion                        |           |                                     |           | 15        | 15                                  | 60q       |
| Tomato                       |           |                                     |           | 7         | 7                                   | 230q      |
| Brinjal                      |           |                                     |           | 3         | 3                                   | 226q      |
| Tissue<br>Cultured<br>Banana | 1         | -                                   | 400q      | 1.5       | 1.5                                 | 760q      |
| Fodder                       |           |                                     |           | 2         | 2                                   | 213q      |

### Table XA: Impact of FLD

| Demonstrated<br>technology                   | I Crop Productivity No of % change<br>Beneficiary |                | 9              | % of adoption | Im<br>far | pact at<br>m (%) |       |          |     |       |        |
|--|---|----------------|----------------|---------------|-----------|------------------|-------|----------|-----|-------|--------|
|  |   | СР             | Demo           | %<br>change   |           | Knowledge        | Skill | Attitude |     | Yield | Income |
| Production<br>technology of variety<br>B – 9 | Mustard   | 10.2<br>(q/ha) | 11.3<br>(q/ha) | 11            | 30        | 78               | 69    | 61       | 48  | 11    | 12     |
| IPM  | Mustard   | 10.25          | 13.75          | 34.20         | 5         | 39               | 26    | 19       | 23  | 34.20 | 24.51  |
| Package<br>demonstration of<br>MTU-7029      | Paddy   | 40.85          | 44.26          | 8             | 7         | 87               | 85    | 85       | 100 | 8     | 11     |
| SRI  | Paddy   | 53.6           | 71.6           | 34            | 15        | 48               | 23    | 24       | 34  | 34    | 18.97  |
| Late blight disease management               | Potato  | 250            | 280            | 12            | 10        | 65               | 62    | 58       | 43  | 7     | 11.81  |
| Fodder Production                            | Ricebean<br>(Bidhan<br>1)                         | 187.4          | 232            | 23.7          | 5         | 78               | 72    | 34       | 16  | 23.7  | 15.4   |
| Component<br>demonstration                   | Brinjal   | 213.7          | 226.5          | 6             | 8         | 44               | 38    | 31       | 13  | 8     | 12     |
| Pheromone Trap                               | Brinjal   | 231            | 246            | 6.7           | 6         | 56               | 32    | 19       | 4   | 6     | 13     |
| Package<br>demonstration<br>G-9              | Banana  | 414            | 782            | 88.9          | 5         | 23               | 18    | 18       | 28  | 88.9  | 20.3   |
| Thrips management                            | Chilli  | 76.5           | 96             | 25.5          | 2         | 56               | 48    | 40       | 32  | 25.5  | 18.0   |
| Livestock                                    |   |                |                |               |           |                  |       |          |     |       |        |
| Mineral Mix                                  | Cattle  | 291.7          | 410.9          | 40.8          | 10        | 87               | 85    | 88       | 38  | 37.5  | 7      |
| Khaki Cambell                                | Duck  | 180            | 210            | 16.6          | 5         | 84               | 78    | 77       | 27  | 12    | 8      |
| Fish   | Jayanti<br>rohu                                   | 9.20           | 9.77           | 6             | 5         |                  |       |          | 19  | 5     | 10     |
| Fish   | Pangus  | 3.1            | 4.0            | 29            | 7         | 68               | 65    | 63       | 23  | 7     | 9      |
| Fish   | Tilapia   | 5.0            | 5.95           | 19            | 10        | 45               | 35    | 35       | 11  | 10    | 7      |

### **Table XIA: Impact of training**

| SI.<br>No | Subject of training                       | Crop                       | % change due to training |       |          | Yield (q/ha) |                    |                   | % change in income |                                      |                   | No of<br>beneficiary |    |
|-----------|---|----------------------------|--------------------------|-------|----------|--------------|--------------------|-------------------|--------------------|--------------------------------------|-------------------|----------------------|----|
|           |   |                            | Knowledge                | Skill | Attitude | Adoption     | Before<br>training | After<br>training | %<br>change        | Before<br>training<br>Net<br>[profit | After<br>training | %<br>change          |    |
| 1         | Weed<br>Management                        | Rice                       | 78                       | 65    | 47       | 13           | 50                 | 58                | 16                 | 31450                                | 35380             | 12.49                | 40 |
| 2         | Water<br>management                       | Rice                       | 48                       | 42    | 26       | 5            | 50                 | 61                | 22                 | 31450                                | 37369             | 18.82                | 40 |
| 3         | Seed<br>production                        | Rice                       | 59                       | 43    | 53       | 7            | 50                 | 60                | 20                 | 31450                                | 36740             | 16.82                | 60 |
| 4         | Nursery<br>management                     | Rice                       | 83                       | 79    | 77       | 28           | 50                 | 57                | 14                 | 31450                                | 33853             | 7.64                 | 60 |
| 5         | Integrated<br>Crop<br>Management          | Rice                       | 36                       | 24    | 19       | 7            | 50                 | 54                | 8                  | 31450                                | 33149             | 5.40                 | 40 |
| 6         | Seed<br>Treatment                         | Rice                       | 100                      | 100   | 100      | 100          | 50                 | 55                | 10                 | 31450                                | 35480             | 11.35                | 90 |
| 7         | SRI                                       | Rice                       | 87                       | 53    | 39       | 30           | 50                 | 75                | 50                 | 31450                                | 49000             | 55.80                | 90 |
| 8         | Production<br>technology of<br>vegetables | Vegetables                 | 67                       | 54    | 48       | 16           | 213                | 234               | 10                 | 47750                                | 58946             | 23.45                | 40 |
| 9         | Layout and<br>Management of<br>Orchards   | Banana                     | 39                       | 38    | 23       | 3            | 414                | 782               | 88.9               | 90500                                | 184000            | 103.00               | 20 |
| 10        | Plant<br>propagation<br>techniques        |                            | 19                       | 15    | 13       | 1            | -                  | -                 | -                  | -                                    | -                 | -                    | 20 |
| 11        | Production of organic inputs              | Vermicompost,<br>Vermiwash | 36                       | 34    | 27       | 3            | -                  | -                 | -                  | -                                    | 20000             | 100.00               | 20 |

| 12 | Fodder<br>production  | Ricebean                  | 21              | 17   | 16 | 2  | 194                        | 240   | 23.71 | 3895    | 6100   | 56.00  | 30 |
|----|---|---------------------------|-----------------|--|----|----|----------------------------|-------|-------|---------|--------|--------|----|
| 13 | Nursery raising<br>for vegetables   | Onion, brinjal,<br>Tomato | 17              | 14   | 13 | 4  | 218                        | 249   | 14.22 | 38900   | 57800  | 48.58  | 20 |
| 14 | Dairy<br>Management   | Cow                       | 83              | 79   | 74 | 68 | 293                        | 432.5 | 47.6  | 510     | 2189   | 329.21 | 60 |
| 15 | Poultry<br>Management   | Hen                       | 85              | 82   | 78 | 72 |                            |       |       | 20000   | 60000  | 200.00 | 45 |
| 16 | Disease<br>Management   | Animal                    | 87              | 78   | 73 | 70 | Mortality decreased by 31% |       |       |         |        | 100    |    |
| 17 | Household food<br>security by<br>kitchen<br>gardening and<br>nutrition<br>gardening |                           | 34              | 27   | 21 | 7  | 140                        | 210   | 50    | 56100   | 93500  | 66.67  | 20 |
| 18 | Formation of<br>SHG   |                           | 68              | 59   | 57 | 36 | 7 SHG for                  | rmed  |       |         |        |        | 60 |
| 19 | Composite Fish<br>culture   | IMC                       | 55              | 48   | 35 | 63 | 30                         | 45    | 50    | 3900000 | 585000 | 50%    | 90 |
| 20 | Disease<br>management<br>and<br>prophylacting<br>measures of<br>IMC                 | IMC                       | 47              | 45   | 39 | 57 | 22                         | 26.4  | 20    | 242000  | 343200 | 41.81  | 60 |
| 21 | Integrated<br>Farming   |                           | 5 integrated fa | integrated faring model has been developed by KVK in the village 12000 |    |    |                            |       |       |         |        | 120000 | 40 |

### **Table XIIA: Impacts of extension activities**

| SI.<br>No. | Technology                          | % change in % change<br>area under area under<br>new crops varieties |                                 | nge in<br>ler new<br>ties | Yield (q/ha) |        | Income      |        |        |  |
|------------|-------------------------------------|--|---------------------------------|---------------------------|--------------|--------|-------------|--------|--------|--|
|            |                                     | Before   | After                           | Before                    | After        | Before | After       | Before | After  |  |
| 1          | Integrated farming                  |  | 4                               |                           |              |        |             |        | 120000 |  |
| 2          | SRI                                 |  |                                 |                           |              | 4.0    | 7.2         | 26000  | 49000  |  |
| 3          | ТСВ                                 |  |                                 | 0.5                       | 1.5          | 414    | 782         | 90500  | 184000 |  |
| 4          | Vermicompost                        | No of ea   | rthworm                         | ı/year                    |              |        | 1.5<br>lakh |        | 120000 |  |
| Livestock  |                                     |  |                                 |                           |              |        |             |        |        |  |
| 1          | Backyard Poultry                    | No of bir  | ds                              |                           |              | 50     | 1000        |        | 60000  |  |
| 2          | RIR breed                           | No of bir  | No of birds                     |                           |              |        | 1050        |        |        |  |
|            |                                     | No of eg   | g/bird                          |                           |              | 90     | 210         | 540    | 1260   |  |
| 3          | Introduction of Kakhi<br>Cambell    | No of du   | cks                             |                           |              | 30     | 800         |        |        |  |
|            |                                     | No of eg   | g/duck                          |                           |              | 90     | 180         | 540    | 1080   |  |
| 4          | Mineral Mixture                     | Milk yield   | d per cov                       | N                         |              | 284.35 | 402.83      | 4549   | 6445   |  |
| 5          | Cross breeding                      | No of cro  | oss bree                        | d cow                     |              | 10     | 350         | 3500   | 6800   |  |
| 6          | Mass vaccination                    | Mortality  | Mortality rate decreased by 31% |                           |              |        |             | ·      |        |  |
| 7          | Use of fish fingerling as fish seed | Area of p<br>(ha.)   | onds                            | 6.67                      | 18.67        | 31.5   | 52.5        | 409500 | 525000 |  |

### What are the activities carried out by KVK in your village?

- a. Demonstration
- b. Training
- c. Vaccination
- d. Soil Testing
- e. Formation of seed village
- f. Exposure Visit
- g. Distribution of seeds and critical input

### Changes in village due to KVK intervention

a. Increase in use of new variety:

The use of rice variety Swarna Sub1, PAC-831 hybrid, Gothra BidanI has increased during last 5 year.

More area has been brought into cultivation of mustard variety B-54, T-9, WBBBN-1 Cultivation of tissue cultured banana

b. Crop diversification

Earlier only rice was grown in the village. With KVKs intervention more area is brought under cultivation of vegetables, tissue cultured banana, fodder cultivation and production of paddy seed

- c. Knowledge about improved techniques of crop production
   System of Rice intensification, Zero Tillage, Soil Testing, Vermi composting, Integrated Farming,
   IPM, INM, Backyard poultry, Nutritional garden
- Knowledge about improved dairy techniques
   Using of mineral mixture to increase milk yield
   Using homemade feed to increase milk yield
   Cultivation of different fodder crops
   Vaccination
- e. Increase in employment opportunities due to entrepreneurial training Two women entrepreneur have been developed in field of Katha Stitch One farmer has started vermicompost enterprise 20 farmers have started fish seed business
- f. Community initiativesFormation of one farmers clubFormation of seven Self Help Group

### Suggestion to improve KVKs approach

- a. Availability of certified seed from KVK
- b. Frequent diagnostic visit to farm
- c. Disease management of Crops and animals
- d. Distribution of new varieties
- e. Distribution of critical input
- f. Technology guidance

# Impact assessment of KVK activities in Ketan village

#### Table IB: Distribution of respondents on basis of sex

| Category | No | %      |
|----------|----|--------|
|          |    |        |
| Male     | 25 | 100.00 |
| Female   | 0  | 0.00   |
|          | 25 | 100.00 |

### Table IIB : Distribution of respondents on basis of Age

| Category     | No | %      |
|--------------|----|--------|
| 23 and below | 5  | 20.00  |
| 24-52        | 15 | 60.00  |
| 53 and above | 5  | 20.00  |
|              | 25 | 100.00 |

### Table IIIB : Distribution of respondents on basis of education

| Category         | No | %      |
|------------------|----|--------|
|                  |    |        |
| Illiterate       | 1  | 4.00   |
| Primary          | 8  | 32.00  |
| Secondary        | 14 | 56.00  |
| Higher secondary | 0  | 0      |
| Degree           | 2  | 8.00   |
|                  | 25 | 100.00 |

### Table IVB : Distribution of respondents on basis of family size

| Category     | No | %      |
|--------------|----|--------|
| 2 and below  | 0  | 0.00   |
| 3-7          | 19 | 76.00  |
| 98 and above | 6  | 24.00  |
|              | 25 | 100.00 |

# Table VB : Distribution of respondents on basis of category

| Category | No | %      |
|----------|----|--------|
|          |    |        |
| SC       | 8  | 32.00  |
| ST       | 1  | 4.00   |
| Others   | 16 | 64.00  |
| 2        | 25 | 100.00 |

### Table VIB : Distribution of respondents on basis of land holding

| Category              | No | %      |
|-----------------------|----|--------|
|                       |    |        |
| Landless              | 1  | 4.00   |
| Marginal (<1ha)       | 17 | 68.00  |
| Small (1-2 ha)        | 6  | 24.00  |
| Semi- medium (2-4 ha) | 1  | 4.00   |
| Medium (4-10 ha)      | 0  | 0      |
| Large (>10 ha)        | 0  | 0      |
|                       | 25 | 100.00 |

### Table VIIB: Distribution of respondents on basis of following attributes

| Type of house owned                  | Kaccha | a House | Pacca | House | То | tal    |
|--------------------------------------|--------|---------|-------|-------|----|--------|
|                                      | No     | %       | No    | %     | No | %      |
|                                      | 12     |         | 13    |       | 25 | 100.00 |
|                                      |        |         |       |       |    |        |
| Particulars                          | Y      | es      | Ν     | lo    | То | ital   |
|                                      | No     | %       | No    | %     | No | %      |
| Availability of Pond                 | 11     | 44.00   | 14    | 56.00 | 25 | 100.00 |
| Availability of horticultural garden | 5      | 20.00   | 20    | 80.00 | 25 | 100.00 |
| Availability of Cattle               | 10     | 40.00   | 15    | 60.00 | 25 | 100.00 |
| Availability of tractor              | 2      | 8.00    | 23    | 92.00 | 25 | 100.00 |
| Availability of Paddy Thresher       | 19     | 76.00   | 6     | 24.00 | 25 | 100.00 |
| Availability of Pump set             | 16     | 64.00   | 9     | 36.00 | 25 | 100.00 |
| Availability of Bicycle              | 23     | 92.00   | 2     | 8.00  | 25 | 100.00 |
| Availability of of Motor bike        | 7      | 28.00   | 18    | 72.00 | 25 | 100.00 |
| Availability of radio set            | 11     | 44.00   | 14    | 56.00 | 25 | 100.00 |
| Availability of TV                   | 17     | 68.00   | 8     | 32.00 | 25 | 100.00 |
| Availability of mobile               | 15     | 60.00   | 10    | 40.00 | 25 | 100.00 |
| Availability of Sprayers             | 21     | 84.00   | 4     | 16.00 | 25 | 100.00 |

| Category       | No | %      |
|----------------|----|--------|
|                |    |        |
| Daily          | 0  | 0.00   |
| Weekly         | 2  | 8.00   |
| Monthly        | 23 | 92.00  |
| Quarterly      | 0  | 0.00   |
| Once in season | 0  | 0.00   |
|                | 25 | 100.00 |

### Table VIIIB: Distribution of respondents on basis of Frequency of meeting with KVK

### Table IXB: Sources of information

| Source    |             | Attribute  |         |           |            |  |  |  |  |  |  |
|-----------|-------------|------------|---------|-----------|------------|--|--|--|--|--|--|
|           | Reliability | Regularity | Quality | Relevance | Timeliness |  |  |  |  |  |  |
| KVK       | 100.00      | 100.00     | 100.00  | 100.00    | 100.00     |  |  |  |  |  |  |
| Neighbour | 56.00       | 40.00      | 48.00   | 48.00     | 76.00      |  |  |  |  |  |  |
| Friend    | 56.00       | 28.00      | 28.00   | 28.00     | 28.00      |  |  |  |  |  |  |
| ADO/ ADA  | 92.00       | 88.00      | 88.00   | 88.00     | 88.00      |  |  |  |  |  |  |
| TV        | 64.00       | 40.00      | 36.00   | 36.00     | 24.00      |  |  |  |  |  |  |

## Table XB: Cropping pattern

| Сгор       |           | Before KVK                          |                  |           | After KVK                           |                  |
|------------|-----------|-------------------------------------|------------------|-----------|-------------------------------------|------------------|
|            | Area (ha) | Area under<br>improved<br>varieties | Yield/ ha<br>(q) | Area (ha) | Area under<br>improved<br>varieties | Yield/ ha<br>(q) |
| Kharif     |           |                                     |                  |           |                                     |                  |
| Paddy      | 214       | -                                   | 35               | 214       | 28                                  | 60-65            |
| Vegetables | 24        | -                                   | 180              | 26        | 21                                  | 200              |
| Rice bean  |           |                                     |                  | 0.5       | 0.5                                 | 210              |
|            |           | -                                   |                  |           |                                     |                  |
| Rabi-      |           |                                     |                  |           |                                     |                  |
| Wheat      | 9         | -                                   | 17               | 11        |                                     | 19.6             |
| Mustard    | 27        | -                                   | 7-8              | 25        | 25                                  | 10-11            |
| Lentil     | 5         | -                                   | 9.2              | 9         | 6                                   | 11.5             |
| Potato     |           |                                     |                  | 27        | 19                                  | 270              |
| Vegetables | 34        | -                                   | 200              | 39        | 36                                  | 240              |
| Summer     |           |                                     |                  |           |                                     |                  |
| Vegetable  | 10        | -                                   | 175              | 10        | 10                                  | 190              |

### Table XIB: Impact of FLD

| Demonstrated technology                | Crop                   |       | Producti<br>g/ha | vity   | No of<br>Beneficiary | % c       | hange |          | % of adoption | o of Impact at farm (%) |        |
|--|------------------------|-------|------------------|--------|----------------------|-----------|-------|----------|---------------|-------------------------|--------|
|  |                        | CP    | Demo             | %      |                      | Knowledge | Skill | Attitude |               | Yield                   | Income |
|  |                        |       |                  | change |                      |           |       |          |               |                         |        |
| Production technology of variety B – 9 | Mustard                | 8.2   | 11.0             | 34.14  | 30                   | 64        | 58    | 53       | 42            | 34.14                   | 12     |
| IPM                                    | Mustard                | 10.25 | 13.75            | 34.20  | 5                    | 32        | 24    | 22       | 21            | 34.20                   | 24.51  |
| Package demonstration of MTU-7029      | Paddy                  | 37.65 | 44.26            | 17.4   | 7                    | 87        | 85    | 85       | 83            | 17.4                    | 11     |
| SRI                                    | Paddy                  | 52.6  | 71.6             | 34     | 15                   | 43        | 21    | 20       | 18            | 34                      | 18.97  |
| Package technology on<br>Lentil        | Lentil                 | 9.5   | 11.2             | 17.89  | 18                   | 63        | 59    | 52       | 22            | 17.89                   | 15.53  |
| Late blight disease management         | Potato                 | 250   | 285              | 14     | 10                   | 68        | 65    | 61       | 58            | 14                      | 11.81  |
| Fodder Production                      | Ricebean<br>(Bidhan 1) | 187.4 | 232              | 23.7   | 5                    | 63        | 58    | 45       | 11            | 23.7                    | 15.4   |
| Component<br>demonstration             | Brinjal                | 213.7 | 226.5            | 6      | 8                    | 54        | 43    | 39       | 38            | 8                       | 12     |
| Pheromone Trap                         | Brinjal                | 231   | 246              | 6.7    | 6                    | 48        | 37    | 26       | 6             | 6                       | 13     |
| Livestock                              |                        |       |                  |        |                      |           |       |          |               |                         |        |
| Mineral Mix                            | Cattle                 | 291.7 | 410.9            | 40.8   | 10                   | 76        | 74    | 75       | 42            | 37.5                    | 7      |
| Khaki Cambell                          | Duck                   | 180   | 210              | 16.6   | 5                    | 84        | 78    | 77       | 27            | 12                      | 8      |
| Fish                                   | Jayanti<br>rohu        | 9.10  | 9.77             | 6      | 05                   | 64        | 61    | 57       | 19            | 6                       | 10     |
| Fish                                   | Pangus                 | 3.1   | 4.0              | 29     | 07                   | 68        | 65    | 63       | 23            | 29                      | 9      |
| Fish                                   | Tilapia                | 5.0   | 5.95             | 19     | 10                   | 45        | 35    | 35       | 11            | 19                      | 7      |

### Table XIIB: Impact of training

| SI.<br>No | Subject of training                       | Сгор                       | % c       | hange c | lue to traini | ng       |                    | rield (q/ha)      |             | % ch                             | No of<br>benefi<br>ciary |             |    |
|-----------|---|----------------------------|-----------|---------|---------------|----------|--------------------|-------------------|-------------|----------------------------------|--------------------------|-------------|----|
|           |   |                            | Knowledge | Skill   | Attitude      | Adoption | Before<br>training | After<br>training | %<br>change | Before<br>training<br>Net profit | After<br>training        | %<br>change |    |
|           | Weed<br>Management                        | Rice                       | 81        | 67      | 48            | 15       | 45                 | 50                | 11.11       | 23560                            | 28140                    | 19.43       | 40 |
|           | Water<br>management                       | Rice                       | 58        | 42      | 34            | 6        | 45                 | 55                | 22.22       | 23560                            | 32370                    | 37.39       | 45 |
|           | Seed<br>production                        | Rice                       | 67        | 54      | 53            | 9        | 45                 | 54                | 20          | 23560                            | 31800                    | 34.97       | 60 |
|           | Nursery<br>management                     | Rice                       | 87        | 83      | 82            | 34       | 45                 | 49                | 8.89        | 23560                            | 27680                    | 17.48       | 60 |
|           | Integrated Crop<br>Management             | Rice                       | 36        | 24      | 19            | 7        | 45                 | 50                | 11.11       | 23560                            | 29000                    | 23.08       | 40 |
|           | Seed Treatment                            | Rice                       | 100       | 100     | 100           | 1000     | 45                 | 52                | 15.55       | 23560                            | 29980                    | 27.24       |    |
|           | SRI                                       | Rice                       | 68        | 59      | 56            | 54       | 45                 | 75                | 66.66       | 23560                            | 40530                    | 72.03       | 90 |
|           | Production<br>technology of<br>vegetables | Vegetables                 | 67        | 54      | 48            | 16       | 213                | 234               | 10          | 47750                            | 58946                    | 23.45       | 40 |
|           | Plant<br>propagation<br>techniques        |                            | 19        | 15      | 13            | 1        | -                  | -                 | -           | -                                | -                        | -           | 20 |
|           | Production of<br>organic inputs           | Vermicompost,<br>Vermiwash | 36        | 34      | 27            | 3        | -                  | -                 | -           | -                                | 20000                    | 100.00      | 20 |
|           | Fodder<br>production                      | Ricebean                   | 21        | 17      | 16            | 2        | 194                | 240               | 23.71       | 3895                             | 6100                     | 56.00       | 30 |
|           | Nursery raising for vegetables            | Onion, brinjal,<br>Tomato  | 17        | 14      | 13            | 4        | 218                | 249               | 14.22       | 38900                            | 57800                    | 48.58       | 20 |
|           | Dairy<br>Management                       | Cow                        | 83        | 79      | 74            | 68       | 293                | 432.5             | 47.6        | 510                              | 2189                     | 329.21      | 60 |
|           | Poultry                                   | Hen                        | 85        | 82      | 78            | 72       |                    |                   |             | 20000                            | 60000                    | 200.00      | 45 |

| Management  |        |    |    |    |    |     |      |    |         |        |       |     |
|---|--------|----|----|----|----|-----|------|----|---------|--------|-------|-----|
| Disease<br>Management   | Animal | 87 | 78 | 73 | 70 | -   | -    | -  | -       | -      |       | 100 |
| Gender<br>mainstreaming<br>through SHGs   |        | 58 | 57 | 52 | 49 |     |      |    |         |        |       | 30  |
| Household food<br>security by<br>kitchen<br>gardening and<br>nutrition<br>gardening |        | 34 | 27 | 21 | 7  | 140 | 210  | 50 | 56100   | 93500  | 66.67 | 20  |
| Composite Fish<br>culture   | IMC    | 55 | 48 | 35 | 63 | 30  | 45   | 50 | 3900000 | 585000 | 50.00 | 90  |
| Disease<br>management<br>and<br>prophylacting<br>measures of<br>IMC                 | IMC    | 47 | 45 | 39 | 57 | 22  | 26.4 | 20 | 242000  | 343200 | 41.81 | 60  |
## **Table XIIIB: Impacts of extension activities**

| SI.<br>No. | Technology                          | % change in<br>area under new<br>crops |       | % change in<br>area under new<br>varieties |       | Yield (q/ha)  |               | Income |        |
|------------|-------------------------------------|--|-------|--|-------|---------------|---------------|--------|--------|
|            |                                     | Before                                 | After | Before                                     | After | Before        | After         | Before | After  |
| 1          | SRI                                 |  |       |  |       | 4.0           | 7.2           | 26000  | 49000  |
| 2          | Mushroom                            |  |       |  |       | 600gm/<br>bed | 900gm<br>/bed | -      | 12000  |
| Livestock  |                                     |  |       |  |       |               |               |        |        |
| 1          | Backyard Poultry                    | No of birds                            |       |  |       | 65            | 1500          | -      | 62000  |
| 2          | RIR                                 | No of birds<br>No of egg/bird          |       |  |       |               | 800           |        |        |
|            |                                     |  |       |  |       | 90            | 210           | 540    | 1260   |
| 3          | Kaki Cambell                        | No of duck<br>No of eggs/duck          |       |  |       |               | 600           |        |        |
|            |                                     |  |       |  |       | 90            | 180           | 540    | 1080   |
| 4          | Mineral Mixture                     | Milk yield per cow                     |       |  |       | 250           | 400           | 4549   | 6445   |
| 5          | Cross breeding                      | No of cross breed cow                  |       |  |       | 7             | 180           | 2000   | 6000   |
| 6          | Mass vaccination                    | Mortality rate decreased by 29%        |       |  |       |               |               |        |        |
| 7          | Use of fish fingerling as fish seed | Area of p<br>(ha.)                     | onds  | 4.48                                       | 12.37 | 29.5          | 47.5          | 383500 | 617500 |

## What are the activities carried out by KVK in your village?

- h. On Farm Testing
- i. Demonstration
- j. Training
- k. Vaccination
- I. Soil Testing
- m. Formation of seed village
- n. Exposure Visit
- o. Distribution of seeds and critical input

## Changes in village due to KVK intervention

g. Increase in use of new variety:

The use of rice variety Swarna Sub1, PAC-831 hybrid has increased during last 5 year.

More area has been brought into cultivation of mustard variety T-9, WBBBN-1

More area has been brought under cultivation of brinjal Bhangar variety

Area under Abhilash variety of tomato has increased.

WBL 81 variety of lentil was introduced

h. Crop diversification

Earlier only rice and bit vegetable was grown along with marginal mustard and wheat was grown in the village. With KVKs intervention more area is brought under cultivation of off season vegetables, fodder cultivation and production of paddy seed

- Knowledge about improved techniques of crop production
  System of Rice intensification, Zero Tillage, Soil Testing, Vermi composting, Integrated Farming, IPM, INM, Backyard poultry, Nutritional garden, Oyster mushroom production
- j. Knowledge about improved dairy techniques
  Using of mineral mixture to increase milk yield
  Using homemade feed to increase milk yield
  Cultivation of different fodder crops
  Vaccination

## Suggestion to improve KVKs approach

- g. Frequent diagnostic visit to farm
- h. Disease management of Crops and animals
- i. Distribution of seeds of new varieties
- j. Distribution of critical input
- k. Conducting exposure visit